

Volume 1
Applications Software

PDP-11

Software Source Book

Third Edition

digital

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Introduction: How to Use This Book

DIGITAL is proud to help you solve the problem of finding the right software product. This third edition of the *PDP-11 Software Source Book* describes more than 2,000 PDP-11 software products that are available and working in a wide range of businesses and organizations. These software products cover many application areas, from handling orders and accounts receivable for wholesalers of food and health and beauty aids to material requirements planning for large-scale manufacturing operations. Some software products might be just what you need, others might be useful to you in the future, and still others might suggest uses you had not considered before. Whatever your software need, one or more of the products described in this book can provide you with PDP-11 solutions.

We expect future editions of the *PDP-11 Software Source Book* to contain many more products. The book and its future editions can keep you up to date on the growing body of PDP-11 software.

Roadmaps into the Book

The *PDP-11 Software Source Book* consists of two volumes: Applications Software and Systems Software. Each volume contains five paths to the information contained within it:

- The **Contents** lists the industries and generic disciplines within each volume. Volume 1, Applications Software, comprises areas such as Accounting, Engineering, and Management. Volume 2, Systems Software, covers such topics as Language Processors, Operating Systems, and Text Management.
- The **Keyword Cross-Reference Guide** groups the software products within each volume by keyword, such as "Banking" and "Simulation," and indicates the major PDP-11 operating systems on which they run.
- The **Operating System Cross-Reference Guide** groups software products within each volume by major PDP-11 operating system and within those groupings by industry/generic discipline.

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- The **Program Title List** is an alphabetical list of the software products within each volume.
- The **Index** for each volume consists of an alphabetical listing of industries/disciplines within that volume, along with the keywords used within each industry/discipline. Also included in each Index are the names of the vendors supplying the products described in that volume.

These roadmaps can help you find specific software products or topics. For example, if you do not find a product after consulting the Keyword Cross-Reference Guide in a volume, try the Index. If you know the name of a product, check the Program Title List. To determine what products are available for your operating system, refer to the Operating System Cross-Reference Guide. Also, you can scan both volumes for possible products.

Format of an Entry

Software producers and distributors supplied the entries in this book. A typical entry follows:

- ① **WORDAID (Word Processor for Scientific Research)**
- ② **Operating System:** RSTS, RSX, RT-11
- ③ **Keywords:** • Research • Scientific • Text management
 • Word processing
- ④ A word processing program specifically designed for scientific research, WORDAID generates a table of contents, performs footnoting and indexing, and produces a scientific bibliography. The program allows users to update research material with ease.
A version of this product is available for the VAX computer.
- ⑤ **Price:** \$1,000 – \$2,000
- ⑥ **Contact:** Joseph C. Zycoff, Technical Sales Manager
(212) 123-4567
ZYGOTE SYSTEMS, INC.
789 West 43rd Street
New York, NY 00123
- ① **Software Title:** A typical product name is an acronym followed by the full title in parentheses.
- ② **Operating System:** This portion of the entry lists operating systems on which the software product runs. When planning to purchase a software product, you must consider what operating system you have. In that way, you ensure that the software product that you purchase will run on your hardware.
- ③ **Keywords:** These words define a software product. They give you a quick idea of the product's function and application without your having to read the entire description.

- ④ **Description:** This portion of the entry describes software features and capabilities.
- ⑤ **Price:** Unless otherwise indicated, the cost is expressed in U.S. dollars and is frequently given as a range. The price you pay may depend on such factors as maintenance costs, required level of support and degree of customization, size and number of computers on which you intend to run the product, and in the case of multimodule programs, which modules you require.
- ⑥ **Contact:** Call or write to the contact person or company for more information on the software product. The telephone number, company name, and address are listed.

Other Useful Information

Software products differ in their hardware configuration requirements. Additionally, some software products require other software to work. Ask the software supplier to specify precisely what hardware and related software, if any, are required for the product to work properly in your installation.

DIGITAL Products: Some products described in this book are sold and supported by DIGITAL. A DIGITAL-supported product is warranted as described and for the period specified in the Software Product Description (SPD).

To purchase a DIGITAL software or hardware product, contact your local sales office. For the location of your local DIGITAL sales office, dial 1-800-DIGITAL.

DECUS Products: Digital Equipment Computer Users Society (DECUS) was established in 1961 and is supported in part by DIGITAL. DECUS is one of the largest and most respected users groups in the computer industry. The group's purpose is to provide a forum for the interchange of computer information in a noncommercial environment.

One of the major activities of DECUS is the Program Library, which contains products written and submitted by users. DECUS offers products, such as programming languages, data communications, engineering and technical applications, graphics, device drivers, application/system management tools, and games. Unless otherwise noted, software from the Program Library contains all sources necessary to modify a product to your needs.

DECUS distributes products for nominal service charges. However, the DECUS Program Library is only a clearinghouse; it neither sells nor tests products but rather supplies all products and information "as is." Neither DECUS nor DIGITAL provides software support for DECUS products.

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For information on how to join DECUS or to obtain a DECUS catalog, write to:

DECUS Membership
249 Northboro Road
BPO2
Marlboro, MA 01752

EAS Library: Products in the External Application Software (EAS) Library are written by independent vendors and tested by DIGITAL. DIGITAL verifies that these products can be installed in the described manner and that they perform in accordance with their documentation. Unless otherwise indicated, these products are sold "as is." They may be ordered from either DIGITAL or the vendor.

Related Publications: Several publications may be of interest to PDP-11 users. The *ULTRIX Software Guidebook* (order number EJ-26153-20) contains descriptions of ULTRIX- and UNIX*-based software products that run on the PDP-11 and VAX computers. The *PDP-11 Software Handbook* (order number EB-21759-20) provides more information on DIGITAL software products. The *PDP-11 Systems & Options Catalog* (order number ED-25984-41) provides summary information on PDP-11 computers, peripherals, and software.

For more information on specific PDP-11 computers, consult one of the following handbooks. For the larger PDP-11 computers and computer systems, consult the *PDP-11 Processor Handbook* (order number EB-19402-20); for information on microcomputers sold in board form, refer to *Microcomputers and Memories* (order number EB-20912-20). To order either book, call the Installed Base Group toll free at 1-800-258-1710. For information on the new Winchester disk-based MICRO/PDP-11 computer, consult the *PDP-11 MICRO/PDP-11 Handbook* (order number EB-24944-18); you may obtain a copy from your local sales office or from:

Digital Press
12A Esquire Road
Billerica, MA 01862
1-800-343-8321

Custom Software: Many vendors listed in this book will tailor their software products to fit your needs or will develop a product on a contract basis. Thus, although products listed here may not match your needs exactly, this book may lead you to vendors that will provide suitable custom software. DIGITAL also undertakes such projects, and you may want to discuss your software needs with your DIGITAL sales representative. Dial 1-800-DIGITAL for the location of your local DIGITAL sales office.

*UNIX is a trademark of AT&T Bell Laboratories.

How to Order Additional Books

To order additional copies of this book or to receive a free copy of other DIGITAL Software Source Books, send in one of the business reply cards at the back of either volume, contact your local DIGITAL sales office, or write to:

Attn.: G. Deforge
Digital Equipment Corporation
Printing and Circulation Services
444 Whitney Street
Northboro, MA 01532

Ask for each book by full title and order number.

How to Be Placed on Our Mailing List

If you wish to receive a free copy of the next edition of this book or other DIGITAL Software Source Books, send in one of the business reply cards at the back of either volume. If the cards are missing, write to:

Editor, Software Source Books
MLO 5-5/E45
Digital Equipment Corporation
146 Main Street
Maynard, MA 01754-2571

or phone: (617) 493-3200.

How to Have Your Software Product Listed

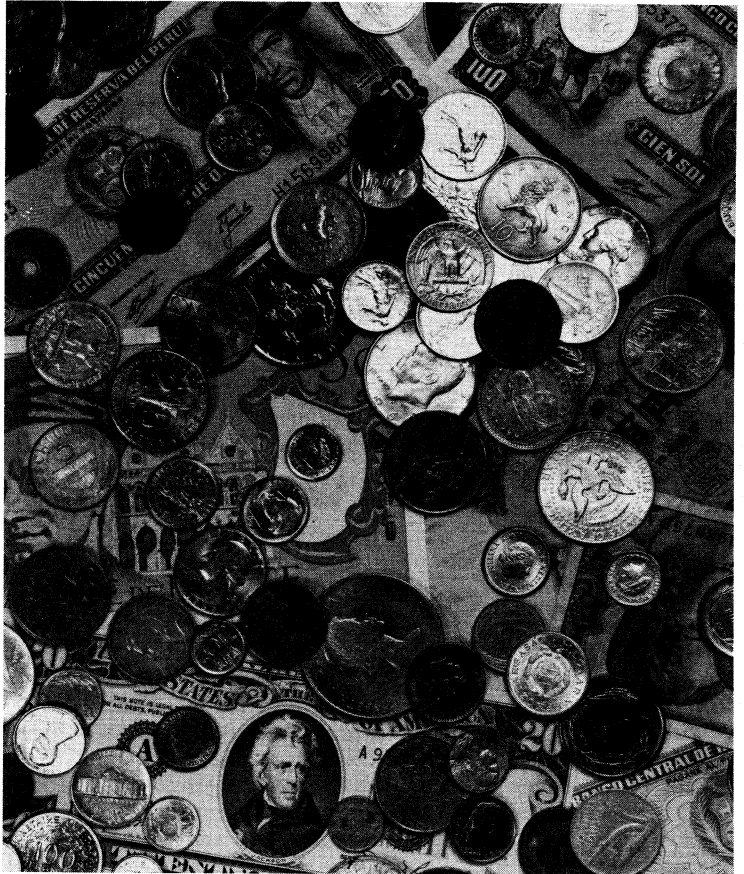
If you wish to include your software product(s) in one or more of DIGITAL's Software Source Books, read "How to Have Your Software Product Listed" and complete the entry form at the back of this book.

Applications Software





Accounting



4 Accounting

Abax Depreciation System

Operating System: CTS-300, RSTS, RT-11, TSX-PLUS

Keywords: • Cost accounting • Fixed assets • Inventory
• Maintenance

The Abax Depreciation System is a comprehensive tool for analyzing current fixed assets and determining the feasibility of adding assets. It calculates at the point of data entry. It also has a monthly depreciation report, year-to-date disposition and purchases reports, a projected-depreciation report, and an amortization schedule. All current depreciation methods are included.

A version of this product is available for the VAX computer.

Price: \$2,000

Contact: Charles R. McKown, President
(316) 663-5041

ABAX COMPUTER SYSTEMS
P.O. Box 1097
Hutchinson, KS 67504

ABLE® Client Writeup System

Operating System: RSTS

Keywords: • Data base management • Financial analysis
• Payroll

ABLE is an interactive reporting system designed to provide accountants with the means to create any management report and/or analysis and any financial report and/or analysis a client may consider necessary in gauging business performance. ABLE also contains a feature permitting entry of employee payroll information and the automatic preparation of quarterly returns and year-end W-2 forms.

ABLE's nonrestrictive account-numbering scheme means that each client can have its own unique Chart of Accounts and that each entity of a multicorporate client could have its own account-numbering scheme. Data can be entered in random order, and provision is made for entering adjustments to prior accounting periods. Data entry under ABLE is carefully controlled by audit reports and edit lists, including the Transaction Edit List, the General Journal, the Payroll Journal, and the detailed General Ledger.

After data entry, no further human involvement is necessary. ABLE's powerful report writer and generator takes charge, preparing the reports and analyses it instructs itself to prepare and enabling the computer to automatically make and post such entries as standard adjusting entries, accrual entries, depreciation entries, depletion entries, and the like. Virtually any report and/or analysis that a qualified accountant might otherwise prepare with the aid of paper, pencil, and calculator is prepared automatically. The system prorates, calculates, allocates, and figures percentages (using any number of 100% figures) — all without "people" intervention.

A version of this product is available for the VAX computer.

Price: \$25,500

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.
1010 S. Weinbach Avenue, P.O. Box 2469
Evansville, IN 47714

ABLE® Receivables and Billing System

Operating System: RSTS

Keywords: • Accounts receivable • Billing
• Data base management • General ledger

This menu-driven, operator-oriented system with interactive entry/edit is parameterized by "site standards" and provides:

- Registers for cash receipts and credit/discount
- Automated invoice preparation and invoice register
- Cash receipt distribution across corporate lines
- Aging reports, customer statements, and journal register
- Customer lists — alphabetical, numeric, long form, short form
- Collection and sales histories
- Automatic "standard bill" items, selective calculation and entering of late charges, and posting to general ledger
- On-line master file maintenance
- Mailing labels with multiple reprints
- Reruns without disk changes
- Optional check digit control
- Input sequence number control
- Unlimited chart of accounts
- Imprint headers for multiple users
- Report on average collection days
- Limited aging report for credit department
- Delete control over active accounts
- Easy clearing of spooled files after successful print
- "View or que"
- Input batch control
- Customer open items/or balance forward selectively
- Customer inquiry

A version of this product is available for the VAX computer.

Price: \$5,000

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.
1010 S. Weinbach Avenue, P.O. Box 2469
Evansville, IN 47714

6 Accounting

ABLEpayables

Operating System: RSTS

Keywords: • Accounts payable • Financial analysis

ABLEpayables is a flexible on-line interactive system that may be implemented as a stand-alone accounts payable system or interfaced with other systems. The system has many user-controlled options and does not require a programmer for adaptation to a time-share environment. Those options include top- or bottom-stub checks, saving vendor/invoice history, general ledger interfacing, vendor check-digit numbering, preprinted (customized) check forms, and entry of purchase order numbers.

Use of the cash requirements report gives management full control over check issuance and, therefore, cash flow. Checks may be printed selectively, based on the availability of funds. ABLEpayables supports the use of partial payment, hold payment, manual checks, voided checks, and changes in due dates. Screen-formatted entry encourages user acceptance, decreases operator training time, and ensures data integrity.

A version of this product is available for the VAX computer.

Price: \$5,000

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.
1010 S. Weinbach Avenue, P.O. Box 2469
Evansville, IN 47714

Absolut Software: Business and Inventory Management

Operating System: ULTRIX, UNIX

Keywords: • Accounts receivable • Billing • Inventory
• Order entry

This on-line interactive software package runs on all UNIX*-based computers having a minimum of 256K linear RAM and 20 MB of hard disk and provides order entry, billing and sales history, inventory management, and accounts receivable for such inventory-intensive businesses as distributors, wholesalers, importers, chain retailers, direct-response marketers, and distributing manufacturers. Optional modules are available for accounts payable and general ledger. Among the options offered for the order entry/inventory/accounts receivable cluster are entity management providing multisite inventory; mail order (a capability to enter orders even if a customer file does not exist); point-of-sale interface, permitting exchange of data with cash registers (included in the entity management module); and serialized inventory, permitting inventory to be tracked by serial number, lot number, and so on.

The software package is written in C, the UNIX* native code, which permits fast operation.

Absolut Software is provided with a run-time version of UNIFY, a relational data base management system, which has industry-standard SQL query language. That version, along with the UNIFY report generator, permits a nonprogrammer to query any part of the data files and to format reports in a broad range, in effect permitting customization in the field without recourse to source code.

The entire package is menu driven, with extensive help and prompt screens, and no knowledge of the UNIX* commands or mnemonics is required.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$25,000 – \$320,000

Contact: J. T. McGrath
(617) 277-0610

ABSOLUT SOFTWARE
2001 Beacon Street
Boston, MA 02146

Accountant II Accounts Payable System

Operating System: RSX

Keywords: • Accounts payable • Cost accounting
• Financial analysis • Report writer

The Accountant II Accounts Payable System has been designed for ease of use and versatility and functions in concert with the Accountant II General Ledger and Project/Job Cost systems. The Accounts Payable System features the following:

- Inquiry capabilities — You can request a display of all open invoices due a vendor or display all the disbursements made for the month by simply pressing a few buttons.
- Cash requirements — A Cash Requirement Report is automatically produced by the system. Based on the payment-due dates and the current date, the report displays the cash requirements by week for the current week and for the next four weeks.
- Check writing — Checks are automatically printed upon either a computed pay date or on an override basis. Manually written checks are also processed by the system.
- Job cost and expensing — Information on expense distribution and job cost allocations are entered with the invoices. The system can produce expense distribution reports for general ledger purposes and post expense to projects.
- Reports — The system provides the following reports: Accounts Payable Expense Distribution, Check Registers, Cash Requirements, Aged Trial Balance, and Checks.

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A version of this product is available for the VAX computer.

Price: \$2,000 – \$3,000

Contact: Richard Northrup, Sales Director
(212) 221-2517

COMPUTRON BUSINESS SOLUTIONS, INC.
701 Seventh Avenue, Suite 9W
New York, NY 10036

Accountant II Accounts Receivable System

Operating System: RSX

Keywords: • Accounts receivable • Report writer • Retail
• Wholesale

The Accountant II Accounts Receivable System has been designed for use as a stand-alone system or with the Accountant II Order Entry, General Ledger, and Project/Job Cost systems. The Accounts Receivable System has the following capabilities:

- **Inquiry** — Immediate inquiry capabilities are provided. You can request a display of all unpaid invoices for a customer by simply pressing a few buttons.
- **On-line cash application** — Cash is applied directly to a customer's open invoices, which are displayed for that purpose. A single keystroke is used to apply cash to an invoice. A cash application journal balances to the month's deposits.
- **Statements** — Statements can be run at any time during the month. Both midmonth and end-of-month statements can be produced. Statements can be selected for printing on request.
- **Invoicing** — Invoicing can be performed as a by-product of the Order Entry System or directly by the Accounts Receivable System. In either case, invoices are posted to the Open A/R File.
- **Reports** — The system provides the following reports: Daily and Monthly Invoice Registers, Invoices, Statements, Aged Trial Balance, Cash Journals, and Salesman Commission reports.

A version of this product is available for the VAX computer.

Price: \$2,000 – \$3,000

Contact: Richard Northrup, Sales Director
(212) 221-2517

COMPUTRON BUSINESS SOLUTIONS, INC.
701 Seventh Avenue, Suite 9W
New York, NY 10036

Accountant II General Ledger System

Operating System: RSX

Keywords: • Financial analysis • General ledger
• Report writer

The Accountant II General Ledger System has been designed for ease of use and versatility and functions with the Accountant II Accounts Payable and Accounts Receivable systems. The General Ledger System has the following features:

- Your chart of accounts — The system utilizes your chart of accounts. You do not need to modify your account numbers, as is required by other systems.
- Unlimited consolidations — You can produce consolidated financial statements by pressing a button. You can even consolidate individual statements from companies with dissimilar charts of accounts.
- User-defined formats — You can alter the sequence and form of your financial statements without any programming changes. You can print both a detail statement and a summary statement automatically.
- Automatic entries — The system accepts entries automatically from the Accountant II Payables and Receivables systems. The entries can be entered into the general ledger on a detail or journal entry basis.
- Reports — The system provides journal listings, trial balance, general ledger, financial statements, and budget reports.

A version of this product is available for the VAX computer.

Price: \$2,000 – \$3,000

Contact: Richard Northrup, Sales Director
(212) 221-2517

COMPUTRON BUSINESS SOLUTIONS, INC.
701 Seventh Avenue, Suite 9W
New York, NY 10036

Accountant II Purchasing System

Operating System: RSX

Keywords: • Inventory • Purchasing • Report writer
• Retail

The purchase order subsystem accepts order information, prints purchase orders, tracks the orders, and updates the inventory when the orders are received. The receiving function is performed on line on an exception or blind receiving basis.

A version of this product is available for the VAX computer.

Price: \$2,000 – \$3,000

Contact: Richard Northrup, Sales Director
(212) 221-2517

COMPUTRON BUSINESS SOLUTIONS, INC.
701 Seventh Avenue, Suite 9W
New York, NY 10036

10 Accounting

Accountant Time and Billing

Operating System: RSTS

Keywords: • Accounts receivable • Billing • General ledger
• Payroll

This package provides accounts receivable, payroll, general ledger, time and expense entry and analysis, billing and invoice generation, client accountant file maintenance, a work-in-process system by accountant, employee file maintenance and reports, financial statement reporting, fixed assets and depreciation control, mailing-list capabilities, and word and list processing.

A version of this product is available for the VAX computer.

Price: \$2,000 – \$20,000

Contact: Andrew Yasenchak
(201) 231-9400
UNITRONIX CORP.
197 Meister Avenue
Somerville, NJ 08876

Accountant Write-up

Operating System: MS/DOS, PICK, UNIX, XENIX

Keywords: • Data collection • Payroll • Purchasing
• Report writer

The program supplies the following:

- Flexible account number formats.
- Uniquely defined fiscal year for each client.
- Statements produced through the statement generator and not tied to the chart of accounts format.
- Trial balance, general ledger, and worksheet reports.
- Entry screen for each unique type of original document — cash disbursements, sales, purchases, payroll deposits, and journals.
- After-the-fact payroll entry, which maintains employee master file.
- Payroll and cash disbursements check entry may be mixed.
- Payroll reports — summary, history, 941s, quarterly, and W-2s.
- Automatic budget generation, based on prior year's budgets.
- On-line CRT account inquiry for any account.
- Recurring journal entry.
- Check reconciliation processing.
- Data-input accuracy — transaction entries may be edited and corrected prior to posting.
- Transaction entry screens match the format of original documents.
- Audit trails — posting programs automatically produce journals.

A version of this product is available for the VAX computer.

Price: \$3,500

Contact: Steve Thomas
 (713) 270-5218 or (800) 231-0062
 THE SOFTWARE EXPRESS, INC.
 10103 Fondren, Suite 220
 Houston, TX 77096

Accounting

Operating System: RSTS

Keywords: • Accounts payable • Accounts receivable
 • General ledger • Payroll

This collection of integrated business systems provides improved procedures, reduced paperwork, and timely information for later profitability. A logical solution for small and medium-size businesses, the system is flexible in size, meeting the needs of a small company with a dedicated computer or a multidepartmental organization requiring simultaneous computer access from many locations. Features of the system include:

- Extensive validation of input
- Comprehensive balancing, batch controls
- Audit trails
- Immediate validation of general ledger — distribution accounts for all companies and/or organizational units; complete, automatic generation of journal entries for simplified interface with general accounting; simultaneous accommodation of multiple accounting periods, eliminating the need to close one period before proceeding to the next one; vouchers-paid history by vendor; ability to enter vouchers for standard vendors and 1-time vendors; and automatic determination of scheduled installment payment amounts and due dates

A version of this product is available for the VAX computer.

Price: \$3,000 – \$5,000

Contact: E. Jackson Smith
 (301) 296-9032
 SMITH, ABBOTT, AND COMPANY, INC.
 300 E. Joppa Road
 Baltimore, MD 21204

Accounting, Integrated

Operating System: ULTRIX, UNIX

Keywords: • Cost accounting • Manufacturing
 • Property management • Real estate

This fully integrated on-line multiuser UNIX*-based accounting system includes A/P, Billing-A/R, G/L, Inventory Control, Job Costing, Order Processing, Purchase Order Accounting, Sales Analysis, Cost Estimating, and Payroll. The features of each module are listed under individual headings. Standard system features include:

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- Print key provides hard copy of any screen image via system printer.
 - True multiuser design allows concurrent use of any program.
 - Timely information ensured through automatic G/L update from all modules.
 - Multicompany/multidivision support is built into all programs, and the user may be assigned to predefined company/division or allowed option to specify company/division.
 - All management reports may be run at any time for any fiscal period (either past or current).
 - Processing of new month's information may proceed while prior month is being "closed."
 - Printed transaction logs provide complete audit trail of every transaction entering the system. Transaction logs include error code highlighting invalid data fields.
 - Supplemental security at menu level limits access to unauthorized programs.
 - Programs contain extensive checks for error conditions and records them in error log file.
- *UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$22,400 – \$50,000

Contact: Laurel McDaniel
(312) 332-3242

NEAL NELSON & ASSOCIATES
185 N. Wabash, Suite 1908
Chicago, IL 60601

Accounting "Plus" Business Software

Operating System: CTS-300, RT-11, UNIX

Keywords: • Accounts payable • Accounts receivable
• General ledger • Inventory

ABS software packages are designed to perform specific business functions as well as to work together to merge, sort, and rearrange information. Data is keyed into the computer once but is used to update several files and reports simultaneously. For example, entry of a sales order checks both customer and inventory records. The resulting invoice automatically reduces the inventory file, creates an accounts receivable record, and posts the transaction for general ledger.

In addition, ABS software features include security, audit trails, multiple-user access, multiple-branch capability, a menu of functions for each program, and instruction and reference guides.

A version of this product is available for the VAX computer.

Price: \$3,000 – \$5,000
Contact: Thomas L. Mitchell, President
 (312) 381-2004
 ABS ASSOCIATES, INC.
 22 Witt Road
 Barrington, IL 60010

Accounts Payable

Operating System: RSTS

Keywords: • Accounts payable • Financial analysis
 • General ledger

The ADD Accounts Payable System provides a flexible vendor file that allows for variable discount/payment terms, multicompany internal distributions for general ledger reports, and a history of vendor activity detailing purchases and payments on an open-item basis. Vouchered checks are produced and discounts computed automatically. The system includes forecasts of future cash requirements, payables trial balance, aging of open invoices, bank reconciliation, disbursement reports, and general ledger distribution by account and automatically interfaces with ADD's General Ledger system.

A version of this product is available for the VAX computer.

Price: \$2,500 – \$5,000
Contact: Bruce A. Bott, President
 (201) 584-4026
 ADVANCED DIGITAL DATA, INC.
 354 Route 206
 Flanders, NJ 07836

Accounts Payable

Operating System: RSTS

Keywords: • Accounts payable • Query facilities

Complete accounts payable processing, including general ledger distribution reporting and interface, is provided. Data is entered in on-line conversational mode, with operator prompting. Accounts Payable provides complete audit trails, selective check writing, and an open payables list, showing all outstanding payables, check reconciliation, aged reporting of payables, cash requirements reporting, and multiple expense months for invoices.

A version of this product is available for the VAX computer.

Price: \$2,000 – \$9,800
Contact: Marketing Department
 (502) 491-9820 or 1-800-626-6268
 AMCOR COMPUTER CORP.
 1900 Plantside Drive
 Louisville, KY 40299

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Accounts Payable

Operating System: TSX-PLUS

Keywords: • Accounts payable

This accounts payable package provides complete vendor name and address, including month-to-date and year-to-date purchases controlling the number of vouchers. Vouchers are entered to payables system. A payment date is set up, and vouchers due are reported on a cash-requirements report. Items can be deferred with the remaining items to be paid. The system prints vendor checks with detailed stubs by voucher and invoice number.

Price: \$2,000

Contact: Sam Wingate, Vice President
(813) 935-8844 or 935-8951

AUTOMATION RESOURCES CORP.
2901 W. Busch Boulevard, Suite 309
Lincoln Gardens, FL 33612

Accounts Payable

Operating System: RSTS

Keywords: • Accounts payable • Audit • Cost accounting
• Project management

Accounts Payable (AP) is a flexible package that provides information on your payable liabilities and cash disbursements and gives you control of your dollars spent. AP lets you maintain open payables, choose which items to pay or not to pay, shows you where your disbursement dollars are needed first, prints checks, and easily handles entry of handwritten checks. The module also provides an audit trail through deferred reports. You can pull batch listings back to the terminal screen, send them to be printed, and save for later review, or do all three operations. Check reconciliation speeds up the process of verifying your bank statements.

Price: \$5,000 – \$20,000

Contact: Chuck Sargent, Software Sales Representative
(714) 970-1515

DATA PROCESSING DESIGN, INC.
1400 North Brasher
Anaheim, CA 92807

Accounts Payable

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts payable • Billing • Report writer
• Security

The Accounts Payable program features accurate aging, recurring invoices, holdback, check writing, discounts, quick pay, history files, G/L interface, full-function reports, security, statistical analysis, check reconciliation, and multicompartment capabilities.

A version of this product is available for the VAX computer.

Price: \$2,000 – \$10,000

Contact: Tom Muskiluke
(519) 893-4200

DIGITAL BUSINESS COMPUTERS
133 Manitou Drive
Kitchener, Ontario N2C 1L4
Canada

Accounts Payable

Operating System: ULTRIX, UNIX

Keywords: • Accounts payable • Banking • Billing
• Information management

This integrated accounts payable system goes from purchase order to packing slip to invoice to check. Manual or automatic check printing can be done. Partial payment of invoices and multiple bank accounts are allowed. The system includes a series of reports for accounts payable, including balance due; projected cash flow by due date or discount date; vendor reports, including or excluding packing slips; cash disbursement reports; and bank account reconciliation.

Accounts Payable is written in C language and uses the public domain Ingres data base written by the University of California at Berkeley. Binary and source codes are available for UNIX* Berkeley 4.1 and 4.2. The source code is available for all others.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$1,500 – \$10,000

Contact: Fred Potthoff
(612) 941-9470

FARGO ELECTRONIC SERVICES, INC.
7150 Shady Oak Road
Eden Prairie, MN 55344

Accounts Payable

Operating System: CTS-300

Keywords: • Accounts payable • Query facilities

This comprehensive free-standing module of programs provides for the control and payment of vendor invoices on an accrual basis. Liability and discounts are automatically monitored while providing vendor historical data. An optional interface is also provided for automatic posting to the companion General Ledger System.

16 Accounting

The system features single-source direct entry via CRTs, tutorial prompting for simplified operation, multiple GL distribution at the time of vouchering, automatic control of discount due dates, preediting of amounts to be automatically paid, automatic preparation of checks and vouchers, direct master file inquiry, and on-demand report printing.

At the time of vouchering, distribution may be made to up to nine GL accounts. The GL numbers are interactively verified, and the account description is displayed on the CRT. The full invoice amount distribution is also verified.

Invoice processing is accomplished by interactive CRT entry of a 4-digit vendor number (with automatic verification and display of vendor name), invoice number and date (one invoice to a voucher), invoice amount, discount amount (if applicable), due date, and then up to nine GL account distributions. The system verifies the total distribution balances to the invoice amount. For prepaids, the check number and date are also entered. A voucher number is automatically assigned to each invoice entered.

Payment of open items may be by either deferral or selection method. In the deferral method, all items prior to the specified due date, except those specifically deferred, are paid. Deferral may be for an entire vendor or for selected vouchers within a vendor. In the selection method, only those items specifically selected are paid. Partial payments may be made in either method.

Price: \$1,500 – \$2,000

Contact: Robert J. Steinis
(203) 378-6010

FOOD DISTRIBUTOR SYSTEMS, INC.
959 Main Street
Stratford, CT 06497

Accounts Payable

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts payable • Cost accounting

Accounts Payable is a multicompany/client payables system that interfaces with Franklen's CPA-11, General Ledger/Financial Reporting System. The system will function on either a cash or an accrual basis. Normal accounts payable capabilities, such as due-date control, cash requirements, check writing, and disbursement and distribution journals are provided. Because of the system's CPA-11 interface, Accounts Payable system incorporates the flexibility for job cost and cost center accounting.

A version of this product is available for the VAX computer.

Price: \$1,500 – \$3,000

Contact: Frank J. O’Kane, President
(213) 441-3123

FRANKLEN COMPUTER SYSTEMS, INC.
715 Fremont Avenue
South Pasadena, CA 91030

Accounts Payable

Operating System: ULTRIX, UNIX

Keywords: • Accounts payable

This fully integrated on-line multiuser UNIX*-based accounts payable system supports full and partial payments, debit and credit memos, adjustments, allowances and refunds, and manual and separate checks. A prepay edit list allows final review before checks are written. The system maintains all information to print 1099 forms for vendors and uses a flexible “open item” A/P design. Separate categories of A/P allowing analysis of total payables by type (G/L account number) are maintained. Voided or unused check numbers may be entered to assist in accounting for all checks on the check register.

Also available are a check-reconciliation system, a print key providing hard copy of any screen image via the system printer, true multiuser design for concurrent program use, timely information by automatic G/L update, built-in multicompany/multidivision support, and user-assigned predefined company/division or user-allowed option to specify company/division.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$3,000 – \$6,000

Contact: Laurel McDaniel
(312) 332-3242

NEAL NELSON & ASSOCIATES
185 N. Wabash, Suite 1908
Chicago, IL 60601

Accounts Payable

Operating System: RSTS

Keywords: • Accounts payable • Data dictionary

This system provides all the forms, programs, and procedures necessary to perform the accounts payable function. Menu orientation makes this system easy to learn and simple to use. With the system’s effective error reporting and interactive editing of input information, most errors can be identified and corrected at data entry. The system prevents most errors from ever reaching the main system.

18 Accounting

Reviewed annually by outside accountants, this system has a complete, easy-to-follow audit trail and is continually kept up to date. Comprehensive reporting includes payables agings, cash requirements forecasts, detail and summary check registers, payables trial balances, ledger payables expense distribution reports, and several reports showing paid and/or unpaid invoice information.

The system may be run stand-alone or may be interfaced with a companion general ledger system. The documentation includes detailed operating procedures, flow diagrams, file layouts, report samples, program operating instructions, and a dictionary of data and terms used in the system. Complete support and training are available.

A version of this product is available for the VAX computer.

Price: \$2,500 – \$7,500

Contact: Bob Sharp, General Manager
(512) 734-4366
PLYCOM SERVICES, INC.
P.O. Box 380465
San Antonio, TX 78280

Accounts Payable

Operating System: RSTS

Keywords: • Accounts payable • Office systems
• Report writer • Security

Accounts Payable is designed to operate as a voucher system to accumulate information on vendor invoices and other payable obligations. Voucher entries generate a unique voucher number assigned for audit and control purposes.

The system provides:

- Payment selection key due date and individual invoices on individual vendor
- Allowance for partial payments
- Handling of prepayments for checks already paid as well as prepay checks scheduled to be paid
- Unlimited general ledger expense and job costing distribution per voucher
- Inquiry into MTD or YTD purchases, payments, and current balance
- Creation of accounts payable and cash disbursement journal entries
- Access to any journal of any month for current fiscal or prior year

The reporting features are vendor listing; mailing labels; voucher distribution; voucher history; precheck pay register; final port check writing register; check printing; journal listing for accounts payable, cash disbursement, or job costing; age analysis; and an open-invoice report.

Accounts Payable allows multiple users and provides password security.

A version of this product is available for the VAX computer.

Price: \$2,500 – \$3,000

Contact: Linda Wingfield, Software Product Manager
(919) 766-0571

RESOURCE SYSTEMS CORP.

P.O. Box 1546

Clemmons, NC 27012

Accounts Payable

Operating System: MS/DOS, PICK, UNIX, XENIX

Keywords: • Accounts payable • Printing • Report writer

This program provides the following:

- Entry, edit, and posting of manually written checks.
- Data-input accuracy — transaction entries may be edited and corrected prior to posting.
- Transaction entry screens match the format of the original documents.
- Audit trails — posting programs automatically produces journals.
- Vendor analysis reports and vendor file maintenance facilities.
- Alphabetic and numeric vendor listings.
- Aging report by all or selected vendors or A/P account.
- Screen display that allows inquiry into open items by vendor.
- Payables voucher selection for payment.
- Checks printed by A/P account and cash account number.
- Cash requirements report printed by vendor or A/P account number.
- Built-in check reconciliation capabilities.
- Distribution to the Job Cost and General Ledger systems.
- Comprehensive transaction entry capabilities — vendor invoices, debit and credit memos, adjustments, and manual checks.

A version of this product is available for the VAX computer.

Price: \$600

Contact: Steve Thomas

(713) 270-5218 or (800) 231-0062

THE SOFTWARE EXPRESS, INC.

10103 Fondren, Suite 220

Houston, TX 77096

Accounts Payable (Canadian)

Operating System: RSTS, RSX

Keywords: • Accounts payable • Data dictionary
• Query facilities

The Accounts Payable System, designed to work in conjunction with the Computer Management System, is table driven, with all files processed by data dictionaries. The system can be adapted to cover a wide range of requirements and provides a base of programs and file

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designs that can be used to meet the needs of any Canadian organization. The system may be used as is. However, it is assumed that the input and/or the output reports will be modified to meet the needs or the standards of the user.

Accounts Payable maintains the supplier master in both numeric and alphabetic sequence for inquiries. Image records of all checks and invoices are kept on line and are cross-referenced, so that inquiries are allowed by check date or number and invoice date or number. The system allows invoices to be recalled for payment each month in situations that require this feature.

Accounts Payable will automatically purge data by date as required — annually or semiannually. The automatic transfer of accounting data to other systems — for example, G/L — must be added into the system to meet the custom requirements of each user.

A version of this product is available for the VAX computer.

Price: \$2,500

Contact: Bill Hay
(204) 888-5253 or 832-3680
BILL HAY & CO.
1164 Crestview Park Drive
Winnipeg, Manitoba R2Y 0W6
Canada

Accounts Payable System

Operating System: MicroPower/Pascal

Keywords: • Accounts payable • Banking • Report writer
• Security

The Accounts Payable System, which can be used in all types of industry, is accessed through the communication terminal where data is input and verified. No updates can take place until all data input is balanced and verified.

The system includes:

- Data input through a communication terminal located in the client's office
- Verification of all input data before acceptance
- Checks produced under the client's control through the communication terminal
- Partial payment of invoice
- Distribution of invoice by account and General Ledger System
- Summary of general ledger entries created by the Accounts Payable System and accepted by the General Ledger System
- Customized reports, including aged open invoices, summary by vendor, and check register, which can be interfaced directly to the bank's Automated Account Reconciliation System

A version of this product is available for the VAX computer.

Price: \$6,000 – \$12,000
Contact: Henry C. Gaylor
(412) 355-8523

PITTSBURGH NATIONAL BANK
Fifth Avenue and Wood Street
Pittsburgh, PA 15222

Accounts Payables

Operating System: RSTS
Keywords: • Accounts payable

This program offers a complete accounts payable system.

A version of this product is available for the VAX computer.

Price: \$3,500
Contact: Andrew Yasenchak
(201) 231-9400
UNITRONIX CORP.
197 Meister Avenue
Somerville, NJ 08876

Accounts Receivable

Operating System: RSTS
Keywords: • Accounts receivable • Query facilities

Accounts Receivable is an on-line interactive system with conversational operator prompting. The program provides complete audit trails; detail or summary trial balances for selective aging periods; statements for one, all, or selected ranges of customers; and on-line inquiry to customer and company information. Accounts Receivable can be used in a stand-alone environment or can interface automatically with the standard order processing system.

A version of this product is available for the VAX computer.

Price: \$2,000 – \$9,800
Contact: Marketing Department
(502) 491-9820 or 1-800-626-6268
AMCOR COMPUTER CORP.
1900 Plantside Drive
Louisville, KY 40299

Accounts Receivable

Operating System: TSX-PLUS
Keywords: • Accounts receivable • Credit • Sales analysis

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This complete accounts receivable system provides customer name, address, and phone number and keeps track of month-to-date and year-to-date sales and controls on credit limit. Invoices are entered together with cash and credit memoranda to cause printing upon demand of an aged trial balance and customer statements. Finance charges can be used on a selected basis.

Price: \$2,000

Contact: Sam Wingate, Vice President
(813) 935-8844 or 935-8951

AUTOMATION RESOURCES CORP.
2901 W. Busch Boulevard, Suite 309
Lincoln Gardens, FL 33612

Accounts Receivable

Operating System: RSTS

Keywords: • Accounts receivable • Billing • Cost accounting
• Query facilities

Accounts Receivable software processes receivables from invoice entry through cash receipts and features on-line inquiry of customer accounts. Invoices can be entered manually or billed automatically (through the Project Cost/Autobilling module) and can be posted directly to the accounts receivable ledger. Adjustments to invoices are handled quickly and efficiently. The module balances each payment received to ensure proper crediting against accounts. You may allow automatic and manual discounts at cash application time, plus automatic determination of due dates. Agings are produced in user-selected formats, including current, 30, 60, 90, 120, or more than 120 days, providing an overview of anticipated cash-flow positions. Customer statements are easily generated, either directly on preprinted forms or with Word-11, DPD's optional word processing software. Inquiry letters regarding your outstanding receivables are also generated, allowing the system to use your current customer information.

Price: \$5,000 – \$20,000

Contact: Chuck Sargent, Software Sales Representative
(714) 970-1515

DATA PROCESSING DESIGN, INC.
1400 North Brasher
Anaheim, CA 92807

Accounts Receivable

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts receivable • Billing • File management

The open-item Accounts Receivable (A/R) system is comprised of a series of interactive programs designed for the control of customer invoices and payments. The utilities menu allows a high-level operator to configure the A/R to your needs. The file sizes can be specified,

allowing an operator to increase or to decrease the size of those files. The system's speed and efficiency can be improved by a reorganization of those files. Terms codes, foreign currencies, G/L numbers, and audit trails serialization can be controlled via A/R utilities programs.

A version of this product is available for the VAX computer.

Price: \$2,000 – \$10,000

Contact: Tom Muskiluke
(519) 893-4200

DIGITAL BUSINESS COMPUTERS

133 Manitou Drive

Kitchener, Ontario N2C 1L4

Canada

Accounts Receivable

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts receivable • Cost accounting

Accounts Receivable is a multicompany receivable system that interfaces to Franklen's CPA-11, General Ledger/Financial Reporting System. The Accounts Receivable system provides for the normal accounts receivable functions and incorporates such features as optional customer accounts receivable history, finance charges, salesman's commissions, sales analysis by customer, and product code, as well as recurring charges. The system's CPA-11 interface allows the development of detailed revenue analysis by job or cost center.

A version of this product is available for the VAX computer.

Price: \$1,500 – \$3,000

Contact: Frank J. O'Kane, President
(213) 441-3123

FRANKLEN COMPUTER SYSTEMS, INC.

715 Fremont Avenue

South Pasadena, CA 91030

Accounts Receivable

Operating System: ULTRIX, UNIX

Keywords: • Accounts receivable

This fully integrated on-line multiuser UNIX*-based accounts receivable system uses a flexible "open item" design and prepares invoices, debit and credit memos, detail and summary aged trial balances, and daily and monthly journals and registers. The programs support full and partial payments and adjustments and refunds and allow cash and early payment discounts. Separate categories of A/R can be automatically maintained, allowing analysis of total receivables by G/L account number. Either detail or summary A/R ATB may be printed at any time for a single customer, range of customers, or all customers.

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Also available are automatic calculation of monthly finance charges, maintenance of standard charges for automatic billing events, a print key providing hard copy of any screen image via the system printer, true multiuser design for concurrent program use, timely information by automatic G/L update, built-in multicompany/multidivision support, and user-assigned predefined company/division or user-allowed option to specify company/division.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$3,000 – \$6,000

Contact: Laurel McDaniel
(312) 332-3242

NEAL NELSON & ASSOCIATES
185 N. Wabash, Suite 1908
Chicago, IL 60601

Accounts Receivable

Operating System: RSTS

Keywords: • Accounts receivable • Data dictionary

This system provides all the forms, programs, and procedures necessary to perform the accounts receivable function. Menu orientation makes this system easy to learn and simple to use. With the system's effective error reporting and interactive editing of input information, most errors never reach the main system.

Reviewed annually by outside accountants, this system has a complete, easy-to-follow audit trail and is continually kept up to date. Comprehensive reporting includes several receivables agings, cash receipts forecasts, receivables trial balances, sales and receipts journals, and ledger distribution reports.

The system may be run stand-alone or may be interfaced with a companion general ledger system. The documentation includes detailed operating procedures, flow diagrams, file layouts, report samples, program operating instructions, and a dictionary of data and terms used in the system. Complete support and training are available.

A version of this product is available for the VAX computer.

Price: \$2,500 – \$7,500

Contact: Bob Sharp, General Manager
(512) 734-4366

PLYCOM SERVICES, INC.
P.O. Box 380465
San Antonio, TX 78280

Accounts Receivable

Operating System: MS/DOS, PICK, UNIX, XENIX

Keywords: • Accounts receivable • Billing • Credit
• Report writer

The system provides the following:

- Comprehensive transactions entry capabilities — sales, cash receipts, credit memos, debit memos, adjustments, and finance charges.
- Accommodation of open-item and balance-forward accounts simultaneously.
- Production of detail or summary aged trial balances with automatic or operator-specified cut-off dates. Customer ranges may be specified.
- On-demand statements runs.
- Open credits held on accounts and applied as desired.
- Sales reports — monthly sales summary, monthly cash summary, and commissions due.
- On-line inquiry of customer's account.
- Data-input accuracy — transaction entries may be edited and corrected prior to posting.
- Transaction entry screens that match the format of original documents.
- Audit trails — posting programs automatically produce journals.
- Complete customer and salesperson file maintenance facilities, including addition, deletion, and modification capabilities.
- Alphabetic and numeric customer listing.
- Automatic calculation and posting of finance charges.
- Interface to invoicing system for automatic input of sales entry information.

A version of this product is available for the VAX computer.

Price: \$600

Contact: Steve Thomas
(713) 270-5218 or (800) 231-0062
THE SOFTWARE EXPRESS, INC.
10103 Fondren, Suite 220
Houston, TX 77096

Accounts Receivable System

Operating System: CTS-300, RSTS

Keywords: • Accounts receivable • General ledger
• Report writer

This full-operation accounts receivable system accommodates many different business environments. A series of highly flexible, on-line, interactive, and multiprocessing programs provide control of receipts entry, aged trial balance, statements, audit trail, and general ledger accounts receivable distribution.

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Key management reports available on demand through inquiry include manual invoice register, cash receipt journal, audit trail, checks report, aged trial balance, statements, aged cash forecasts, monthly general ledger distribution, customer over-credit limit, list, and purge accounts receivable. The software continually distributes data to general ledger accounts with an audit trail and is automatically updated. Invoices are automatically aged into future due, current due, and four aging periods. This accounts receivable package is compatible with BAKCO's accounting control and warehouse distribution systems.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Jerry Baker, President
(312) 956-1053
BAKCO DATA, INC.
85 W. Algonquin Road, Suite 190
Arlington Heights, IL 60005

Accounts Receivable System

Operating System: MicroPower/Pascal

Keywords: • Accounts receivable • Banking • Billing
• Report writer

The system provides data input through a communication terminal located in the client's office and verification of all input data before updating the Billing Master File.

This system can be used by all types of industry and features:

- Verification of all input data before updating the receivables master file
- Aged Trial Balance Report sorted by customer and open invoices and displays 30-, 60-, and 90-day delinquent accounts
- Open Item Status Report sorted by customer and open invoices for a specified time period and includes more detail than Aged Trial Balance

A version of this product is available for the VAX computer.

Price: \$6,000 - \$12,000

Contact: Henry C. Gaylor
(412) 355-8523
PITTSBURGH NATIONAL BANK
Fifth Avenue and Wood Street
Pittsburgh, PA 15222

Accounts Receivables

Operating System: RSTS

Keywords: • Accounts receivable

This program offers a complete accounts receivable system.

A version of this product is available for the VAX computer.

Price: \$3,500

Contact: Andrew Yasenchak
(201) 231-9400
UNITRONIX CORP.
197 Meister Avenue
Somerville, NJ 08876

ACCPAY-IMPRS Accounts Payable A/P System

Operating System: RSTS, RSX, RT-11

Keywords: • Accounts payable • General ledger
• Query facilities

This total accounts payable system with complete interface to the general ledger has the following features:

- Data verification and information checks on entry
- Update routines with audit trail
- Automatic payment of monthly vouchers
- Register or invoices on the system
- Checks produced on a due-date basis as well as on a vendor-number basis
- Complete audit trails
- Credit memos as well as vouchers handled
- Automatic entry of "repeat" data during entering routine
- Automatic file backup before updates for recovery

A version of this product is available for the VAX computer.

Price: \$3,500

Contact: Elvin E. Smith or Forrest E. Weddle
(913) 782-8544
RUF CORP.
1533 E. Spruce
Olathe, KS 66061

ACCREC-IMPRS Accounts Receivable A/R System

Operating System: RSTS, RSX, RT-11

Keywords: • Accounts receivable • Financial analysis
• Query facilities • Report writer

This total accounts receivable system with complete A/R management reporting uses an open-item concept and does the following:

- Records all billable and nonbillable entries and up to four types of cash entries
- Allows for standard/optional \$\$ rates, optional service charge calculations by client, personalized client A/R statement messages, easy interactive reporting of all files, balance-forward and open-item account handling, and instant access to client records
- Provides complete on-line inquiring/processing
- Performs extensive on-line editing and balancing

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A version of this product is available for the VAX computer.

Price: \$1,500

Contact: Elvin E. Smith or Forrest E. Weddle
(913) 782-8544

RUF CORP.

1533 E. Spruce
Olathe, KS 66061

A/D (Fixed Assets and Depreciation)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Cost accounting • Financial planning

Fixed Assets and Depreciation handles the basic accounting functions for asset acquisition, asset retirement, and the periodic calculation of depreciation. The new Accelerated Cost Recovery System (ACRS) for depreciation of fixed assets has been fully integrated into our Fixed Assets and Depreciation package and includes the new depreciation schedules, the new expensing regulations, and the new provisions for investment tax credit and recapture. In addition to handling the new ACRS depreciation methods, all other standard depreciation methods are implemented for assets put in service before 1981.

The user can simultaneously record and track two sets of depreciation figures: one for tax purposes and one for financial statement purposes. The user can obtain numerous reports on request, which provide a breakdown of assets from many points of view, with lesser or greater detail.

An "extra" of the package is the ability to print an amortization schedule for any loan, given the principal amount, interest rate, and term in years. The equal monthly or yearly payment is automatically calculated, and cumulative figures for interest paid and principal paid are shown, period by period, as well as the remaining principal in each period.

In addition, the program:

- Provides the user with the maximum tax benefits from depreciating assets
- Allows maintenance to the asset and general ledger code files
- Handles up to 13 accounting periods a year
- Allows entry and editing of asset acquisitions, changes, and retirements
- Allows depreciation by nine methods and flexible handling of bonus depreciation and expensed amounts
- Allows tracking and maintenance of investment tax credit and provides for automatic recapture on retirement
- Projects depreciation amounts and the life of any asset, for all depreciation methods
- May be automatically interfaced to MCBA's general ledger package

- Provides the capability to separate assets from a previously grouped asset
- Includes the asset file printout; asset acquisition, fixed asset, and asset retirements registers; first-year expensed amounts, general ledger depreciation, investment tax credit, depreciation method change, asset change history, and A/D distribution to G/L reports; asset depreciation expense journal; projected depreciation summary; and amortization schedules

A version of this product is available for the VAX computer.

Price: \$2,000 – \$3,000

Contact: Sales Representative
(818) 957-2900

MCBA, INC.
2441 Honolulu Avenue
Montrose, CA 91020

Administrator 4/11

Operating System: RSTS, RSX, UNIX

Keywords: • Accounts payable • Accounts receivable
• General ledger • Payroll

Administrator 4/11 is an integrated accounting and stock control system, suitable for any business. The system, also available in modular form, includes accounts receivable, accounts payable, general ledger, and payroll packages.

A version of this product is available for the VAX computer.

Price: \$800 – \$14,000

Contact: H. B. H. Reporter, Managing Director
021 352 0011

FOURTH DIMENSION PRODUCTS LTD.
Ryknild House, Burnett Road
Sutton C'Field, West Midlands B74 3EL
United Kingdom

AIM/AP (Accounting Information Manager for Accounts Payable)

Operating System: BOS

Keywords: • Accounts payable • Documentation

AIM/AP offers complete processing and reporting for accounts payable records. Flexible and easy to use, AIM/AP is patterned after manual accounts payable systems. This multiuser system prohibits payment in excess of approved amounts. Vendor status can be changed from active to inactive. The system can handle holds and partial payments. AIM/AP can interface with the AIM/General Ledger system. Cash requirements reports and payment approval lists are generated. The system prints checks and a check register. Complete user documentation is provided for inexperienced computer operators.

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Distribution is on 5¼" or 8" diskettes; minimum memory is 64K. Access to all AIM programs is password protected.

Price: \$1,000

Contact: Maria Rich
(315) 337-1000
MULTICEPT CORP.
1721 Black River Boulevard
Rome, NY 13440

AIM/AR (Accounting Information Manager for Accounts Receivable)

Operating System: BOS

Keywords: • Accounts receivable • Billing • Documentation

The multiuser AIM/AR system offers the capability to process, control, and manage an accounts receivable auxiliary ledger with its associated sales, receipts, adjustments, and reports. AIM/AR can easily interface at the front end with an invoicing system. AIM/AR can support either balance-forward or open-item accounting. Customer information can be accessed by customer number or by customer name. Customer status can flow between active and inactive. A statement text file allows messages to be printed on customer statements. Complete user documentation is provided.

Price: \$1,000

Contact: Maria Rich
(315) 337-1000
MULTICEPT CORP.
1721 Black River Boulevard
Rome, NY 13440

AIM/FOD (Accounting Information Manager for Fuel Oil Delivery)

Operating System: BOS

Keywords: • Accounts receivable • Documentation
• Petroleum • Wholesale

Designed for use by small fuel oil delivery companies, the flexible, easy-to-use AIM/FOD system includes all accounts receivable operations, with open-item and/or balance-forward accounting and contains delivery tickets operations suitable for ticketing by degree day or by calendar day. This multiuser system can interface with an inventory system. Complete user documentation is provided.

Price: \$2,400

Contact: Maria Rich
(315) 337-1000
MULTICEPT CORP.
1721 Black River Boulevard
Rome, NY 13440

AIM/GL (Accounting Information Manager for General Ledger)

Operating System: BOS

Keywords: • Documentation • Financial analysis
• General ledger • Report writer

This comprehensive and highly flexible general ledger and financial reporting package is designed for use by small businesses. The account structure allows for multiple departments and multiple companies. Reports, which can be generated on demand, include financial statements, P/L statements, balance sheets, GL summary reports, budget reports, and ratio comparisons. Up to 99 journals can be used, including a special "locked" journal for prior-period adjustments. All operations are fully supported to the highest standards in auditability. AIM/GL is a multiuser system and can interface with AIM/Payroll. Complete user documentation is provided.

Price: \$1,000

Contact: Maria Rich
(315) 337-1000
MULTICEPT CORP.
1721 Black River Boulevard
Rome, NY 13440

AIM/PR (Accounting Information Manager for Payroll with Cost Accounting)

Operating System: BOS

Keywords: • Cost accounting • Documentation • Payroll
• Taxes

AIM/PR offers standard payroll processes, labor cost accounting, payroll-related fringe benefit accruals, and manual checks. AIM/PR processes weekly, biweekly, monthly, and special payrolls. User-defined accruals and deductions allow customization. Both hourly and salaried employees with individual hour premiums are acceptable. Multiple-state income taxes, local income tax, individual earnings, personnel records, 12 deduction categories, 6 work-hour types, 99 departments, 30 labor charge codes, and 6 accrual accounts are featured. The AIM/Payroll system is a multiuser system and can interface with the AIM/General Ledger system. Complete user documentation is provided.

Price: \$1,500

Contact: Maria Rich
(315) 337-1000
MULTICEPT CORP.
1721 Black River Boulevard
Rome, NY 13440

AIS Purchase Order Processing System

Operating System: RSTS

Keywords: • Inventory • Materials handling • Order entry
• Purchasing

The AIS Purchase Order Processing System provides:

- Automatic PO creation from requisition
- On-line receiver and invoice creation and matching from PO
- On-line printing of PO and update of accounts payable
- Four-way on-line match
- Requisition, blanket PO, and inspection
- Optional inventory module
- Multiple company/multiple warehouse
- Expense allocations by PO line item
- Encumbrance accounting
- Established vendors, one-time vendors, and vendor analysis
- Change history up to 99 times per PO; reconstruct PO

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Marketing Department
(415) 444-5954

ARGONAUT INFORMATION SYSTEMS
383 Grand Avenue
Oakland, CA 94583

AMFACS

Operating System: RSTS

Keywords: • Financial analysis • General ledger • Security

This interactive financial management system features user-defined accounting periods, journals, financial reports, and an on-line maintenance capability. Security is ensured with password protection for all key modules. Reporting capabilities include balance sheet, trial balance, general ledger, income statement, footnotes to financial statements, and a statement of retained earnings.

A version of this product is available for the VAX computer.

Price: \$3,000 – \$12,500

Contact: Marketing Department
(502) 491-9820 or (800) 626-6268

AMCOR COMPUTER CORP.
1900 Plantside Drive
Louisville, KY 40299

AP-11 (Accounts Payable)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Accounts payable • Billing • Financial analysis
• Personal computing

The AP-11 system provides the user with a highly flexible method of posting A/P charges and making cash disbursements. All posting of invoices is done with an interactive screen form, designed for posting ease. Recurring charges can be stored for group posting each month. Any number of miscellaneous vendors may be used during posting. Multiple A/P control accounts can be used during each session, allowing multicompany usage. G/L account distribution is accomplished via a scrolling region, allowing up to 999 distributions for each invoice. Invoice payments can be made either specifically for each vendor or in group payment mode for ranges of vendors. During the payment specifications, invoices may be held indefinitely, partially paid, discounted (in addition to the original discount terms), or paid in a balance-forward method. Unapplied payments may also be made to vendor accounts, allowing prepayments, CODs, and so on. Check printing is table-driven, allowing users to design their own check forms. Allowances are made for manual check entry. All reporting is available for an unlimited date range, on demand by the user. Aging reports are available that detail the invoices that are current, past due, or not yet due. Cash requirement reporting is also available as a management tool, allowing specification of any four dates for use as due dates.

The AP-11 system interfaces to the GL-11 system for automatic posting of A/P information to the G/L. AP-11 also interfaces to the job cost accounts system (CN-11) for automatic distribution of accounts payable invoices into specified projects and cost centers.

A version of this product is available for the VAX computer.

Price: \$3,000 – \$4,000

Contact: Larry Landusky, Marketing
(806) 792-3785

COMPU-SHARE, INC.
3824 50th Street
Lubbock, TX 79413

A/P (Accounts Payable)

Operating System: RSTS

Keywords: • Accounts payable

This accounts payable system is available for balance-forward and open-item combinations. Aged amounts are maintained for the outstanding balances due to each supplier as well as an optional ability to maintain holdbacks, if applicable. A significant feature of the system is the check-writing function, which can be based on an invoice due date or the age of the outstanding transactions. Transactions are entered and validated on line. An on-line inquiry program yields a display of the current status of any supplier. Reports include a payables journal (listing all detail), a supplier name and address list, labels, optional

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check generator and remittance advice, an aged trial balance, and a document register. Integration to other applicable Data Key applications is a standard feature.

Price: \$2,000

Contact: Barry Logan, Vice President
(604) 276-2622
DATA KEY LTD.
1A 12880 Bathgate Way
Richmond, B.C. V6V 1Z4
Canada

A/P (Accounts Payable)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts payable • Report writer

This accrual accounts payable package includes the following capabilities:

- Allows maintenance of the vendor file and prints the vendor file printout and alphabetical vendor list
- Allows entry and editing of new payables, adjustments, credits, and prepaids and prints the accounts payable voucher register
- Prints the accounts payable aging, the vendor analysis and the vendor account inquiry, and the cash requirements reports
- Allows flexible payment preparation, including partial payments, and prints the pre-check-writing report
- Prints accounts payable checks and the accounts payable check register
- Prints the accounts payable/general ledger distribution report and accounts payable/general ledger cross-reference by vendor
- Allows check reconciliation and prints the check reconciliation report
- Prints federal 1099 forms for designated vendors
- Can be automatically interfaced to MCBA's general ledger package, as well as to MCBA's job costing, standard product costing, and purchase order/receiving packages
- Allows full printer spooling capability
- Supports seven terminal types and multiple companies
- Provides a security system

A version of this product is available for the VAX computer.

Price: \$2,000 – \$3,000

Contact: Sales Representative
(818) 957-2900
MCBA, INC.
2441 Honolulu Avenue
Montrose, CA 91020

AP/CM (Accounts Payable/Cash Management System)

Operating System: CTS-300, RSTS

Keywords: • Accounts payable • Financial management
• General ledger • Report writer

AP/CM is generalized for many different business environments. A series of highly flexible on-line interactive multiprocessing programs provide easy control of vendor master file maintenance, batch entry of vendor invoices, cash requirements projection, check printing, and general ledger accounts payable distribution. Reports may be printed on a detailed, summary, or exception basis. With on-line editing and immediate validation of data, AP/CM handles any payment terms. When vendor invoices are entered, payment terms are displayed, and the discount is automatically calculated. Invoice due date is automatically assigned to the invoice, based on payment terms, but may easily be changed. This program is compatible with BAKCO's Financial Control and Warehouse Distribution systems.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Jerry Baker, President
(312) 956-1053

BAKCO DATA, INC.
85 W. Algonquin Road, Suite 190
Arlington Heights, IL 60005

APF (Accounts Payable Facility)

Operating System: RSTS

Keywords: • Accounts payable • Data base management
• Data entry • Diagnostics

The Accounts Payable Facility software package controls the normal accounts payable procedures. APF includes:

- Data entry for vendor file and for payable transactions, including credits
- Journalization of all posting and disbursing activity
- Vendor account and outstanding-item analysis
- Cash requirement report
- Selectable cash disbursement (check writing)
- Multiple check formats
- Check-voiding procedures
- Check register journal
- Data base inquiry and maintenance
- Error checking and correction

If the Accounts Payable Facility is used with the General Ledger Facility, automatic posting of payable transactions to the general ledger is also available.

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The Accounts Payable package is designed for high efficiency and ease of use to meet the total interactive computing needs of the small business, corporate division, or institution. APF ensures the integrity of accounting procedures and security of data. All programs have individual password protection, which limits their use to authorized personnel.

A version of this product is available for the VAX computer.

Price: \$4,300

Contact: Muriel King
(801) 224-5306

CLYDE DIGITAL SYSTEMS, INC.
3707 N. Canyon Road, Suite 3-E
Provo, UT 84604

APRA

Operating System: RSTS

Keywords: • Accounts payable • Accounts receivable • Audit
• General ledger

APRA is an integrated accounting system comprising sales ledger, purchase ledger, and nominal ledger for commercial organizations with an annual turnover in excess of £5 million. The system interfaces directly with the OPRA order processing and stock control system. APRA features comprehensive audit trail comprising daybooks and controls; open-item or balance-forward reporting; VAT schedules; debtors/creditors analyses; production of statements and remittance advices with checks, cash commitment schedule, accruals, prepayments, and standing orders; budget comparisons; flexible trial balance presentation; and trading, profit and loss, and balance sheet sections.

A version of this product is available for the VAX computer.

Price: £5,500 – £9,000

Contact: J. Goldsmith
0252 544321

SOFTWARE SCIENCES LTD.
Abbey House, 282/292 Farnborough Road
Farnborough, Hampshire GU14 7NB
England

APS (Accounts Payable System)

Operating System: RSTS

Keywords: • Accounts payable • Data entry • Report writer

The White Hat Accounts Payable System is a comprehensive interactive system. All current vendor, as well as voucher and check payment information, is available through direct, on-line queries. Upon vouchering, invoices can be charged with multiple expense distributions. APS accommodates a 24-character alphanumeric distribution code and automatically consolidates and reports the distribution by code and vendor.

The flexibility of the system is demonstrated in the functions it performs. Cash disbursement prelists of scheduled vendor payments are generated to allow management to review and improve payment, hold payment, or extend payment dates. Checks are automatically generated and are designed for immediate mailing in window envelopes. Voucher stubs are attached as supporting detail to indicate which invoices are being paid. Payment runs can be made on a monthly, semi-monthly, weekly, or as-needed basis. In addition, APS supports the use of manual (prepaid) checks with the subsequent terminal entry of all pertinent information. Screen-formatted entry programs foster user acceptance and transaction reliability. The system is fully integrated via an automatic interface to the White Hat General Ledger System, ensuring prompt and accurate accounting period closes. A comprehensive set of reports is produced: Voucher Register, Vendor Master List, Cash Requirement Reports, Check Registers, Transaction Proof Listings, Check Reconciliation Report, Outstanding Check Journals, Paid Voucher Lists, Detailed Expense Distributions, and a 1099 Vendor Summary.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: John M. Montgomery
(617) 933-3780

WHITE HAT SYSTEMS, INC.
331 Montvale Avenue
Woburn, MA 01801

AR-11 (Accounts Receivable)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Accounts receivable • Personal computing
• Sales and marketing • Taxes

The AR-11 system provides the user with an interactive method of posting customer charges and payments, obtaining historical reports and aging information, and creating customer statements. Each customer may have 99 shipping addresses, and any number of customers may be billed to another customer, allowing branch, franchise, or family billing. All posting of charges and receipts is done on an interactive form. Cash receipts may be applied in a balance-forward manner or on an open-item basis selectively for each invoice paid. Unapplied credits may be posted to customer accounts until the correct invoice can be

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matched and paid. Customer statements can also be in either balance-forward or open-item form. Virtually any statement format can be designed by the user with parameter files. Two methods of posting recurring customer charges are available. All reporting for management on customer account analysis is also available for any date range, with aging dates defined by the user. Sales analysis is available for the system as a whole or on a department basis. Commission reporting and calculation can be defined for the system as a whole or for each salesperson. Multiple salespersons can be combined to form a sales entity that shares in the total commission paid. The commission can be determined on either the sales or the receipts. Tax reporting for sales tax is also provided by the system. Multiple taxing entities can be accommodated.

The AR-11 system interfaces to GL-11 for direct posting of A/R entries to the G/L. The OE-11 system also interfaces to AR-11, providing automated posting of customer orders to their accounts receivable account.

A version of this product is available for the VAX computer.

Price: \$3,000 – \$4,000

Contact: Larry Landusky, Marketing
(806) 792-3785

COMPU-SHARE, INC.

3824 50th Street

Lubbock, TX 79413

A/R (Accounts Receivable)

Operating System: RSTS

Keywords: • Accounts receivable • Data base management

This accounts receivable system is available for balance-forward and open-item combinations. Aged amounts are maintained, and the ability to levy service charges dependent on those amounts with variable interest rates is provided. Optionally, payment terms and customer holdbacks can be handled. Transactions entered result in immediate update applied against the customer record and are edited and validated on line. An on-line inquiry program displays the current status of any customer. Statements can be produced with a variety of optional formats. Other reporting facilities include a receivables journal (listing all detail), an aged trial balance, a customer name and address list, mailing and filing labels, an outstanding-transaction list (open item only), and a document audit register.

Price: \$2,000

Contact: Barry Logan, Vice President
(604) 276-2622

DATA KEY LTD.
1A 12880 Bathgate Way
Richmond, B.C. V6V 1Z4
Canada

A/R (Accounts Receivable)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts receivable • Report writer

This open and/or balance-forward accounts receivable package includes the following capabilities:

- Allows maintenance of the salesperson, customer master, and A/R valid G/L account files and prints the customer master file printout and the alphabetical customer list
- Allows entry and editing of sales, credit and debit memos, and cash receipts and prints the sales and cash receipts journals
- Allows inquiry into customer accounts through the CRT
- Prints the accounts receivable aging, the A/R-to-G/L distribution, and the commissions-due reports
- Allows automatic or manual calculation of finance charges and prints the finance charges report
- Prints the sales analysis by customer, customer type, salesperson, territory, and sectional center, as well as statements
- Can be interfaced into MCBA's general ledger and customer order processing packages
- Provides a security system and supports multiple companies

A version of this product is available for the VAX computer.

Price: \$2,000 – \$3,000

Contact: Sales Representative
(818) 957-2900

MCBA, INC.
2441 Honolulu Avenue
Montrose, CA 91020

ARF (Accounts Receivable Facility)

Operating System: RSTS

Keywords: • Accounts receivable • Data base management
• Diagnostics

The Accounts Receivable Facility is a software package that controls the normal accounts receivable procedures. ARF includes:

- Data entry for customer file, receivable transactions (including credits), and cash receipts
- Journalization of all posting and receipts activity
- Customer account analysis

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- Aged trial balance report
- Customer invoices
- Month-end customer statements
- Customer transaction history reports
- Data base inquiry and maintenance
- Error checking and correction

A version of this product is available for the VAX computer.

Price: \$4,300

Contact: Muriel King
(801) 224-5306

CLYDE DIGITAL SYSTEMS, INC.
3707 N. Canyon Road, Suite 3-E
Provo, UT 84604

ARS (Accounts Receivable System)

Operating System: RSTS

Keywords: • Accounts receivable • Order entry

ARS is a comprehensive interactive accounts receivable system capable of accounting for open-item and balance-forward methods of cash application. All current customer, credit, and invoice information is available through on-line queries from multiple terminals. Transactions are journalized for control purposes, providing a complete and comprehensive audit trail. Additionally, the system tracks and reports by general ledger distribution and organization code accounts all accounting data entering the system. The ARS user can apply and account for various types of postings, including cash, debit memos, and unapplied cash. Credit memo invoices may be entered and applied at a later date. Finance charge invoices for selected customers may also be generated. The ARS system contains an extensive credit management subsystem. Credit limits and risk codes may be assigned to each customer. The system is fully integrated via a posting process with the White Hat Order Processing and General Ledger systems, ensuring prompt and accurate accounting period closes. A comprehensive set of reports is available: Invoice Register, Posting Journals, Summary and Detailed Aged Trial Balances, Delinquent Register, Customer Master List, Sales Distribution Report, Input Proof Listing, Cash Application Journal, Cash Deposit Recap, and a Commission Register.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: John M. Montgomery
(617) 933-3780

WHITE HAT SYSTEMS, INC.
331 Montvale Avenue
Woburn, MA 01801

Automated Collection Management

Operating System: RSX

Keywords: • Banking • Credit

This software automates the collection of delinquent accounts. The system determines when an account is put into collection, schedules accounts for collector activity, automates dunning letters to customers, and removes accounts from collection when cured.

The system is parameterized for easy user modification. The system is intended for use by major retailers or banks.

Price: \$100,000 – \$200,000

Contact: Steven Karpen, Systems Director
(617) 568-1411

AFI/DATATROL

Brent Drive

Hudson, MA 01749

BAS (Budgetary Accounting System)

Operating System: RSTS

Keywords: • Accounts payable • Data dictionary
• General ledger • Report writer

This financial and administrative package is designed for colleges, universities, school boards, municipalities, and paragonovernmental agencies. BAS features integrated encumbrance and actual general ledger; multiple user-defined chart-of-account structures, all of which support element dictionaries; a financial report writer with user-defined format, account selection and sequence, totaling hierarchy, selection of financial data elements, journal entry detail, and arithmetic calculations and capability of combining current year and up to nine prior years of history; user-defined subledger control (capital, work orders, special projects, vehicle cost, and so forth); accounts payable and check processing/reconciliation; vendor control and information; and purchase order (commitment) control.

A version of this product is available for the VAX computer.

Price: \$30,000 (Canadian)

Contact: Dennis Sakamoto
(416) 433-2100

S.R.B. INTERNATIONAL LTD.

Whitby Corporate Centre

209 Dundas Street E., Suite 205

Whitby, Ontario L1N 7H8

Canada

Budgetary Accounting

Operating System: CTS-300, RSTS, RT-11

Keywords: • Financial analysis • Menu handlers
• Query facilities • Real time

The on-line real-time Budgetary Accounting system computerizes all fund accounting, including appropriations, revenues, disbursements, budgeting, and vendors. The system also provides complete accountability and reporting as required. Current financial information is available through inquiry or selected report request.

The menu-driven system prevents expenditures of unavailable funds and provides ease of operation, real-time account history inquiry, and editing and verification of all transactions. On-line real-time add, change, delete, and print-out functions are available for appropriation, revenue, fund, vendor, budget, encumbrance, and disbursement maintenance. All entries may be edited before posting.

Availability of money will be verified upon each encumbrance transaction.

Daily disbursement transactions are for regular payment of purchase order, payment of contract, disbursement of previously issued warrant, unencumbered warrants, transfers, and court warrant.

Available reports include appropriation ledger, receipt ledger, fund ledger, outstanding-encumbrance list, outstanding-warrants list, budget report, receipt report, and monthly financial statements.

Price: \$10,000 – \$15,000

Contact: James W. Sanderbeck, Vice President
(216) 489-1885
PM COMPUTER SERVICES CO.
630 and 30th Street, N.W.
Canton, OH 44709

C-CALC

Operating System: IAS, RSTS, RSX, ULTRIX, UNIX

Keywords: • Report writer • Scheduling • Simulation
• Spreadsheets

C-CALC is a menu-driven multidimensional forecasting, planning, data analysis, and modeling package with an interactive help facility and an on-line training procedure. Menus and single-level English-like editor commands allow even the inexperienced user to jump right in. For the advanced C-CALC user, a variety of optional shortcuts are included, allowing the user to bypass menus and prompts if desired.

C-CALC's sophisticated data importing/exporting facility and worksheet consolidation capabilities make it ideal for use in computer networks and workstations. Entire worksheets or raw data can easily be transferred between different computer systems. In addition, worksheet data is transportable between C-CALC and most other applications programs: graphics, word processing systems, general ledger, and so forth.

In addition to the standard spreadsheet features, C-CALC offers a 736-by-600-matrix worksheet area, boardroom-quality report generation (bolding, underlining, and so on) via stored print menus, alpha and numeric sorting, accessibility of data on other worksheets, consolidation of like or unlike worksheets or portions of worksheets, label and title identification, user-defined procedures for automating repetitive operations, conditional formatting, if-then-else capabilities, and a wide range of built-in mathematical, statistical, financial, and logical functions.

C-CALC's expanded user-defined procedures allow for broader applications, allowing C-CALC to become a programming language in itself. Training, data entry routines, and program interfaces can easily be tailored to a multiuse environment around the needs of individual users.

A version of this product is available for the VAX computer.

Price: Available on request

Contact: Ron Enos
(206) 822-2252
DSD CORP.
10420 N.E. 37th Circle, Suite A
Kirkland, WA 98033

Chronicle

Operating System: UNITY, UNIX

Keywords: • Accounts payable • Billing • Distribution
• Financial management

This family of advanced business applications software takes full advantage of advanced computer architecture and is particularly suited to the new generation of 16- and 32-bit microprocessor systems.

Chronicle may be run on almost any machine using the UNIX* system and is portable to any of the major relational data bases. Because it is built on a relational data base model, Chronicle incorporates the full power of modern data base technology, extracting the information you want, in the form you need it, when you want it.

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The first phase of Chronicle is an accounting system incorporating accounts payable, accounts receivable, and general ledger. The second phase encompasses the requirements of the distribution industry and includes inventory, invoicing, purchase order processing, sales analysis, and sales order processing.

Chronicle's modular design permits customization at various levels to support national and local requirements. That modularity also supports ease of interfacing with other modules and packages. In a subsequent phase, other products will include interfaces to spreadsheet, graphics, and scheduling modules.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Sales Department
(416) 922-1937

HUMAN COMPUTING RESOURCES CORP.
10 St. Mary Street
Toronto, Ontario M4Y 1P9
Canada

CLASS — Education Billing and Receivables System

Operating System: RSTS

Keywords: • Accounts receivable • Billing • Education

This student billing and receivables system generates billing and statements. Tuition and fee expenses are calculated automatically, based on specifications defined by the institution. Student billing can be handled by individual bills generated at registration and by group generation of monthly statements.

A version of this product is available for the VAX computer.

Price: \$3,500 – \$7,000

Contact: Elvin E. Smith or Forrest E. Weddle
(913) 782-8544

RUF CORP.
1533 E. Spruce
Olathe, KS 66061

Client Accounting

Operating System: COS-310, CP/M, CTS-300, RSTS, RSX, UNIX

Keywords: • Financial analysis • General ledger • Payroll
• Taxes

The Client Accounting system is user-oriented and CPA-supported. The system provides multiclient processing of general ledger and financial statements for an unlimited variety of client businesses. The key element is the highly flexible report writer for designing financial

statements. Also integral is very sophisticated handling of consolidations for multientity clients (departments, regions, divisions, and so on).

The system contains a 12-digit general ledger account number, recurring journal entries, reversing journal, prior-year comparison, year-to-date detail of general ledger transactions, post-facto payroll, and continual updates and enhancements.

A version of this product is available for the VAX computer.

Price: \$2,000 – \$12,500

Contact: Marc Alexander, National Sales Manager
(503) 641-8100

ALPINE DATASYSTEMS, INC.
8043 SW Cirrus Drive
Beaverton, OR 97005

Client Writeup

Operating System: TSX-PLUS

Keywords: • Scheduling

A client write-up application is typically used by CPA and PA firms to do the bookkeeping work for their clients. The program contains a large chart of accounts with subledgers and profit centers and also handles scheduling and source and application of funds. The system accommodates an after-the-fact payroll of up to 30 employees for a small business and prints 941 and W-2 reports from this after-the-fact payroll.

Price: \$3,000

Contact: Sam Wingate, Vice President
(813) 935-8844 or 935-8951

AUTOMATION RESOURCES CORP.
2901 W. Busch Boulevard, Suite 309
Lincoln Gardens, FL 33612

Community Action Agency/Fund Accounting System

Operating System: CTS-300, RT-11

Keywords: • Accounts payable • Data base management
• General ledger • Payroll

This package was developed for community action agencies but may be used by any organization requiring a fund accounting system. The package can handle up to 999 funds/programs.

The Payroll and Accounts Payable modules permit cost distribution by fund, fund unit (optional), and cost code. An employee's time or an invoice may be allocated among several funds. A single check is produced for each employee/vendor, and appropriate charges are made to each fund, including allocation of employer payroll taxes. Cost distribution data is retained for subsequent analysis/audit.

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The General Ledger module provides for individual fiscal years and a separate set of accounts for each fund. The ledger is automatically posted by other modules, and a posting summary of all transactions is retained for audit analysis.

A Client Tracking system is provided for community action agencies and maintains a data base defining all households and program participants being served. Some of the data provided for are assigned agency representative, geographic area, application date and status, last contact, household income and sources, and household language.

Price: \$5,000 – \$15,000

Contact: R. A. Evanson
(507) 452-8833

PARAGON DATA SYSTEMS
927 East King Street
Winona, MN 55987

CopyCalc

Operating System: RSTS

Keywords: • Data base management • Financial analysis
• Financial planning • Spreadsheets

CopyCalc is an electronic spreadsheet system featuring forward-looking calculations, immediate calculations, increment summations, sort, report writing, forms processing, direct data management file interfaces, and worksheet consolidation. Options include POISE DMS Interface and a simplified User Entry that prevents worksheet modifications other than data entry.

The CopyCalc user need not plan for row or column calculations. CopyCalc looks forward into the worksheet to perform calculations as needed.

An "Immediate Calc" mode is also available for a user's selected range of cells. When indicating "Step in Summation," the user may specify an increment of every fourth cell.

CopyCalc will sort any section or all of a worksheet in ascending or descending order by primary and secondary keys.

The report-writing feature provides boardroom-quality reports directly from your worksheet. Multiple copies can be produced with headings centered over the worksheet reports. The forms-processing feature allows information in a worksheet to be printed into prewritten letters with critical calculations done from within CopyCalc.

CopyCalc has several direct data management file interfaces. They allow information that you have captured on your system to be moved into CopyCalc's worksheet system. CopyCalc can consolidate the information of many worksheets into a summary worksheet via command files that are built and edited from inside CopyCalc.

CopyCalc's help system allows you to get help during a worksheet session. That help system provides a graphic layout of the numeric keypad and details the use of the special functions keys.

CopyCalc is extensively documented, with a complete lesson guide and a reference manual.

CopyCalc has been used by business vice presidents, CPAs, engineers, college presidents, statisticians, and students. CopyCalc has allowed them to do forecasting, construction bidding, analysis, statistical reporting, and so forth.

CopyCalc is a licensed product. Each license fee for CopyCalc includes magtape distribution (800 or 1,600), one reference manual, and a 30-day warranty. Warranty support includes telephone support during ADSS normal business hours. Included in the standard CopyCalc software package is an ASCII file interface. Additional file interfaces may be purchased separately.

CopyCalc's demonstrations tape may be purchased for \$100. It provides a 30-day trial use on your system. For distribution on media other than magnetic tape, please call for price and availability. The demonstration price can be applied toward the purchase price if a purchase order is received within 60 days of the demonstration order.

CopyCalc runs on DIGITAL computers under RSTS/E and with VT100-compatible terminals.

Price: \$1,500 – \$3,000

Contact: Lynda Swift, Sales
(805) 327-2118

ADVANCED DATA SYSTEMS AND SERVICES
217 Mt. Vernon Avenue, Suite 9
Bakersfield, CA 93307

Cornerstone Accounting System

Operating System: TSX-PLUS

Keywords: • Accounts payable • Accounts receivable
• Data dictionary • Documentation

This integrated system written in structured COBOL has operator-specific menus to control access to applications that include general ledger, accounts receivable, accounts payable, payroll, order entry/inventory, asset depreciation, project control, joint interest, revenue distribution, and lease management. Operational characteristics of applications are user maintained by control file. A data dictionary-based inquiry and reporting option is also available. Applications are multicompany and come with documentation and source code. Copy libraries are used to standardize code and allow for efficient and consistent modifications.

A version of this product is available for the VAX computer.

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Price: \$2,000 – \$40,000

Contact: Merrill Likes
(405) 843-8631

UP-TIME SYSTEMS, INC.
1140 N.W. 63rd, Suite G103
Oklahoma City, OK 73116

Cost Estimating

Operating System: ULTRIX, UNIX

Keywords: • Manufacturing • Query facilities

This fully integrated on-line multiuser UNIX*-based cost estimating system prompts the user for information and calculates estimated costs by operation. An estimate confirmation can be printed and held pending customer approval. On receipt of customer order, the order can be compared to the estimate, which can be revised as necessary. The detail from the estimate becomes the starting point of "estimate versus actual" comparison in the job costing system. The cost estimating system can be integrated with the job costing system. Various management reports can be produced using the information from the estimating system, such as analysis of open estimates by customer, salesperson, and product type; and comparison of "estimates versus orders" by customer, salesperson, and product type.

Also available are a print key providing hard copy of any screen image via the system printer, true multiuser design for concurrent program use, built-in multicompany/multidivision support, and a user-assigned predefined company/division or user-allowed option to specify company/division.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$2,500 – \$5,000

Contact: Laurel McDaniel
(312) 332-3242

NEAL NELSON & ASSOCIATES
185 N. Wabash, Suite 1908
Chicago, IL 60601

COSTRAC

Operating System: RSX

Keywords: • Accounts payable • Accounts receivable • Billing
• Cost accounting

The COSTRAC management information system is an integrated software package that performs payroll, accounts receivable and billing, accounts payable, general ledger, and, optionally, job cost accounting functions. COSTRAC also prints financial statements that can be tailored for your use with no reprogramming.

The principal modules are:

- Payroll calculates pay, deductions, fringe benefits, and payroll accrual. The module also performs labor distribution and makes journal entries automatically. Hourly, salary, commission, and special pays can be accommodated. Paychecks, stubs, and a check register are printed via Payroll.
- Accounts Receivable and Billing processes customer/client invoices and payments and prints aging/cash projections reports, cash receipts reports, and customer/client invoices and statements ready for mailing. Journal entries are made automatically for cash, revenue accounts, and accounts receivable.
- Accounts Payable processes vendor invoices and payments. The module prints invoice, expense, cash requirements, and aging reports and prints checks and stubs ready for mailing. Discounts can be computed automatically. A check register is maintained. Journal entries are made automatically for expenses, discounts, and disbursements.
- General Ledger consists of a master journal, accessed via a flexible reporting capability, containing all journal entries for the current accounting period; several subsidiary journals, including cash receipts, cash disbursements, and purchase journals; the ledger, which maintains account balances, current period activity and budget, and an annual budget for each general ledger account; and a generalized financial statement that includes a balance sheet, a profit and loss statement, and additional supporting data printed in a user-specified format that can easily be changed.

COSTRAC will fully integrate with the optional PROTRAC (Project Cost Tracking System).

A version of this product is available for the VAX computer.

Price: \$9,000 – \$11,000 +

Contact: Gene Thayer, P.E., Vice President
(800) 368-4203

TECHNICAL INFORMATION SYSTEMS, INC.
116 W. Plume Street
Norfolk, VA 23510

Country Club Accounts Receivable

Operating System: RSTS

Keywords: • Accounts receivable • Recreation

Designed expressly for country clubs, this package generates management reporting information and provides audit trails, aged trial balances, and cash flow analysis. Special club-orientated features include a dual address file, automatic membership billing functions, and immediate individual member status.

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Price: \$3,000 – \$4,000

Contact: Shelia A. McPartland, Customer Account Representative
(305) 652-1710

FLORIDA COMPUTER, INC.
99 N.W. 183rd Street, Suite 126
North Miami, FL 33169

Country Club Payroll System

Operating System: RSTS

Keywords: • Data entry • Payroll • Recreation

This standard payroll package handles the intricate gratuity and meal allowance aspects of many country clubs. The system provides detailed reports of employee payroll status, both current and year to date. Along with the usual check and base registers, tax and labor distribution information is also available.

Price: \$1,500 – \$2,500

Contact: Shelia A. McPartland, Customer Account Representative
(305) 652-1710

FLORIDA COMPUTER, INC.
99 NW 183rd Street, Suite 126
N. Miami, FL 33169

CPA-11

Operating System: CTS-300, RSTS, RT-11

Keywords: • Cost accounting • Financial analysis
• General ledger

This flexible multiple-entity client accounting general ledger and financial reporting system is designed for accountants' client write-up as well as for business and nonprofit associations requiring multiple financial reporting for subsidiaries, location, cost centers, funds, and the like. Users can design their own reports. The system provides for virtually unlimited levels of consolidation: accounts receivable, accounts payable, and payroll and property management interface.

A version of this product is available for the VAX computer.

Price: \$3,500 – \$5,000

Contact: Frank J. O'Kane, President
(213) 441-3123

FRANKLEN COMPUTER SYSTEMS, INC.
715 Fremont Avenue
South Pasadena, CA 91030

CPA Time and Charges

Operating System: CTS-300, RSTS, RSX, RT-11, TSX-PLUS

Keywords: • Accounts receivable • Billing • Scheduling

This program permits simple data entry, work in process by billing person, variable rates, client billing, aged accounts receivable, and partner management reports through a comprehensive total control system. The program includes features not found in other systems.

Price: \$3,000

Contact: Sam Wingate, Vice President
(813) 935-8844

AUTOMATION RESOURCES CORP.
2901 W. Busch Boulevard, Suite 309
Tampa, FL 33618

CSI Accounts Payable

Operating System: RSX, RT-11

Keywords: • Accounts payable • Purchasing

This program includes an alphabetical listing of up to 500 vendors, with total year-to-date purchases and balances due and handles up to 400 active vouchers. The program selects deferred payments and creates a cash requirements report for up to 1,000 payments, checks, and a check register. The package may be purchased on a stand-alone basis or as an integrated part of CSI's business system.

Price: \$1,500

Contact: Madelyn Scheer
(608) 258-8668

CREATIVE SOFTWARE INC.
P.O. Box 3493
Madison, WI 53704

CWU (Client Write Up)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts receivable • Billing • Payroll
• Scheduling

This multiclient system, used by accountants to do periodic write-ups for their clients, includes the following capabilities:

- Allows maintenance of the Client File and prints the Client Identification Print-Out.
- Allows the user to define up to 13 accounting periods in the client's year.
- Allows maintenance of the chart of accounts.
- Allows entry and editing of general journal transactions and prints the General Journal Transaction Register.
- Provides complete employee file maintenance.
- Allows check entry for regular or payroll checks.
- Provides separate Check Register and Payroll Register.
- Allows entry of sales and prints the Sales Register.
- Provides for cash receipts entry and prints the Cash Receipts Register.

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- Prints the General Ledger Trial Balance, the General Ledger Work Sheet, and the General Ledger Source Cross Reference.
- Prints financial statements in flexible user-defined formats.
- Prints the Quarterly Report and W-2 forms.
- Allows transaction detail to be kept for the entire year so that year-end reports can be printed.

Price: \$2,000 – \$2,500

Contact: Sales Representative
(818) 957-2900

MCBA, INC.
2441 Honolulu Avenue
Montrose, CA 91020

Data Entry Interface to Remote Hand-Held Computer

Operating System: RSTS

Keywords: • Data conversion • Data entry
• Telecommunications

This program accepts incoming data from a portable hand-held computer, such as an MIS/88, over a standard telephone data line and optionally converts the data into a file format. This minisystem can be easily custom tailored to individual sites requirements. The application works very well in such environments as remote inventory ordering and physical inventory data entry for comparison to book inventories.

Required hardware includes a DL11E-style interface and an MSI/88-style hand-held computer.

Price: \$1,500

Contact: Steven L. Buth
(509) 624-4248

SPOKANE COMPUTER SERVICES, INC.
West 915 Second Avenue
Spokane, WA 99204

DIBS-11/CTS-300, Version 1.1

Operating System: CTS-300, RSTS

Keywords: • General ledger • Inventory • Order entry
• Payroll

This multiuser general accounting software package, written in DIBOL to run under the RSTS/E and CTS-300 operating systems, is comprised of six modules: Order Entry/Invoicing, Inventory Management, General Ledger, Accounts Receivable, Accounts Payable, and Payroll. The modules can be used individually (except Order Entry, which requires DIBS-11 Accounts Receivable) or as an integrated system. Each module can be integrated with the rest of the system for both data flow and/or data input verification.

DIBS-11 is sold in source code to enable the user to tailor the product to vertical markets. A thorough understanding of accounting and programming in DIBOL is highly recommended for those who wish to modify the DIBS-11 software.

Price: \$4,025/module – \$17,200

Contact: Don Hedman, Product Manager
(603) 884-6144

DIGITAL EQUIPMENT CORP.
Continental Boulevard
Merrimack, NH 03054

DPS/31 General Ledger

Operating System: RT-11

Keywords: • Decision support • Financial analysis
• General ledger • Office systems

DPS/31 General Ledger provides highly flexible programs for handling the general accounting requirements of almost any business. This product includes a complete chart of accounts file-maintenance capability (add, change, delete, list). DPS/31 allows interactive entry and editing of general ledger transactions, prints a general ledger transaction register, and automatically posts new transactions to a main general ledger year-to-date transaction file. The system also prints a general ledger trial balance on request and financial statements (profit and loss, balance sheet, and supporting schedules) to a user-defined format. DPS/31 can receive input through an automatic interface from the DPS/33 Accounts Payable module, if desired.

Documentation includes a complete step-by-step installation and instruction manual with detailed program descriptions, sample program runs, and sample printouts.

This product is supported nationally (U.S.A.). The license fee includes the first year of software maintenance, updates, and support.

Running this product requires the DPS/99 Systems Interface software module (\$695).

Price: \$1,595

Contact: James L. Lawson, Senior Analyst
(305) 647-6739

NATIONAL REAL ESTATE EXCHANGE, INC.
NRE Systems Division, P.O. Box 475
Maitland, FL 32751

DPS/33 Accounts Payable

Operating System: RT-11

Keywords: • Accounts payable • Decision support
• Financial analysis • Office systems

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This accrual system with complete vendor file maintenance (add, change, delete, list) allows interactive entry and editing of new payables, including credits and prepaids. The system also prints an accounts payable voucher register and an accounts payable trial balance on request; a cash requirements report for any specified due date; and a report on checks written prior to paying. Payment of open items may be by deferral or selection. DPS/33 interfaces with DPS/31 General Ledger automatically, if desired.

Documentation includes a complete step-by-step installation and instruction manual with detailed program descriptions, sample program runs, and sample printouts.

This product is supported nationally (U.S.A.). The license fee includes the first year of software maintenance, updates, and support.

Running this product requires the DPS/99 Systems Interface software module (\$695).

Price: \$1,595

Contact: James L. Lawson, Senior Analyst
(305) 647-6739

NATIONAL REAL ESTATE EXCHANGE, INC.
NRE Systems Division, P.O. Box 475
Maitland, FL 32751

EASY (Energy Accounting Systems)

Operating System: RSX

Keywords: • Accounts payable • Accounts receivable
• General ledger • Payroll

EASY is an on-line interactive system controlled by a comprehensive menu system. You have your own personalized menu allowing access only to defined options. The systems are multicompany and come with full documentation and source code. Centralized or distributed processing is supported. A user-maintainable configuration file controls the characteristics of system operation. System applications include general ledger/financial, accounts receivable, accounts payable, payroll, joint interest, revenue distribution, lease management, authority for expenditure, run tickets, outside-operated lease, and economic evaluation. A data dictionary-based inquiry and reporting option is also available. EASY II provides the full functionality of the listed applications, while EASY III is a subset for implementation on low-end VAXs and PDP-11s.

A version of this product is available for the VAX computer.

Price: \$6,000 – \$48,000
Contact: Merrill Likes
 (405) 843–8631
 UP–TIME SYSTEMS, INC.
 1140 NW 63rd, Suite G103
 Oklahoma City, OK 73116

FA–11 (Fixed Assets)

Operating System: CTS–300, RSTS, RT–11

Keywords: • Financial analysis • Report writer • Taxes

FA–11 allows several methods of depreciation to be stored and reported for any number of assets.

Assets are identified with a code, which may consist of four definable pieces, a group number for grouping depreciation schedules, a class (for another grouping of assets, such as class of property), and a multiple-line description. Depreciation history is kept intact as long as you wish for each asset. Different schedules may be maintained for the same asset, such as tax, book, and physical.

Reports on depreciation history, insurance, projected depreciation, ITC, and retirement assets are generated. FA–11 interfaces to the GL–11 General Ledger for automated postings concerning asset depreciations.

A version of this product is available for the VAX computer.

Price: \$2,000 – \$3,000
Contact: Larry Landusky
 (806) 792–3785
 COMPU–SHARE, INC.
 3824 50th Street
 Lubbock, TX 79413

FACS — Accounts Payable

Operating System: RSTS

Keywords: • Accounts payable • Forecasting • Report writer

This on-line fully interactive accounts payable system is functioning in such industries as construction, agriculture, newspapers, food distribution, and financial services. The package features direct interface to the FACS G/L and to FACS Job Costing; direct interface with the subcontractors reporting system and the purchase order system; daily invoice input and selective payment control; distribution of invoices to multiple jobs, departments, and cost description codes; date of discounts and daily monitoring of future discounts to be taken; cash requirements forecasting; and immediate supplier status lookup.

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Reporting features include check and optional overflow remittance advice printing; an open-accounts payable report; reporting and payment of accounts payable by supplier, job, department, discount date, or any other desired option; monthly and annual accounts payable ledgers; and user-defined reports for history of purchases and payments to suppliers.

All reports can be printed to the screen, queued to a print spooler, printed directly to a line printer, or printed to a printer linked to a CRT.

Price: \$1,500

Contact: Steven L. Buth
(509) 624-4248

SPOKANE COMPUTER SERVICES, INC.
West 915 Second Avenue
Spokane, WA 99204

FACS — Accounts Receivable and Sales Analysis

Operating System: RSTS

Keywords: • Accounts receivable • Audit

This package includes both balance-forward and open-item accounts receivable customers. It operates in a stand-alone environment or in conjunction with the FACS General Ledger system.

Features of the FACS Accounts Receivable system include:

- Direct interface to FACS Inventory and Order Entry for complete A/R and sales analysis reporting
- Eight user-defined fields used in conjunction with sales analysis
- User-defined product codes and period sales analysis, such as month to month, this month this year compared to this month last year
- Automatic service charge calculation
- Screen display for customer inquiry
- Invoices, memos, adjustments, and payments that are entered into the system, using the same input screen
- Name and address files that include customer SIC code, Dun and Bradstreet number, banking relationship, service charge option, and so forth

Reporting features include user-defined reports for both the Product Master and Customer Master file as well as a user-defined report for all receivable transactions; customized invoices and statements, with custom messages printed for special statements; aged trial balance available for all customers, a range of customers, or by customer type; and user-defined sales analysis reports.

All reports can be printed to the screen, queued to a print spooler, printed directly to a line printer, or printed to a printer linked to a CRT.

Price: \$3,500

Contact: Steven L. Buth
(509) 624-4248

SPOKANE COMPUTER SERVICES, INC.
West 915 Second Avenue
Spokane, WA 99204

FACS — Fixed Asset Management

Operating System: RSTS

Keywords: • Fixed assets • Forecasting • Spreadsheets

As another flexible accounting module in the FACS family of accounting software, this system features direct interface to FACS G/L; four depreciation schedules per asset; ability to trace by serial number each asset's location by state and to track date in service, date acquired, date sold, and date retired; 10 depreciation methods, including user-defined calculations; automatic switch method computations; ability to track acquisition cost, salvage value, fair market value, appraised value, insurance value, and book value; ability to track first-year bonus or expense costs; full ITC calculations; and depreciation forecasting for single assets, groups of assets, or complete schedules.

Reporting features include a depreciation worksheet; user-defined fixed asset, depreciation, and general ledger reports; monthly and annual depreciation schedules; a spreadsheet expense report for all four depreciation schedules; a schedule for untracked assets; and an amortization schedule. All reports can be printed to the screen, queued to a print spooler, printed directly to a line printer, or printed to a printer linked to a CRT.

Price: \$2,500

Contact: Steven L. Buth
(509) 624-4248

SPOKANE COMPUTER SERVICES, INC.
West 915 Second Avenue
Spokane, WA 99204

FACS — General Ledger

Operating System: RSTS

Keywords: • General ledger • Report writer

This package offers flexible financial reporting to a wide variety of end users. Through a system set-up routine, users choose those features that fit their requirements. The system features direct interface with FACS Payroll, FACS A/P, FACS Job Costing, and FACS Fixed Assets; subsidiary balances for each G/L account; a balance-to-date system that allows subsidiary balances to be carried across fiscal years; branch accounting with consolidation; automatic verification for G/L account, subaccount, job number, department number, and cost description

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number; out-of-balance protection; automatic journal entries; batch input controls; and integration to financial modeling for "smart budgeting" and other forecasting requirements.

Reporting features include a generalized report writer that allows users to define and store report types sorted, selected, subtotaled, and totaled on any data field in the G/L; a worksheet with optional trial balance; a G/L transaction distribution and user-definable transaction summary; a user-definable balance-to-date report, as well as subsidiary ledger, budget, and trial balance reports; transaction journals; posting proofs; and general ledger and financial statements. All reports can be printed to the screen, queued to a print spooler, printed directly to a line printer, or printed to a printer linked to a CRT.

Price: \$1,500

Contact: Steven L. Buth
(509) 624-4248

SPOKANE COMPUTER SERVICES, INC.
West 915 Second Avenue
Spokane, WA 99204

FACS — Inventory and Order Entry

Operating System: RSTS

Keywords: • Inventory • Order entry

This package contains four subsystems: parts master processing and reporting, purchase order processing and reporting, sales order processing and reporting, and kit processing. The system features direct interface to the FACS A/R and concurrent operation with the FACS G/L; full branch location capabilities; inventory valuation using LIFO, FIFO, or average costing; alphanumeric part numbers; user-definable fields in parts master; G/L cost and sell cost per part; five selling prices per part; screen inquiry for stock status; intercompany transfers; and selective cost and/or price adjustments.

Reporting features include inventory valuation and sales order status reports; inventory transactions listing; purchase order status and cash forecasting reports; sales history report by customer; customized invoices, purchase orders, and picking/packing lists; committed inventory report; user-defined parts master listing; and user-defined on-hands inventory report. All reports can be printed to the screen, queued to a print spooler, printed directly to a line printer, or printed to a printer linked to a CRT.

Price: \$2,500

Contact: Steven L. Buth
(509) 624-4248

SPOKANE COMPUTER SERVICES, INC.
West 915 Second Avenue
Spokane, WA 99204

FACS — Job Costing

Operating System: RSTS

Keywords: • Cost accounting • Financial analysis

The FACS Job Costing package can be tailored to fulfill the requirements of the largest general building contractor business or the solely owned subcontractor company. The system features:

- Direct interface to the FACS G/L, FACS Payroll, and FACS A/P
- Immediate detail on the progress of each project
- Flexible input, reporting, and maintenance of estimates, budgets, and change orders
- Job accounting on either a completed contract or a percentage of completion method
- Variance analysis on budget, committed, and forecast for amounts, units, hours, and unit costs
- Interface to subcontractor's subsystem and the purchase order subsystem

Reporting features include full, flexible reporting on direct costs, labor, purchase orders, subcontractors, and overhead in summary or in detail; full labor cost analysis annually, monthly, or per payroll period for amounts, units, hours, and unit costs; project cost ledger for month or project-to-date detail; project comparison reporting for sales price, drawn to date, and cost to date; and user-defined job costing reports with the ability to include purchase orders.

All reports can be printed to the screen, queued to a print spooler, printed directly to a line printer, or printed to a printer linked to a CRT.

Price: \$2,000

Contact: Steven L. Buth
(509) 624-4248

SPOKANE COMPUTER SERVICES, INC.
West 915 Second Avenue
Spokane, WA 99204

FACS — Patronage Accounting

Operating System: RSTS

Keywords: • General ledger • Purchasing • Report writer

Designed to be used by either tax-exempt or nonexempt cooperatives, this package can be combined with FACS Inventory and the other FACS accounting modules to provide a complete financial management system. The system features direct interface with the FACS G/L; patronage allocations, including tax credit allocations, based on the quantity or dollar value of sales; allocation to departments on an individual department basis, allowing separate multiplier factors (percentage of basis to pay); user-defined minimum check calculation; purchase credits; federal tax withholding and reporting; and up to 26 stock classifications and up to 255 individual departments.

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Reporting features include sales reports and summaries by department, customer type, general ledger account, and so on; general ledger posting summaries; user-defined patron name/address report and a patron's ledger; user-defined prior-year retainage and stock reporting; allocation and dividend registers; and form 1099s.

All reports can be printed to the screen, queued to a print spooler, printed directly to a line printer, or printed to a printer linked to a CRT.

Price: \$3,500

Contact: Steven L. Buth
(509) 624-4248

SPOKANE COMPUTER SERVICES, INC.
West 915 Second Avenue
Spokane, WA 99204

FACS — Payroll

Operating System: RSTS

Keywords: • Payroll

This fully functional payroll reporting system is operating in a variety of diverse industries, including construction, labor-intensive agricultural environments, wholesale/retail distribution, and restaurants. The system features:

- Complete integration to the FACS G/L and FACS Job Costing
- Automatic entry of employer and employee accruals in G/L
- Paychecks for hourly, piecework, and salaried employees in the same payroll run
- Daily or periodic input of employees time cards
- Time card input distributed by multiple jobs, departments, and payroll cost descriptions
- Automatic earnings and deductions (FICA, federal, and state withholding, unemployment, workmen's compensation, industrial insurance, and so on)
- Multiple state income tax withholding capabilities
- User-defined earnings and additional deduction codes
- Union information
- Employee profile information

Reporting features include payroll entry proof reports, check calculation and printing, employer's tax deposit report and quarterly report for the employment security department, general ledger payroll distribution report, certified payrolls, union reports, and W-2 forms.

All reports can be printed to the screen, queued to a print spooler, printed directly to a line printer, or printed to a printer linked to a CRT.

Price: \$2,000

Contact: Steven L. Buth
(509) 624-4248

SPOKANE COMPUTER SERVICES, INC.
West 915 Second Avenue
Spokane, WA 99204

Fedder Accountants Data Processing

Operating System: ULTRIX, UNIX

Keywords: • Financial analysis • Financial management
• Financial planning • Taxes

This sophisticated General Ledger/Financial Reporting System is for CPA firms and private companies with an in-house comptroller. Features include multidepartment and multicompany processing with comparatives, consolidations, supporting schedules, and automatic computations. Also included are a statement of changes in financial position, source and application of funds, automatic allocations, recurring and self-reversing journal entries, true subaccounts, ratio computations, after-the-fact P/R records, and depreciation and amortization schedules. The system includes user options. The user determines report formats and contents.

The Fedder General Ledger/Financial Reporting System may be easily integrated with other Fedder software products, including Fixed Asset Accounting, Rental Property Management, Order Entry/Billing/Inventory Control, Manufacturing Management, Job Cost, Product Costing, Medical Billing, Professional Time Accounting and Billing, Accounts Receivable, Accounts Payable, Payroll, Retail Merchandise Control, and Distributor/Wholesaler Management systems.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: David E. Fedder
(301) 539-2121

FEDDER SOFTWARE, INC.
P.O. Box 27149
Baltimore, MD 212300149

Fedder Accounts Payable System

Operating System: ULTRIX, UNIX

Keywords: • Accounts payable • Manufacturing • Retail
• Wholesale

Cash requirements forecasting, accurate discount calculations, selective payment procedures, void and manual check handling, and detailed vendor history (open and paid) are featured. The system integrates with Fedder General Ledger/Financial Reporting — Purchasing and Job Cost Systems. Form 1099s, warning of subcontractor insurance expiration, and over budget (in optional Job Cost) are also

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provided. When used with Purchasing and Inventory Management System, the vouchering process checks for valid purchase orders and receiving reports. The system also checks for price changes.

Branch offices/divisions of Fortune 1000 companies; small retail, wholesale, service, and manufacturing companies; and contractors with retainages can use this system.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: David E. Fedder
(301) 539-2121

FEDDER SOFTWARE, INC.

P.O. Box 27149

Baltimore, MD 212300149

Fedder Accounts Receivable System

Operating System: ULTRIX, UNIX

Keywords: • Accounts receivable • Manufacturing • Retail
• Wholesale

This stand-alone version of the A/R portion of the Fedder Foresight™ Distribution Management System provides both open-item and balance-forward methods. Features include both detailed and summary agings, agings by salesperson, extensive sales analysis, selective service (finance) charges, open-item customer ledger cards, 24-month sales history with trend analysis, access by customer name or account I.D., password protection, and integration with the Fedder G/L — Financial Reporting System, on-line credit check, trend analysis, and so on. A companion post bill invoicing system with automatic pricing is also available. The system provides for future dating and a long list of user options.

The system is suitable for branch offices/divisions of Fortune 1000 companies; small retail, wholesale, service, and manufacturing companies; and contractors (with holdbacks).

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: David E. Fedder
(301) 539-2121

FEDDER SOFTWARE, INC.

P.O. Box 27149

Baltimore, MD 212300149

Fedder Compas™ (Complete Professional Accounting System)

Operating System: ULTRIX, UNIX

Keywords: • Architecture • Engineering • Financial planning
• Service industries

Compas combines in one integrated system all the accounting operations required for effective and profitable management of a professional firm. The system was designed for accountants, advertising agencies, architects, engineering firms, service organizations, and software developers. The system includes time and expense recording, work-in-process accounting, staff productivity analysis, and billing and open-item accounts receivable.

The system provides improved billing practices, profitability and collections; balanced staff assignments; factual data for staffing/training decisions; and improved control over assignment deadlines. Entries are made to the system through time and expenses by employee, payment received, work-in-process adjustments (markups and mark-downs), and deferrals.

Compas integrates with the following companion Fedder software systems: Accounts Payable/Expense Analysis, Payroll Checkwriting and Personnel Information System, and General Ledger/Financial Reporting.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: David E. Fedder
(301) 539-2121

FEDDER SOFTWARE, INC.
P.O. Box 27149
Baltimore, MD 212300149

Fedder Fixed Asset Management System

Operating System: ULTRIX, UNIX

Keywords: • Financial planning • Manufacturing
• Property management • Taxes

This multiasset data base system computes depreciation for personal property, income tax, and book purposes by all IRS-allowable methods, including ACRS. The system may be integrated with the Fedder General Ledger/Financial Reporting System. Schedules are produced for attachment to income tax returns.

The system is suitable for accounting firms, manufacturers (including branches/divisions of Fortune 1000 companies), contractors, larger wholesalers, retailers, service companies, and so on.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: David E. Fedder
(301) 539-2121

FEDDER SOFTWARE, INC.
P.O. Box 27149
Baltimore, MD 212300149

Fedder Integrated Accounting System

Operating System: ULTRIX, UNIX

Keywords: • Accounts payable • Accounts receivable
• General ledger • Payroll

Fedder Accountrol, an integrated accounting and management information system, supports multiple corporations, divisions, branches, and locations. The system may include general ledger, financial reporting, accounts payable, payroll, personnel information, job/product costing, accounts receivable, order entry, invoicing, inventory control, sales analysis, and fixed asset management.

A user-friendly query report writer is optionally available. Each module is priced separately.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: David E. Fedder
(301) 539-2121
FEDDER SOFTWARE, INC.
P.O. Box 27149
Baltimore, MD 212300149

FIPS (Financial Information Processing System)

Operating System: RSTS

Keywords: • Accounts receivable • Cost accounting
• General ledger • Payroll

FIPS provides completely integrated accounting for accounts payable, accounts receivable, payroll, project cost, and general ledger applications. The G/L module includes overhead budget analysis and the ability to do consolidations. Our method of designing financial statements allows the user to design any number and types of financial statements. The project cost system provides the ability to report information in summary or in detail form with budget comparisons on all activities within a project. G/L reporting provides percentage comparisons, current month, and year-to-date budget comparisons.

Installation, support, and ongoing maintenance are available.

Price: \$6,000 – \$14,000

Contact: Michael H. Seeb
(303) 771-8930
COMPUTER RESOURCES CORP.
5680 S. Syracuse Circle, Suite 118
Englewood, CO 80111

Fiscal Accounting

Operating System: RSTS

Keywords: • Accounts payable • Accounts receivable
• Education • General ledger

Memory required: 28K.

The Fiscal Accounting package, a fully accrued and encumbered system of accounting, consists of two subsystems — accounts payable and general ledger reporting. The accounts payable package includes the normal accounts payable functions; the general ledger package includes the printing of the general ledger and various forms of budget and expenditure reports.

The Fiscal Accounting package, primarily a conversion of a similar package developed for an IBM 1401, is therefore card input-oriented. However, that is the only use of cards; the input programs could easily be modified for terminal input. All sorting and data manipulation are done on the disks, and output is to either the disks or the line printer. The equipment necessary for the cards is a keypunch and a punched card reader for the PDP-11. The entire package is written in the RSTS V4A-12 BASIC-PLUS language.

A third package, Payroll, can be used in conjunction with the other packages. The payroll package, available from DECUS as number 11-33, is based on the same system of accounting. The entire system is based on double-entry bookkeeping. The Fiscal Accounting packages, however, stand alone without the payroll package.

The accounting system is based on a 16-digit general ledger account number. The account number contains, in a more concise form, most of the information recommended by the Federal Handbook II for school fiscal accounting. DECUS number 11-160.

Note: One DECTape is documentation.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Fixed Asset Accounting

Operating System: CTS-300

Keywords: • Calculation aids • Fixed assets • Inventory
• Property management

This comprehensive free-standing module of programs enables you to keep an inventory of your property items and to calculate depreciation for those items by the following depreciation methods: straight line, double-declining balance, 150% declining balance, and a sum of the years' digits. In addition, items that are not to be depreciated may be kept in the system.

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Additions (capital improvements) or deletions (partial sales or group items) can be shown as a separate detail item with an asset number and can have a different depreciation method or a different life (can be a partial-year life).

New assets are entered monthly or at the end of the fiscal year. Depreciation for the current fiscal year is calculated after posting of new assets. A fixed-assets register is printed for those new items, followed by a departmental summary showing the amount of depreciation to be journalized for each period in the current fiscal year (13-period fiscal years are supported, if desired).

At the close of the fiscal year, after all new assets have been processed, depreciation is calculated for the next fiscal year. A fixed assets register and departmental summaries are printed. Items that should be reclassified from accelerated depreciation to straight line are flagged on the fixed assets register for management review.

Price: \$1,500 – \$2,000

Contact: Robert J. Steinis
(203) 378-6010

FOOD DISTRIBUTOR SYSTEMS, INC.
959 Main Street
Stratford, CT 06497

Fixed Asset Depreciation

Operating System: CTS-300, RSTS, UNIX

Keywords: • Financial analysis • Financial planning • Taxes

The Fixed Asset Depreciation system calculates depreciation for each asset rapidly and accurately. Depreciation is calculated for both book and tax values, so that assets may be recorded for maximum tax benefit (ACRS and TEFRA), as well as for the greatest impact on financial statements. The system incorporates both the new ACRS and TEFRA methods and the traditional depreciation methods. Totals can be stored for groups and classes, so that assets can be organized by branch, department, and so forth.

The system includes required government reports, such as depreciation schedule, schedule of investment tax credit, recapture of ITC, as well as the book tax comparison schedule. Separate fields are stored for purchase price and basis, if they are different.

A version of this product is available for the VAX computer.

Price: \$2,000 – \$3,000

Contact: Marc Alexander, National Sales Manager
(503) 641-8100

ALPINE DATASYSTEMS, INC.
8043 SW Cirrus Drive
Beaverton, OR 97005

Fixed Asset Depreciation

Operating System: RSTS

Keywords: • Financial analysis • Management
• Report writer • Taxes

This on-line, easy-to-use system handles five depreciation methods: straight line, declining balance, double declining balance, sum-of-years digits, and ACRS. The system includes 1983 tax law changes, calculates investment tax credits and investment tax credit recapture of relevant assets, creates monthly journal entries that stand alone or interface to our General Ledger, maintains both book and tax depreciation, allows automatic conversion from accelerated depreciation methods to straight line, and handles full or partial disposals.

A Report Writer produces user-designed reports: year-to-date fixed asset analysis, detailed reports by location, asset traffic report, insurance value report, annual depreciation report for income tax purposes, investment tax report, investment tax recapture report, and yearly disposal report.

The table-driven software allows multiple operators, entry validation, and 2-word password security.

A version of this product is available for the VAX computer.

Price: \$2,500 – \$6,000

Contact: Linda M. Wingfield, Software Product Manager
(919) 766-0571

RESOURCE SYSTEMS CORP.
P.O. Box 1546
Clemmons, NC 27012

Fixed Assets

Operating System: RSTS

Keywords: • Financial analysis • Taxes

The ADD Fixed Assets package is an integral part of the ADD Financial Management package. The package automatically computes depreciation, using any of the standard methods — straight line, double-declining balance, 150% declining, and the new ACRS formulas.

Assets are grouped and reports can be generated by division, company, location, ledger code, depreciation method, and more. In addition, the system can automatically generate journal entries on a monthly or a yearly basis in a mode suitable for direct automatic entry into the ADD General Ledger package.

A version of this product is available for the VAX computer.

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Price: \$1,500 – \$4,000

Contact: Bruce A. Bott, President
(201) 584-4026

ADVANCED DIGITAL DATA, INC.
354 Route 206
Flanders, NJ 07836

Fixed Assets

Operating System: RSTS

Keywords: • Data dictionary • Fixed assets • General ledger

This system provides all the forms, programs, and procedures necessary to perform the fixed-assets function. Menu orientation makes this system easy to learn and simple to use. With the system's effective error reporting and interactive editing of input information, most errors can be identified and corrected at data entry, and most errors are prevented from ever reaching the main system.

Reviewed annually by outside accountants, this system has a complete, easy-to-follow audit trail and is continually kept up to date. Comprehensive reporting includes depreciation comparisons and forecasts; registers for acquisitions, disposals, and transfers; ledger depreciation distribution reports; and numerous depreciation reports.

The program may be run stand-alone or may be interfaced with a companion general ledger system. The documentation includes detailed operating procedures, flow diagrams, file layouts, report samples, program operating instructions, and a dictionary of data and terms used in the system. Complete support and training are available.

A version of this product is available for the VAX computer.

Price: \$2,500 – \$7,500

Contact: Bob Sharp, General Manager
(512) 734-4366

PLYCOM SERVICES, INC.
P.O. Box 380465
San Antonio, TX 78280

Fixed Assets/Amortization

Operating System: MS/DOS, PICK, UNIX, XENIX

Keywords: • Financial analysis • Taxes

This program provides the following:

- Classification and categorization of assets in any order desired, with appropriate group totals.
- Depreciation computed for any period desired. Depreciation methods include all ACRS methods; 125%, 150%, and 200% declining balance; sum of the year's digits; and straight line.
- Automatic shift from declining balance to straight line when advantageous, if requested.

- Bonus depreciation calculations, with automatic limitations.
- Investment credit report with automatic calculations of investment credit in the same format as Form 346B, including limitations on used Section 38 property.
- Investment credit recapture report.
- Automatic calculations of excess depreciation for recapture upon sale of asset.
- Depreciation schedule, 8½" × 11" size for submittal with tax return.

Price: \$2,000

Contact: Steve Thomas
 (713) 270-5218 or (800) 231-0062
 THE SOFTWARE EXPRESS, INC.
 10103 Fondren, Suite 220
 Houston, TX 77096

Forced Closed Accounts

Operating System: RT-11, TSX-PLUS

Keywords: • Banking • Credit • General ledger
 • Office systems

Banks and other financial institutions are losing tens of thousands of dollars apiece yearly due to the forced closing of bad customer accounts. The Forced Closed Accounts system can help banks recoup much of those funds. It can bring you faster and more complete reporting and greater efficiency. The system offers prompted data entry with ability to divide losses from one customer account between up to six general ledger accounts; full inquiry/change into the data base; stand-ard data base maintenance: creation and resequencing (with resort alphabetically by account holder); and report generation — detailed and abbreviated listings of forced closed accounts sorted by item number or alphabetically, time period reporting, data base health test reports, losses by general ledger account number, ranged reports based on amount lost (sorted descending), selective reports based on who the closing was reported to (retail credit, collection agency), and aged report of losses by GL account number.

By implementing the Forced Closed Accounts system, you can begin to recover your forced closed losses efficiently.

Price: \$2,000 – \$5,000

Contact: Leland T. (Tom) Smith, President
 (512) 692-0953
 DATA PROCESSING SERVICES, INC.
 8746 Wurzbach Road, Suite 203
 San Antonio, TX 78240

FRS (Financial Reporting System)

Operating System: RSTS

Keywords: • Financial management • General ledger
• Report writer

FRS is a highly flexible interactive financial reporting system designed for organizations requiring comprehensive financial control. The reports can be run daily, weekly, monthly, annually, or on any other user-defined time schedule. Reports can be detailed by company, division, department, or other desired responsibility center. FRS can accommodate a user-defined chart of accounts. The system audit trails are both extensive and complete. Unbalanced ledgers and journal entries are prevented by extensive edit checks throughout the system. Other FRS features include the ability to generate allocating, adjusting, and automatic reversing journal entries. Comparative reports can be produced, enabling the user to compare any past actual or budget accounting period with the current period in a clear, concise format. This module, available separately, is part of the White Hat Integrated Manufacturing Management Product.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: John M. Montgomery
(617) 933-3780

WHITE HAT SYSTEMS, INC.
331 Montvale Avenue
Woburn, MA 01801

FSG (Financial Statement Generator)

Operating System: CTS-300, RSX, RT-11

Keywords: • Financial analysis • Report writer

FSG is designed to accommodate the complex, unusual reporting requirements of today's accountant. The FSG is an extension of the free-formatting capabilities that exist in the Client Accounting System.

The FSG is designed to give the DSI user true free-formatting capability. The user is allowed to design an entire report on a line-by-line basis. Data elements and the positioning, printing, and numerical treatment of each element are user-defined.

Some highlights of the Financial Statement Generator are:

- Line-by-line report definition
- Line math capabilities (add, subtract, multiply, divide)
- Unlimited totaling levels
- Use of constants and percentages for calculations, projections, allocations, and so on
- Horizontal and vertical spacing
- Floating "\$", "-", "()", and so on

- Nonnumerical printing of units
- Multiaccount positioning per line
- Multidivisor specifications
- Multiclient use of established formats

A version of this product is available for the VAX computer.

Price: \$1,000

Contact: Bob Sprowls
(904) 434-2685

DIGITAL SYSTEMS OF FLORIDA, INC.
114 E. Gregory Street
Pensacola, FL 32501

General Ledger

Operating System: RSTS

Keywords: • Financial analysis • General ledger

The ADD General Ledger system allows the user to define not only a chart of accounts, but also the financial reports. The system is automatically updated by other applications packages from ADD, such as Accounts Payable, Payroll, Accounts Receivable, and Fixed Assets.

The “compare” function allows the user to contrast any factors desired — for example, “current month to budget” or “this month to last year” or “year-to-date to last year-to-date.” In addition to financial reports, the system produces worksheets, trial balance, journal of entries, and a detailed general ledger.

A version of this product is available for the VAX computer.

Price: \$2,000 – \$6,000

Contact: Bruce A. Bott, President
(201) 584-4026

ADVANCED DIGITAL DATA, INC.
354 Route 206
Flanders, NJ 07836

General Ledger

Operating System: RSTS

Keywords: • Financial analysis • General ledger
• Menu handlers • Project management

General Ledger (GL) software, a comprehensive, flexible system providing you with current information on your financial position, gives you double entry bookkeeping procedures, standard accounting reports, recurring journal entries, and flexible methods for viewing important information. You can enter and post journal entries manually, create and reuse recurring journal entries, or rely on automatic updates from other modules. Full financial reporting is available from menu selections with variations in format based on parameters you choose.

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Price: \$5,000 – \$20,000

Contact: Chuck Sargent, Software Sales Representative
(714) 970-1515

DATA PROCESSING DESIGN, INC.
1400 North Brasher
Anaheim, CA 92807

General Ledger

Operating System: CTS-300, RSTS, RT-11

Keywords: • Financial management • General ledger
• Report writer • Security

The General Ledger-Financial Reporting (G/L and F/R) system is comprised of a series of interactive programs designed for companies demanding complete financial control. The ease of operation of this accounting system is made possible by a sophisticated approach to the software development.

Available features are an on-line system, program/data security, user-defined accounting periods, accounts flexibility, comprehensive financial reporting, supporting schedules, automatic reverse accruals, recurring journal entries, allocation transaction, prior-period adjustment, early entries, retention of yearly transactions, storage of nonfinancial data, multicompany concept, automatic consolidations/roll-up reporting, budgeting/modeling, and interfaces with other systems.

A version of this product is available for the VAX computer.

Price: \$2,000 – \$10,000

Contact: Tom Muskiluke
(519) 893-4200

DIGITAL BUSINESS COMPUTERS
133 Manitou Drive
Kitchener, Ontario N2C 1L4
Canada

General Ledger

Operating System: ULTRIX, UNIX

Keywords: • Financial analysis • General ledger
• Information management • Report writer

This complete double-entry system includes accounting journals, general ledger reports, financial statements, and posting routines that ensure that transactions are in balance before being posted. Month-end and year-end closing routines exist to ensure proper account balances. The user designates the start of the fiscal year. The general ledger system is written in C language and uses the public domain Ingres data base written by the University of California at Berkeley. Binary and source codes are available for UNIX* Berkeley 4.1 and 4.2. The source code is available for all others.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$1,500 – \$10,000

Contact: Fred Potthoff
(612) 941-9470

FARGO ELECTRONIC SERVICES, INC.
7150 Shady Oak Road
Eden Prairie, MN 55344

General Ledger

Operating System: CTS-300

Keywords: • Financial analysis • General ledger

This comprehensive free-standing module of programs provides automatic financial reporting through the orderly presentation of current and comparative financial information. Financial statements may be prepared on a departmental, consolidated, summary, or comparative basis. As an option, the General Ledger System may be automatically interfaced into the companion Accounts Payable System.

The system features single-source direct entry via CRTs, tutorial prompting for simplified operation, direct master file inquiry, and on-demand reporting. Through the use of formatting codes, each user can define the desired format of each financial report — for example, profit and loss statement, balance sheet, and supporting schedules.

General Ledger posting is accomplished by interactive CRT entry of account number (with automatic verification and display of account description), date, debit or credit amount, source (a 3-character abbreviation for the document or system from which the transaction originated), and up to 30 characters or detailed reference.

The Chart of Accounts record contains a 7-digit account number, a 3-digit subaccount number, an account description, three special codes for formatting the financial statements, and up to 13 periods of budgeting and last-year comparative information. The 3-digit subaccount may be used to designate profit center.

The financial statements may be printed for any specified period (starting and ending dates) and for selected or all profit centers. Optionally, budgets may be shown on the profit and loss statement and last-year comparatives on the balance sheet. Budgets or comparatives may also be optionally shown on the supporting schedules.

Price: \$1,500 – \$2,000

Contact: Robert J. Steinis
(203) 378-6010

FOOD DISTRIBUTOR SYSTEMS, INC.
959 Main Street
Stratford, CT 06497

General Ledger

Operating System: ULTRIX, UNIX

Keywords: • General ledger

This fully integrated on-line multiuser UNIX*-based general ledger system provides budget analysis and all standard G/L reports, including balance sheet, profit and loss statement, detail trial balance, summary trial balance, journals, schedules, budget comparisons, and cash flow statements. Manual entries allow for adjustments, budgets, and beginning balances. The system supports “memo” and “self-reversing” transactions. The user may define virtually any accounting period, and reports may be printed for any accounting period (current or past) at any time. Multicompany and multidivision support allows printing of either separate or consolidated statements. “Cash,” “accrual,” or both accounting methods are supported simultaneously.

Also available are a print key providing hard copy of any screen image via the system printer, true multiuser design for concurrent program use, built-in multicompany/multidivision support, and user-assigned predefined company/division or user-allowed option to specify company/division.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$3,000 – \$6,000

Contact: Laurel McDaniel
(312) 332-3242

NEAL NELSON & ASSOCIATES
185 N. Wabash, Suite 1908
Chicago, IL 60601

General Ledger

Operating System: RSTS

Keywords: • Data dictionary • Financial analysis
• General ledger

This system provides all the forms, programs, and procedures necessary to perform the general ledger and financial reporting function. Menu orientation makes this system easy to learn and simple to use. With the system’s effective error reporting and interactive editing of input information, most errors can be identified and corrected at data entry. The program prevents most errors from ever reaching the main system.

Reviewed annually by outside accountants, this system has a complete, easy-to-follow audit trail and is continually kept up to date. Comprehensive reporting includes trial balances, detail or summary activity listings, trial balances in 13-column worksheet format, transaction logs, historical and budget reports, and user-defined financial statements.

The program may be run stand-alone or may be interfaced with companion payables, receivables, payroll, and fixed assets systems. The documentation includes detailed operating procedures, flow diagrams, file layouts, report samples, program operating instructions, and a dictionary of data and terms used in the system. Complete support and training are available.

A version of this product is available for the VAX computer.

Price: \$2,500 – \$7,500

Contact: Bob Sharp, General Manager
(512) 734-4366

PLYCOM SERVICES, INC.

P.O. Box 380465

San Antonio, TX 78280

General Ledger

Operating System: MS/DOS, PICK, UNIX, XENIX

Keywords: • General ledger • Printing • Report writer

General Ledger, also fed by Accounts Payable, Payroll, and Accounts Receivable as a comprehensive single-entry system, provides flexible account number formats; automatic budget generation, based on prior year's budget; on-line CRT account inquiry with detail; recurring journal entry; multicompany financial reporting; data-input accuracy, as transaction entries may be edited and corrected prior to posting; transaction entry screens that match the format of original documents; and audit trails — posting programs automatically produce journals.

The comprehensive statement generator allows customized financial statements, including statement of change in financial condition. Statements are not tied directly to the chart of accounts format. The trial balance, general ledger, and worksheet reports are standard.

A version of this product is available for the VAX computer.

Price: \$600

Contact: Steve Thomas

(713) 270-5218 or (800) 231-0062

THE SOFTWARE EXPRESS, INC.

10103 Fondren, Suite 220

Houston, TX 77096

General Ledger

Operating System: RSTS

Keywords: • General ledger

This program offers a complete general ledger system.

A version of this product is available for the VAX computer.

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Price: \$3,500

Contact: Andrew Yasenchak
(201) 231-9400
UNITRONIX CORP.
197 Meister Avenue
Somerville, NJ 08876

General Ledger System

Operating System: MicroPower/Pascal

Keywords: • Banking • General ledger • Report writer

The system provides general ledger, financial statements, and budgeting modules, each of which can be customized to meet individual requirements and format.

The system maintains prior-year information, with beginning balance and separate monthly balances, and current beginning balances, with separate monthly balances. On financial statements, this allows the user to generate many kinds of comparative statements.

The General Ledger System can be used by any type of industry and has the following features:

- Up to four levels of subtotals may be on a statement, with extensive formatting capability.
- Transaction files must be in balance prior to updating.
- Updates may be made for any period of time (monthly, quarterly, and so on), with unlimited updating for any period.
- A complete history of transactions is maintained for detailed printing.

The system can also distribute groups of accounts to other accounts on a weighted basis, that is, overhead to departments.

A version of this product is available for the VAX computer.

Price: \$6,000 – \$12,000

Contact: Henry C. Gaylor
(412) 355-8523
PITTSBURGH NATIONAL BANK
Fifth Avenue and Wood Street
Pittsburgh, PA 15222

General Ledger/Budgetary Control System

Operating System: CTS-300, RSTS

Keywords: • Financial management • Financial planning
• General ledger • Report writer

The BAKCO General Ledger/Budgetary Control System meets general ledger, financial reporting, and managerial reporting requirements. A series of on-line interactive programs provide control of G/L master file maintenance, budget file management, automatic or manual journal entries, trial balance reporting, and year-end summary and update.

The software allows for 12 or 13 periods of reporting for the fiscal year with individual actual and budget control accounts. Detailed information for a total of 26 periods with year-to-date totals for three years is provided.

Reports include G/L master file, audit trail of G/L maintenance, audit lists of budget files and of standard journal entries, profit-and-loss statements, and balance sheets and trial balance (with print options for a range of transactions for a specific period). A built-in report writer allows the user to create a wide variety of tailored balance sheets, P & L statements, department expense reporting, and service and application of funds.

The BAKCO General Ledger/Budgetary Control System is a full stand-alone system. However, it may also be integrated with BAKCO's Financial Control and Warehouse Distribution systems.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Jerry Baker, President
(312) 956-1053

BAKCO DATA, INC.
85 W. Algonquin Road, Suite 190
Arlington Heights, IL 60005

GL-11 (General Ledger and Financial Reporting)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Financial analysis • General ledger
• Personal computing • Report writer

GL-11 features user-defined account number formats with up to 12 characters, user-defined accounting periods (up to 13 a year), multiple financial statements designed by the user through parameter files, multiple input screens for journal entries, detailed ledgers carried in open-item format, a detail posting collapse feature that does not hinder the ability to obtain prior-period financial statements or to make prior-period adjustments, recurring entries made automatically based on either constant dollar amounts or constant percentages of account balances, stringent audit trail for all entries, wildcard reporting for multiple companies, and multidivision capabilities. GL-11 interfaces with AP-11 Accounts Payable System, AR-11 Accounts Receivable System, PY-11 Payroll System, and CN-11 Job Cost.

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GL-11's financial statements include balance sheet, income statement, statement of change, ratio analysis, loan analysis, asset analysis, disclaimer letters, and many more. Reports include chart of accounts, general ledger detail, trial balance, transaction journal, allocation and standard journals for recurring entries, and financial statements.

A user's guide includes information for the office manager, the terminal operator, and the application manager. A reference manual includes information for the system manager and programmers on installation procedures, program flows, data formats, and so forth.

A version of this product is available for the VAX computer.

Price: \$3,000 – \$4,000

Contact: Larry Landusky, Marketing
(806) 792-3785

COMPU-SHARE, INC.
3824 50th Street
Lubbock, TX 79413

G/L (General Ledger)

Operating System: RSTS

Keywords: • General ledger

Data Key's general ledger application includes the standard reporting functions associated with a financial system. Specifically, a trial balance, general ledger, balance sheet, gross profit report, and income statement are all provided with flexible formats. Provision is made for comparative reporting on budget and last-year amounts, in conjunction with individualized branch, department, and/or consolidated reporting. Transaction entry comes either through a document entry program or automatically from any other Data Key integrated application being used.

Price: \$2,000

Contact: Barry Logan, Vice President
(604) 276-2622

DATA KEY LTD.
1A 12880 Bathgate Way
Richmond, B.C. V6V 1Z4
Canada

G/L (General Ledger)

Operating System: CTS-300, RSTS, RT-11

Keywords: • General ledger • Report writer

General Ledger (G/L) handles up to eight companies, allows multiple profit centers, and includes the following capabilities:

- Allows the user to define 1 to 13 accounting periods in a company's fiscal year

- Provides automatic sequential numbering of all G/L reports
- Allows maintenance to the chart of accounts and prints the chart of accounts printout
- Allows entry and editing of general journal transactions and prints the general journal transaction register
- Prints the detailed general ledger report, the general ledger trial balance, and the general ledger source cross-reference
- Prints financial statements in flexible user-defined formats
- Allows transaction detail to be kept for the entire year so that year-end detail reports can be printed
- Has a comprehensive year-ending procedure
- Can be interfaced with MCBA's accounts receivable, accounts payable, payroll, job costing, and fixed assets and depreciation packages
- Provides a security system

A separate menu provides the following functions:

- Optional compression of transactions in the year-to-date file into one period-ending transaction per period for each account as coded in the chart of accounts
- Creation of a sample set of year-to-date transactions, which can be used to check the format of all financial statements
- A program that displays the amount of space remaining in all the major G/L files

A version of this product is available for the VAX computer.

Price: \$2,000 – \$3,000

Contact: Sales Representative
(818) 957-2900

MCBA, INC.
2441 Honolulu Avenue
Montrose, CA 91020

Idaho Falls Payroll System

Operating System: RSTS

Keywords: • Education • General ledger • Payroll

Memory required: 28K.

The payroll package implemented by the Idaho Falls School System is part of a fully accrued and encumbered system of accounting. The package handles three types of employee payments: contract payments, time card payments, and payments for employees who earn a fixed amount a day.

The entire package includes master personnel file maintenance, payroll and deduction calculation, check writing, payroll journal, deduction registers, and automatic entry to the general ledger system. DECUS number 11-33.

Restrictions: Users' payroll requirements must resemble those of the Idaho Falls implementation.

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Note: Card layouts, disk file layouts, and sample output and program descriptions are offered with the listing.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

IFAS (Interactive Financial Accounting System)

Operating System: RSTS

Keywords: • Accounts payable • Accounts receivable
• General ledger • Order entry

IFAS is a comprehensive set of application modules for accounts receivable, accounts payable, financial reporting, and order entry/invoicing. The modules can be installed separately or combined with IMCS to form an integrated system. All functions in the IFAS system provide a high degree of data base security through extensive on-line edit checking, numerous accounting controls, and the use of audit trails, transaction registers, and balancing techniques. Detailed descriptions of the many capabilities of these systems are available upon request.

A version of this product is available for the VAX computer.

Price: \$9,000 +

Contact: David C. Lang, CPIM
(513) 761-0132

INTERACTIVE INFORMATION SYSTEMS
10 Knollcrest Drive
Cincinnati, OH 45237

InterAP™

Operating System: DSM (MUMPS)

Keywords: • Accounts payable • Financial analysis

InterAP, a complete on-line interactive accounts payable system, may be interfaced with the InterGL General Ledger and Financial Reporting System or may be used in a stand-alone environment. InterAP allows the user flexibility in the definition of the accounts payable structure. Definable by the user are chart of accounts, vendor types and files, payment frequency schedule, bank accounts, discount accounting method, and fiscal periods.

To enter payables, the user tells the system the number and amount to be entered. The system assigns a voucher control number to each payable and allows the selection of the vendor from the files (by number or name) or the entry of the name and address during payable entry. The user enters invoice number (which is checked to ensure that it is not a duplicate), invoice date, amount, discount terms, due date (may be derived from vendor file), descriptive comment, and expense distribution. If the payable has been paid, the user is prompted for bank, check number (verified to ensure not already used), and check date. Voiding

of previously issued checks is also accomplished through the payable entry function. Once a series of payables have been entered, they may be posted to the vendor ledger if the control figures balance with what has been entered.

At all times, on-line inquiries may be performed to determine the status of a vendor's account and a particular or sequence of payables or checks. Selection is by vendor (number and/or name), voucher number or range, invoice number and/or date, check number, and/or a combination of the above. Detailed or summary information is displayed on the screen or printed in hard-copy form.

Upon request, the user can produce an accounts payable aging as of any specified date (accrual or only up to a given fiscal period) and a general ledger aged trial balance, which highlights possible inconsistencies in dating of payables.

The payment process is accomplished by producing a cash requirements report that shows what is due according to the payment schedule that the user has defined. The user then designates which items are to be paid and whether the discount is to be taken. A summary listing of what has been queued for payment is produced, and the user may add to or delete from the list. Then the system is requested to produce checks, after which, if the user has indicated that they are correct, a check (run) register is printed and the files are updated. It is also possible to pay items manually, by entering the check number used, rather than having the system print the checks.

Various reports and inquiries are available from the system: monthly check registers, settlement reports, agings and ledgers for individual vendors or vendor types, and short voucher inquiries.

Available with InterAP is a check reconciliation module that allows the user to reconcile bank statements and keep track of outstanding or uncleared checks. If that module is used, inquiries also indicate whether a check has cleared for a given payable.

A version of this product is available for the VAX computer.

Price: \$2,500

Contact: Alexander J. Phillips, President
(201) 256-7633

INTERACTIVE SYSTEMS AND MANAGEMENT CORP.
1500 Cardinal Drive
Little Falls, NJ 07424

InterGL™

Operating System: DSM (MUMPS)

Keywords: • Financial analysis • General ledger

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InterGL, a complete on-line interactive general ledger and financial reporting system, can be used by any small- to medium-size business or medical entity. If more than 9,000 major general accounts are required, an expanded version of InterGL will be required. InterGL performs the commonly accepted and required steps in keeping an entity's general and subsidiary ledgers, as well as produces the financial and management reports for the user.

The system allows the user to define and design a chart of account structure and financial reports, as well as the fiscal period structure of the accounting system. The account number is an 8-digit number (4-digit main account number, 2-digit division designation, and 2-digit cost center designation). If the divisional features are used, the system can be used to produce divisional and consolidated reports. The system definition functions are accomplished on line, and extensive editing of the input is performed to ensure its correctness.

General ledger postings are entered on line. The user specifies the fiscal period, as well as the number of postings being entered. As the individual postings are made, the account number is verified against the chart of account file, the name of the account is displayed, and the user then enters the date of the posting, its source (sources are also user definable and are the basis of the subsidiary ledger or journal reports that are later produced), the amount of the posting, and any audit reference and explanation. The entry process minimizes the number of keystrokes that are necessary, while ensuring that correct accounting principles are adhered to.

Once a series of postings have been entered into the system, they may be reviewed by the user before being posted to the ledger. If they are not in balance, they may not be posted to the ledger, and prior to posting to the ledger they may be modified. Once a posting has been made to the ledger, the posting can be reversed only by making an adjusting entry. Complete journal listings can be produced for all postings, including those that are the result of other accounting packages, such as accounts payable. It is also possible to enter budget figures into the system.

The system includes the following reports: general ledger (with sub-sorting by vendor and customer within account), abbreviated general ledger (showing only journal entries in detail, and single entries for all subsidiary journals), summary general ledger (showing balances and total debits and credits), journals, and working trial balance. Financial statements include P&L reports by division and/or consolidated for current period versus year to date or versus budget or versus same period last year, YTD versus YTD budget or versus YTD last year, or any four periods and ranges of periods, and balance sheet. Statements can be produced with supporting and management schedules as defined by the user.

InterGL can take postings from other accounting systems, such as accounts payable, accounts receivable, and depreciation and amortization. Once a period has been closed, postings can no longer be made to that period. Closing of period creates the beginning balances for the next period. If a year-end closing is performed, only the balance sheet account figures are carried forward. The system may be used for both cash or accrual accounting.

A version of this product is available for the VAX computer.

Price: \$2,500

Contact: Alexander J. Phillips, President
(201) 256-7633

INTERACTIVE SYSTEMS AND MANAGEMENT CORP.
1500 Cardinal Drive
Little Falls, NJ 07424

INTFIN (Internal Financing Package)

Operating System: RSTS

Keywords: • Accounts receivable • Billing

INTFIN was developed to handle invoices or bills between companies, subsidiaries, or profit centers belonging to one organization. The idea is to reduce the amount of money required to finance operations and thereby to reduce interest expense.

An account is established for each subsidiary, and INTFIN debits and credits the accounts from the information on the invoices.

Price: Available upon request

Contact: David M. Carson, President
(816) 931-7610

SOFTFIN
P.O. Box 3354
Kansas City, KS 66103

INTRST.PKG

Operating System: RSTS

Keywords: • Banking • Calculation aids • Decision support

INTRST.PKG is a package designed to help banks, credit unions, and savings and loans calculate interest rates. INTRST.PKG calculates cost of funds and interest rates on both commercial and amortized notes. The program is designed to help the institution give credit to good customers with large compensating balances.

Price: \$900

Contact: David M. Carson
(816) 931-7610

SOFTFIN
P.O. Box 3354
Kansas City, KS 66103

Inventory Control

Operating System: ULTRIX, UNIX

Keywords: • Inventory • Manufacturing • Purchasing

This fully integrated on-line, multiuser UNIX*-based inventory control system maintains stock levels and reorder points and provides usage analysis, inventory valuation, and reorder reports. The system supports multiple units of measure per inventory item (cases, pieces, and pounds) with automatic conversion as required and is fully integrated with purchasing, material receipts, and order and shipment processing. The system maintains perpetual on-hand and on-order balances for both purchase and sale items. Support is provided for "ABC" analysis of stock levels, which helps locate over- or understocked items. A subsystem is available to assist in taking a physical inventory. The programs print count sheets and reports that compare theoretical to actual counts and compare theoretical to actual stock levels. The programs allow entry of actual accounts and revised accounts and generate adjustment transactions for variances.

Also available are a print key providing hard copy of any screen image via the system printer, true multiuser design for concurrent program use, built-in multicompany/multidivision support, and user-assigned predefined company/division or user-allowed option to specify company/division.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$3,000 – \$6,000

Contact: Laurel McDaniel
(312) 332-3242

NEAL NELSON & ASSOCIATES
185 N. Wabash, Suite 1908
Chicago, IL 60601

Job Cost

Operating System: MS/DOS, PICK, UNIX, XENIX

Keywords: • Cost accounting • Report writer

This program, automatically fed from the Accounts Payable and Payroll systems, provides the following:

- Flexible job identification
- Unlimited cost categories within a job
- User-defined subtotaling on reports
- Summary and detail cost tracking
- Cost versus budget, with completion percentage and projections
- CRT job inquiry for on-line analysis of jobs
- Period and job-to-date cumulative hours and dollars

A version of this product is available for the VAX computer.

Price: \$1,500

Contact: Steve Thomas
 (713) 270-5218 or (800) 231-0062
 THE SOFTWARE EXPRESS, INC.
 10103 Fondren, Suite 220
 Houston, TX 77096

Job Cost Accounting

Operating System: ULTRIX, UNIX

Keywords: • Billing • Cost accounting
 • Information management • Report writer

The Job Cost Accounting system tracks costs for jobs by job number and activity and compares them to estimates. Employee, free-lance, invoices, and miscellaneous expenses billable are tracked. Billing rates and hourly costs exist for each employee and free lance by activity, allowing you to compute the billable amount, the cost amount, and the profit. A user-specified markup is applied to invoices and miscellaneous expenses billable. The actual amounts are compared to estimate amounts. Profitability reports analyze jobs by client and by job type.

The system is written in C language and uses the public domain Ingres data base written by the University of California at Berkeley. Binary and source codes are available for UNIX* Berkeley 4.1 and 4.2. The source code is available for all others.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$1,500 – \$10,000

Contact: Fred Potthoff
 (612) 941-9470
 FARGO ELECTRONIC SERVICES, INC.
 7150 Shady Oak Road
 Eden Prairie, MN 55344

Job Costing

Operating System: ULTRIX, UNIX

Keywords: • Cost accounting • Manufacturing • Report writer

This fully integrated on-line, multiuser UNIX*-based job costing system provides cost analysis by job and by phase, detail and summary reports, and current status inquiry. Estimate and actual information may be entered by operation. Manual entry, adjustments, job cost history, and revisions of estimates can be maintained by operation. Analysis reports that recap job cost by job, operation, product, customer, salesperson, or employee are available. An estimate-versus-actual comparison can be printed by operation or employee. A cost-versus-actual comparison can be printed by product, customer, and salesperson.

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Also available are a print key providing hard copy of any screen image via the system printer, true multiuser design for concurrent program use, built-in multicompany/multidivision support, and user-assigned predefined company/division or user-allowed option to specify company/division.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$3,000 – \$6,000

Contact: Laurel McDaniel
(312) 332-3242

NEAL NELSON & ASSOCIATES
185 N. Wabash, Suite 1908
Chicago, IL 60601

Keane's Financial Accounting System

Operating System: RSTS, RSX

Keywords: • Accounts payable • Accounts receivable
• General ledger • Order entry

This fully integrated on-line accounting system provides on-line updates and access to the data via easy-to-use screens, as well as complete security controls and error validation. The system is also fully integrated with the Factory Information System.

Keane's Financial Accounting System consists of five modules: Sales Order Processing, Accounts Receivable, Accounts Payable, General Ledger/Report Writer, and Financial Modeling.

A version of this product is available for the VAX computer.

Price: \$30,000 – \$50,000

Contact: Robert Clifford
(617) 863-0330

KEANE, INC.
420 Bedford Street
Lexington, MA 02173

MAPS/ISO

Operating System: RSTS

Keywords: • Data collection • Personnel

MAPS/ISO is a comprehensive accounting and tracking software system for stock option plans. MAPS/ISO manages and tracks all activity relating to the granting, exercising, canceling, and repricing of both incentive and nonqualified stock options. It offers features designed to bring a company's stock option plan up to full compliance with federal regulations regarding Incentive Stock Option (ISO) accounting and reporting. All input data is validated on line to ensure proper grant or exercise of options and is available at any time for reporting and ad hoc inquiries.

A version of this product is available for the VAX computer.

Price: \$27,000 – \$66,000

Contact: Shelley Swackhamer
(415) 856-1100

ROSS SYSTEMS, INC.
1860 Embarcadero Road
Palo Alto, CA 94303

MAPS/MODEL

Operating System: RSTS

Keywords: • Decision support • Financial analysis
• Financial planning • Spreadsheets

MAPS/MODEL combines the ease of use of electronic spreadsheets and the power of advanced modeling languages. MAPS/MODEL is ideal for problems involving multidimensional consolidations, iteration, or sensitivity analysis. Models are easily constructed for applications such as budgeting, cash flow management, and forecasting. MAPS/GRAPH, integrated with MAPS/MODEL, gives you the opportunity to use your financial planning data for presentation-quality color graphics.

A version of this product is available for the VAX computer.

Price: \$12,000 – \$30,000

Contact: Kevin Walsh
(415) 856-1100

ROSS SYSTEMS, INC.
1860 Embarcadero Road
Palo Alto, CA 94303

MBS-AP (Manus Business Systems — Accounts Payable)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts payable

The Accounts Payable module gives the MBS user close control over cash disbursements and related accounting functions. It operates as an automatic vouchering system to accumulate information on vendors, vendor invoices, discounts, and expense distributions. It produces complete prepayment information, writes approved checks and related reports, includes check reconciliation, and maintains historical data for analysis. A special inquiry function produces an immediate report of cash requirements within a user-specified period for a particular bank.

Several interactive entry functions are provided to enter vouchers, modify their status in the system, permit check voiding, and reconcile returned checks. All entries are accumulated and stored to provide necessary audit trails.

All entries must have a unique voucher number assigned for audit and control purposes. A payable voucher can be classified as a 1-time purchase or as a contractual recurring payable commitment. For recurring payables, the system automatically generates the payment voucher each time payment is due, with no further manual input necessary.

The Accounts Payable module interfaces with the MBS General Ledger module.

A version of this product is available for the VAX computer.

Price: \$3,000 – \$6,000

Contact: Gary Vowels
(206) 285-3260

MANUS SERVICES CORP.
1700 Westlake Avenue North
Seattle, WA 98109

MBS-AR (Manus Business Systems — Accounts Receivable)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts receivable

The MBS Accounts Receivable module is designed to provide all capabilities required for receivables processing and control. The module includes functions needed by accounting personnel to maintain a customer master file and to record charges and credits for those customers on file with appropriate general ledger distributions generated to offset the transaction amount. The Accounts Receivable module gives the MBS user accurate working knowledge of outstanding accounts, individual customer credit positions, and incoming cash. Both open-item and balance-forward methods are supported.

Receivables may be created either through the Order Processing interface or by entering invoices directly into the Accounts Receivable module. Functions are included for entering invoices, cash receipts, and memos.

Several functions provide status and audit trail reporting. In many cases, those reports give the user the capability to supply special selection and sorting criteria. Reports, including Aged Trial Balance, Receivables Ledger, and Monthly Statements of Account, can be produced, showing all open-item detail and including past and current finance charges. Inquiry functions provide immediate access to the receivables files and to historical credit information.

The Accounts Receivable module may operate as a stand-alone module or be integrated with the MBS Order Processing and General Ledger modules.

A version of this product is available for the VAX computer.

Price: \$3,000 – \$6,000

Contact: Gary Vowels
(206) 285-3260

MANUS SERVICES CORP.
1700 Westlake Avenue North
Seattle, WA 98109

MBS-GL (Manus Business Systems — General Ledger)

Operating System: CTS-300, RSTS, RT-11

Keywords: • General ledger

The MBS General Ledger module is a comprehensive package capable of handling the financial reporting requirements of a wide variety of businesses. The system supports up to 13 reporting periods per fiscal year, maintains 13 monthly budgets, and allows a chart of account numbers of up to 12 digits. Journal entries may be entered directly into the General Ledger module in a tightly controlled fashion or interfaced in detail or summary form from subsidiary modules. Both recurring standard journal entries and accrual entries, which are automatically reversed in the following period, are supported. Automatic allocations processing is fully implemented.

A special Financial Report Generator allows the user to create custom financial reports that specifically match the reporting needs of the organization.

A version of this product is available for the VAX computer.

Price: \$3,000 – \$6,000

Contact: Gary Vowels
(206) 285-3260

MANUS SERVICES CORP.
1700 Westlake Avenue North
Seattle, WA 98109

Meat, Poultry, and Fish Purchasing Control System

Operating System: CTS-300, RSTS

Keywords: • Inventory • Purchasing • Warehousing

This system creates, controls, and tracks purchase orders for meat, poultry, or fish by both pieces and weight. The system tracks receipts against purchase orders and integrates vendor ordering and receiving information with inventory and accounts payable records.

The system allows the generation of not only regular purchase orders but also drop-ship purchase orders, blanket purchase orders, and no-charge purchase orders. Upon entry of the purchase order data, each inventory item dynamically affects the inventory status of both pieces and weight. Both stocking and nonstocking items can be purchased from a vendor on the same purchase order.

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Receiving reports can be printed at the receiving dock and show the pieces and weight to be received and where to store the merchandise in the warehouse. If partial receipt occurs, receiving reports can be reprinted, showing only those items still open.

Cash commitment reports can be produced, showing when payment should be due on all open purchase orders.

This system can also be integrated with our warehouse distribution application.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Jerry Baker, President
(312) 956-1053

BAKCO DATA, INC.

85 W. Algonquin Road, Suite 190
Arlington Heights, IL 60005

Minicomputer Business Systems

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts payable • Accounts receivable
• General ledger • Order entry

The following packages comprise the Minicomputer Business Systems:

- **General Ledger Financial Reporting Package (G/L)**, a highly flexible, simple-to-operate system that responds to management's essential reporting needs. Features include free-form structure, budget capability, prior-period comparisons, reporting flexibility, percent-to-total calculations, future-period processing, inquiry capability, and controls and audit trails.
- **Accounts Payable Package (A/P)**, used with the G/L package, features a single posting that automatically posts to both systems. Special features of the A/P system include payment flexibility, multiple distributions, next-period processing, controls and audit trails, and an inquiry capability.
- **Accounts Receivable Package (A/R)**, which can be linked to the Order Entry package to automatically update customer balances when invoices and credit memos are prepared. Special features include inquiry capability, flexible reporting statement printing, and flexible cash receipt accounting.
- **Order Entry, Invoicing, and Inventory Control Package (O/E)**, an integrated group of programs designed to control perpetual inventory records and to prepare sales order acknowledgments, picking lists, invoices, and sales management information. Features include inquiry capabilities, automatic inventory checks, flexible pricing and discounting, automatic credit checks, and various inventory and sales analysis reports.

PMM/MBS software programs provide for the manager or decision maker a complete environment that not only provides reports for control and decision making, but also incorporates data management and maintenance facilities. The software accommodates needs ranging from simple on-line inquiries to comprehensive reporting.

Common features of PMM/MBS software programs include:

- Operator prompting — instructions for use appear on screen
- Menu-driven programs — program selectivity in all packages
- Similarity of programs — repetitive procedures provide a common, familiar environment for data entry operators
- Master-file protection — prevents unintentional deletion of records
- Structured input controls — allow system balancing and minimize errors
- Immediate on-line inquiry — for data verification and information retrieval
- Selective reporting — to meet specialized reporting requirements, reports are produced for CRT display and printed copy

Price: \$2,500 – \$8,000

Contact: Victor Goldberg, Principal
(212) 872-7732

PEAT, MARWICK, MITCHELL & CO.
345 Park Avenue
New York, NY 10154

MINTAX (Personal Income Tax System)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Financial analysis • Taxes

The MINTAX personal tax-processing system prepares federal income tax returns. Input is provided from interviewer forms completed by the tax preparer and is entered on line by the system operator. The system calculates and prints most tax schedules. The following federal forms and schedules are printed: A, B, C, D, E, F, G, R, SE, TC, 2106, 2119, 2210, 2240, 2441, 3468, 3903, 4136, 4562, 4625, 4726, 4797, 4952, 4972, 5329, 5695, 6251, Office in Home Statement, Education Expenses Statement, Miscellaneous Income, Proforma (worksheet for next year's data), 1040, and 1040-ES. Diagnostic reports, taxpayer letters, invoices, and labels are also prepared. Forms are approved annually by the IRS.

A Personal Tax Planning module is available. California state returns are also prepared.

A version of this product is available for the VAX computer.

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Price: \$2,500

Contact: Richard Long
(415) 462-6330
MINI SYSTEMS, INC.
5726 Sonoma Drive
Pleasanton, CA 94566

Money Orders System

Operating System: RT-11, TSX-PLUS

Keywords: • Banking • Report writer • Sales and marketing

The Money Orders System is a complete record-keeping system similar to our Official Checks System except that it is used for tracking money orders rather than official checks. The system has facilities for selling money orders; money order inventory management (in vault and at tellers); generation of reports on individual money orders, money orders by batches, and voided money orders; and full inquiry into the data base.

Price: \$2,000 – \$5,000

Contact: Leland T. (Tom) Smith, President
(512) 692-0953
DATA PROCESSING SERVICES, INC.
8746 Wurzbach Road, Suite 203
San Antonio, TX 78240

NMI CAP (Complete Accounting Package)

Operating System: ULTRIX, UNIX

Keywords: • General ledger • Inventory • Order entry
• Payroll

The NMI Complete Accounting Package consists of Accounts Receivable, Accounts Payable, General Ledger, Inventory, Sales Order, Job Costing, Payroll, and Temporary Payroll/Integrated Billing subsystems designed to interface with one another. Special attention is paid to the retail application, with provisions made for cash sales, expenses payable, and VISA/Master Card and American Express transactions. The Temporary Payroll/Integrated Billing system is designed to be used by employment or temporary placement agencies in coordination with the NMI Personnel Searcher. The system is also compatible with most UNIX*-based word processors and all Version 7 utilities.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$1,995

Contact: Mac McLaughlin, Inside Sales
(201) 953-9223

NORTON-MURPHY INTERNATIONAL, INC.
123 Claremont
Bernardsville, NJ 07924

Official Checks System

Operating System: RT-11, TSX-PLUS

Keywords: • Banking • File management • Report writer

The Official Checks System is a complete record-keeping system with facilities for issuing checks (with daily trial balance report); paying checks (with daily trial balance report); managing check inventory (in vault and at tellers); generating reports on individual checks, paid checks, unpaid checks, and all checks and monthly reports; managing dormant checks (advertising and escheating of dormant checks according to Texas law); handling indemnity-bound checks; and providing full inquiry into the data base and supervisory access to the data base.

Price: \$2,000 - \$5,000

Contact: Leland T. (Tom) Smith, President
(512) 692-0953

DATA PROCESSING SERVICES, INC.
8746 Wurzbach Road, Suite 203
San Antonio, TX 78240

OPS (On-Line Payroll System)

Operating System: RSTS

Keywords: • Payroll

This financial and administrative package is designed for use within colleges, universities, school boards, municipalities, and paragovernmental agencies. OPS features user-defined earnings deductions, benefits, labor distribution, and frequencies; on-line data entry and validation; vacation advance processing; absentee control and bank facility; master file maintenance and updates; extensive audit trails; salary grid, payroll check reconciliation, and payroll projections, using salary grid; comprehensive payroll/employee reports; a report writer; and automatic interface to BAS (Budgetary Accounting System).

A version of this product is available for the VAX computer.

Price: \$30,000 (Canadian)

Contact: Dennis Sakamoto
(416) 433-2100

S.R.B. INTERNATIONAL LTD.
Whitby Corporate Centre
209 Dundas Street E., Suite 205
Whitby, Ontario L1N 7H8
Canada

ORD (Order Entry and Invoicing Application)

Operating System: RSTS

Keywords: • Billing • General ledger • Inventory
• Order entry

This order entry system allows the user to enter original-order data, credit notes, order-update information, and back-order data on line. Validation and edit checking are performed at the entry stage. A flexible discount system allows the application of several discount rates. The ability to enter general ledger distributions for extraneous items in addition to regular stock entries is provided.

Order data can be displayed by using a terminal inquiry program. The invoice generator automatically calculates the invoice totals and off-setting postings for revenue, cost of goods sold, and so on. A report of outstanding orders provides details for each nonsatisfied order. Also, a back-order release report can be utilized that indicates the orders that can be satisfied due to the receipt of the back-ordered inventory stock. Data Key's accounts receivable and sales analysis (Data Key A/R and S/A) programs are provided as part of this package. Data Key's inventory system (Data Key INV) program is recommended for total utilization of this system.

Price: \$6,000

Contact: Barry Logan, Vice President
(604) 276-2622

DATA KEY LTD.
1A 12880 Bathgate Way
Richmond, B.C. V6V 1Z4
Canada

Order Entry/Inventory

Operating System: TSX-PLUS

Keywords: • Inventory • Order entry

This complete order entry/inventory control system is typically used by a distributor, reseller, or retailer. Entry of orders are checked against inventory, and picking tickets are printed. Freight charges are applied, and an invoice is issued. The invoice entry is automatically recorded in the accounts receivable.

Price: \$4,000

Contact: Sam Wingate, Vice President
(813) 935-8844 or 935-8951

AUTOMATION RESOURCES CORP.
2901 W. Busch Boulevard, Suite 309
Lincoln Gardens, FL 33612

Order Processing

Operating System: ULTRIX, UNIX

Keywords: • Manufacturing • Order entry

This fully integrated on-line, multiuser UNIX*-based order processing system provides full support for multiple shipments, partial shipments, and back orders. The programs produce packing lists, shipping labels, order and shipment registers, back-order processing, open-order analysis, and order-status inquiries. The system provides for returns, allowances, adjustments, and items damaged during shipment. Both orders and shipments are immediately posted to Inventory Control. Special forms, such as manifests and bills of lading, can be produced, and programs are available for spread order and blanket order entry. A change-in-status report by item that shows open orders at start of period, new orders, shipments, and open orders at end of period can be produced. That report can be organized by item, by item within customer, or by item within vendor. Future orders may be entered, and stock requirements reports can be printed to assist with long-range manufacturing plans.

Also available are a print key providing hard copy of any screen image via the system printer, true multiuser design for concurrent program use, built-in multicompany/multidivision support, and user-assigned predefined company/division or user-allowed option to specify company/division.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$3,000 – \$6,000

Contact: Laurel McDaniel
(312) 332-3242

NEAL NELSON & ASSOCIATES
185 N. Wabash, Suite 1908
Chicago, IL 60601

Pay (Canadian Payroll)

Operating System: RSTS

Keywords: • Employment • Payroll • Taxes

Data Key's Canadian payroll system provides all standard requirements associated with hourly and salaried wage earners for any number of pay periods. On-line access allows instantaneous employee additions and terminations, record of employment displays, and easy time-document entry.

The payroll can be broken down by branch and department to provide meaningful labor breakdowns. In addition to the standard UIC, CPP, and tax deductions, a variety of deductions can be handled and automatically maintained.

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Reporting includes edits, journals (current and year to date), a check writer with an associated check register, employee data sheets, union and health care remittances, earnings summaries, master file dumps and updates, unemployment earnings, and year-end T4 generation.

In addition, optional integration to the general ledger (Data Key G/L) and to the work-in-progress (Data Key WIP) applications is offered.

Price: \$3,000

Contact: Barry Logan, Vice President
(604) 276-2622

DATA KEY LTD.
1A 12880 Bathgate Way
Richmond, B.C. V6V 1Z4
Canada

Payroll

Operating System: RSTS

Keywords: • Payroll • Report writer • Taxes

This comprehensive, flexible on-line system with conversational-mode processing handles the complete payroll reporting cycle, including base payroll, tax, and deduction registers; management and government reports; and labor distribution reporting. Payroll handles multiple pay periods and multiple checks per employee, quarterly and annual processing, and tips and meal processing. The Payroll system automatically processes and maintains all information necessary to ensure efficient and reliable control in the payroll operation.

Price: \$2,000 – \$9,800

Contact: Marketing Department
(502) 491-9820 or (800) 626-6268

AMCOR COMPUTER CORP.
1900 Plantside Drive
Louisville, KY 40299

Payroll

Operating System: TSX-PLUS

Keywords: • Payroll • Taxes

This complete payroll system provides standard gross-to-net calculations. Federal and state taxes are provided as file tables for end-user maintenance. The system prints payroll checks and registers, tax summary reports, 941 and W-2 forms, and an employee master list.

Price: \$2,000

Contact: Sam Wingate, Vice President
(813) 935-8844 or 935-8951

AUTOMATION RESOURCES CORP.
2901 W. Busch Boulevard, Suite 309
Lincoln Gardens, FL 33612

Payroll

Operating System: RSTS

Keywords: • Cost accounting • Payroll • Project management
• Taxes

The Payroll program accepts manual time sheet entries or processes labor information from the Project Cost module. You can generate W-2 forms for both hourly and salaried employees. Entry of data is accomplished quickly, and the software performs automatic tax withholding and deduction calculations. The program has eight standard earnings categories and eight user-defined deduction categories. Features include automatic printing of check registers and checks, easy modification of the latest yearly tax tables, and automatic tracking of vacation, sick days, and holiday hours. A payroll may be done on a weekly, biweekly, semimonthly, or monthly basis. The module also supports individual dependents and additional dollar deductions for both state and federal taxes. Payroll software supports advanced earned income credit payments and offers an optional exclusion of any tax category.

Price: \$5,000 – \$20,000

Contact: Chuck Sargent, Software Sales Representative
(714) 970-1515

DATA PROCESSING DESIGN, INC.
1400 North Brasher
Anaheim, CA 92807

Payroll

Operating System: CTS-300

Keywords: • Payroll • Taxes

This comprehensive free-standing module of programs provides gross to net automatic payroll writing. Entry of handwritten checks and adjustments to quarterly and year-to-date figures are accommodated. Following the automatic preparation of checks, appropriate journals are prepared for the control of hours entered by department, checks, taxes, and deductions.

The system features single-source direct entry via CRTs, tutorial prompting for simplified operation, automatic rate and tax calculations, automatic variable deductions, multiple-state calculations, control of declining-balance deductions, automatic W-2 preparation, direct master file inquiry, and on-demand report printing. Hourly and salary payrolls may be run separately or together.

Tax tables can be set up as weekly, biweekly, semimonthly, and/or monthly. Multiple-state and city taxes may be automatically calculated. (The user must supply the appropriate tax tables.)

Payroll processing is accomplished by interactive CRT entry of employee number (with automatic verification of and display of employee name), regular hours (defaults to standard hours), overtime hours, vacation hours (if any), and miscellaneous earnings to be paid

and any 1-time deductions. From this minimal input, payroll checks plus all reports are automatically prepared and available for printing on a demand basis.

The employee master allows for one salary or two hourly rates (regular, overtime), six regular deductions and two declining balance deductions, deductions frequency code, and additional federal and state withholding taxes. Five taxes may be calculated: federal, FICA, state, city, and disability insurance.

Price: \$1,500 – \$2,000

Contact: Robert J. Steinis
(203) 378-6010

FOOD DISTRIBUTOR SYSTEMS, INC.
959 Main Street
Stratford, CT 06497

Payroll

Operating System: CTS-300, RSTS, RT-11

Keywords: • Construction • Cost accounting • Manufacturing
• Payroll

Payroll is a multicompany/client payroll system that interfaces to Franklen's CPA-11, General Ledger/Financial Reporting System. The normal check writing and federal/state tax reporting functions are provided. Comprehensive labor distribution is available. In addition to departmental and subdepartmental labor distribution, significant job information can be developed. Through integration with CPA-11, job cost files can be updated. This capability is of special interest to firms engaged in manufacturing and construction.

A version of this product is available for the VAX computer.

Price: \$1,500 – \$3,000

Contact: Frank J. O'Kane, President
(213) 441-4123

FRANKLEN COMPUTER SYSTEMS, INC.
715 Fremont Avenue
South Pasadena, CA 91030

Payroll

Operating System: ULTRIX, UNIX

Keywords: • Payroll • Personnel

This fully integrated on-line, multiuser UNIX*-based payroll system provides for either salaried or hourly personnel and maintains both earning and deduction histories for each employee. Payroll checks, tax deposit checks, and deduction deposit checks are printed automatically. The system allows printing multiple checks for an employee in a

payroll period (accommodates vacation and bonus checks) and supports manual or handwritten checks. Either manual or computer-generated checks may be voided. The system calculates taxes and standard deductions and provides separate deduction registers for each type of deduction. Tax reports (such as 941 and W-2 forms) are printed and may be used to substantiate payments sent to unions and savings plans. A variety of standard or 1-time deductions is supported. Deduction codes may be user defined. Standard deductions can be a set amount and/or a percentage of the regular hours. Tax formulas are stored in easily modified tables to facilitate changes when tax laws change. Earnings may be allocated to multiple G/L accounts, and automatic interface to both G/L and job costing is provided.

Also available are a print key providing hard copy of any screen image via the system printer, true multiuser design for concurrent program use, built-in multicompany/multidivision support, and user-assigned predefined company/division or user-allowed option to specify company/division.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$3,000 – \$6,000

Contact: Laurel McDaniel
(312) 332-3242

NEAL NELSON & ASSOCIATES
185 N. Wabash, Suite 1908
Chicago, IL 60601

Payroll

Operating System: RSTS

Keywords: • Data dictionary • Payroll

This program provides all the forms, programs, and procedures necessary to perform the payroll function. Menu orientation makes this system easy to learn and simple to use. With the system's effective error reporting and interactive editing of input information, most errors can be identified and corrected at data entry. The program prevents most errors from ever reaching the main system.

Reviewed annually by outside accountants, this system has a complete, easy-to-follow audit trail and is continually kept up to date. Comprehensive reporting includes year-to-date and quarter-to-date registers, preliminary and final payroll journals, earnings and labor distribution reports, deductions reports, and a variety of reports on historical information.

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The program may be run stand-alone or may be interfaced with a companion general ledger system. The documentation includes detailed operating procedures, flow diagrams, file layouts, report samples, program operating instructions, and a dictionary of data and terms used in the system. Complete support and training are available.

A version of this product is available for the VAX computer.

Price: \$2,500 – \$7,500

Contact: Bob Sharp, General Manager
(512) 734-4366

PLYCOM SERVICES, INC.
P.O. Box 380465
San Antonio, TX 78280

Payroll (Canadian)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Employment • Payroll • Personnel
• Report writer

The Payroll system provides:

- **Flexible formatting:** The user has flexibility in the selection of deductions, benefits, personnel information, department, and union data. Since the system is totally table-driven, information can be selected on an employee-by-employee basis.
- **Multiemployees types:** The Payroll system provides for hourly, staff, and executive employees. For each of those payroll types, the user can run Payroll on a weekly, biweekly, monthly, and semimonthly basis.
- **Free-format payroll checks:** The system provides for a free-format payroll stub. The stub contains weekly as well as year-to-date totals.
- **Labor distribution:** Direct labor expense is distributed on a daily basis through a payroll time recording program.
- **Indirect expense allocation:** The Payroll Master File provides for automatic distribution of indirect labor to up to four general ledger accounts. Those allocations are done on a percentage basis.
- **Personnel information:** The Employee Master File contains a series of fields for personnel information. For example, you can record lay-off dates, rehire dates, UIC information, and so on.
- **UIC data:** The Payroll system records the last 52 weeks' pay for each employee for purposes of UIC separation certificates.
- **Complete reporting:** The Payroll system provides for detailed audit trails, a prepayroll register that gives the user an exact picture of what net pays and deductions will be in a given payroll, and payroll distribution reporting as well as automatic T4 preparation.

A version of this product is available for the VAX computer.

Price: \$2,000 – \$10,000

Contact: Tom Muskiluke
(519) 893-4200

DIGITAL BUSINESS COMPUTERS
133 Manitou Drive
Kitchener, Ontario N2C 1L4
Canada

Payroll System

Operating System: CTS-300, RSTS

Keywords: • Data entry • Financial management • Payroll
• Taxes

This interactive and multiprocessing program provides employee master file maintenance, P/R data entry, P/R check printing, P/R register, and 941-A or W-2 report printing. Output reports include an employee master record; registers for preliminary P/R, earnings, deductions, tax deductions, and year-to-date P/R; monthly earnings summary; and labor distribution.

This system allows on-line editing and validation of data entered. Password entry into the system and employee master file is required so that only assigned employees may access files. Net pay is automatically calculated, based on payroll data in the employee master file. Regular hourly or salary rates may be overridden at time of payroll data entry. Six automatic deductions and 1-time deductions are provided. Deductions may be taken as dollar amounts or as a percentage of gross earnings.

The BAKCO Payroll System is a full stand-alone system and is also compatible with BAKCO's financial control applications.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Jerry Baker, President
(312) 956-1053

BAKCO DATA, INC.
85 W. Algonquin Road, Suite 190
Arlington Heights, IL 60005

PAYSOLVE (Payroll)

Operating System: RSTS

Keywords: • General ledger • Payroll • Report writer
• Security

PAYSOLVE is a comprehensive, easy-to-operate payroll package meeting all existing statutory requirements. PAYSOLVE can be used for weekly, fortnightly, monthly, lunar monthly, and quarterly payrolls and year-end procedures. The package offers full up-to-gross calculation, including 99 pay elements, such as overtime, holidays,

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sickness, bonuses, and so on, as well as complete gross-to-net calculation — tax, NI up to nine pension schemes, rounding. Open-format payslips, checks, analyses, summaries, and so forth, are provided, as are user-generated reports and maintenance procedures. Security is maintained through passwords and checks on nonpaid/highly paid staff. Full SSP facilities and BACS are provided. Also available are optional labor costing and automatic normal ledger interfacing (onto SCC General Package or FINCON/IMPCON).

A version of this product is available for the VAX computer.

Price: £3,000 – £10,000

Contact: M. J. Bradley, Sales and Marketing Manager
0905 53335

STAVELEY COMPUTING
Blackpole Road
Worcester WR3 8TH
United Kingdom

PCAS (Project Cost and Accounting Software)

Operating System: RSTS

Keywords: • Cost accounting • Financial analysis
• Menu handlers • Project management

Project Cost and Accounting Software, a fully integrated system for architects, engineers, and professional service organizations is menu driven with on-line help and includes project cost/auto billing, accounts payable, general ledger, accounts receivable, and payroll modules. Data is entered into the system with on-line verification of codes, such as customer and vendor numbers, and can be listed out in user-selected formats for verification prior to updates. Source information is entered once and appropriate files are modified automatically. Reports can be viewed from terminals, printed, or saved on disk, providing a complete audit trail from the original entry of data to the detailed trial balance and review copies of financial statements. The system maintains an operations log of all programs executed, showing operator, date/time, terminal, and description of work performed, ensuring confidentiality and control of the accounting information in your organization.

Price: \$5,000 – \$20,000

Contact: Chuck Sargent, Software Sales Representative
(714) 970-1515

DATA PROCESSING DESIGN, INC.
1400 North Brasher
Anaheim, CA 92807

Perspective/500 Accounts Payable

Operating System: RSTS

Keywords: • Accounts payable • Cost accounting
• Financial analysis

The Accounts Payable System, based on Perspective, provides accurate accounts payable controls through journal entry of vendor invoices and adjustments. The primary output is checked with additional outputs of vendor trial balance, check register, and cash distribution analysis.

All processing is initiated through on-line interactive video terminals that not only produce the basic reports but also allow for updating the vendor master file. Manual checks can be entered directly into the system and then flagged by the Data Base Utility program.

A version of this product is available for the VAX computer.

Price: \$15,000 – \$50,000

Contact: Michael B. Andelman, President
(312) 953-2220

LIOCS CORP.
246 E. Janata Boulevard
Lombard, IL 60148

Perspective/500 Accounts Receivable

Operating System: RSTS

Keywords: • Accounts receivable • Billing
• Financial analysis

The Perspective Accounts Receivable system is an open-item accounts receivable system in which invoices are calculated and then posted to the customer's account file. These customer accounts can be processed by the on-line cash receipts and adjustments program, in which the operator is prompted conversationally to enter the cash receipts. As the receipts are processed, invoices in the customer file are updated. Provision exists for standard discount terms and paying with invoice discounts. The application of cash may be done on a single-invoice basis or automatically, based on invoice age with or without operator override.

After the cash entry, a cash receipts journal is printed, showing the invoice current balance, the remittance amount, and other appropriate data. An aged trial balance can be run at any time, with selection options for customer accounts, showing the original invoice amounts, payment history, current balance, and applicable discounts. These options are put into a current, over-30-, over-60-, or over-90-day column. At the end of the account, totals and the current status of the customer will be shown.

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In addition to the cash receipts journal print and the accounts receivable aged trial balance report, a statement print program is provided to print aged statements. Statements can be selected by customer range, minimum age, or minimum balance. Provision is made in accounts receivable processing to carry unapplied cash and credits.

A version of this product is available for the VAX computer.

Price: \$15,000 – \$50,000

Contact: Michael B. Andelman, President

(312) 953-2220

LIOCS CORP.

246 E. Janata Boulevard

Lombard, IL 60148

Perspective/500 General Ledger

Operating System: RSTS

Keywords: • Financial planning • General ledger • Inventory
• Order entry

The Perspective General Ledger system provides accurate control to the General Ledger accounts, with facilities for updating, verifying, maintaining, and reporting account information.

Data input to the system is an automatic by-product of billing, accounts receivable, accounts payable, and payroll. A Journal Entry program updates account balances and produces a journal of transactions. The status of the accounts is verified through the display and validity test capabilities of the Trial Balance program. A financial Report Writer program provides an Income Statement and a Balance Sheet. Other reports and operating statements as required can be established without additional programming. Data maintenance is accomplished through the Data Base Utility program and a Monthly Update program. Maintenance includes addition and deletion of accounts or account information as well as monthly removal of excess detail information. All accounting is based on multidivisional or multicompany accounting controls with consolidation for financial reporting.

A version of this product is available for the VAX computer.

Price: \$15,000 – \$50,000

Contact: Michael B. Andelman, President

(312) 953-2220

LIOCS CORP.

246 E. Janata Boulevard

Lombard, IL 60148

PF (Payroll Facility)

Operating System: RSTS

Keywords: • Data entry • Diagnostics • Payroll • Taxes

The Payroll Facility is a software package that controls the normal payroll procedures. It includes:

- Data entry for personnel file, time records (hours per project), and tax table information
- Journalization of all posting and disbursing activity
- Employee account analysis
- Payroll register (by department or employee)
- Payroll distribution by project
- Comprehensive payroll deduction and credit mechanism
- Selectable payroll disbursement (check writing)
- Multiple check formats
- Check-voiding procedures
- Check register journal
- Automatic W-2 forms
- Data base inquiry and maintenance
- Error checking and correction

If the Payroll Facility is used in conjunction with the General Ledger Facility, automatic posting of payroll transactions to the general ledger is available.

The Payroll package is designed for high efficiency and ease of use to meet the total interactive computing needs of the small business, corporate division, or institution. PF ensures the integrity of accounting procedures and security of data. All programs have individual password protection, which limits their use to authorized personnel.

A version of this product is available for the VAX computer.

Price: \$5,400

Contact: Muriel King

(801) 224-5306

CLYDE DIGITAL SYSTEMS, INC.

3707 N. Canyon Road, Suite 3-E

Provo, UT 84604

PHENIX Accounts Payable

Operating System: CTS-300, RSTS, RT-11, UNIX

Keywords: • Accounts payable • Billing • Financial analysis
• General ledger

One of a series of fully integrated management accounting packages, PHENIX Accounts Payable facilities include full reporting and analyses, inquiry facility to individual accounts, integration with general ledger, an optional invoice register (prior to authorization), payment by selection or deferral, customized reports, full audit features, and supplier file and expense account maintenance.

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Price: Available upon request

Contact: L. McCloskey
(44) 232-247433

SOFTWARE IRELAND LTD.
26 Linenhall Street
Belfast BT2 8PJ
Ireland

PHENIX Accounts Receivable

Operating System: CTS-300, RSTS, RT-11, UNIX

Keywords: • Accounts receivable • Credit • Financial analysis
• Report writer

One of a series of fully integrated management accounting packages, PHENIX Accounts Receivable facilities include full reporting of analyses by customer, salesperson, area, type; an inquiry facility to individual accounts; reports on request, including credit control; integration with general ledger; automatic ledger posting; and statements and summaries.

Price: Available upon request

Contact: L. McCloskey
(44) 232-247433

SOFTWARE IRELAND LTD.
26 Linenhall Street
Belfast BT2 8PJ
Ireland

PHENIX General Ledger

Operating System: CTS-300, RSTS, RT-11, UNIX

Keywords: • Financial analysis • General ledger
• Report writer

PHENIX General Ledger facilities include flexible coding and formatting, open item, user-definable accounting periods, up to 999 cost centers, summary P + L figures as well as detailed breakdown, on-demand trial balance, full printed audit trail, and customized reports.

Price: Available upon request

Contact: L. McCloskey
(44) 232-247433

SOFTWARE IRELAND LTD.
26 Linenhall Street
Belfast BT2 8PJ
Ireland

PHENIX PASS

Operating System: CTS-300, RSTS, RT-11, UNIX

Keywords: • Cost accounting • Query facilities • Report writer
• Taxes

PASS is an assets accounting system that features:

- Complete register of assets
- Historical or current cost methods
- Various depreciation bases
- Interface to nominal ledger
- Group assets, consolidations, transfers, and part disposal
- Comprehensive reports
- Inquiry facilities
- Reminders

Price: Available upon request

Contact: L. McCloskey
(44) 232-247433
SOFTWARE IRELAND LTD.
26 Linenhall Street
Belfast BT2 8PJ
Ireland

Plycom Core Accounting Systems

Operating System: RSTS

Keywords: • Accounts payable • Accounts receivable
• General ledger • Payroll

These simple yet flexible packages were designed by accountants for use by accountants. Operation is interactive, uses extensive prompting, and fully utilizes RSTS/E and VMS yet retains security and ease of recovery of batch and manual systems. Batch controls are on all data, accounting controls are preserved, interim data is held separate until verified and then passes into the regular files, an excellent audit trail exists throughout, and the file and report structure divides information into the user's own traditional accounting periods.

The packages support basic accounting requirements as well as multiple divisions, multiple profit centers, or multiple companies, allowing growth without restricting established accounting practices. Features include:

- Accounts receivable — Complete receivables control via varied account reports; on-line inquiry by customer number or name, flexible yet controlled entry of cash receipts, numerous customer options (balance forward or open item, customer type, credit limit, and so on).
- Payroll — Easy maintenance of employee records; multipayrolls possible, labor distribution reports by distribution code or pay type (regular, premium, and other) within department and division, excellent printer control for special forms, user-defined deduction and labor codes.

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- Accounts payable — Complete control over discounts, payment scheduling, and cash requirements forecasting; flexible reporting includes past history as well as current information and excellent printer control for special forms.
- General Ledger — On-line availability to all journal entries and purchase distributions for entire fiscal year; account inquiry for detail or balances automatically feeds Financial Reporting Package; complete audit trail from journal entry to Financial Reports includes trial balance and trial balance in 10-column worksheet format for easy period reconciliations.
- Financial reporting — Complete flexibility in statement formatting; multiple formats are easy, with automatic feeding from regular, history, or budget general ledgers; comprehensive multientity reporting with multilevel consolidations, eliminations, or adjustments.
- Fixed assets — Comprehensive system includes all the programs, forms, and procedures necessary for complete asset reporting; accommodates reporting assets for both book and tax purposes and includes depreciation forecasting and an automatic interface to the General Ledger.

A version of this product is available for the VAX computer.

Price: \$3,000 – \$35,000

Contact: Bobby E. Sharp
(512) 734-4366

PLYCOM SERVICES, INC.
P.O. Box 380465
San Antonio, TX 78280

P/R (Payroll)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Payroll • Report writer

This payroll package handles both hourly and salaried employees and includes the following capabilities:

- Allows maintenance of employee master file and prints the employee file printout, the alphabetical employee list, alphabetical employee mailing labels, and employee time card labels
- Allows entry and editing of payroll attendance transactions and prints the payroll attendance edit list
- Calculates the payroll, including gross wages, taxes, and deductions; prints payroll checks in one of two formats; and prints payroll check distribution summary and the payroll check, savings bond, and union deductions registers
- Allows entry of payroll adjustment transactions and prints the manual payroll transaction register
- Prints the payroll to G/L distribution and the payroll history reports and provides for history data to be preserved off line
- Prints the overtime and sick pay, the job class/equal opportunity, the state taxable wages, and city withholding tax reports

- Allows payroll check reconciliation that uses the same files as A/P check reconciliation
- Prints quarterly 941A forms and year-end W-2 and 1099 forms
- Allows interactive entry and editing of general ledger account information by department and federal and state tax percents, limits, and withholding tax tables
- Interfaces to two other MCBA packages
- Allows full printer spooling capability at the user's option
- Supports seven terminal types, including the VT100 in both ANSI and VT52 modes
- Provides security and supports multiple companies

A version of this product is available for the VAX computer.

Price: \$2,000 – \$3,000

Contact: Sales Representative
(818) 957-2900

MCBA, INC.
2441 Honolulu Avenue
Montrose, CA 91020

Practice Management

Operating System: COS-310, CP/M, CTS-300, RSTS, UNIX

Keywords: • Accounts receivable • Billing • Management
• Report writer

The Practice Management system does the following:

- Simplifies recording and reporting of time and expenses
- Accommodates firms with more than one office
- Tracks clients on an engagement-by-engagement basis
- Offers progress billings or final billings
- Allows for the writing up or writing down of charges
- Generates both statements and invoices

In the system, clients are stored by billing responsibility. The reports and management analyses are printed to monitor staff, clients, work codes, and profit areas in the firm. All reports come out by billing responsibility or for the firm or for a particular branch.

The system maintains a fiscal year billing history, which is used to analyze current clients and also to project the budget for the coming year.

A version of this product is available for the VAX computer.

Price: \$1,500 – \$7,500

Contact: Marc Alexander, National Sales Manager
(503) 641-8100

ALPINE DATASYSTEMS, INC.
8043 SW Cirrus Drive
Beaverton, OR 97005

Practice Management

Operating System: CTS-300, RT-11

Keywords: • Accounts receivable • Billing • Law
• Scheduling

The Practice Management System gives the firm requiring a detailed breakdown of time and billing information the ability to break a client's work in process down to particular matters or engagements. Since a matter classification is often used by attorneys, many accountants find that the Practice Management System allows them to process time and billing for some of their attorney clients. This can make the Practice Management System a source of revenue as well as a tool for managing the accounting firm.

The Practice Management System has all the features of the Time and Billing System, as well as multiple-office breakdown capability; 4-digit matter number and 10-digit user-definable sort codes; 999 user-definable billing codes; open-item accounts receivable; automatic invoicing capability — eight invoice formats; statement preparation; production reports and work-in-process reports by client, by matter, or by employee; transaction history file for future scheduling; automatic retainer billing, realization rate, and percentage report; and four billing adjustment allocation methods.

A version of this product is available for the VAX computer.

Price: \$4,500

Contact: Bob Spowls

(904) 434-2685

DIGITAL SYSTEMS OF FLORIDA, INC.

114 E. Gregory Street

Pensacola, FL 32501

Project Cost/Autobilling

Operating System: RSTS

Keywords: • Billing • Cost accounting • Financial analysis
• Project management

Project Cost/Autobilling software shows detailed project progress and financial analysis information and aids preparation of client billings. The module maintains data concerning ongoing projects and tasks at the discipline, phase, and activity levels. Project Cost software collects project-related costs (from accounts payable) and maintains a transaction history of labor and expense costs in detail. The module features labor distribution entry with the optional ability to prepare payroll checks and handle other pertinent data from the project labor entries. Detailed expense transactions in accounts payable and general ledger are fed into project cost, reducing the number of entries required and allowing invoices and management reports to be easily prepared. Project cost software reports profitability on a project-by-project basis, and

a variety of compensation methods may be used for billing services-rendered projects. The status of each project is reported by task and with comparisons to original estimates.

Price: \$5,000 – \$20,000

Contact: Chuck Sargent, Software Sales Representative
(714) 970-1515

DATA PROCESSING DESIGN, INC.
1400 North Brasher
Anaheim, CA 92807

PTB (Professional Time and Billing)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Billing • Engineering • Law • Report writer

This Time and Billing package for lawyers, accountants, engineers, software houses, and other professional firms that need to account for and/or bill their time and expenses includes the following capabilities:

- Allows maintenance of the producer, billing code, matter type, and client and matter files.
- Allows entry and editing of time and expense transactions.
- Prints the reported time summary, the work-in-process report, and client statements.
- Allows for automatic calculation of periodic charges.
- Provides flexible billing procedure.
- Prints the current billing distribution by reporting producer and by matter report.
- Automatically updates the aged balance forward accounts receivables upon billing.
- Allows entry and editing of cash receipts and other accounts receivable adjustments.
- Prints the aged accounts receivable by responsible producer.
- Produces nine additional analysis reports.

Price: \$2,500 – \$3,000

Contact: Sales Representative
(818) 957-2900

MCBA, INC.
2441 Honolulu Avenue
Montrose, CA 91020

Purchase Order Accounting

Operating System: ULTRIX, UNIX

Keywords: • Manufacturing • Property management
• Purchasing

This fully integrated on-line, multiuser UNIX*-based purchase order accounting system prepares purchase orders, maintains records of expected delivery dates, accepts receipts information, and provides reports of items that need review. The system provides for multiple

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receipts, partial receipts, back orders, returns, allowances, adjustments, and items damaged during shipment. Open-order analysis reports are available by product, vendor, or buyer. A change-in-status report by item can be produced, showing open purchase orders at start of period, new orders, receipts, and open purchase orders at end of period. That order can be organized by item, by item within vendor, or by item within buyer. Future orders may be entered, and stock requirements reports can be printed to assist with long-range manufacturing plans.

Also available are a print key providing hard copy of any screen image via the system printer, true multiuser design for concurrent program use, built-in multicompany/multidivision support, and user-assigned predefined company/division or user-allowed option to specify company/division.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$3,000 – \$6,000

Contact: Laurel McDaniel
(312) 332-3242

NEAL NELSON & ASSOCIATES
185 N. Wabash, Suite 1908
Chicago, IL 60601

Purchasing Control System

Operating System: CTS-300, RSTS

Keywords: • Accounts payable • Accounts receivable
• Inventory • Purchasing

The BAKCO Purchasing Control module creates, controls, and tracks purchase orders. The system tracks receipts against purchase orders and integrates vendor ordering and receiving information with inventory and accounts payable records.

The Purchasing Control module generates regular, drop-ship, blanket, and no-charge purchase orders. Upon entry of the purchase order data, each inventory item dynamically affects the inventory status. Both stocking and nonstocking items can be purchased from a vendor on the same purchase order.

Purchase orders show due date for each inventory item and special comments for any line item, and each item is priced and extended. Open purchase orders can be modified and generated when necessary.

Extensive purchase order status reporting can be prepared by vendor, purchase order number, item number, due date, or buyer. You can sort all purchase orders for a selected vendor.

Receiving reports can be printed at the receiving dock and show not only what is to be received, but also where the merchandise is to be stored. If partial receipt occurs, receiving reports can be reprinted, showing only those items still open.

Cash commitment reports can be produced, showing when payment should be due on all open purchase orders. The cash commitment report ages each vendor and provides grand totals.

The BAKCO Purchasing Control System may be integrated with our warehouse distribution application.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Jerry Baker, President
(312) 956-1053

BAKCO DATA, INC.

85 W. Algonquin Road, Suite 190
Arlington Heights, IL 60005

PY-11 (Payroll)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Payroll • Personal computing • Personnel
• Taxes

PY-11 features immediate on-line calculation of all pay, deductions, and net check. PY-11 also calculates an unlimited number of deductions/extra pay allowed, with totals for dollars and hours accumulated, and has parameter-driven check formatting that accommodates almost any check design. PY-11 also has table-driven tax tables for both federal and state taxes, multiple pay rates for each employee, recurring deductions and/or extra pay amounts, and special user-defined pay/deduction types. The software will calculate additional withholding, automatic cut-off of extra pay/deductions by dollar amount or ending date, governmental reporting — 941 information, state unemployment form, W-2 forms, managerial reporting — salary review, rate changes, and terminated employees report, earned income credit, and tips required to reach minimum wage. PY-11 can be adapted to Canadian payroll requirements.

PY-11 interfaces to GL-11 General Ledger and Financial Reporting System and the CN-11 Job Cost System.

Reports include check register, historical check register, QTD/YTD earnings report, automatic pay/deductions, general ledger distributions, earnings by payroll code, quarterly report, W-2 forms, rate review, rate change, and terminated employees.

A user's guide includes information for the office manager, the terminal operator, and the application manager. A reference manual includes installation procedures, program flows, and data formats for the system manager and the programmer.

A version of this product is available for the VAX computer.

Price: \$3,000 – \$4,000

Contact: Larry Landusky, Marketing
(806) 792-3785

COMPU-SHARE, INC.
3824 50th Street
Lubbock, TX 79413

RABBIT-1 (Resource Accounting, Auditing, and Billing System)

Operating System: RSTS, RSX

Keywords: • Accounts receivable • Billing • Report writer
• Service industries

RABBIT-1 audits, accounts for, and allocates computer usage to individuals, groups, projects, or customers. Those users can be real accounts receivables, like a service bureau. Or, RABBIT-1 can be used to budget in-house system resource consumption.

RABBIT-1, a session-accounting system, keeps such up-to-date session data details as date, log-on time, connect time, and CPU. That audit trail gives accountants and auditors detailed invoicing backup and system security. Furthermore, RABBIT-1 calculates such charges as tape storage, equipment rental, manuals, communication costs, printer forms, and programming services. That added chargeback capability makes organizing and accessing data usage easier and quicker.

RABBIT-1 has a powerful report generator that provides summaries, subtotals, recaps, and cross-footing for complete control of usage data. Three main report levels — user, account, and recap — help communicate to customers or users very effectively. The summary report prints out as either an invoice or a statement. RABBIT-1 users may design that report and others as required. The detail report is a tabular-type report. It optionally lists each charge according to how much information is to be shown. The recap report is used to summarize information across accounts. Those reports — user, account and recap — along with many others, help present technical data in terms that nontechnical persons can understand. All reports can be modified without reprogramming. Other RABBIT-1 reports include project accounting, disk file usage, communication analysis, tape storage rental, program usage/surcharge, production throughput, budget-to-date, printer usage, and end-of-session.

Menu-driven set-up procedures make installation quick and easy. Automatic prompting and HELP commands make RABBIT-1 easy to set up, maintain, and modify. Along with free remote installation, RAXCO provides free enhancements, technical support, and training.

A version of this product is available for the VAX computer.

Price: \$1,995 – \$5,995
Contact: Joseph Musler
 (301) 258-2620
 RAXCO, INC.
 1370 Piccard Drive
 Rockville, MD 20850

RABBIT-2

Operating System: RSTS, RSX

Keywords: • Graphics • Operations • Report writer
 • Service industries

RABBIT-2 is a performance analysis and capacity planning tool. Bar charts and graphic displays show how much you use system components and peripherals. Charts show your system performance hour by hour, user by user, or program by program. Sketches show a profile of your average system day, your average user demands, and your average program resource requirements, even projections of your future computer needs.

System programmers, operations managers, and DP management all benefit from RABBIT-2 data. The system's output is directed to a user's terminal, printer, or plotter, where resource usage appears in graph and bar chart form. That resource usage information is gathered by using interactive English-like commands. RABBIT-2 accepts more than 100 command functions.

You can get RABBIT-2 for image or program analysis. You choose the time interval (seconds, minutes, hours, days) and time period. For example, you can analyze resources such as CPU, BIO, DIO, PWS, FAU, QIO, PAGES, and ELAPSED time. Then, after modification, you can review a program for efficiency percentages. Thus, you can see the true needs of a program and can pinpoint your capacity needs.

You can use RABBIT-2 monitor data as input to get systemwide demand graphs, plus user or program demand requirements. RABBIT-2 even gives you minute-by-minute "time-frame" graphs, monitor "snapshots" that detail each use of the system. RABBIT-2 takes that material and converts cumulative resource usage values to intervals specified to get true time interval reporting. RABBIT-2 can help you determine relative response time under various circumstances. It reports the reality rather than the subjective user impression; that accuracy is important to the successful use of your system.

RABBIT-2 generates three basic categories of report: time interval, rank, and profile. The time interval report is a horizontal or vertical bar chart of resource usage. The rank report lists resource consumption by user or program in decreasing statistical order and also ranks usage by ratio, such as CPU per connect hour. The profile report lists all entity names in the active data set, sums up all statistics, and shows you the percentage breakdown for each statistic by process type.

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A version of this product is available for the VAX computer.

Price: \$1,995 – \$4,995

Contact: Joseph Musler
(301) 258-2620
RAXCO, INC.
1370 Piccard Drive
Rockville, MD 20850

Radiology Accounts Receivable Management System

Operating System: CTS-300, RT-11

Keywords: • Accounts receivable • Insurance • Medical
• Report writer

The system, specifically designed for radiology by Radiology Business Management Consultants, performs all billing and insurance-processing functions and provides a multitude of user flexibility. One account and one statement are produced for each patient no matter at which location of service the charge originated, eliminating duplication of accounts and unnecessary postage and handling. As few as one or as many as 26 locations of service may be handled. The system facilitates Medicare, Medicaid, Blue Shield, Workmen's Compensation and general insurance filing and follow-up under program control and refiling by demand. Medicare and Blue Shield insurance is filed computer to computer over telephone lines in selected states.

The system also provides a collection system from in-house status to the print of collection notices to bad debting performed automatically on selected accounts upon request.

Many management reports may be produced by location of service. Also available are Reading Physician Statistical Reports, Volume Reports, and an Ad Hoc Report capability on all charge, payment, and adjustment transaction information.

Price: \$12,000 – \$18,500

Contact: Jan E. Powell or Roy Maloy, D.P.A., Vice President
(904) 878-6568

MEDICAL, EDUCATIONAL AND GOVERNMENTAL
APPLIED SYSTEMS (MEGAS) CORP.
2536 Capital Medical Boulevard
Tallahassee, FL 32308

Random Number Generator

Operating System: CTS-300, RSX, RT-11

Keywords: • Mathematics • Statistics

This program enables the accountant preparing for an audit to quickly and easily select random samples of checks, invoices, journal entries, and so on. No longer must random-number tables be consulted and lists prepared manually.

The basis for generating the random-number tables is a seed number, an unbiased 6-digit number, such as your birth date or the hour of the day. Optionally, the system will generate the seed number if manual entry is not desired.

The DSF Random Number Generator offers simplicity of operation and automatic reporting and provides for a valid statistical sampling of transactions. The system features:

- Menu application selection
- Generation of up to 100 random-number schedules per batch
- Sample size range to four digits
- User-selected output — unsorted output without sequence numbers, sorted output with or without sequence numbers, unsorted and sorted output
- User-selected formats — nonoverlapping series, overlapping series, page/number series, alphanumeric series

A version of this product is available for the VAX computer.

Price: \$350

Contact: Bob Sprowls
(904) 434-2685

DIGITAL SYSTEMS OF FLORIDA, INC.
114 E. Gregory Street
Pensacola, FL 32501

RAS (Receivable Accounting System)

Operating System: RSTS

Keywords: • Accounts receivable • Billing

This financial and administrative package is designed for use within colleges, universities, school boards, municipalities, and paragonovernmental agencies. RAS features centralized, on-line cash receipts; open-item accounts receivable; multiinvoicing system capability; multilevel inquiry; automatic interface to BAS (Budgetary Accounting System); user-defined interest calculation parameters; and automatic application of open credit notes.

A version of this product is available for the VAX computer.

Price: \$15,000 (Canadian)

Contact: Dennis Sakamoto
(416) 433-2100

S.R.B. INTERNATIONAL LTD.
Whitby Corporate Centre
209 Dundas Street E., Suite 205
Whitby, Ontario L1N 7H8
Canada

RealWorld™ Accounts Payable

Operating System: RSX, RT-11, ULTRIX, UNIX

Keywords: • Accounts payable • General ledger
• Office systems • Report writer

This accrual Accounts Payable system for small businesses provides rapid access to and control of cash out-flow data. The system defines A/P aging periods and G/L accounts to which distributions can be made, as well as sets the parameters of reports to fit company needs.

The program does the following:

- Maintains vendor files and lists
- Allows entry, editig, and posting of new payables, adjustments, cancellations, and prepaids, with edit list and journal
- Prints the open-item and cash-requirements reports
- Allows on-line vendor account inquiry
- Allows flexible payment selection, including partial payments, with precheck writing report
- Prints A/P checks and the check register
- Prints the A/P distributions to the General Ledger and the vendor analysis report
- Interfaces to the RealWorld General Ledger or may be used stand-alone
- Includes password protection, extensive data file integrity check, and backup/restore facilities

A version of this product is available for the VAX computer.

Price: \$795

Contact: Larry Wilber
(603) 798-5700
REALWORLD INC.
Dover Road
Chichester, NH 03263

RealWorld™ Accounts Receivable

Operating System: RSX, RT-11, ULTRIX, UNIX

Keywords: • Accounts receivable • Billing • Report writer
• Sales and marketing

This open-item and balance-forward Accounts Receivable system for small businesses contains user-definable parameters that tailor the system to fit company needs.

The system does the following:

- Provides maintenance and lists of both salesperson and customer files
- Allows sales transactions entry, editing, and posting, with edit list and journal
- Allows cash receipts entry, editing, and posting, with edit list and journal

- Prints the aging report and statements
- Allows on-line customer account inquiry
- Calculates and posts finance charges, with edit list and journal
- Controls sales commissions due and prints the commissions due report
- Prints A/R distributions to the General Ledger
- Interfaces to the RealWorld General Ledger or may be used stand-alone
- Includes password protection, extensive data file integrity check, and backup/restore facilities

A version of this product is available for the VAX computer.

Price: \$795

Contact: Larry Wilber
 (603) 798-5700
 REALWORLD INC.
 Dover Road
 Chichester, NH 03263

RealWorld™ General Ledger

Operating System: RSX, RT-11, ULTRIX, UNIX

Keywords: • Financial management • General ledger
 • Inventory • Office systems

This flexible general ledger system for small businesses provides for customer formatting of financial reports to assist in financial management.

The system does the following:

- Handles up to 13 accounting periods
- Supports multiple profit centers
- Maintains and lists chart of accounts
- Allows general and standard journal transaction entry, editing, and posting, with edit list and journal, and on-line G/L account detail inquiry
- Prints the trial and working trial balances, the source cross-reference report, and the financial statements in flexible, user-defined formats
- Allows transaction detail to be kept for the year, if disk space is available, and has a flexible year-end closing procedure
- May be interfaced to the RealWorld Accounts Receivable, Accounts Payable, and/or Payroll systems
- Includes password protection, extensive data file integrity check, and backup/restore facilities

A version of this product is available for the VAX computer.

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Price: \$795

Contact: Larry Wilber
(603) 798-5700
REALWORLD INC.
Dover Road
Chichester, NH 03263

RealWorld™ Order Entry/Billing

Operating System: RSX, RT-11, ULTRIX, UNIX

Keywords: • Accounts receivable • Billing • Inventory
• Order entry

The Order Entry system runs in conjunction with RealWorld's Account Receivable and Inventory Control systems. It provides both 1- and 2-step billing procedures.

The system does the following:

- Allows orders to be entered and edited and, on request, prints the order edit list
- Invoices orders on entry (1-step billing) or holds them as open orders for later billing (2-step billing)
- Adjusts inventory levels interactively during order entry
- Prints picking tickets, invoices for all orders billed, and the price list
- Enters credit memos on request
- Has back-order retention and control and prints back orders by item and/or back orders by customer reports
- Posts inventory information to the RealWorld Inventory Control system
- Posts billing information to the RealWorld Accounts Receivable system
- Optionally interfaces to the RealWorld Sales Analysis system, providing that system with data required for sales analysis by item, sales analysis by product category, and sales analysis by sales volume reports
- Optionally interfaces to the RealWorld General Ledger system via Accounts Receivable and Inventory Control

A version of this product is available for the VAX computer.

Price: \$795

Contact: Larry Wilber
(603) 798-5700
REALWORLD INC.
Dover Road
Chichester, NH 03263

Reporter

Operating System: CTS-300, RSX, RT-11

Keywords: • Financial planning • Report writer • Simulation

Digital Systems' Reporter is a full-featured report generator for use with any DSF software. Reporter allows the user to custom design almost any type of report. When Reporter is used with the many reports supplied by DSF software, the accountant can produce a wide variety of useful management reports.

Some features of Reporter are:

- Easy-to-use menu-driven operation
- Multifile access capability
- Line-by-line report definition
- Up to nine levels of totals
- Autoformatting or user formatting of print positions of all data elements
- Run-time specification of ranges of data
- Conditional checking (greater than, less than, and so on) of data elements against a constant or other data element

Price: \$2,500

Contact: Van Morris

(904) 434-2685

DIGITAL SYSTEMS OF FLORIDA, INC.

114 E. Gregory Street

Pensacola, FL 32501

RMS-7

Operating System: RSTS

Keywords: • Banking • Credit • General ledger

ECOM Systems provide turnkey systems to credit unions and banks. The basic credit union system provides for the processing of share, loan, and certificates. Optional modules include general ledger, ATM (proprietary and switch), audio response, and automated share draft.

A version of this product is available for the VAX computer.

Price: \$35,500 – \$1,000,000

Contact: Jack Kreamer, Vice President

(901) 794-5501

ECOM SYSTEMS, INC.

2500 Mt. Moriah Road, Suite 720

Memphis, TN 38115

SACCPAY (Accounts Payable Package)

Operating System: CTS-300, RT-11

Keywords: • Accounts payable • Audit • Financial analysis

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The Accounts Payable Package keeps track of your outstanding invoices, generates checks to pay those invoices according to various user-selectable parameters, and keeps historical records of your purchases throughout the year. An easily maintained Vendor Master File records not only the name and address but also the phone number and contact name, making this file a handy tool for purchasing departments when placing orders. The package has full audit trail capabilities, as well as Aged Analysis, Open Item, and Purchasing Detail reports. Distribution and inventory codes are handled. A custom Check Printing Program can handle your complete accounts payable needs. We can create custom enhancements to “fine tune” this system to suit all your requirements.

Price: \$3,500

Contact: David Simmons
(705) 737-2011

SIGMATICS COMPUTER CORP.
89 Collier Street, P.O. Box 1046
Barrie, Ontario L4M 5E1
Canada

SACCREC (Accounts Receivable Package)

Operating System: CTS-300, RT-11

Keywords: • Accounts receivable • Audit

The Accounts Receivable Package is designed for flexibility. The invoice and cash receipt batch data entry programs give a complete audit trail, and the Customer Master File is easy to maintain. The system has an automatic service charge capability and handling for debit and credit notes. The package has a wide range of historical and sales summary reports. Division, group, salesperson, customer code, customer class, item, and invoice number in many varied combinations on the reports allow for excellent control and study of your accounts receivable. In addition, we can create custom enhancements to “fine tune” the system to your exact needs.

Price: \$3,500

Contact: David Simmons
(705) 737-2011

SIGMATICS COMPUTER CORP.
89 Collier Street, P.O. Box 1046
Barrie, Ontario L4M 5E1
Canada

Safe Deposit Boxes Billing

Operating System: RT-11, TSX-PLUS

Keywords: • Banking • Billing

This program keeps track of leased and unleased safe deposit boxes and other information about them and handles status reports and billing. With this program, you can easily handle opening and closing boxes, billing and receipts, club accounts discounts, and miniaccounting for rental income, key deposits, and club discounts.

Report generation is available for leased and nonleased boxes, club account boxes, item (box #) and alphabetic listings of box holders, summary of boxes by rental amount, and journal reports of financial activity by entry number range, by date, and by account.

Safe Deposit Boxes System can save your staff many laborious hours (and yourself payroll dollars).

Price: \$2,000 – \$5,000

Contact: Leland T. (Tom) Smith, President
(512) 692-0953

DATA PROCESSING SERVICES, INC.
8746 Wurzbach Road, Suite 203
San Antonio, TX 78240

Sales Analysis

Operating System: ULTRIX, UNIX

Keywords: • Manufacturing • Property management
• Report writer

This fully integrated on-line, multiuser UNIX*-based sales analysis system allows reports to be prepared in either detail or summary form, based on orders, shipments, invoices, or cash receipts. Reports are available by part number, product category, customer, customer type, state, region, zip code, and salesperson. Cross-reference files by customer, by vendor, by product, by account, and by document allow most reports to be run without having to sort. Reports prompt for a range of fields, so individuals or groups of customers or products can be printed. Reports can compare actual amount against budgeted amount for sales, orders, cash receipts, and so on. Future orders can be entered, and revenue forecasting reports can be generated. Commissions may be calculated at time of order, invoice, or cash receipt. Calculated commissions may be posted automatically to either A/P or payroll systems, if desired.

Also available are a print key providing hard copy of any screen image via the system printer, true multiuser design for concurrent program use, built-in multicompany/multidivision support, and user-assigned predefined company/division or user-allowed option to specify company/division.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

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Price: \$2,500 – \$5,000

Contact: Laurel McDaniel
(312) 332-3242

NEAL NELSON & ASSOCIATES
185 N. Wabash, Suite 1908
Chicago, IL 60601

SGENLED (General Ledger Package)

Operating System: CTS-300, RT-11

Keywords: • Audit • General ledger

The General Ledger Package is designed to be simple to use without sacrificing its handling of virtually any type of business. SGENLED has division-handling capabilities and gives two levels of audit trail: the Edit List of entries in the order of entry and the General Ledger Report of the entries by account, complete with opening and closing balances. The user can format the reporting of assets and liabilities on the balance sheet to give heading and totaling combinations. The Statement of Operations gives sales, cost of sales, income, and expense reporting with the same heading and totaling capabilities. Custom "fine tuning" enhancements are also possible.

Price: \$3,500

Contact: David Simmons
(705) 737-2011

SIGMATICS COMPUTER CORP.
89 Collier Street, P.O. Box 1046
Barrie, Ontario L4M 5E1
Canada

Suspense Ledgers

Operating System: RT-11, TSX-PLUS

Keywords: • Banking • Credit • General ledger
• Report writer

Accounting departments in every large institution often receive debits without credits or vice versa. Many institutions track those lone items by using suspense ledgers, which are really suspense journals. In suspense journals, lone debits are matched with entries in the credit suspense ledger, and lone credits are matched with entries in the debit suspense ledger. Books will thus be balanced until accounts can be debited or credited to match the line entries. Then the old entry is cleared from the appropriate journal, and the correct account is debited or credited. Thus, close tabs can be kept on the amount of money that is in suspense.

The Suspense Ledgers system has facilities for making entries into a ledger (on a TRX file basis), clearing entries from the ledger by entry amount and by entry number, forced clearing of entries by date, and generating reports for outstanding (uncleared) entries, cleared entries, entries in entry-clear order (each entry is followed immediately by the entry that cleared it), and aged suspense entries.

If your institution is in a continual state of suspense, the Suspense Ledgers system can help solve your problem.

Price: \$2,000 – \$5,000

Contact: Leland T. (Tom) Smith, President
(512) 692-0953

DATA PROCESSING SERVICES, INC.
8746 Wurzbach Road, Suite 203
San Antonio, TX 78240

TBS Accounts Payable System

Operating System: IAS, RSTS, RSX, RT-11

Keywords: • Accounts payable • Data entry • General ledger

The TBS Accounts Payable System does the following:

- Maintains full vendor file, including Alphabetical Vendor List, full accounts file, and job file
- Has CRT entry of new payables and CRT inquiry by vendor and automatic voucher number and batch control totals
- Prints A/P Voucher Register
- Distributes payables by G/L account and optionally by job number
- Prints A/P Aged Trial Balance, A/P Distribution report in detail or in summarized form, and Vendor Analysis, A/P Job Distribution, Cash Disbursement, and Cash Requirement reports
- Allows payables to be selected for payment by type or individually, with selected items deferred
- Prints the Check Verification report prior to check printing and prints checks with invoice detail on stubs
- Prints the Check Register, showing all computer-written, hand-written, and voided checks
- Allows use of multiple A/P, cash, and discount accounts
- Has a check reconciliation module
- Automatically interfaces to TBS G/L system

A version of this product is available for the VAX computer.

Price: \$995 – \$2,500

Contact: Chuck Tebbetts
(213) 245-0917

THETA BUSINESS SYSTEMS
1110 Sonora Avenue, Suite 106
Glendale, CA 91201

TBS Accounts Receivable System

Operating System: IAS, RSTS, RSX, RT-11

Keywords: • Accounts receivable

The TBS Accounts Receivable System does the following:

- Handles open-item and balance-forward customers
- Provides full Customer File maintenance with alphabetical list
- Permits discount, tax, and finance charge percentages to be set to a standard default value or set for each customer
- Has separate Terms Code and Ship Code maintenance modules
- Permits on-line entry of sales, CR memos, DR memos, and manual finance charges with batch totals for control of transaction flow
- Prints Sales and Cash Receipts journals
- Permits on-line entry of cash receipts and allows partial payments and payments to more than one invoice
- Provides an A/R Open File that contains full transaction detail
- Prints the Customer Aging Report in detail or summarized form
- Provides CRT Customer Account Inquiry
- Prints Monthly Sales and Monthly Cash Receipts summaries
- Permits statements to be selectively printed with aged totals and a tear-off remittance
- Prints A/R History, Finance Charge, and Salesman Commission Due reports
- Automatically calculates and posts finance charges
- Provides automatic interface to TBS G/L system

A version of this product is available for the VAX computer.

Price: \$995 – \$2,500

Contact: Chuck Tebbetts
(213) 245-0917

THETA BUSINESS SYSTEMS
1110 Sonora Avenue, Suite 106
Glendale, CA 91201

TBS General Ledger System

Operating System: IAS, RSTS, RSX, RT-11

Keywords: • General ledger

This system does the following:

- Maintains a full chart of accounts with a 7-digit account number and a 3-digit subaccount number for profit centers or cost centers
- Permits user-generated wording and formats on financial statements and up to 13 user-defined accounting periods
- Provides CRT entry of G/L transactions, which can be edited prior to posting and with running balance displayed during entry
- Prints G/L Transaction Register
- Automatically distributes transactions to accounts on a percentage basis
- Automatically generates counterbalancing entries

- Handles accrual reversals
- Prints the General Ledger Trial Balance with work space for adjustments
- Prints the General Ledger List, selected by account number or date and with detail or summary
- Prints G/L transaction analysis by source
- Allows CRT inquiry into accounts by period
- Prints Balance Sheet, Profit and Loss Statement, Supporting Schedules, and Source and Application of Funds reports
- Has a recurring-entries module
- Automatically interfaces to TBS A/R, Payroll, and A/P systems

A version of this product is available for the VAX computer.

Price: \$995 – \$2,500

Contact: Chuck Tebbetts
(213) 245-0917

THETA BUSINESS SYSTEMS
1110 Sonora Avenue, Suite 106
Glendale, CA 91201

TBS Order Entry System with Inventory Control, Billing, and Sales Analysis

Operating System: IAS, RSTS, RSX, RT-11

Keywords: • Billing • Inventory • Order entry

TBS Order Entry does the following:

- Features on-line entry of orders and CR Memos
- Permits items to be partially back ordered and partially shipped
- Automatically extends prices and calculates tax and weight
- Produces picking tickets for each order
- Prints daily order log by order number or product number
- Prints Open Order Analysis reports by customer number or product number
- Produces Back Order Analysis reports by customer number or product number
- Maintains separate ship-to addresses
- Changes or deletes orders automatically to adjust inventory

The Billing software selects invoices for printing, adjusts quantity ordered and shipped in Invoice Preparation program, provides interface for invoices and CR Memos to A/R, and prints Invoice Register.

The Inventory Control software provides on-line update of the Product File, which contains a 10-character product number, 3 prices, average cost, QTY on hand, QTY on order, QTY RES, QTY BO, EOQ, ROL, and much more; prints Daily Inventory Activity Register; and prints Purchase Advice report and the price list.

The Sales Analysis produces five reports.

A version of this product is available for the VAX computer.

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Price: \$995 – \$2,500

Contact: Chuck Tebbetts
(213) 245-0917

THETA BUSINESS SYSTEMS
1110 Sonora Avenue, Suite 106
Glendale, CA 91201

TBS Payroll Accounting

Operating System: IAS, RSTS, RSX, RT-11

Keywords: • Payroll • Personnel • Taxes

This fully integrated automated payroll system does the following:

- Maintains Employer Master File containing extensive payroll and personal data and produces Was-Is Report of all transactions
- Permits CRT entry of time worked and editing of transactions
- Provides automatic calculation of gross and net pay for hourly and salaried employees
- Handles regular, overtime, and premium pay rates and all standard pay frequencies
- Calculates vacation, holiday, and sick and miscellaneous pay
- Permits up to eight standard deductions, which may be prioritized and have maximum limits
- Calculates FWT, SWT, FICA, FUI, CITY TAX, and SUI
- Prints paychecks with Payroll Register detailing payroll calculations and prints Check Register
- Prints Labor Distribution, General Ledger Account Distribution, and Hours History reports
- Reconciles outstanding checks
- Prints 941-A, State Tax Registers, and W-2 forms
- Prints Payroll History report
- Allows entry of hand-written checks and can void checks
- Provides automatic interface to TBS G/L system

A version of this product is available for the VAX computer.

Price: \$995 – \$2,500

Contact: Chuck Tebbetts
(213) 245-0917

THETA BUSINESS SYSTEMS
1110 Sonora Avenue, Suite 106
Glendale, CA 91201

TBS Time Accounting for Professionals

Operating System: IAS, RSTS, RSX, RT-11

Keywords: • Billing

The TBS Time Accounting System was designed for a wide variety of professional service organizations. It has great flexibility in the type and manner of transaction entry. A large number of management-level reports are available for analysis of productivity and revenue sources. An interface to the TBS General Ledger system is optional.

A version of this product is available for the VAX computer.

Price: \$995 – \$2,500

Contact: Chuck Tebbetts
(213) 245-0917

THETA BUSINESS SYSTEMS
1110 Sonora Avenue, Suite 106
Glendale, CA 91201

TCB-11 (Time, Charges, and Billing for Professional Firms)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts receivable • Billing • Cost accounting
• Engineering

TCB-11 is a professional practice management system designed to meet the needs of accounting firms. The system provides for time, cost, and cash receipts posting by client. Work-In-Process reports (prebilling ledgers) and monthly invoices are produced for each client. Accounts receivable age analysis and client statistics are provided, as well as reports relative to employee productivity and work/service category activity. The system is usually used in conjunction with Franklen's CPA-11, General Ledger/Financial Reporting System.

A version of this product is available for the VAX computer.

Price: \$1,500 – \$2,500

Contact: Frank J. O'Kane, President
(213) 441-3123

FRANKLEN COMPUTER SYSTEMS, INC.
715 Fremont Avenue
South Pasadena, CA 91030

Tele-Track, Tele-Bill

Operating System: ULTRIX, UNIX

Keywords: • Billing • Simulation • Telecommunications

The TelAccount telephone accounting and billing systems are UNIX* based and considerate of the user. They enable businesses to allocate telephone expenses accurately and to determine optimum configuration of telephone services. Additionally, a full set of customized reports help users to successfully manage their communications network. Tele-Track reports include both detail and summary reports at company, division, department, and station (extension) levels; a full spectrum of traffic analysis reports, such as trunk utilization by trunk group and

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destination, busy-period reports in both graph and tabular form; and cities-called reports. A simulation package is available to assist in determining optimum trunk configurations for future growth. The Tele-Bill (resale) accounting application includes automatic client billing and cost control features, along with complete traffic analysis reporting. A project activity report function makes the system a viable alternative for professional service organizations, such as law firms, that require project accounting and billing services.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$3,000 +

Contact: Dick Vento, Vice President, Sales and Marketing
(415) 499-8881

TELACCOUNT, INC.
7 Mt. Lassen Drive, Suite A-250
San Rafael, CA 94903

THETA

Operating System: RSTS, RSX, RT-11

Keywords: • Accounts receivable • Billing • General ledger
• Payroll

THETA, an efficient, integrated accounting system designed by THETA Business Systems, is CRT interactive and menu-driven, making operator training and use easy. A user's requirements can be met with minimum labor, permitting low-cost, rapid modification.

THETA consists of the following modules: Accounts Payable, Accounts Receivable, Order Entry, General Ledger, and Payroll Accounting. In addition, in General Ledger you can format many types of financial statements and run them whenever and as often as you like. A variety of fixed formats are available, as well as several run-time options.

A version of this product is available for the VAX computer.

Price: \$995 - \$1,995

Contact: Cheryl Pankratz
(714) 998-6041

MIDCOM CORP.
1940 N. Tustin Avenue, Suite 117
Orange, CA 92665

Thoroughbred Accounts Payable

Operating System: RSTS, RSX

Keywords: • Accounts payable • Data base management
• Data dictionary • Query facilities

The Vendor Master File for this system can maintain up to 999,999 vendors, and the Vendor Master File Report is generated automatically. The system provides vendor invoice entry and automatic updates, automatic control during data entry to ensure debit/credit balance, comprehensive file maintenance, and instant vendor and open-item inquiry at the terminal as well as hard-copy printout.

Edits and data verification can be performed on line. Complete system-generated or manual check processing is available. Payable checks are produced with check numbers and detailed payment information. Flexible invoice processing is provided for time and partial payments as well as prepaid invoices, with provision for discounts by percentage or dollar amount on invoices. The system can apply payment to the oldest invoice and offers full protection against duplication of invoice payment. Nonvendor or one-time expenses can be entered into the system for payment distribution. The system can handle both credits and debits to a specific invoice or vendor. The system provides automatic totals on all monthly expensed payments. Reconciliation of payable checks includes registers providing outstanding and cleared-check information.

The system generates Open Accounts Payable, Cash Requirements, and Accounts Payable Aging reports by vendor or company. Control over cash allocation is provided at individual invoice level. The system has multiple account aging capability for cash flow reports, determines cash flow requirements for approved invoice payment, provides reporting for up to 26 profit centers, and generates automatic Cash Disbursement Reports for designated time periods. Year-to-date and prior-year expenditures are summarized for analyzing vendor activity. System-generated mailing labels are provided, as are Distribution Reports for both payable and payment distribution. Automatic posting of payments and invoices to appropriate General Ledger accounts is provided. Each pay cycle produces a check register that is summarized monthly. Optional Purchase Order and General Ledger interface and automatic audit trails are provided.

A version of this product is available for the VAX computer.

Price: \$795 – \$8,000

Contact: David E. Capel, Vice President
(415) 930-9932

COMPUTER SYSTEMS DEVELOPMENT, INC.
140 Mayhew Way, Suite 700
Pleasant Hill, CA 94523

Thoroughbred Accounts Receivable

Operating System: RSTS, RSX

Keywords: • Accounts receivable • Data base management
• Data dictionary • Query facilities

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This cost-effective microcomputer solution for measuring your company's sales performance provides timely aged management reports and statement preparation that will improve your cash flow and overall cash management. Complete open-item cash posting of credits, debits, cash, and on-account balances provides comprehensive control over receivables. Aged delinquent analysis by salesperson facilitates credit collections. Customer credit limits can be easily established to eliminate poor payers and to facilitate cash flow. File sizes are variable and expandable and are based on the user's activity. System prompts are designed for easy operator use. The system is easily installed and maintained and can be utilized in either a single or a multiuser environment.

The Thoroughbred Accounts Receivable System's Customer Master File can maintain up to 999,999 customers. The system features automatic customer Master File Report generation, easy data entry for customer and transaction adjustments, and instant inquiry for customer status and accounts receivable information.

The system handles complete sales, sales tax, freight, cash receipts, discounts, credits, and miscellaneous accounts receivable transactions. Nine categories of nontaxable sales are offered, and multiple state tax tables apply the appropriate sales tax to an invoice. The user may select percentage or dollar amount discounts. Interest charges can be applied to past-due accounts. Partial or total payments can be applied to individual invoices, and detailed reporting is provided on outstanding invoices, with automatic generation of Delinquent reports. The system prints customer statements with optional user-determined sales or reminder messages as frequently as desired, as well as complete sales analysis by customer on month-to-date and year-to-date bases. Sales Commission reports are automatically produced.

Information is provided on last customer payment date and account aging by user-defined periods. The system handles miscellaneous cash receipts and can process numerous general ledger periods. Flexible processing provides for both open-item and balance-forward customers. Trial balance with options of minimum days past due, minimum invoice amount, and detail or summary are printed automatically. The system generates mailing labels and provides for multiple-company requirements. Optional Order Processing and General Ledger interface and automatic audit trails are provided.

A version of this product is available for the VAX computer.

Price: \$795 – \$8,000

Contact: David E. Capel, Vice President
(415) 930-9932

COMPUTER SYSTEMS DEVELOPMENT, INC.
140 Mayhew Way, Suite 700
Pleasant Hill, CA 94523

Thoroughbred Fixed Assets

Operating System: RSTS, RSX

Keywords: • Data base management • Data dictionary
• Query facilities • Report writer

The Thoroughbred Fixed Assets system features instant asset inquiry at the terminal, automatic generation of the Fixed Asset Master Report, user-determined asset information, multiple data edit check and multiple depreciation schedules, depreciation of new assets under the Accelerated Cost Recovery System as well as standard methods, reports by asset value as well as depreciation methods, generation of intercompany transfer of assets, Added Cost reports and a Depreciation Report that summarizes current asset depreciation, and automatic audit trails. A General Ledger interface is optional.

A version of this product is available for the VAX computer.

Price: \$795 – \$8,000

Contact: David E. Capel, Vice President
(415) 930-9932

COMPUTER SYSTEMS DEVELOPMENT, INC.
140 Mayhew Way, Suite 700
Pleasant Hill, CA 94523

Thoroughbred General Ledger

Operating System: RSTS, RSX

Keywords: • Data base management • Data dictionary
• General ledger • Query facilities

The Thoroughbred General Ledger system provides instant General Ledger account information at the terminal or as a hard-copy printout and can handle 999,999 different account numbers. Journal entry editing prevents out-of-balance posting; a Journal Activity Report based on data entry is provided. Adjustment entries eliminate the need for account editing. User-defined financial statements are generated automatically. Income Statements may be produced with either quarter-to-date or year-to-date comparisons.

General Ledger handles general ledger posting and processing on a multiperiod basis, and transactions may be purged monthly or retained for the entire year. Year-to-date and prior-year balance information is provided for each account. The system accommodates up to 26 General Ledger files, providing independent or consolidated financial reporting. A monthly General Ledger Detail Report is provided, a monthly and quarterly Trial Balance generated, and automatic balance sheet produced. The system provides Capital Statement Account reporting, Chart of Accounts reporting with option to print monthly balances, and a Budget Master Report that details budgets for the entire year. The Income Statement design is facilitated with the Format Report. The General Ledger Account Activity Report summarizes

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all General Ledger transactions, providing the user with an option to review all accounts or a specified range. Automatic audit trails are provided.

A version of this product is available for the VAX computer.

Price: \$795 – \$8,000

Contact: David E. Capel, Vice President
(415) 930-9932

COMPUTER SYSTEMS DEVELOPMENT, INC.
140 Mayhew Way, Suite 700
Pleasant Hill, CA 94523

Thoroughbred Payroll

Operating System: RSTS, RSX

Keywords: • Data base management • Data dictionary
• Payroll • Query facilities

The Thoroughbred Payroll System's Employee Master file can handle up to 999,999 employees and can be stored by employee number or alphabetically. The Employee Master Report includes deduction information, year-to-date and quarter-to-date information, and employee status; all data entries can be easily corrected. Payroll checks are produced automatically with check numbers. Payroll can be produced weekly, biweekly, semimonthly, and monthly. Payroll processing includes hourly, overtime, doubletime, salaried, holiday, sick, vacation, bonus, and per diem. Both multicompany and departmental pay categories are provided.

Manual and reverse check entry are available, as is automatic restart payroll check processing. Withholding schedules include federal, state, and local taxes; FICA, FUTA, SUTA, unemployment, and workmen's compensation; state tax requirements; nonresident and resident taxation; standard deductions, including medical, life insurance, savings, savings bonds, loan repayment, and garnishment; five miscellaneous deductions by percent, dollar amount, or per hour dollar amount; and flexible miscellaneous deductions. Discretionary withholding tax is provided, as is a nontaxable payroll option. The system automatically provides tax deposit schedules for federal and state taxes withheld and adjustable tax rates. The system accommodates payrate overrides and automatically generates W-2 forms and 941 information.

Payroll can report earned-income credits and has an optional General Ledger interface. Flexible filing status per tax deduction category is provided. The time sheet Edit Report is generated automatically; the register summarizes complete payroll data for the current cycle, quarterly, and yearly; the Labor Distribution Report summarizes all payroll data by department. Workmen's Compensation reports are generated automatically; General Ledger Distribution reports by department and audit trails are also provided.

A version of this product is available for the VAX computer.

Price: \$795 – \$8,000

Contact: David E. Capel, Vice President
(415) 930-9932

COMPUTER SYSTEMS DEVELOPMENT, INC.
140 Mayhew Way, Suite 700
Pleasant Hill, CA 94523

Thoroughbred Purchase Order

Operating System: RSTS, RSX

Keywords: • Data base management • Data dictionary
• Purchasing • Query facilities

The Thoroughbred Purchase Order system features easy entry and verification of purchase orders; purchase order query and reporting by vendor, item number, or purchase order number at the terminal or as a hard-copy printout; automatic purchase order updating; multiple-page purchase orders; control of stock receipts and incomplete purchase orders; automatic adjustments of variance in purchase price; automatic unit conversions; flexible ship-to instructions; automatic generation of Vendor Master File Report; inventoried and noninventoried item ordering; optional interface with Accounts Payable; and automatic audit trails.

A version of this product is available for the VAX computer.

Price: \$795 – \$8,000

Contact: David E. Capel, Vice President
(415) 930-9932

COMPUTER SYSTEMS DEVELOPMENT, INC.
140 Mayhew Way, Suite 700
Pleasant Hill, CA 94523

Time and Billing

Operating System: CTS-300, RT-11

Keywords: • Accounts receivable • Billing • Scheduling

The Time and Billing System establishes a flexible and comprehensive information system that provides management controls and analytical reports to evaluate the time spent on a client's work. The heart of the system is the billing code file. Up to 99 codes may be grouped into 16 major categories by billable and nonbillable time.

The system provides:

- Four entry journals — time and expense, billing, cash receipts, and file maintenance
- Work-in-process reports by client or employee
- Gross profit by client
- Accumulation of Y-T-D billing and adjustments
- Work-in-process review sheet
- Billed and unbilled receivables

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- Aged accounts receivable reports by client or employee
- Client billing and billing code analyses
- Productivity, time and expense, and billing analyses by employee
- Automatic monthly A/R statements
- Monthly charge capability

A version of this product is available for the VAX computer.

Price: \$2,350

Contact: Bob Sprowls
(904) 434-2685

DIGITAL SYSTEMS OF FLORIDA, INC.
114 E. Gregory Street
Pensacola, FL 32501

Time Management

Operating System: CTS-300, RSX, RT-11

Keywords: • Billing • Management • Report writer

The Time Management program can interface with Digital Systems' Practice Management or can complement the Time and Billing System.

Time Management allows a firm to track the actual time spent, as compared to the time budgeted, for a client or an engagement. Time Management also allows a firm to review time spent last year for a month or a year at the client, engagement, employee, or code level.

The system provides:

- Automatic accumulation of time, when interfaced with Practice Management
- Reporting by month or year
- Budgeting capabilities
- Predefined as well as user-defined reports

A version of this product is available for the VAX computer.

Price: \$1,500

Contact: Bob Sprowls
(904) 434-2685

DIGITAL SYSTEMS OF FLORIDA, INC.
114 E. Gregory Street
Pensacola, FL 32501

TOLAS

Operating System: RSTS

Keywords: • Distribution • Financial analysis
• Manufacturing • Purchasing

This comprehensive software package for the distribution and light manufacturing industries provides a complete multifunction, multi-user business system. Installations may run from 10 to more than 90 interactive terminals and may perform batch processing and program development or maintenance concurrently with on-line operations.

TOLAS consists of eight application modules: Order Entry and Invoicing, Inventory Management, Accounts Receivable, Sales Analysis, Purchase Order Management, Accounts Payable, Financial Reporting, and Fixed Assets Accounting. Additional modules available are Work Order Processing and Equipment Sales and Rental Reporting.

Information from the Financial Reporting System can be passed directly to financial analysis and modeling packages on both the mainframe or on microcomputers. Special functions, known collectively as "Salestream," allow a centralized TOLAS data base to be accessed remotely by customer, vendor, or salesperson terminals. More than 300 business functions are represented in the standard package. Modules may be installed separately or combined to form an integrated system.

TOLAS offers many important features to the end user: ease of operation, improved operator efficiency and accuracy, extensive on-line edit checking, formatted CRT screens, consistent logical flow across functions, and numerous accounting controls and audit trails.

Although TOLAS can be installed as a complete off-the-shelf system, it is typically customized by Transcomm to fit a customer's unique business environment and can easily be expanded to meet growing EDP needs. This flexibility is achieved through several report and inquiry generators and by the use of modular programming techniques.

TOLAS is available on a turnkey basis or as add-on software on existing DIGITAL computers. Included with the software license are standard system specifications, program sources and documentation, users' manuals, and three months warranty. Available at additional cost are systems analysis and custom specifications, package modifications, custom documentation, data conversion, user training, and extended warranty and support services.

A version of this product is available for the VAX computer.

Price: \$3,000 – \$20,000

Contact: Allen L. Pinkus
(412) 963-6770

TRANSCOMM DATA SYSTEMS, INC.
1380 Old Freeport Road
Pittsburgh, PA 15238

Treasurer's General Ledger and Warrant Reconciliation

Operating System: CTS-300, RSTS, RT-11

Keywords: • General ledger • Menu handlers • Real time
• Security

This on-line real-time system provides the ability to enter all daily transactions; print the daily statement; update funds, bank, and interim account balances; and reconcile the redeemed warrants on the auditor's outstanding-warrants list.

This program's menu-driven technology creates ease of operation, provides current status of all accounts, produces daily required statement automatically, and makes available through inquiry detail activity for fund, bank, or account.

The program provides file maintenance and daily activity with only one date to be entered, generates all reports and updating functions upon request, and performs an edit of daily transactions before updating. The program also provides monthly 7-year totals of receipts, disbursements, and transfers for each fund. The program provides monthly and yearly totals of deposits and checks for each bank and interim account.

Price: \$2,000 – \$4,000

Contact: James W. Sanderbeck, Vice President
(216) 489-1885
PM COMPUTER SERVICES CO.
630 – 30th Street, N.W.
Canton, OH 44709

TRON Accounts Payable

Operating System: RSTS, RSX, RT-11

Keywords: • Accounts payable • Data base management
• Query facilities

TRON Accounts Payable and Cash Disbursements is used as a stand-alone package or with TRON General Ledger. The package features debiting and crediting to any part of the general ledger and also allows easy customization when used with our user-friendly data base manager.

As a stand-alone package, TRON AP can produce edit lists and journals for entry, editing, and posting of new payables; adjustments; cancellations; and prepayments. TRON AP prints open items, has an on-line vendor account inquiry, prints cash requirements, and has flexible payment selections, including partial payments. Vendor analysis is also a standard feature of this system.

Training is available to learn the customization process.

Price: \$800 – \$2,000

Contact: Michael A. Sce, President
(212) 645-6233

COMPUTER-ON
1360 Ocean Parkway, Apt. 3H
Brooklyn, NY 11230

TRON Accounts Receivable

Operating System: RSTS, RSX, RT-11

Keywords: • Accounts receivable • Data base management
• General ledger • Query facilities

TRON Accounts Receivable may be used with TRON General Ledger, which efficiently performs debit and credit functions to any part of the TRON General Ledger and is easily modified. The package's user-friendly data base manager facilitates programming changes.

TRON Accounts Receivable includes the following capabilities: open item and balance forward; maintenance lists; reports and statements; cash receipt entry, editing, and posting on-line customer inquiry; sales commissions; and printed reports.

Training is available to learn the customization process.

Price: \$800 – \$2,000

Contact: Michael A. Sce, President
(212) 645-6233

COMPUTER-ON
1360 Ocean Parkway, Apt. 3H
Brooklyn, NY 11230

TRON General Ledger

Operating System: RSTS, RSX, RT-11

Keywords: • Data base management • General ledger
• Query facilities

TRON General Ledger may be used with TRON Accounts Payable or Accounts Receivable, which includes all standard reporting features associated with a general ledger system, plus the added feature of easy customization. The package's user-friendly data base manager makes programming easy.

Standard formats are included for chart of accounts, worksheets, balance sheets, and net income statements. Capabilities include reviewing last year's information as well as historical records of net income statements for up to five years. Random inquiries and reports are easily accessed by a menu of user-defined selections.

Training is available to learn the customization process.

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Price: \$800 – \$2,000

Contact: Michael A. Sce, President

(212) 645-6233

COMPUTER-ON

1360 Ocean Parkway, Apt. 3H

Brooklyn, NY 11230

TSRUAP (A TSX-PLUS System Resources Utilization Accounting Package)

Operating System: TSX-PLUS

Keywords: • Billing • Documentation • Report writer

• Statistics

TSRUAP records data suitable for use in charging the cost of the use of system resources back to the user. The package consists of a system statistics logging program, a report-generating program, utility programs and command files, and user documentation. The statistics program requires TSX-PLUS V2.2 or later.

Data on individual sessions, user disk and memory utilization, and some miscellaneous resources utilization are recorded by the statistics-logging program. The project and programmer numbers, the TSX-PLUS line number, log-on date and time, and the connect time in minutes of each individual session are recorded. Disk allocation in kiloblock-minutes and memory utilization in kilobyte-minutes are recorded as cumulative quantities. The miscellaneous resources are definable by the system manager and may include execution of proprietary software, user-requested backups, and user disk space reallocations. Total CPU time is picked up from the data logged by TSX-PLUS in its access control file.

The report-writing program produces a system manager's summary report and individual project-programmer summary reports. The utility programs aid in selecting project and programmer numbers, logging miscellaneous charges from both the user's line and the system operator's line, and establishing the schedule of charges.

The *User's Guide* contains chapters covering specifications, installation and use, error messages, and sample command files. The chapter on specifications describes the data files. The document in machine-readable form is included in the binary kit.

Price: \$550

Contact: Nick Bourgeois

(505) 298-2346

NAB SOFTWARE SERVICES, INC.

P.O. Box 20009

Albuquerque, NM 87154

Turnkey Data

Operating System: CTS-300, RSTS, RT-11

Keywords: • Cost accounting • Manufacturing
• Office systems • Report writer

The Turnkey data base business package for DIGITAL OEMs/distributors/end users, featuring job costing, includes the necessary programs, procedures, and startup command files to generate, to run, and to track a DIGITAL OEM or distributorship.

The universal job-costing system, powered by the DIBOL and the DECFORM programming languages, includes job costing, payroll, accounts receivable, accounts payable, and general ledger. The package enables the holder to offer clients Turnkey software without having to leave the office. Data base file structures incorporate one central information master file (ISAM), one to two daily/periodic transaction files (ISAM), and one to three optional work files for selected listings (SEQ).

Report programs allow for displaying report information on screens with 132-character display capabilities. The package contains 100 DIBOL programs, 18 sorts, and 30 DECFORM screens.

A version of this product is available for the VAX computer.

Price: \$1,200 – \$8,500

Contact: Peter J. Marcantonio
(518) 793-8023

EXECUDATA COMPUTER SYSTEMS
1392 Redmond Road
Gansevoort, NY 12831

UDS Accounts Payable

Operating System: CTS-300, RT-11

Keywords: • Accounts payable • Distribution
• Manufacturing • Sales and marketing

Management of cash flow is especially important in periods of high money rates. The Accounts Payable series of programs helps manage outgoing cash and provides the following features:

- Invoices entered with payment dates, discounts, and general ledger account numbers, with duplicate invoice entries and payments prevented by check of existing files before permitting entries
- Printing of registers of all entries both in entry and in ledger account sequences
- Trial balance with invoices detailed by vendor in terms of ages and amounts listed in columnar form (current and 30, 60, 90, and 120 days old) and discounts printed
- Cash requirements that look the other direction in terms of what invoices are due in 10, 20, and 30 days

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- Invoices that can be keyed for payment by individual invoice, vendor, age, or discount and that may be paid automatically or with operator confirmation of each invoice — in full, in part, or marked as prepaid (if a manual check was issued)
- Check register printing of a record of all items marked for payment and those items entered or flagged as prepaid
- Printing of voucher-type check with details
- Display on a CRT of all open invoices from a vendor, with aging data
- A historical file of all paid invoices either on the CRT or in hard-copy form
- When used with other modules, automatic updating of general ledger, vendor, and job cost records as accounts receivable transactions are made

The Accounts Payable module not only helps maximize benefit from your cash but also links to the vendor master module to provide more comprehensive control over the accounts payable function.

The vendor master module gives you instant access to your company's entire list of vendors and provides separate purchase order and payment addresses, contact names, each vendor's individual terms, a flag on whether a 1099 is required, number and value of purchase orders, open payables balance, plus number and value of purchase orders for the current and past years. The vendor master module also provides a listing of those vendors requiring a 1099 and the amounts of payments made to them during the year.

A version of this product is available for the VAX computer.

Price: \$750 – \$3,000

Contact: Zane R. Oaks, Marketing Manager
(513) 890-1800
PROJECTS UNLIMITED, INC.
P.O. Box 14538
Dayton, OH 45414

UDS Accounts Receivable

Operating System: CTS-300

Keywords: • Accounts receivable • Distribution
• Manufacturing • Sales and marketing

Minimizing accounts receivable age can directly affect profitability. Accounts Receivable facilitates your achieving this goal with a series of programs that provide the following features:

- Automatic updating file by invoicing, if used with order processing
- Hard-copy printout of account aging by customer — customer purchase order number, age of invoice in days, and historical average customer payment time — or CRT version, including age and purchase order of each invoice
- Generation and updating of credits

- Full or partial posting of cash discounts and credits, followed by production of a batch report
- Printing of statements and dunning letters, tailored to 60 and 90 days, on demand
- Cash flow projection, using average payment time, to calculate either in detail or by customer, the cash to be received in the next 10, 20, or 30 days, as well as past dues and unknowns
- Production of a listing of all customers on credit hold (45 days or more) for ready reference by the order department
- When used with the appropriate modules, automatic updating of general ledger, sales records, and sales commissions files as accounts receivable transactions are made

A version of this product is available for the VAX computer.

Price: \$750 – \$3,000

Contact: Zane R. Oaks, Marketing Manager
 (513) 890-1800
 PROJECTS UNLIMITED, INC.
 P.O. Box 14538
 Dayton, OH 45414

UDS General Ledger

Operating System: CTS-300

Keywords: • Distribution • General ledger • Manufacturing
 • Sales and marketing

The complex job of period and year-end reporting is simplified with the General Ledger software module. The programs provide accurate accumulation, by individual profit centers, of your company's financial information. Some of the system's highlights are:

- Hard-copy audit trails provided as a permanent record
- Manual or automatic journal entries by programs for invoicing, payroll, accounts payable, and others, with input journal printed prior to journal updating
- Printing of a report of items in the journal before the ledgers are updated, giving a batch total as well as detail
- A month-end journal by general ledger number report that details each entry to each ledger account
- A trial balance, balance sheet, income and expense report, and profit and loss statement by subsidiary company or profit center as well as a consolidated format produced
- Duplicates of those reports with projected budgetary figures, allowing you to plan your business for the coming year and to answer hypothetical budgetary questions
- Printing of budget or actual report by company and/or by department

A version of this product is available for the VAX computer.

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Price: \$1,000 – \$3,500

Contact: Zane R. Oaks, Marketing Manager

(513) 890-1800

PROJECTS UNLIMITED, INC.

P.O. Box 14538

Dayton, OH 45414

UDS Payroll

Operating System: CTS-300

Keywords: • Distribution • Management • Manufacturing
• Payroll

The Payroll module uses a special series of programs to expedite the routine, multifaceted job of payroll accounting. The system's features include:

- Performance of all payroll functions after initial entry of attendance records either directly or through labor ticket input
- Maintenance of an employee file containing names, addresses, rates, exemptions, totals of eight deductions, and vacations
- Initiation of payroll process with attendance entry and printout of attendance register
- Calculation of complete payroll, followed by printing of registers for payroll, deductions, vacations, paychecks, and departmental distribution
- Check printing and employee file updating
- Quarterly and year-end reports — printout of 941-As, W-2s, and reports for city tax, state tax, semiannual workers compensation, and quarterly employee payroll summary
- Inclusion of many personnel-related functions
- Employee seniority, birthday, vacation status, sick-leave status, and payroll and personnel data reports
- Employee performance review schedule showing employee reviews as scheduled for any designated month
- Alphabetical employee list including names and addresses

As a single, comprehensive source for essential payroll information, the Payroll module offers a tremendous speed advantage over manual payroll processing.

A version of this product is available for the VAX computer.

Price: \$1,500 – \$4,500

Contact: Zane R. Oaks, Marketing Manager

(513) 890-1800

PROJECTS UNLIMITED, INC.

P.O. Box 14538

Dayton, OH 45414

UDS Purchasing Management

Operating System: CTS-300

Keywords: • Distribution • Inventory • Manufacturing
• Purchasing

When properly completed, closely monitored, and accurately filed, the purchase order can be invaluable to the record-keeping processes of many important business functions. The Purchasing Management software module is a series of programs for managing purchase orders from the time they are placed until all items have been completed. The system's features include:

- A purchase order entry sequence that directs the entry of the order, checks vendor terms and, if used with parts master and work-in-process modules, updates the WIP and either raw material parts records or finished goods items with quantity ordered, purchase order number, and price
- Printing of an order entry log and the required purchase orders, which note whether they are confirming a previous purchase order, so as to eliminate double shipments
- Printing of an order that is on the books or display it by vendor
- Delivery exception, status by purchase order, completed purchase order, and open purchase order reports
- Flagging of an order received and each item as partial or complete
- Updating of work in process and parts master, if used with quantity received and quantity still on order
- Updating of vendor records with open purchase order balance, purchase order balance for year to date, number of open purchase orders, and number of purchase orders for year to date
- A part search program that scans the purchase order file for outstanding orders containing a given part number
- Purchase order followup for late deliveries — writing of a letter asking when the order will be shipped
- A cash flow projection based on delivery of scheduled material, as well as invoice due date, plus 30 days

The Purchasing Management module is directly linked to the vendor master module, providing yet another information source on which to base purchasing decisions.

A version of this product is available for the VAX computer.

Price: \$1,500 – \$4,500

Contact: Zane R. Oaks, Marketing Manager
(513) 890-1800

PROJECTS UNLIMITED, INC.

P.O. Box 14538

Dayton, OH 45414

V-OLOE (Vendor On-Line Order Entry)

Operating System: RSTS

Keywords: • Order entry • Purchasing

The Vendor On-Line Order Entry package contains the following features:

- Vendor order function, including original order posting to vendor purchase order file, inventory update for new lot on order, and primary and alternate vendor selection
- Automatic generation of vendor purchase order forms, including table-driven logic for custom data presentation and layout
- Automated vendor delinquency notices and delivery follow-up
- Receiving function, including inventory file update for goods on reorder with partial receipt capability, vendor purchase order file update with partial receipt capability, posting to general ledger accounts for value of new goods in inventory, and posting to the vendor record and general ledger accounts for new payable obligations together with appropriate journalization

The V-OLOE package may be run on any system supporting BASIC-PLUS or BASIC-PLUS II. The package is designed for high efficiency and ease of use to meet the total interactive computing needs of the small business, corporate division, or institution. V-OLOE ensures the integrity of the vendor order-posting procedures and the security of data. All programs have individual password protection, which limits their use to authorized personnel.

A version of this product is available for the VAX computer.

Price: \$11,500

Contact: Muriel King
(801) 224-5306

CLYDE DIGITAL SYSTEMS, INC.
3707 N. Canyon Road, Suite 3-E
Provo, UT 84604

Welding Distributor System

Operating System: CTS-300, RSTS

Keywords: • General ledger • Inventory • Order entry
• Payroll

The Welding Distributor System is a unique combination of small-parts (supplies) inventory, cylinder inventory control, and accounts receivable systems. Because of the modular design of the programs, the small-parts inventory system is optional.

Cylinder records may be tracked and maintained by either individual serial number or by cylinder size for company-owned and customer tanks. Cylinder rental, demurrage, and lease invoices may be printed as required. Leases can be set up for any period of time in increments of one month. A Lease Expiration Report lists leased cylinders for each customer, along with the expiration date.

Customer Account Inquiry provides for the display of financial and cylinder activity. In this program, the customer can be accessed by name or account number. Cylinder Inquiry provides a method of researching the status of cylinders maintained by serial number.

A sales tax code file automatically calculates sales taxes when orders and cash sales are entered. Extensive sales tax reporting features are provided at state, city, and county levels, if necessary. Cash sales are entered separately from charge transactions. The cash sale program allows for the entry of cylinder records, which permits the customer's file to be updated for rental or demurrage.

The system can handle both balance-forward and open-item-type customers. Orders — or charge invoices, if the small-parts inventory system is not to be used — can be entered, as well as shipping/returning cylinders in the same process. Open orders may be queried, added to, changed, or deleted at any time prior to billing. Changes to line items or cancellations automatically result in adjustments to inventory. Noninventory sales and debit or credit memos are entered through regular sales entry and editing. The system prints the Sales Journal, including credit and debit memos.

The system allows interactive entry and editing of cash receipts. Non-A/R cash received may also be entered through cash receipts. A general ledger account number must be entered to indicate distribution.

The system has complete customer and inventory master file maintenance; additions, changes, deletions can be made and printed. An alphabetical customer list can also be printed. Billing is automatically interfaced to the accounts receivable system and uses the same customer file.

Processing for small-parts inventory is separated into four distinct areas: front counter processing, file maintenance, regular processing, and report printing. Front counter processing consists of order entry, inventory item display, and kit display. File maintenance consists of inventory, kit, equivalence, contract, and salesperson master files and lost-sale, price change, and customer price files. Regular processing consists of invoicing, credit memo entry, inventory receivings, purchase orders, cash sale entry, inventory price and quantity changes, and inventory transfers. Report printing consists of price tags, bin labels, stock status report, vendor and category analysis, back-order reports, dated orders, commission report, line-item history, and price lists.

A version of this product is available for the VAX computer.

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Price: \$10,000 – \$50,000

Contact: Stan Hoggatt, Market Manager
(406) 652-2620

COMPUTERS UNLIMITED
2407 Montana Avenue
Billings, MT 59101

WIP (Work in Progress)

Operating System: RSTS

Keywords: • Accounts payable • Accounts receivable
• Cost accounting • Project management

The Work in Progress system allows project breakdowns by division, phase, and cost center. Actual and budgets for both units and dollars are maintained. Holdbacks and progress billings can be handled through accounts payable (Data Key A/P) and accounts receivable (Data Key A/R), as well as labor through integration with the payroll (Data Key PAY). Various overheads (for example, labor and material burdens) can be automatically generated, based on predetermined percentages. Reporting and inquiry capabilities include a register that provides a detailed history of each project and many summaries with a variety of formats.

Price: \$3,500

Contact: Barry Logan, Vice President
(604) 276-2622

DATA KEY LTD.
1A 12880 Bathgate Way
Richmond, B.C. V6V 1Z4
Canada

ZIN

Operating System: ULTRIX, UNIX

Keywords: • Data base management • Financial management
• General ledger • Spreadsheets

ZIN is a relational data base system with built-in applications. The system consists of seven standard modules — General Ledger, Accounts Payable, Accounts Receivable, Payroll, Statistical Analysis, Spreadsheet, and Fixed Assets.

A version of this product is available for the VAX computer.

Price: \$300 – \$3,000

Contact: Dennis R. Thompson
(619) 283-6211

EPICOM INC.
3647 Fairmount Avenue
San Diego, CA 92105

Agriculture



6600 Plant Management System

Operating System: RSX

Keywords: • Cost accounting • Inventory • Production control
• Quality control

This series of modules is designed to aid in the management of food processing plants. A formulation module uses linear programming to provide least-cost formulation of food products. A quality control module uses statistical and graphical techniques to track various quality control data. Product costing permits the application of cost items to develop a total product cost inclusive of supplies, labor, and overhead. An order accumulation module is used for the entry and development of production schedules and inventory programs.

Price: \$30,000

Contact: T. Brient Mayfield
(615) 691-2041

COMPUTER CONCEPTS CORP.
9041 Executive Park Drive, Bldg. 500
Knoxville, TN 37923

ADAM (Automated Dairy and Management)

Operating System: RSX

Keywords: • Management • Production control
• Property management • Medical

This fully integrated dairy herd management system is designed to meet the current and future record-keeping needs of dairy herd managers. Developed and maintained by a staff of dairy herd management experts, ADAM maintains complete herd health, reproduction, and production records. ADAM, available for on-farm computers or interactive time-sharing on remote computers, was designed to interface with any manufacturer's automatic data collection devices. It can be interfaced with not only automatic milk meters and feed stalls but also all the other devices being developed and announced (milk conductivity, milk or body temperature, animal activity, body weight, and so on).

ADAM interfaces electronically with Dairy Record Processing centers to allow direct input of management information and distribution of DHI results. Sire production and type proofs can be automatically updated after each USDA Sire Summary. Management reports can be customized by the user; up to 10 versions of each report may be permanently defined and generated by request. Herd summary information for the last 13 months and 2 previous years allows within-herd analysis of herd health, reproduction, production, cost, and genetic trends. ADAM has special provisions to support the special processing needs of registered feeders — complete embryo transfer, classification, registration, and pedigree capabilities are provided. Table-driven prompts and comments allow the system to be converted from one language to another in a relatively short period of time.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Roger W. Palmer, Ph.D., President
(608) 233-6484 or 231-2005

AGRICULTURAL COMPUTING AND CONSULTING
215 Lathrop Street
Madison, WI 53705

Ag Pay (Agricultural/Warehouse Payroll)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Payroll • Taxes • Warehousing

Ag Pay is a combination piecework/hourly payroll designed for use by large farming concerns or warehouse operations. Compensation is monthly, semimonthly, weekly, hourly, and piecework. Tax tables are user-defined. Major reports include payroll history (by transaction), distribution (by department), and all required quarterly reports.

Price: \$2,500

Contact: Steve Defoe
(509) 457-8161

SPINNER DATA SERVICE, INC.
P.O. Box 693
Yakima, WA 98907

FPS (Fruit Packing System)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Accounts receivable • General ledger • Inventory

The Fruit Packing System is designed to provide complete inventory controls from the receipt of loose fruit to packing the fruit. The system also provides for accounts receivables from the receipt of order to billing and issuing of monthly statements. Lot settlements and grower paybacks are also included. Major reports include season-to-date receipts, season-to-date packout, sales analysis, packed inventory status, grower/lot settlement reports, and grower accounts — history and status.

Price: \$8,000 – \$10,000

Contact: Steve Defoe
(509) 457-8161

SPINNER DATA SERVICE, INC.
P.O. Box 693
Yakima, WA 98907

IMS-8 (Integrated Mill-Management System-8)

Operating System: TSX-PLUS

Keywords: • Financial analysis • Inventory • Order entry
• Process control

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This series of modules designed for the feed grain industry provides process control, inventory control, order entry invoicing, and financial packages.

Price: \$2,000 – \$50,000

Contact: LaDell Swiden
(605) 336-2750

RAVEN INDUSTRIES, INC.

P.O. Box 1007

Sioux Falls, SD 57117

Integrated Feed Mill Control System and Technical Livestock Programs

Operating System: RSX

Keywords: • Biology • Process control • Sales and marketing
• Scheduling

These programs provide feed formulation systems (linear optimization) and laboratory programs for animal feed; livestock programs for dairy, pig, and poultry farms, as well as integrated solutions to economic, biological, stock, and scheduling problems for all farms and feedmills; administration programs such as sales order processing, purchase orders, and accounting; process control; and transport optimization.

In Europe, contact Roland Zanotelli (telephone 061 42 72 79 or Telex 63103), FORMAT AGRO-COMPUTER AG, Grellingerstrasse 9, Postfach 235, 4020 Basel, Switzerland.

A version of this product is available for the VAX computer.

Price: \$500 – \$50,000

Contact: Bill Harrell
(912) 246-3396

AG FORMAT

P.O. Box 1866

Bainbridge, GA 31717

PBS (Produce Brokerage System)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Accounts receivable • Billing • Inventory
• Order entry

PBS provides inventory control and sales reporting for a fresh-produce brokerage company. Included are packages for product receipt and repackaging, order entry and billing, sales reporting and accounts receivable, and grower paybacks. Major reports include season-to-date receipts, sales analysis, inventory status, and grower accounts — history and status.

Price: \$8,000 – \$10,000

Contact: Steve Defoe
(509) 457-8161

SPINNER DATA SERVICE, INC.

P.O. Box 693

Yakima, WA 98907

TACT (Total Agribusiness Computer System)

Operating System: RSTS

Keywords: • General ledger • Inventory • Order entry
• Payroll

TACT is an integrated system for nutritionists, feed manufacturers, feed supplement and specialty product manufacturers, and related industries. The system consists of least-cost feed formulation, multiproduct formulation, beef and dairy systems, order entry, inventory, accounts receivable, general ledger, payroll, and accounts payable.

Price: \$4,000 – \$35,000

Contact: Carol L. Adams, Vice President
(404) 458-2371

COMPUTER GENERATION, INC.

3855 Presidential Parkway

Atlanta, GA 30340

Arts



Dan Budnik/Woodfin Camp Associates

LEONARDO

Operating System: UNIX

Keywords: • Accounting • Data base management
• Forms management • Inventory

LEONARDO is a turnkey fine art inventory management system with multiuser capabilities. Designed for art galleries, art dealers, and museums, LEONARDO is a complete business system applicable to businesses that handle large inventories of unique items. The system includes a complete forms driver data base system that is customized to the specifications of the purchaser. The system maintains inventory, invoice, accounting, and client files. File configuration allows multiattribute retrieval; for example, clients may be retrieved by name, address, artist interests, recent contacts, and/or recent sales to target potential customers for specific works of art.

Files may be fully cross-linked — for example, inventory items listed by purchaser, clients listed by all purchasers. Inventory and client files can also be fully integrated with ledger files, so single operations, such as order writing at the time of a sale, update all related items in client, inventory, and ledger files.

Accounting, which conforms to FSAB standards, includes accounts receivable and payable, profit/loss, and trial balance. Word processing with mail merge capabilities is included.

The system supports fully protected, concurrent access to all files, with dynamic incremental backup on floppy disk.

A version of this product is available for the VAX computer.

Price: \$10,000 – \$15,000

Contact: Margaret Jensen, President
(804) 971-7987

ALBEMARLE FINE ART RETRIEVAL GUILD, INC.
P.O. Box 3116
Charlottesville, VA 22903

Construction



Accounts Payable

Operating System: CTS-300, RSX, RT-11

Keywords: • Accounting • Report writer

The Accounts Payable system prepares invoices for payment, prints checks, and provides up-to-date information on cash requirements. The system is flexible enough to handle almost any type of invoice payment — partial, complete, even prepaid. The Accounts Payable system permits control of each flow based on the client's unique requirements.

Some significant features and reports are:

- Vendor listing, alphabetically or numerically, and vendor analysis
- Expense account cross-reference
- Cash requirements, aged analysis, and pre-check-writing reports
- Payment deferral
- Automatic check writing
- Interface option to bank reconciliation program
- Optional interface to the job cost module for updating costs charged to specific job cost breakdowns
- Complete handling of subcontract retainage, with flexibility in both calculating and paying the retained amounts

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Bob Sprowls
(904) 434-2685

DIGITAL SYSTEMS OF FLORIDA, INC.
114 East Gregory Street
Pensacola, FL 32501

Accounts Receivable

Operating System: CTS-300, RSX, RT-11

Keywords: • Accounting • Billing • Report writer

The Accounts Receivable system offers a sophisticated yet simple-to-operate method of accomplishing all the general accounting functions associated with accounts receivable. Data entered once into the system updates or prepares every record, document, and management report affected, leaving a clear audit trail.

Some significant features and reports are:

- Capability of handling balance-forward and open-item records for the same client
- Automatic posting of fixed charges — up to 999 user-defined charge types
- Automatic age analysis, statement preparation in several formats, and commission calculations
- Three invoice formats
- Service charge capability
- User-defined terms and shipping instructions

- Sales reports by customer, customer type, city, county, or state and by division or tax code
- Trial balance and sales history reports
- Optional interface to the job cost module, which will update amounts billed and received by job
- Complete flexibility in calculating and paying job retainage amounts

A version of this product is available for the VAX computer.

Price: \$2,500

Contact: Bob Sprowls
(904) 434-2685

DIGITAL SYSTEMS OF FLORIDA, INC.
114 East Gregory Street
Pensacola, FL 32501

AGGDISS

Operating System: RSTS

Keywords: • Billing • Distribution • Production control
• Scheduling

AGGDISS is designed to aid sales, production, weighing, dispatching, and subsequent invoicing in the aggregate and asphalt industries. This aid is accomplished through order entry, weighing, ticketing, production reporting, scheduling, and invoicing. The system can interface to most other accounting systems and computers for invoicing.

Price: \$5,000 – \$40,000

Contact: James R. Wagner
(612) 559-4132

ADVANCED CONTROL SYSTEMS
13809 Industrial Park Boulevard
Minneapolis, MN 55441

Builder (Homebuilders System)

Operating System: CTS-300, RT-11

Keywords: • Cost accounting • Real estate

This system, designed for the general contractor who specializes in residential development and construction, monitors costs of material and labor and applies them against each lot and unit. Cost reports can be obtained at any time, comparing costs to budget and other like models.

A complete buyer profile analysis is built into the system to assist in future advertising plans.

A version of this product is available for the VAX computer.

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Price: \$5,000

Contact: Nigel Harris
(613) 829-8888

HARRIS COMPUTER SYSTEMS
16 Credit Union Way
Nepean, Ontario K2H 8R6
Canada

CAD (Computer-Aided Drafting)

Operating System: UNIX

Keywords: • CAD/CAM • Facilities management • Graphics
• Property management

Complete drawing capabilities are available with our computer-aided planning and facilities management system.

Computer-aided drafting accuracy and speed result in highly reproducible presentation-quality drawings, exceeding human capability for precision and consistency. The system provides uniform line weights, symbols, and text on all computer-produced output. This computer approach permits layering of disciplines, unlimited scale changes, accuracy, multicolor output, and the ability to rotate and repeat. A major asset of the system is the ease and accuracy of changes and track as-builts.

Computer-aided drafting benefits include:

- Working drawings — construction, mechanicals, details
- Area calculations
- Ability to dissect and manipulate drawings
- Specifications
- Bill of materials calculation
- Flexible symbol creation and placement — independent rotation and scaling
- Sophisticated drawing aids — latching, parallel placement
- Variety of text sizes and fonts
- Plots to "E" size and plots on different media, including paper and mylar
- A variety of pens, including fiber tip, roller ball, drafting pens
- Eight colors

Price: \$8,000 – \$20,000

Contact: Ron Kramer
(617) 897-6350
RESOURCE DYNAMICS, INC.
118 Great Road
Stow, MA 01775

CN-11 (Job Cost)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Construction • Cost accounting
• Project management • Report writer

The Job Cost accounting system is a layered package that requires the GL-11, AP-11, and PY-11 systems as a base. These four packages work together to provide the user with a complete method of posting job cost information to projects and cost centers. Both the AP-11 and the PY-11 systems post directly into the job cost files, saving data entry time and reducing the opportunity for operator error. Only one entry is required to post an invoice into accounts payable and to distribute the costs into the necessary projects and cost centers. Payroll information is distributed on an employee basis to the applicable projects and cost centers. Manual postings into the job cost system are also allowed. Estimates for each project and cost center may be posted. Transfers between cost centers and projects are also allowed. Reporting is accomplished in three different approaches. All reports are available for an unlimited date range and in a variety of specification formats. The Project Cost Analysis reports any amount of summarization or detail by any range of projects. The Cost Center Analysis reorganizes the same information, reporting by cost centers. The Labor, Materials, Subcontract report shows information in these three categories, organized by project. The length and the format of the project code are designed with a tailoring option. All cost centers are user-defined, and an unlimited number may be established.

A version of this product is available for the VAX computer.

Price: \$12,500 – \$17,500

Contact: Larry Landusky, Marketing
(806) 792-3785

COMPU-SHARE, INC.
3824 50th Street
Lubbock, TX 79413

COMADS (Computer-Aided Dispatching)

Operating System: RSTS

Keywords: • Inventory • Order entry • Production control
• Scheduling

COMADS is designed to aid sales and bidding, dispatching, production, and subsequent invoicing in the ready-mixed concrete industry. This aid is accomplished through order entry, ticket generation at the proper plant, production reporting, scheduling, and dynamic truck tracking. Truck status can be received via a mobile signal system mounted in each truck. The system can interface to most other accounting systems and computers for invoicing.

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Price: \$5,000 – \$100,000

Contact: Jim Wagner, President
(612) 559-4132

ADVANCED CONTROL SYSTEMS
13809 Industrial Park Boulevard
Minneapolis, MN 55441

CONSTRUCTIMATE (Construction Management System)

Operating System: RSX, RT-11, TSX-PLUS

Keywords: • Cost accounting • Project management
• Real estate • Report writer

CONSTRUCTIMATE is a comprehensive construction management system that can be configured for the residential and the commercial contractor. The system consists of the following modules: job costing, standard costing (for home builders), cost estimating (for general contractors), critical path management, general ledger, payroll, accounts receivable, and accounts payable.

Those modules are part of an integrated system that eliminates multiple manual postings for each module. Accounts payable and payroll entries update both job costing and financial reports. Posting to multiple profit centers, jobs, and phases is accommodated. Cost estimating captures historical job costing data for comparison while preparing estimates.

CONSTRUCTIMATE has the flexibility to allow users to maintain their current accounting procedures. It is menu driven and therefore easy to use.

Some of the reports generated, in addition to the standard accounting reports, include job cost report, projected cost report, job contract summary, application for payment, model estimate listing, option estimate listing, standard job cost listing, history performance report, job estimate report, final estimate report, critical path chart, and critical path bar graph.

A version of this product is available for the VAX computer.

Price: \$6,000

Contact: Armand Van Velthoven, Marketing Manager
(303) 574-8086

PROFESSIONAL COMPUTER SERVICES, INC.
2345 N. Academy Boulevard, Suite 209
Colorado Springs, CO 80909

ConTrac® (Construction Management and Accounting)

Operating System: RSTS

Keywords: • Cost accounting • General ledger • Payroll
• Word processing

With its routine and language derived directly from builder and contractor vocabulary and business practices, this system's functions address the situations builders face every day. Information is provided on job billings in detail, comparison of job billing to cost, purchase order status by job and vendor, job-complete percentage and remaining cost, tracking of committed dollars against purchase orders, invoices by job and vendor, vendor payment history, tracking of bids by type of job, and job cost estimating. Completely functional payroll with provisions for job deductions, union benefits, as well as standard deductions and benefits, are provided. In addition, individual project managers have total flexibility of inquiry, separate operators can have simultaneous access to common files, all files are protected by password, equipment can be transported to job sites, unlimited upgrade capability and a word processing package are provided, and the program can be customized.

The system consists of DIGITAL processors, CRTs, printers, controllers, and disk drives in tandem with exclusive ConTrac system software. The application programs are built around a data base management file structure, allowing DBMS to be added later with full integration. Also available are an integrated electronic spreadsheet and word processor. System purchasers receive one week of computer instruction for up to three employees and are offered a maintenance contract for both hardware and software.

A version of this product is available for the VAX computer.

Price: \$3,000 – \$25,000

Contact: Richard B. Carroll
(502) 527-3293

UNITED SYSTEMS & SOFTWARE, INC.
547 Mayfield Highway, P.O. Box 361
Benton, KY 42025

Contractor Management System

Operating System: CTS-300, RSX, RT-11

Keywords: • Accounting • Management • Payroll
• Purchasing

This comprehensive system provides total management control over job costing and the related contractor payroll functions. The complete flexibility and simplicity of the system allow in-house use by all phases of the contractor market. The fully integrated system allows updating of all phases of job cost information, check writing for payroll, and report generating, both for job costing and for payroll-related reports.

Some significant features of the system are:

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- Unlimited numbers of jobs and classifications
- User flexibility in formatting jobs and cost breakdowns
- Complete editing and audit trail of journalizing for verification prior to posting to permanent records
- Ability to track both units and dollars for each breakdown of a job
- Sixteen types of job cost reports, with numerous run-time selection options
- Automatic printing of budget to actual, including the respective variances as well as percent complete figures for each job phase
- Multiple distribution of payroll by department, job, federal labor classification, cost code, and source
- Automatic posting of the payroll module to both general ledger and job cost
- Flexible handling of multiple pay rates, overtime rates, other pays, deductions, and union burdens
- Automatic calculation of taxes and workmen's compensation and printing of government forms, such as W-2s and 941s
- Multiple occupational rates for state and federal jobs
- Automatic updating of job cost information from accounts payable, accounts receivable, equipment cost, and purchase order

The Contractor Management System consists of the basic general ledger program, job cost (which includes a payroll module), accounts payable, loan amortization, and fixed asset accounting (depreciation). An optional interface to job cost is available with purchase order, accounts receivable, equipment cost, and bank reconciliation.

A version of this product is available for the VAX computer.

Price: \$9,900

Contact: Bob Spowls
(904) 434-2685

DIGITAL SYSTEMS OF FLORIDA, INC.
114 E. Gregory Street
Pensacola, FL 32501

Electrical Contracting

Operating System: RSTS

Keywords: • Accounting • Electrical • Service industries
• Word processing

Electrical Contracting provides payroll — certified and joint industry board reports — accounts receivable, accounts payable, a purchase ordering system, a job costing and control system, billing, general ledger, inventory control and analysis, sales analysis, and word and list processing.

A version of this product is available for the VAX computer.

Price: \$2,000 – \$20,000
Contact: Andrew Yasenchak
 (201) 231-9400
 UNITRONIX CORP.
 197 Meister Avenue
 Somerville, NJ 08876

Equipment Cost

Operating System: CTS-300, RSX, RT-11

Keywords: • Billing • Cost accounting • Maintenance
 • Management

The Equipment Cost system is designed to assist a contractor in maintaining control of vehicles, equipment, and tools by providing information on revenue, cost, and maintenance scheduling. The system is interfaced to general ledger, job cost, and job cost payroll modules.

Some of the significant features are:

- User-defined revenues and costs
- Ten user-defined fields in the equipment master file in addition to standard items
- Multiple billing rates for each piece of equipment
- Rental billing capability by hour, day, week, or month
- Maintenance scheduling by dates or units
- Numerous management reports with variable sort features

A version of this product is available for the VAX computer.

Price: \$2,250
Contact: Bob Sprowls
 (904) 434-2685
 DIGITAL SYSTEMS OF FLORIDA, INC.
 114 E. Gregory Street
 Pensacola, FL 32501

JCA (Job Cost Accounting)

Operating System: RSTS

Keywords: • Architecture • Cost accounting
 • Project management • Scheduling

Job cost accounting enhances the professionalism and cost control on any project. JCA, a budget analysis and management control tool for architects and development firms, produces fast and timely results. Cost controls and accurate accounting and analysis take the guesswork out of project accounting.

JCA can:

- Track all phases and tasks of a job from design to completion
- Compare job cost estimates to actual expenditures for all phases and tasks
- Track add-on costs and overhead-per-hour costs

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- Indicate total billed and paid to date with timely job inquiry
- Interact with accounts receivable, accounts payable, general ledger, and payroll systems
- Automatically write payable checks and provide invoices

A version of this product is available for the VAX computer.

Price: \$1,500 – \$20,000

Contact: William R. Paschal, Jr.
(405) 843-7323

DATATEK CORP.
818 N.W. 63rd
Oklahoma City, OK 73116

PCM (Project Cost Model)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Architecture • Civil engineering
• Project management • Simulation

PCM, a project management computer system, provides project managers with a tool for integrated project control of time, money, and resources. PCM includes facilities for planning, critical path network analysis, resource allocation, scheduling, cost control, and cash flow forecasting. Modules for each of those functions are available separately if required. A comprehensive range of printed and plotted reports, such as project network drawings, bar charts, and histograms, are available, together with very selective reporting options.

PCM can be used with equal facility by project promoters, project managers, designers, and construction contractors to prepare estimates, monitor progress, and plan remaining work on a project. PCM is particularly effective when a forecasting and decision-making support tool is required. PCM allows forecasts of the consequences of alternative courses of action to be provided before project management decisions are taken.

A version of this product is available for the VAX computer.

Price: £8,000 – £20,000

Contact: Martin Barnes, Director
061-439 6639 Telex: 666650

PROJECT SOFTWARE LTD.
Foden Lane, Woodford
Stockport, Cheshire SK7 1PT
United Kingdom

Purchase Order System

Operating System: CTS-300, RSX, RT-11

Keywords: • Cost accounting • Financial management
• Purchasing

The Purchase Order System is a flexible, comprehensive module designed to interface to the accounts payable, general ledger, and job cost modules in the Contractor Management system.

Some of the features are:

- Up to 99 line items per purchase order, with each line item assigned to a vendor and charged to a job, category, class, and source
- Individual item status maintained and indicated by open, received in full, partially received, or canceled
- Units on order, unit cost, description, and inventory number maintained
- Flexible report capabilities by job, vendor, issue, or delivery date
- Committed-cost reporting
- Automatic posting to job cost, accounts payable, and general ledger as items are received

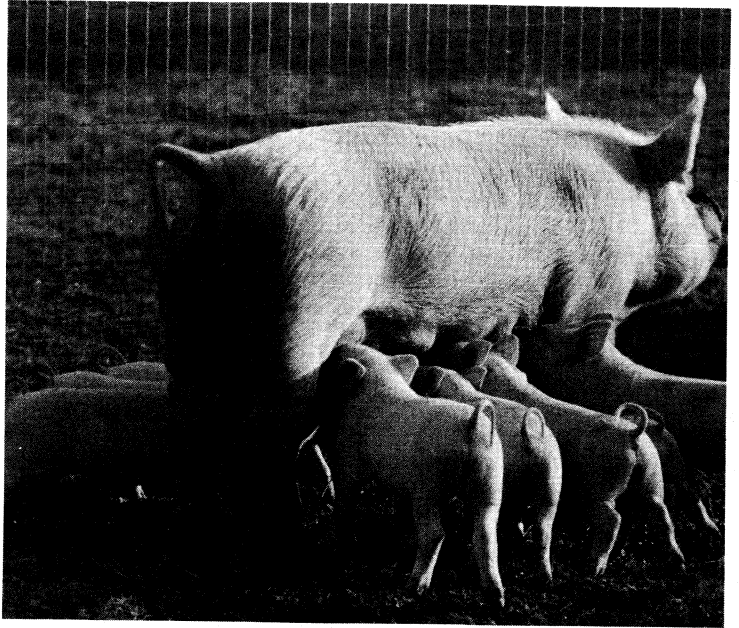
A version of this product is available for the VAX computer.

Price: \$1,250

Contact: Bob Sprowls
(904) 434-2685

DIGITAL SYSTEMS OF FLORIDA, INC.
114 E. Gregory Street
Pensacola, FL 32501

Distribution



POSITIVE IMAGES/Jerry Howard

Accountant II Inventory Control System

Operating System: RSX

Keywords: • Inventory • Report writer • Warehousing
• Wholesale

The Accountant II Inventory Control system is interrelated with the Accountant II Order Entry System. As merchandise is ordered and shipped to customers, the inventory movement is recorded by the Inventory Control System. The system provides the following:

- Inquiry capabilities — You can request a display of any item in the Inventory Master File. The information displayed includes the current on hand, on order, quantity allocated to unshipped orders, pricing, costs, and vendor information.
- Purchasing and receiving — Included is a purchase order subsystem that accepts order information, prints purchase orders, tracks the orders, and updates the inventory when the orders are received. The receiving function is performed on line on an exception or blind receiving basis.
- Physical inventory — A complete physical inventory subsystem is provided for taking and reporting physical inventory data. The system produces count sheets (in warehouse location sequence) for counting the inventory and prints physical inventory reports comparing physical counts to book inventory. When completed, the results of a physical inventory will update the inventory files.
- Management information — The system provides a number of standard reports to monitor inventory levels and movements. Since the system captures all activity affecting the inventory, any number of custom management reports can be designed.
- Reports — The system provides the following reporting capability: Low Inventory Level Report, Inventory Movement (Detail and Summary), Omission Reports, Purchase Orders, Open Purchase Order Lists, Receiving Reports, and Physical Inventory Reports.

A version of this product is available for the VAX computer.

Price: \$2,000 – \$3,000

Contact: Richard Northrup, Sales Director
(212) 221-2517

COMPUTRON BUSINESS SOLUTIONS, INC.
701 Seventh Avenue, Suite 9W
New York, NY 10036

Accountant II Order Entry System

Operating System: RSX

Keywords: • Billing • Order entry • Point of sale
• Wholesale

The Accountant II Order Entry System includes inventory allocation, invoicing, automatic back ordering, variable pricing, and prebilling or postbilling operations:

- Invoicing options — The system provides for variable discounting structures, special pricing, separate bill-to and ship-to addressing, variable salesperson commissions, and special terms. Normal default options established for each customer can be changed at order entry time for a particular order.
- Inventory interaction — All orders are verified against available inventory at the time of order entry. Out-of-stock conditions are immediately known so that substitutions can be made. All items ordered are reserved to prevent overallocation of stock.
- Picking documents — The picking documents produced by the systems include the generation of a short-form Straight Bill of Lading. In addition, the quantity to be back ordered is printed.
- Reports — The system provides warehouse picking documents, invoices, open-order lists, daily invoice registers, and out-of-stock reports.

A version of this product is available for the VAX computer.

Price: \$2,000 – \$3,000

Contact: Richard Northrup, Sales Director
(212) 221-2517

COMPUTRON BUSINESS SOLUTIONS, INC.
701 Seventh Avenue, Suite 9W
New York, NY 10036

Automatic Business Control System

Operating System: RSTS

Keywords: • Cost accounting • Forecasting • Inventory
• Purchasing

The system forecasts, plans, and controls sales, inventories, and procurement of all salable (inventory) items. A monthly detail of all transactions, which affect inventory balances (sales, receipts, transfers, and adjustments), is maintained for all inventory items. A forecast is automatically reset (for each item) quarterly, a plan is automatically reset (for each item) monthly, and a buying plan is automatically reset weekly.

The system writes purchase order records for all stock items, prints a line-buy weekly summary, prints purchase orders after buyer approval, and writes an accounts payable transaction record in abeyance of receipt of material and vendor invoice. The Automatic Business Control System posts and distributes vendor invoice and associated freight charges to general ledger (inventory) accounts, produces A/P “open item” and G/L account distribution detail records, and maintains a 2-year sales forecast, inventory, and procurement (requirements) plan for each stock item.

The system offers availability of many reports, line-buy plan for next three months (monthly), instantaneous gross cash flow (monthly), and product requirements plan for next four quarters (quarterly).

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Price: \$100,000 – \$500,000

Contact: Robert G. Donkin, President & ABC Systems Engineer
(918) 743-8986

AUTOMATIC BUSINESS CONTROL SYSTEMS
2300 East 14 Street, Suite 302
Tulsa, OK 74104

Automotive System

Operating System: RSTS

Keywords: • Accounting • Automotive • Inventory • Payroll

The Automotive System provides accounts receivable, accounts payable, payroll, general ledger, a purchase order system with guide history, order entry and billing, invoice and picking ticket generation, sales analysis, inventory control and analysis, over-counter invoicing capabilities, inventory cross-reference and information lookup, and word and list processing.

A version of this product is available for the VAX computer.

Price: \$2,000 – \$20,000

Contact: Andrew Yasenchak
(201) 231-9400

UNITRONIX CORP.
197 Meister Avenue
Somerville, NJ 08876

Beer and Wine Distributor's Package

Operating System: RT-11

Keywords: • Accounts receivable • Inventory • Wholesale

This comprehensive accounting and information system is designed for beer and wine distributors with 5 to 25 routes. The system is written in Pascal under a data manager system.

All components are interactive and include sales reporting, inventory, preselling, invoice reconciliation, accounts receivable, accounts payable, general ledger, and payroll. Both presell and regular route sales invoices are printed daily with current pricing, postoffs, and average delivery history.

Single-source data entry provides the user with a quick, accurate method of reconciling the invoices, routes, and day's activity. Reconciliation to loadsheet is automatic.

A complete multiwarehouse inventory control system is provided with purchase, warehouse and distributor transfers, and adjustment control for on-line current stock levels.

All data is posted automatically to provide many different reports: government reports, month-end inventory reconciliation reports, customer history by product, product sales by supplier, and salesperson activity lists.

Price: \$12,500

Contact: John Gardiner
(503) 388-3611

INFORMATION CONCEPTS, INC.
841 N.W. Bond Street, P.O. Box 85
Bend, OR 97709

BICAR (Billing, Inventory Control, and Accounts Receivable)

Operating System: CTS-300, RSX, RT-11

Keywords: • Accounts receivable • Billing • Inventory
• Sales and marketing

BICAR is a generalized menu-driven software package for performing billing, inventory control, accounts receivable, and sales analysis. Highly operator-oriented, BICAR has a large number of operator-controllable options and extensive data entry verification checking. Designed for small businesses, the package is configured such that implementation may consist of specific function modules, such as billing or inventory control, or may comprise the total package.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: John T. Rasted
(203) 265-2226

SOFTWARE DYNAMICS, INC.
1000 Yale Avenue, P.O. Box 500
Wallingford, CT 06492

Control — A System for Food, Paper, and Tobacco/ Candy Distributors

Operating System: CTS-300, RSTS

Keywords: • Accounting • Diagnostics • Report writer
• Wholesale

Control is an interactive, integrated series of programs for order entry, picking, truck routing, route reconciliation, invoicing, inventory control, accounts receivable, purchasing, sales commissions, loan equipment control, cash and carry, and a wide variety of analysis reports that track sales, profit, and unit movement — by product, customer, vendor, buyer, and salesperson — both detail and summary reporting. Special features provide for remote order entry via MSI portable terminals, catch weight control, full- and split-case control, slot control, picking labels or lists, multiple street prices, promos, deals, SPIFFS,

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cost per serving analysis, price books, product catalogs, customer reorder forms, commissions tied to collections, dunning letters, and much more.

Daily exception reports highlight stock outs, customers over credit, orders below desired minimum, line items billed below cost or desired GP or having a manual override, stock below minimum, and POs overdue. Demand reports track daily, weekly, MTD, YTD, and 12 individual past month's activity/profit analysis on customers and products. Most reports also have CRT displays.

Other special features include alpha search, product numbers a cross tied to UPC numbers, automatic product substitution where allowed, credit and stock availability check at the time of order entry, future price changes, and bid control.

All operations are menu controlled, multi-CRT, and multiple-printer sensitive. Passwords control access. The system is multiple-company and multiwarehouse sensitive. It has been installed in more than 60 sites in 36 states and Canada.

Ongoing support is provided through on-line remote diagnostics.

Companion systems are available for AP, PR, GL, VM, and asset accounting.

Price: \$15,000 – \$25,000

Contact: Robert J. Steinis
(203) 378-6010

FOOD DISTRIBUTOR SYSTEMS, INC.
959 Main Street
Stratford, CT 06497

DACMS (Distribution and Cash Management System)

Operating System: RSTS, RSX

Keywords: • Decision support • Inventory • Order entry
• Purchasing

DACMS provides a fully integrated series of program modules: Purchasing, Material Management, Order Processing, and Cash Management. This system has been designed through years of user interaction and includes more than 50 application programs for any type business that needs clear, informative inventory and cash management reports.

Available for fast, efficient, trouble-free installation, DACMS is a turn-key system, which means hassle-free transfer from your current system to DACMS.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Roberta Routhe, Manager DP Operations
(612) 571-1249

CUSTOM DIGITAL SERVICES
999 50th Avenue Northeast
Minneapolis, MN 55421

DECTap Tailored Application Program, Version 1.1

Operating System: None required

Keywords: • Computer-aided instruction • Menu handlers
• Query facilities • Report writer

DECTap, a group of multiuser business data processing software systems for the PDP-11/23-PLUS, is designed for hard goods wholesale distributors. The DECTap Base System provides a set of functions that support the use of eight optional business application systems: order processing, inventory control, sales analysis, accounts receivable, accounts payable, general ledger, fixed assets, and payroll. The Base System, which is a prerequisite for the application systems, provides a menu control facility, an access security facility, a report writer for defining simple, custom reports, a disk backup utility, a tailoring facility, and a system control software.

DECTap software has an easy-to-use interactive tailoring facility, which involves answering a series of questions about the user's business operations. Computer-based instruction for application system operation is provided. Users progress at their own rate and can control their learning material.

Each of the DECTap systems can be used stand alone except as follows:

- Order processing requires installation of the accounts receivable and inventory control systems.
- Sales analysis requires installation of the order processing system.

Each system can be integrated with other installed systems of the package for both data flow and data input verification. Installation of the DECTap Base System is required to use any of the application systems.

DECTap customer documentation consists of a system manager's guide and a user's guide for each application system.

Refer to SPD #14.32.02 when requesting further information on this product from your local DIGITAL sales office.

Price: Available upon request

Contact: Consult your local DIGITAL sales office
(see Introduction).

DIBS-11/CTS-500, Version 1.0

Operating System: RSTS

Keywords: • Accounting • Documentation • Wholesale
• Word processing

DIBS-11/CTS-500 is a multiuser wholesale distributor's accounting software package written in DIBOL to run under the CTS-500 operating system. DIBS-11/CTS-500 comprises five accounting modules: Order Entry/Invoicing/Inventory, General Ledger, Accounts Receivable, Accounts Payable, and Payroll.

Each module can be used as a stand alone except Order Entry, which needs Accounts REceivable. DIBS-11/CTS-500 is designed to run with the other accounting modules/systems when used with the DIBS-11 Account Group integrator. Each module can be integrated with the rest of the system for both data flow and/or data input verification.

The package is a base on which to build vertically marketed packages. DIBS-11 is divided into routines by function for ease of maintenance and modification.

Documentation is provided on both word processing diskettes and in printed form. DIBS-11/CTS-500 documentation consists of a user's guide, program explanations, and detailed, step-by-step operating instructions. A manager's guide covers system-level aspects of the software, including report, screen, file layouts, and data entry specifications. A site manager's guide covers day-to-day housekeeping functions. CTS-500 specifies documentation that covers material unique to DIBS-11 on CTS-500. That documentation is provided as an update to the system guide. A programmer's guide helps a programmer work within the environment of the system. The guide also contains subroutine descriptions and an index.

The DIBS-11/CTS-500 system uses the DIBS-11/CTS-500 standard menu driver subsystem; the account group subsystem, which is the path for data to get to the General Ledger; and DIBS-11/CTS-500 standard routines. The system uses the standard maintenance programs and tables (parameters, defaults, and verification for nonintegrated systems).

Refer to SPD #13.31.1 when requesting further information on this product from your local DIGITAL sales office.

Price: Available upon request

Contact: Consult your local DIGITAL sales office
(see Introduction).

DIBS-11/UK, Version 1.0

Operating System: CTS-300

Keywords: • Accounting • Documentation • Menu handlers
• Wholesale

DIBS-11/UK is a multiuser wholesale distributor's accounting software package written in DIBOL to run under the CTS-300 operating system. DIBS-11/UK comprises four accounting modules: Order Entry/Invoicing/Inventory, General Ledger, Accounts Receivable, and Accounts Payable.

Each module can be used as a stand alone except Order Entry, which needs Accounts Receivable. DIBS-11/UK is designed to run with the other accounting modules/systems when used with the DIBS-11/UK Account Group integrator. Each module can be integrated with the rest of the system for both data input and/or data verification.

The package is a base on which to build vertically marketed application packages. DIBS-11/UK is divided into routines by function for ease of maintenance and modification.

DIBS-11/UK documentation consists of a user's guide, complete with conversion forms to DIBS-11/UK; program explanations; and detailed step-by-step operating instructions. The applications summary covers system-level aspects of the software, inclusive of report, screen, file layouts, and data entry specifications. The site manager's guide covers day-to-day housekeeping functions. The programmer's handbook helps a programmer live within the environment of the system. The handbook also contains subroutine descriptions and an index.

The DIBS-11/UK system uses the DIBS-11/UK standard menu driver subsystem; the account group subsystem, which is the path for data to get to the General Ledger; and DIBS-11/UK standard routines. The system uses the standard maintenance programs and tables (parameters, defaults, and verification for the nonintegrated systems).

Refer to SPD #12.54.0 when requesting further information on this product from your local DIGITAL sales office.

Price: Available upon request

Contact: Consult your local DIGITAL sales office
(see Introduction).

Distribusyst (Distribution Management System)

Operating System: RSX, RT-11

Keywords: • Accounting • Financial analysis • Inventory
• Order entry

Distribusyst is an interactive system that controls distribution activity, including order entry, inventory control, pick lists, checking, packing lists, inventory control, purchasing, and gross profit analysis. Distribusyst also manages accounting functions, including billing, sales analysis, accounts receivable, purchasing, accounts payable, payroll, general ledger, and financial reporting.

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Price: \$6,000 – \$12,000

Contact: Harmon Houghton, Director of Marketing
(201) 348-6688

UNEX COMPUTER DIVISION
1023 Boulevard East
Weehawken, NJ 07087

Distribution — Wholesale and Retail

Operating System: RSTS

Keywords: • Purchasing • Retail • Warehousing
• Wholesale

This comprehensive set of modules is installed in a wide variety of major distributors. The PDP-11 version will run on MICRO-11 upwards; the VAX version is specially designed and written to exploit VAX to the maximum. More than 12 years experience in on-line commercial distribution is built into the packages.

Multiwarehouse, sophisticated inventory control, and sales management are integrated into financial accounting.

A version of this product is available for the VAX computer.

Price: \$30,000 – \$100,000

Contact: Dr. E. A. Haworth
01 248 7100

M.C.S.
3, Wynnsley Grove, Fallowfield
Manchester
United Kingdom

Distribution Management System

Operating System: CTS-300, RSTS, RT-11

Keywords: • Billing • Inventory • Order entry • Retail

The interactive Distribution System allows one to process customer orders, keep inventory, create invoices, and store sales information. The system provides for price changes, cost calculations, inventory status, and sales data and supports sales history, gross profit, and inventory control. In addition, the system can integrate fully with the Accounts Receivable and General Ledger systems. The system greatly reduces time and effort in creating, shipping, and billing orders. Features of the system include:

- **Validation:** All data entered is validated immediately. This procedure increases productivity and reduces the likelihood of shipping the wrong product.
- **Control:** System accuracy is ensured through batch totals and data entry journals.

- Management reports: Order processing provides management and summary reports showing customer and inventory activity, helping the user plan and manage.
- Integration: Complete integration is provided with the General Ledger via the Accounts Receivable System. Journal and General Ledger account numbers are controlled by the user.
- Manual override: Automatic features may be changed by data entry operations, meeting unique requirements easily.
- Immediate updating: The system identifies items on order, back ordered, reserve amounts ready for shipment, and items on hand.
- Credit control: Customer preset credit limit is used to control order entry.

A version of this product is available for the VAX computer.

Price: \$3,000 – \$5,000

Contact: Charles Calvert
(301) 296-9032

SMITH, ABBOTT, AND COMPANY, INC.
300 E. Joppa Road
Baltimore, MD 21204

DMS (Distributor Management System)

Operating System: UNIX

Keywords: • Accounts receivable • Inventory • Order entry
• Wholesale

DMS is a set of fully integrated software modules, including order processing, accounts receivable, and inventory management, designed to process and track the flow of orders and their corresponding accounting transactions for wholesale distributors. DMS can be fully integrated with financial modules such as general ledger, accounts payable, and payroll.

Price: Available upon request

Contact: Sam Bishop, Vice President, Sales
(312) 879-1008

UNIQU DIGITAL SYSTEMS
143 First Street
Batavia, IL 60510

DSS (Distribution Strategy Simulator)

Operating System: RSTS, RSX

Keywords: • Decision support • Financial analysis
• Simulation

The growing complexity of distribution networks and the length of time it takes to cost out alternatives can force management to address distribution issues in isolation. DSS provides the capability of addressing the entire distribution strategy whenever any variable such as transportation costs, new products, product costs, and so on, change.

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DSS can handle any form of distribution network and any form of cost information. The program can establish the best use of a network, can accept user modifications, and provides a wide variety of analytical reports.

Price: Available upon request

Contact: Hank Johansson

(212) 536-2994

COOPERS & LYBRAND

1251 Avenue of the Americas

New York, NY 10020

Electronic Component Distribution System

Operating System: RSTS

Keywords: • Electronic • Inventory • Order entry

• Wholesale

The electronic component distribution system is specially designed to improve and maximize profitability of distributors of components, boards, and modules. This well-proven, robust system can be supported worldwide and is installed in the United States, United Kingdom, France, and Germany.

The system is very economical to run, easy to install, and has many features specific to electronic component distribution.

A version of this product is available for the VAX computer.

Price: \$10,000 – \$60,000

Contact: Dr. E. A. Haworth

01 248 7100

M.C.S.

3 Wynnsley Grove, Fallowfield

Manchester

United Kingdom

EMIS (Equipment Management Information System)

Operating System: CICS, CTS-300, DSM (MUMPS), IAS, RSTS, RSX

Keywords: • Maintenance • Manufacturing • Transportation

• Utilities

EMIS, a comprehensive fleet management system, reports on equipment, inventory, fuel, repairs, finances, preventive maintenance, and shop productivity; identifies vehicles and personnel with good and bad MPG; tracks all the detailed data needed for day-to-day operation; and summarizes key cost and performance items for management.

A version of this product is available for the VAX computer.

Price: \$15,000 – \$75,000

Contact: John Gorman
(305) 788-3474

FLEET MANAGEMENT SYSTEMS, INC.
147 W. Lyman Avenue
Winter Park, FL 32789

Fedder Auto Parts System

Operating System: ULTRIX, UNIX

Keywords: • Automotive • Construction • Retail
• Warehousing

This specialized version of the Fedder Foresight™ Scientific Inventory Management System provides both front counter and back office operation, with special features for cores, supersedes parts, and interchanges. The system handles multiple pricing, branch store, jobber, and warehouse distributor operations.

Individual auto parts stores and jobbers are the prime market. The system is also suitable for parts departments of auto dealers and truck, farm, construction, and other equipment dealers.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: David E. Fedder
(301) 539-2121

FEDDER SOFTWARE, INC.
P.O. Box 27149
Baltimore, MD 212300149

FORMS (Forms Order Reorder Management System)

Operating System: RSTS, RSX, RT-11

Keywords: • Data entry • Forms management • Order entry
• Purchasing

FORMS provides order entry, purchase order processing, invoicing, inventory, and forms management functions for a business forms distributor.

A version of this product is available for the VAX computer.

Price: \$5,000

Contact: Donald Rubin, President
(301) 982-1818

SYSTEMS ENGINEERING TECHNOLOGY INC.
10676 High Beam Court
Columbia, MD 21044

Freight Forwarder System

Operating System: RSTS

Keywords: • Accounting • Materials handling • Operations
• Warehousing

This system is used by the major United Kingdom surface and air forwarders. More than 40 locations use the system, which has modules covering all aspects of international freight movement. Financial control, multicurrency ledgers, and job costing ensure maximum profit. Traffic analysis permits market viability to be analyzed.

Price: \$5,000 – \$60,000

Contact: Dr. E. A. Haworth
(01) 248-7100

M.C.S.
3, Wynnsly Grove, Fallowfield
Manchester
United Kingdom

Fuel Oil Accounting/Delivery Scheduling

Operating System: RSTS

Keywords: • Accounts receivable • Billing • Petroleum
• Scheduling

The ADD Fuel System helps the petroleum marketer to forecast deliveries (on either a degree day or a dated basis), automatically adjust for hot-water consumption in all seasons, control credit and collections, and generate dunning notices as required. The system can also produce “instant invoices” and “instant statements,” maintain balance-forward and open-item accounts, and process budget and nonbudget accounts. The system accommodates accounts that purchase multiple products or that have many delivery locations. Accounts may be located and all account information displayed on a terminal via the account's name, address, number, telephone number, or practically any other key.

A report generator is an integral part of this system, thus allowing the user to produce ad hoc reports. The system also provides a total accounts receivable system, including sales and cash journals for any period desired by the user as well as detailed tax reports and summaries.

A version of this product is available for the VAX computer.

Price: \$15,000 – \$30,000

Contact: Bruce A. Bott, President
(201) 584-4026

ADVANCED DIGITAL DATA, INC.
354 Route 206
Flanders, NJ 07836

IC-11 (Inventory Control)

Operating System: RSTS, RSX

Keywords: • Billing • Inventory • Retail • Wholesale

IC-11 is a layered product, requiring OE-11 and AR-11 as a base. The combination of these three packages provides the user with complete information required for maintaining inventory records, placing orders, invoicing, and updating accounts receivable information. The IC-11 system provides flexibility through quantity tailoring, allowing the user to position the decimal point anywhere in an 18-character field. Unlimited units of measure can also be established for different packaging, lengths, types, colors, and finishes. Multiple warehouses can be defined, stocked, and relieved. Transfer of products from one warehouse to another is handled expeditiously with an interactive screen form and is costed according to either branch or separate company determination. IC-11 perpetually costs each order from order entry as it is invoiced. This cost can be based on any one of four methods (set by a tailoring code): LIFO, FIFO, average cost, or specific cost. During check-in, the purchase order cost may be entered (to speed the sale of merchandise). Any number of subsequent cost adjustments may be made, reflecting an invoice discrepancy, freight-in, and so on. Cost adjustments are automatically reflected for invoiced as well as stock merchandise. All IC-11 reporting allows the specification of any date range, warehouse, unit of measure, and product range. The Inventory Turns shows an annual turns calculation based on the date range specified. The Inventory Movement report allows up to six period/date specifications to show the movement between each period. The Purchase Analysis calculates an average movement for six months, reports last month's sales, and compares this with reorder quantities and other purchasing information. Physical inventory is facilitated by incremental freezing of stock and an interactive adjustment screen that automatically adjusts the inventory levels. Physical inventory is accomplished after freezing any portions of stock, allowing incremental counting of merchandise.

A version of this product is available for the VAX computer.

Price: \$3,500 – \$4,500

Contact: Larry Landusky, Marketing
(806) 792-3785

COMPU-SHARE, INC.
3824 50th Street
Lubbock, TX 79413

ICAMS (Inventory Control and Management System)

Operating System: RSTS

Keywords: • General ledger • Inventory • Order entry
• Wholesale

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ICAMS is a complete order entry and inventory control system that applies discounts and quantity breaks by vendor line and customer, identifies substitution and alternate inventory items, offers "bill-to" and multiple "ship-to" capabilities, contains 10 price levels based on customer type, interfaces into complete inventory and sales analysis systems, and completely interfaces with accounts payable, purchase order, accounts receivable, and general ledger systems.

A version of this product is available for the VAX computer.

Price: \$5,000 – \$25,000

Contact: Anthony J. Ruggeri

(314) 644-4050

AUTOMATED INFORMATION INC.

6710 Clayton Road

St. Louis, MO 63105

Identocheck

Operating System: RSX

Keywords: • Inventory • Quality control • Signal processing
• Warehousing

Identocheck uses voice recognition input to count and verify the order item and quantity. The batch or lot number may be verified or input to a permanent order record. Identocheck verifies pick accuracy to 100%, increases checker accuracy to 100%, and prompts checker counts and batch/lot inputs.

Checker productivity is increased by 50%. The checker checks only until the discrepancy is located. Checker security risk is reduced. The system records all adds, deletes, inserts, removes, and checker overrides. The checker can call in and record lot and batch numbers for the item picked. The system generates order checking adjustment reports and accurate packing slips and maintains orders not checked. Identocheck can use voice input, bar scan input, or keypad input. The system also has voice output, print output, or visual display.

Price: \$12,000 – \$18,000

Contact: Harmon Houghton, Director of Marketing

(201) 348-6688

UNEX COMPUTER DIVISION

1023 Boulevard East

Weehawken, NJ 07087

Identopick

Operating System: RSX

Keywords: • Inventory • Warehousing

This paperless order picking system manages order picking and selection by displaying order numbers and item quantity to pick at individual bins through the use of LED displays. Logical pick zones may be selected to balance picker productivity. Identopick maintains a product master and location map and tracks the progress of order selection throughout the warehouse. Items are automatically identified through a pick display (LEDs). The system increases picking productivity 100% and reduces order selection 66%; trains and orients a picker in one-half hour; identifies bulk and case pick zones; generates daily load sheets, accurate packing slips, and warehouse productivity reports; ties in with order checking; provides automatic order picking sequencing, balancing of multiple-location items, and substitution for out-of-stock items; gives the warehouse manager control of product location; and offers random-order sequencing with bar code option.

Price: \$29,000

Contact: Harmon Houghton, Director of Marketing
(201) 348-6688
UNEX COMPUTER DIVISION
1023 Boulevard East
Weehawken, NJ 07087

INV (Inventory Control Facility)

Operating System: RSTS

Keywords: • Inventory • Security

The INV package includes the following basic features:

- Inventory record loading, including standard record header fields, table-driven custom subfields, repeating groups of fields for vendor order information, field change, and record delete
- Global change to all records for a field or a subfield
- Inventory display, including inquiry and report generation

When INV is installed with other packages, there is automatic posting to the various relevant master files, including the customer, vendor general ledger, and inventory files.

The INV package is designed for high efficiency and ease of use to meet the total interactive computing needs of the small business, corporate division, or institution. INV ensures the integrity of the inventory posting procedures and security of data.

A version of this product is available for the VAX computer.

Price: \$9,000

Contact: Muriel King
(801) 224-5306
CLYDE DIGITAL SYSTEMS, INC.
3707 N. Canyon Road, Suite 3-E
Provo, UT 84604

Inventory Control System

Operating System: RSTS

Keywords: • Cost accounting • Inventory • Warehousing

This on-line interactive system controls the basic inventory functions and provides comprehensive reports for efficient inventory management. The system manages restocking, physical count processing, inquiry, price books, and file maintenance for single or multiple warehouse locations. The I/C system provides comprehensive master and warehouse records, quantity and customer-based pricing, plus trade, customer, and chain discounting. Provisions are also made for replacement, highest replacement, average, and user-defined costs. The complete reporting features allow for timely, effective management for cost control.

A version of this product is available for the VAX computer.

Price: \$6,900 – \$33,500

Contact: Marketing Department
(502) 491-9820 or 1-800-626-6268

AMCOR COMPUTER CORP.

1900 Plantside Drive
Louisville, KY 40299

Master Route Distribution System

Operating System: CTS-300, RSTS

Keywords: • Accounts receivable • Billing • Inventory
• Wholesale

The BAKCO Master Route (Beer/Softdrink) Distribution System consists of three different route accounting systems, as follows:

- Driver Sell, a route accounting system by which delivery trucks are filled with merchandise that the drivers deliver and sell. The drivers go out on established routes, selling and delivering to individual customers. Completed sales tickets (invoices) are generated, and cash is often collected as part of this delivery function.
- Presell, a route accounting system by which salesmen solicit orders from customers in advance of delivery. Invoice and truck load sheets are then prepared, and the delivery trucks are loaded with merchandise for customers according to specific routes.
- A combination of both Driver Sell and Presell within the same company.

The BAKCO Master Route Distribution System loads salesmen's orders into the computer (Presell), generates preprinted invoices (Presell) and truck load sheets (Presell), and generates preprinted order forms (Driver Sell). Other application areas are route reconciliation, invoice registers, accounts receivable, inventory and purchase control, salesman commissions, sales analysis reports, marketing and statistical reports, state tax reports, and general ledger.

A version of this product is available for the VAX computer.

Price: Available upon request
Contact: Jerry Baker, President
 (312) 956-1053
 BAKCO DATA, INC.
 85 W. Algonquin Road, Suite 190
 Arlington Heights, IL 60005

MBS-ASR (Manus Business Systems — Automatic Stock Replenishment)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Inventory • Purchasing • Warehousing
 • Wholesale

MBS Automatic Stock Replenishment uses data collected by the (pre-requisite) MBS Order Processing and MBS Purchase Order Management modules to calculate suggested stock reorders. The system uses 18 months of order and ship quantity data to classify products based on movement and cost. Once products have been classified, the system will apply one of five ordering algorithms to calculate the proper suggested order quantity. The purchasing manager is then able to order on an exception basis, concentrating on the small number of products for which special knowledge and experience are most important.

A version of this product is available for the VAX computer.

Price: \$4,000 – \$6,000
Contact: Gary Vowels
 (206) 285-3260
 MANUS SERVICES CORP.
 1700 Westlake Avenue North
 Seattle, WA 98109

MBS-IM (Manus Business Systems — Inventory Management)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Inventory • Warehousing • Wholesale

The MBS Inventory Management Module is designed to provide the capabilities needed for effective inventory accounting and control. The module includes functions for maintaining product files for single or multiple warehouses. Inquiry functions provide rapid summary information on inventory status. A function is available to adjust stock levels through several types of inventory transactions, including physical adjustments, returned merchandise, and interwarehouse transfers. Audit trails are produced to allow management to monitor changing stock levels and to guard against erroneous or unauthorized stock access.

Several functions are included to assist in performing physical inventory count. Special functions are available in the module for maintaining item price and cost data over periodic intervals and for having product values automatically updated at predefined dates. Various reports provide useful management tools to help prevent loss of sales due to out-of-stock conditions.

The Inventory Management Module interfaces, through transaction processing, the MBS Order Entry/Invoicing, Purchase Order Management, and General Ledger modules.

A version of this product is available for the VAX computer.

Price: \$4,000 – \$9,000

Contact: Gary Vowels
(206) 285-3260

MANUS SERVICES CORP.
1700 Westlake Avenue North
Seattle, WA 98109

MBS-OP (Manus Business Systems — Order Processing)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Order entry • Warehousing • Wholesale

The MBS Order Processing module provides all capabilities required for single or multiple warehouse order processing operating in pre- and postbilling modes. In a complete system, this module is fully integrated with four other MBS modules: Inventory Management, Sales Analysis, Accounts Receivable, and General Ledger. The module has been successfully installed in low-volume single-warehouse and high-volume (8,000 + order lines/day) multiwarehouse environments.

In the prebilling mode, orders are entered with stock volume checking. Picking tickets are directed to a warehouse printer. The open order is maintained until picking exceptions and shipping information is entered, at which time the invoice is generated and back orders are created. When back orders become fillable due to receipt of stock, a new order is automatically generated. The postbilling mode bypasses the picking ticket production, creating an invoice or memo immediately, with back-order support as needed. Several inquiries give the user complete visibility of orders, back orders, and stock levels.

Reports are provided for status and audit trail purposes. Those reports offer the user sort and selection options. Special functions support interwarehouse transfer of stock.

A version of this product is available for the VAX computer.

Price: \$6,000 – \$15,000
Contact: Gary Vowels
 (206) 285-3260
 MANUS SERVICES CORP.
 1700 Westlake Avenue North
 Seattle, WA 98109

MBS-PO (Manus Business Systems — Purchase Order Management)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Inventory • Purchasing • Warehousing
 • Wholesale

The MBS Purchase Order Management module provides the capabilities for performing all purchasing activities related to an inventory control system. The module includes functions needed to maintain a vendor master file and to prepare purchase orders in an on-line mode for those vendors. All purchase orders issued are retained on file until all the line items ordered are processed. Received merchandise is recorded through receipt transactions and is applied against an open P/O. Back-order information can be generated at receipt entry time, if desired. Receipt transactions for noninventoried items are specially processed so that the receipt of such merchandise can be related back to the original sales order. Several report functions, with varying selection and sort options, provide P/O status and audit trail reporting. A Vendor History Report shows vendor service performance on a year-to-date basis. Inquiry functions give immediate access to vendor data and to the current status of issued P/Os. In an integrated system, the Purchase Order Management module directly interfaces with Inventory Management.

A version of this product is available for the VAX computer.

Price: \$6,000 – \$9,000
Contact: Gary Vowels
 (206) 285-3260
 MANUS SERVICES CORP.
 1700 Westlake Avenue North
 Seattle, WA 98109

MBS-SA (Manus Business Systems — Sales Analysis)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Financial analysis • Sales and marketing
 • Warehousing • Wholesale

The MBS Sales Analysis module provides reports to aid in the evaluation of individual customer, customer groups, territories, salespeople, and product sales activity. As such, this module recaps pertinent activity of the entire MBS Sales Accounting subsystem.

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Used as a management tool, the Sales Analysis module produces information necessary to detect complex sales trends (thus providing a basis for determining competitive activity), to perform market share analysis, and to improve the efficiency of sales personnel. In addition, product activity information can be obtained by product classification for a specified demand period. Depending on the amount of historical data available on the demand period increments, the sales analysis information can help reduce inventory levels that increase the extent of stock turnaround.

Reports containing information on percent profit and profit dollars can be used by management to make decisions concerning marketing strategies for various product categories.

The Sales Analysis module captures and accumulates sales history data as a result of invoicing in the MBS Order Processing module. A current and prior year-to-date history file is used for producing reports.

A version of this product is available for the VAX computer.

Price: \$3,000 – \$6,000

Contact: Gary Vowels
(206) 285-3260

MANUS SERVICES CORP.
1700 Westlake Avenue North
Seattle, WA 98109

MBS/WD (Automotive Parts Warehouse Distributor System)

Operating System: RSTS

Keywords: • Automotive • Warehousing • Wholesale

MBS/WD consists of fully integrated modules for order processing, inventory management, purchasing management, sales analysis, accounts receivable, accounts payable, and general ledger specifically tailored for the automotive aftermarket wholesaler. Specific emphasis has been placed on improving customer service by fast and efficient order processing, zoned picking tickets by warehouse, inventory visibility, interwarehouse transfer of stock, full back-order processing, and accurate sales analysis. Order entry functions are designed to support telephone and will-call counter order entry.

Inventory investment analysis is also given special attention. Stock movements are retained and used to classify the inventories for automated stock replenishment. Automatic replenishment applies one of five ordering algorithms to the movement history to compute a suggested order that the purchasing manager reviews and modifies by exception, thereby concentrating on those items requiring special knowledge.

Price: \$12,600 – \$38,700

Contact: Gary Vowels
(206) 285-3260

MANUS SERVICES CORP.
1700 Westlake Avenue North
Seattle, WA 98109

Meat, Poultry, and Fish Distribution System

Operating System: CTS-300, RSTS

Keywords: • Inventory • Order entry • Warehousing

This on-line interactive multiprocessing system gives management control of the distribution environment. The system handles up to 99 warehouses for each of 9 companies. Regular customer orders, drop-ship orders, quotations, warehouse transfers, debit memos, and several types of credit memos can be entered. Orders may be entered on line, locally, or from branch locations. Common data is shared for all customer credit checking, parts validation, and pricing.

Picking tickets can be produced on demand, requesting both pieces and weight of each product ordered. Invoices can be generated on demand to go with the shipment. This part of the program can be integrated with an accounts receivable module.

Comprehensive stock-status reports can be selectively produced by vendor and show not only inventory status (both pieces and weight), but also 15-month sales trends and lost-sales history for each inventory item. The system includes a full purchasing control module. The pricing module accommodates extensive matrix pricing.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Jerry Baker, President
(312) 956-1053

BAKCO DATA, INC.
85 W. Algonquin Road, Suite 190
Arlington Heights, IL 60005

MMS-1 (Material Management System)

Operating System: RSX

Keywords: • Inventory • Materials handling • Warehousing

The MMS-1 system for stockrooms, suppliers, and distribution centers manages your stockroom, warehouse, tool crib, or supply center. MMS-1 operates with conventional storage, using racks, bins, shelves, or pallets. MMS-1 also controls automated storage and retrieval equipment, such as miniload stackers and carousels.

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MMS-1 provides real-time inventory control through on-the-spot data capture for immediate and accurate inventory of up to 50,000 items. Part-location indexing eliminates time-wasting searches by providing exact locations for picking or stocking items. Space management provides automatic assignment of free space to new items for efficient use of storage facilities.

An additional feature is cycle audit control, for automatic scheduling and recording of progressive inventory counting to eliminate annual shutdown. MMS-1 also provides audit trail reporting for a complete printed log of all transactions. Finally, MMS-1 provides management reporting through attractive screen displays and reports of activity, inventory, and status summaries.

Host computer feedback, label printing for travel tickets and locations tags, and AS/RS control are optional.

A version of this product is available for the VAX computer.

Price: \$11,000 – \$21,000

Contact: Ronald Tepper, President
(212) 695-5001

RGTI SYSTEMS SOFTWARE

One Penn Plaza

New York, NY 10001

MODS (Manus Oil Dealer System)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts receivable • Billing • Inventory
• Petroleum

The Manus Oil Dealer System is specifically designed to meet the processing needs of the fuel oil dealer. The system provides complete degree-day accounting for automatic preparation and scheduling of delivery tickets for heating customers, an extensive customer data base with ready access through inquiry functions, and historical information on deliveries and service calls. The full accounts receivable program included provides complete accounting records, customer statements, and optional printing of delivery or service invoices. Credit management functions provide customer agings, finance charges, dunning notices, billing for a variety of budget payment plans, high visibility of accounts with credit problems, as well as a "tickler" file for credit followup. Management reporting provides sales and tax breakdowns, a profitability analysis, and truck/driver activity reports. For the service department, the system provides for contract billings, profitability analysis of service contracts, service call histories, and servicemen activity recaps.

The system may also be integrated with a full accounting package providing general ledger, financial reporting, accounts payable, payroll, and word processing capabilities.

Price: \$20,000

Contact: Gary Vowels
(206) 285-3260

MANUS SERVICES CORP.
1700 Westlake Avenue North
Seattle, WA 98109

OE-11 (Order Entry and Invoicing)

Operating System: RSTS, RSX

Keywords: • Order entry • Purchasing • Retail • Wholesale

OE-11 is an order entry, invoicing, and sales analysis system that operates with the Inventory Control system (IC-11) and the Accounts Receivable system (AR-11).

Each product may be defined with a 15-character product code, a 120-character description, and a 3-character department. Product code formats are user-defined. Products can be either generic (no inventoried item) or inventoried and can be classified as obsolete or replaced. Each product has an 18-digit quantity field with 8 characters to the right of the decimal point. Price changes are made in advance of the actual pricing change and are stored until the date of change. Pricing is controlled by four base-price fields plus special controls that can be limited by customer, class, product department, quantity purchased, dollar amount purchased, and so forth. The system tells what contract pricing is available, has unlimited units of measure, and supports multiple warehouses.

The order entry process validates customers, recalls information from the customer files, provides on-hand quantity, and performs immediate pricing. Prices can be changed during order entry with reason codes or passwords. A customer can be added during order entry. Credit memos can be entered and processed. The status of an order can be determined at any time, and processing requirements can be defined by the user.

Reports include new orders, master orders, order status, product sales analysis, customer sales analysis, back orders, missed orders, cancelled orders, direct ships, special orders, current prices, historical price changes, and pending price changes. Forms include new-order information, generic price sheets, customer price sheets, acknowledgments, picking lists, packing lists, shipping papers, invoices, and credit memos.

A user's guide includes information for the office manager, the terminal operator, and the application manager. A reference manual for the system manager and the programmer includes installation procedures such as program flows and data formats.

A version of this product is available for the VAX computer.

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Price: \$3,500 – \$4,500

Contact: Larry Landusky, Marketing
(806) 792-3785
COMPU-SHARE, INC.
3824 50th Street
Lubbock, TX 79413

OPRA

Operating System: RSTS

Keywords: • Billing • Inventory • Order entry • Wholesale

OPRA provides complete facilities for purchase and sales order processing, goods-in, goods-out, stock control, and invoicing. The system is appropriate for organizations with a significant distribution function — wholesale, retail, manufacturing, and an annual turnover in excess of £5 million. The product is particularly applicable to retail, the wine and beer trade, the clothing trade, and manufacturing in general. The system interfaces directly with the APRA integrated accounting system. The system features on-line validation, stock update, credit checking, and stock reservation; facilities to handle returned stock, discounts, delivery dates, delivery addresses, and delivery link codes; controlled product substitution; multiple date-related base selling prices per product; documentation that includes goods-in advices, picking notes, delivery notes, and invoices; on-line confirmation, cancelation, part confirmation of receipts, and acceptance of additional/alternative items; automatic back-ordering and order release; repricing of goods not yet delivered; and comprehensive on-line inquiries.

A version of this product is available for the VAX computer.

Price: £11,000 – £18,000

Contact: J. Goldsmith
0252 544321
SOFTWARE SCIENCES LTD.
Abbey House, 282/292 Farnborough Road
Farnborough, Hampshire GU14 7NB
England

ORDENT-IMPRS General Business Order Entry O/E System

Operating System: RSTS, RSX, RT-11

Keywords: • Billing • Credit • Inventory • Order entry

The fully interactive, self-prompting Business Order Entry System with inventory control, credit limit checking, automatic back ordering, and interactive reporting has the following features:

- Automatic credit checking authorization, selective back-ordering techniques, and generation of picking tickets/invoices/credit memos

- On-line O/E editing with error and correction prompts, as well as on-line shipping entry with selective back ordering
- Overriding out-of-stock conditions
- Immediate inventory control allocation functions
- Flexibility to allow for special pricing and discounting techniques
- Add-on picking ticket and invoices comments
- Overriding ship-to address information
- Integration with other IMPRS application packages

A version of this product is available for the VAX computer.

Price: \$2,000

Contact: Elvin E. Smith or Forrest E. Weddle
(913) 782-8544
RUF CORP.
1533 E. Spruce
Olathe, KS 66061

Order Entry/Inventory System

Operating System: RSTS

Keywords: • Accounts receivable • Inventory • Order entry
• Wholesale

The Order Entry System automatically converts shipped orders to receivables. The Accounts Receivable rounds out the Inventory System, informing you of your current receivables. The Order Entry/Inventory package includes:

- Generation of packing slips
- Entry of shipments
- Automatic invoicing and updating of inventory
- Order cancellation with automatic inventory adjustment
- Partial or complete shipments
- Full array of back-order reporting
- Period-to-date and year-to-date unit sales, dollar sales, and cost figures
- Stock status reports indicating items requiring reordering, below minimum inventory level, or above maximum inventory level
- Ten price lists with automatic selection by customer (prices can also be changed at time of order entry)

The Order Entry/Inventory System produces packing slips; invoices; cancellation, inventory transaction, open order (by customer or items), stock status, and customer analysis reports; and sales journals.

A version of this product is available for the VAX computer.

Price: \$1,500 – \$20,000

Contact: William R. Paschal, Jr.
(405) 843-7323
DATATEK CORP.
818 N.W. 63rd
Oklahoma City, OK 73116

Order Processing

Operating System: RSTS

Keywords: • Data entry • Order entry • Query facilities

This interactive system features operator prompting and extensive on-line editing and validation of order entry information. The system automatically adds data to existing order data. Picking tickets and invoices are automatically produced from the open-order file. Complete maintenance is available against open orders. Order Processing operates in prebilling and/or postbilling environments and provides for simultaneous entry of orders from multiple terminals, multiple location processing, multiple selling prices, and automatic back order and future order (seasonal) control with full reporting.

A version of this product is available for the VAX computer.

Price: \$6,900 – \$33,500

Contact: Marketing Department
(502) 491-9820 or 1-800-626-6268
AMCOR COMPUTER CORP.
1900 Plantside Drive
Louisville, KY 40299

Order Processing

Operating System: RSTS

Keywords: • Order entry

This program offers a complete order-processing system.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Andrew Yasenachak
(201) 231-9400
UNITRONIX CORP.
197 Meister Avenue
Somerville, NJ 08876

ORDERS Wholesale Distributor System

Operating System: RSTS, RSX, RT-11

Keywords: • Order entry • Report writer • Warehousing
• Wholesale

This fully interactive on-line system is for the wholesale distributor. An order entry subsystem allows multiple terminal operators to perform order entry directly over the telephone or from order forms. The system provides on-line customer credit checking, automatic back-ordering, and the ability to override credit hold and out-of-stock conditions. The system also allows special pricing and discounting techniques.

The inventory control subsystem automatically allocates inventory during order entry. Inventory management maintains lot history from receipt to deletion, performs requirements forecasting, and reports year-to-date inventory sales histories. The system prints work orders, UPS shipping labels, invoices, and statements.

Accounts Receivable offers billing statements and aged receivables reports as well as daily and monthly status reports to compare sales, profit percentages, and aged total receivables.

The salesperson/commission subsystem tailors commission plans for individual salespeople and produces reports on demand.

A version of this product is available for the VAX computer.

Price: \$5,000 – \$15,000

Contact: Elvin E. Smith or Forrest E. Weddle
(913) 782-8544

RUF CORP.
1533 E. Spruce
Olathe, KS 66061

Perspective/500 Inventory Management

Operating System: RSTS

Keywords: • Bill of materials • Inventory • Order entry
• Warehousing

Inventory Management provides the means to increase the level of customer service and to minimize investment in inventory. The inventory data base includes items that are stocked in any of multiple warehouses permitted by the system.

Data input to the system is provided by an Inventory Receipts and Adjustments Journal that provides a means for recording changes to inventory due to adjustments (quantity, quantity and back order, quantity and order, and manual issues) and receipts. A new “average cost” is calculated each time receipts are posted. A series of reports presents inventory valuation and price and inventory list; the Inventory Report provides exception reporting by warehouse (up to 64); function — below minimum balance, items with activity this month, items with stock on order from vendor, items with stock on back order to customer, out-of-stock condition; stock number range; and manufacturer’s product line.

Data maintenance is accomplished through the File Maintenance and Monthly Update programs. Maintenance includes addition and deletion of stock item information and verification of inventory control totals.

A version of this product is available for the VAX computer.

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Price: \$15,000 – \$50,000

Contact: Michael B. Andelman, President
(312) 953-2220

LIOCS CORP.
246 E. Janata Boulevard
Lombard, IL 60148

Perspective/500 Order Processing

Operating System: RSTS

Keywords: • Credit • Financial analysis • Order entry

Order Processing allows orders and credit and debit memos to be entered for customers and creates pending sales orders in an open sales-order file. During order entry, a comprehensive credit check is performed to determine credit status. Additionally, the program automatically prices all stock items that are requested. The automatic pricing options include variable, quantity break, and special “contract” pricing for product categories based on individual customers.

A manual price override is provided if automatic pricing is not used. On nonstocked items that are entered on sales orders, the operator makes a price entry. In addition to entering the order into the open-order file, Sales Order Processing prints shipping papers, sequenced by bin number for stocked items to be picked and prepared for shipment. Another program allows existing orders to be revised or corrected to represent their current status. Changes in that program include adding a line, canceling a line, changing a quantity or a price, and adding charges. An optional feature provides the ability to automatically generate purchase orders for nonstocked items for drop shipment to customers.

Invoices are calculated daily for all sales orders that have been maintained and are invoiceable. An automatic entry into Accounts Receivable is made for each invoice.

A version of this product is available for the VAX computer.

Price: \$15,000 – \$50,000

Contact: Michael B. Andelman, President
(312) 953-2220

LIOCS CORP.
246 E. Janata Boulevard
Lombard, IL 60148

PIC (Parts Inventory Control System)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Cost accounting • Data entry • Inventory
• Report writer

PIC provides interactive data entry and data base inquiry for parts inventory accounting and control. Labor expense can also be included to produce project cost reporting by a number of categories.

Reports of low stock and reports by vendor, part number, or size can be produced. An audit trail report by work order or by purchase order is available.

Data entry errors are trapped at entry time. Any number of parts can be stored on multiple disks. Reporting across disk files is standard.

A version of this product is available for the VAX computer.

Price: \$10,000

Contact: W. G. Welter
(713) 373-1905

ADVANCED MANAGEMENT TECHNOLOGIES
Box 71
Cypress, TX 77429

RealWorld™ Inventory Control

Operating System: RSX, RT-11, ULTRIX, UNIX

Keywords: • File management • Inventory • Purchasing
• Sales and marketing

This highly flexible multiwarehousing inventory control system for small distributors provides efficient methods of tracking goods and products.

The system does the following:

- Maintains item files and lists
- Allows inventory transaction entry, editing, and posting, with edit list and journal
- Allows for inventory costing by average cost, standard cost, LIFO, or FIFO
- Provides a detailed LIFO/FIFO cost history, which can optionally be kept at the warehouse level
- Features automatic price change, price list, stock status, inventory value, purchasing advice, and usage reports
- Runs an ABC analysis on all or part of the inventory
- Prints a physical count worksheet
- Interfaces with the RealWorld Sales Analysis system
- Includes password protection, extensive data file integrity check, and backup/restore facilities

A version of this product is available for the VAX computer.

Price: \$795

Contact: Larry Wilber
(603) 798-5700

REALWORLD INC.
Dover Road
Chichester, NH 03263

REPFAX (Food Broker System)

Operating System: CTS-300, RSTS, RSX

Keywords: • Accounts receivable • Order entry • Retail
• Wholesale

The REPFAX Broker System is designed for food, health and beauty aids, and general merchandise brokers and provides the following:

- **Order processing:** The manufacturer's catalog data is prestored in a master file. Price, policies, minimum-order requirements, promotional allowances, and shipping information are automatically applied to each order. Salesman's Price Books contain all order information, plus effective dates and details of upcoming promotions. As promotions become effective or end, prices and terms are automatically changed.
- **Brokerage:** On-demand status analysis of each principal's account.
- **Sales and promotion tracking:** On-demand inquiry/reports effectiveness of products, promotions, salespeople, and principals.
- **Spoils accounting:** Entering each spoils certificate generates detailed invoices for principal and credit memos on a store-by-store basis.
- **Retail reporting:** Survey reports of current shelf plan, customer by customer, are customized for each user and include comparisons of proposed, to present, to previous surveys by buyer and manufacturer, plus specific deficiencies within each store.

REPFAX is integrated into DIBS-11 & MCBA G/L, A/P, and Payroll.

A version of this product is available for the VAX computer.

Price: \$13,500 – \$17,500

Contact: Nick Culbreth
(404) 256-3067

AMERICAN DIGITAL PRODUCTS CORP.
5775-B Glenridge Drive N.E., Suite 320
Atlanta, GA 30328

Soft Drink Bottler's Package

Operating System: RT-11

Keywords: • Accounts receivable • Inventory • Wholesale

This comprehensive accounting and information system is designed for soft drink bottlers and distributors with 5 to 25 routes. The system is written in Pascal under a data manager system.

Some of the features include presell, route accounting, posting and control, and sales reporting.

- Presell involves invoices and load sheets printed from customer orders.
- Route accounting provides for single-source data entry with on-line validation, which eliminates errors and saves time during the route reconciliation process.

- Inventory control provides perpetual inventory on all items in finished goods. An on-hand report by warehouse indicates the number of days of supply on hand. Monthly and year-to-date statistics can be displayed by item. Costing is optional with inventory evaluation.
- Production control provides usage and cost control on raw material items used in the production of finished goods. Standard usage factors are compared against actual usage for variance reporting.
- Sales reporting provides a complete functional set of reports covering case sales by warehouse, case sale trends, daily history, customer trends and analysis, franchise reports, promotional activity, salespeople's activity, and sales mix by any classification of customers.

All components are fully integrated and include sales analysis, inventory, presell, route reconciliation, accounts receivable, general ledger, accounts payable, and payroll.

Price: \$12,500

Contact: John Gardiner
(503) 388-3611

INFORMATION CONCEPTS, INC.
841 N.W. Bond Street, P.O. Box 85
Bend, OR 97709

SSMS (Service Station Management System)

Operating System: RSTS

Keywords: • Automotive • Inventory • Petroleum

SSMS is a complete package that tracks all sales and receipts for up to several hundred stations. SSMS provides detail by pump, product, book/physical inventory, cash receipts and miscellaneous sales by shift, day, or other user-selected reporting period. SSMS features on-line inquiry, immediate update of reported data, and a flexible reporting structure, much of which is directed by operator inputs. SSMS can interface with automated station equipment and may be integrated with ADD's General Accounting Software and Wholesale/Liquid Inventory systems to account for product from supplier to consumer.

Price: \$5,000 – \$20,000

Contact: Bruce A. Butt
(201) 584-4026

ADVANCED DIGITAL DATA, INC.
354 Route 206
Flanders, NJ 07836

Thoroughbred Order Processing

Operating System: RSTS, RSX

Keywords: • Data base management • Data dictionary
• Inventory • Order entry

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The Thoroughbred Order Processing System Master Inventory File can provide up to 999,999 inventory items. Instant order and inventory information is available at a terminal or on hard-copy printout. Inventory information, including sales, costs, and reorders, are automatically updated in the Inventory Master File. Instant updates of on-hand and committed quantities are provided to prevent overshipment.

The system accommodates costing, entry, and shipment of noninventory items; provides complete tracking of inventoried items by instock, on-order, and back orders; and automatically maintains stock-item history. The physical inventory subsystem provides forms for physical inventory and updates inventory files. Returned goods are processed automatically. The system maintains five warehouses; offers automatic or manual back-order reporting, processing, and release; and accommodates order cancelations, order changes, and partial shipments. Costing methods include market, weighted average, and LIFO/FIFO.

The system provides six levels of multipricing by customer, item, and category. Automatic markup pricing is available, as is selective pricing by customer. Optional cash sales processing with invoice printing is available. The system prints multiple-page invoices, sales orders, and shipping forms. On-line credit checks can be made during data entry. User-defined messages can be printed on invoices and sales orders. Automatic calculation of state sales tax is provided. The system provides total for month-to-date billing and booking. Commissions can be determined by item or by salesperson.

The system automatically produces Sales Commission reports; provides Open-/Back-Order Status reports and automatic Credit Exception reporting; and automatically generates Sales Analysis reports, including customer item, class, sales representative, and invoice summaries, and Inventory reports by status, activity, committed, critical, movement, price, warehouse, and customer contract. Optional General Ledger and Accounts Receivable interface and automatic audit trails are provided.

A version of this product is available for the VAX computer.

Price: \$795 – \$8,000

Contact: David E. Capel, Vice President
(415) 930-9932

COMPUTER SYSTEMS DEVELOPMENT, INC.
140 Mayhew Way, Suite 700
Pleasant Hill, CA 94523

Tire Dealer (Complete Inventory Control)

Operating System: CTS-300, RT-11

Keywords: • Inventory • Order entry • Purchasing
• Sales and marketing

This stand-alone inventory control system contains all the necessary functions required to keep records for a multiple-location tire company. The system allows inventory to be costed at both a regular average cost and a special cost, along with a complete sales history for each month of the year.

This system includes purchase order control, inventory receipts, inventory adjustment, a sales journal, and a complete physical inventory subsystem. A stock status list, a slow-moving items list, an inventory valuation, and a stock movement report, along with complete dollar and unit sales, are included reports.

A version of this product is available for the VAX computer.

Price: \$5,000

Contact: Nigel Harris
(613) 829-8888

HARRIS COMPUTER SYSTEMS
16 Credit Union Way
Nepean, Ontario K2H 8R6
Canada

TRIMS (Tire Dealers and Retreaders Information Management System)

Operating System: RSTS, RT-11, TSX-PLUS

Keywords: • Accounting • Inventory • Point of sale

TRIMS is a complete inventory control, accounting, and point-of-sale system designed for the independent tire dealer. Program modules include inventory control, invoicing (including point of sale with on-line inquiry by tire size), accounts receivable, sales analysis, accounts payable, general ledger, payroll, purchasing, and a report generator. The programs are interfaced and provide for data security. Program highlights include pre- and postbilling capabilities (including point of sale), inventory inquiry during invoicing, on-line order entry and editing, trade-ins, automatic back-order processing, product pricing with multiple quantity-level price breaks, group price changes by product type, customer trade discounts, national account billing, claims and adjustments tracking, sales tax exempt/computed status by customer with automatic sales tax computation, intercompany stock transfers, automatic purchase order generation and receipting, balance forward and open item customers, and futures (split billing).

The system performs cash requirements report analysis by vendor; user-formatted financial statements, including a profit-and-loss-statement balance sheet; a financial statement that shows budgets (P&L) and last-year comparatives (B/S); individual financial statements by profit center; and total company financial statements.

A version of this product is available for the VAX computer.

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Price: \$10,000 – \$30,000

Contact: Dane Peterson, Marketing
(206) 453-1320

COMPUTERS NORTHWEST, INC.
12301 N.E. 10th Place, Suite 220
Bellevue, WA 98005

UDS Order Processing

Operating System: CTS-300

Keywords: • Inventory • Order entry • Point of sale
• Sales and marketing

Order Processing is a series of programs giving you total control over your customers' orders, from the time they are entered until they are shipped and closed. The system's advantages include:

- Order entry sequence that directs the entry of the order, checks customer credit and stock availability, and prices the order commensurate with the quantity ordered
- Allowance for multiple shipment quantities and dates; printing of an order entry log, acknowledgments, and packing lists; and updating of the product file with booking information
- Ability, while the order is on the books, to age it by item, print by customer, or print by job number if it is a work order
- CRT reference of all open orders for a customer
- When the order is shipped, printing of a canceled order register, invoice cost register, and invoices
- Referencing and return of back-ordered items to the open-order file
- A delinquent item report that provides a priority checklist, so that no item is overlooked
- If used with other modules, can update sales records, update sales and accounts receivable accounts in the general ledger, post salesperson commission records, post invoices to the accounts receivable file, and update the sales region file, as well as keep track of each item shipped and the customer to whom it was shipped

The most important advantage of this module is that it gives you complete knowledge of the exact status of every order, in addition to having a direct link to the customer master and finished goods modules.

The customer master module lets you keep track of average payment time, last payment time, credit line, credit status, highest credit, terms, open accounts receivable balances, SIC listings, bookings, and sales (for the previous year and the year-to-date).

The finished goods module carries a description of items, supplier number list, reorder point, backlog of orders, quantity of order, due date, beginning inventory, present stock level, and up to 10 prices and price breaks. It also contains the booking sales and cancelation and return data used by the sales analysis module.

The sales analysis and commissions module allows you to analyze sales by bookings and shipments by week, month, and year. The module keeps payable commissions on a file, which is updated automatically from accounts receivable and order processing. The module also clears those commissions from the file. A report by salesperson, by region showing sales, bookings, and sales quotas by the month, previous year, and year to date. The module can also clear weekly, monthly, and yearly accumulators from the module.

A cost-of-goods sold report can be run. It shows the cost of each item sold, based on a standard cost obtained from the finished-goods master file. Those costs may then be adjusted prior to printing a final report. Also provided is a franchise tax data file, which is updated automatically from order processing, and produces a franchise tax report. A sales tax file is updated automatically from order processing and is used to produce a report of those items on which sales tax is collected. A product sales history report provides a listing either by product or by customer of each item sold, to whom, how many, what price, and when. That report can be extremely useful in product research.

A version of this product is available for the VAX computer.

Price: \$2,000 – \$5,500

Contact: Zane R. Oaks, Marketing Manager
(513) 890-1800

PROJECTS UNLIMITED, INC.

P.O. Box 14538

Dayton, OH 45414

Warehouse Distribution System

Operating System: CTS-300, RSTS

Keywords: • Billing • Inventory • Order entry
• Warehousing

BAKCO's Warehouse Distribution System is a series of on-line modules that provide comprehensive management control of the product distribution environment. Regular orders, drop-ship orders, quotations, contracts (blanket orders), credit hold orders, counter sales, pre-paid orders, warehouse transfers, debit memos, and a variety of credit memos can be entered into this multiwarehouse system. Common data is shared for customer credit checking, parts validation, and pricing from an extensive matrix pricing module.

On-line allocation against inventory maintains up-to-date inventory status data. Picking tickets can be produced on demand, and a full back-order system is provided when the product cannot be shipped. Invoices and invoice registers are generated and integrated into an open A/R system.

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The ability to detach inventory shortage conditions, based on a user's selected criteria, permits inventory problems to be brought to management attention each day. Comprehensive stock status reports can be selectively produced by vendor and show not only inventory status, but also 15-month sales trends and lost-sales history for each inventory item.

The purchasing control module generates many different types of purchase orders, including blanket purchase orders. Purchase orders can be printed on demand and modified when desired. Modified purchase orders can then be produced to minimize clerical work. Extensive purchase order status reporting is provided on demand and receiving reports generated, when needed. In addition, open purchase order cash commitment reports can be produced.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Jerry Baker, President
(312) 956-1053

BAKCO DATA, INC.
85 W. Algonquin Road, Suite 190
Arlington Heights, IL 60005

Warehousing/Order Entry/Inventory/Purchasing

Operating System: RSTS

Keywords: • Inventory • Order entry • Purchasing
• Warehousing

The ADD Warehouse Distribution System is a complete order entry/invoicing/inventory and purchase order system designed to meet the needs of a wide variety of TBA, motor, and lube oil distributors, as well as general warehouse operators. This full inventory management system allows multiple warehouse locations; inventory valuation based on FIFO or LIFO methods; cost, profit, and reorder analysis; and more. The order entry module ensures automatic and accurate pricing based on practically any volume or special discount structure, optional generation of picking lists, truck loading tickets, bills of lading, and invoices. Orders remain open until delivery, when adjustments and returns can be included. Point-of-sale applications are handled easily by allowing automatic generation of invoices at order entry time. The purchase order control module automatically produces purchase orders based on user-defined reorder points and/or sales history; when orders are received, they are automatically updated into inventory, and exception reports are generated if necessary. In addition, the system is fully integrated with ADD's Accounts Receivable package for credit control and more.

A version of this product is available for the VAX computer.

Price: \$5,000 – \$15,000

Contact: Bruce A. Bott, President
(201) 584-4026

ADVANCED DIGITAL DATA, INC.
354 Route 206
Flanders, NJ 07836

WDS/2 (Warehouse Distributor System)

Operating System: RSTS

Keywords: • Accounts receivable • Inventory • Order entry
• Warehousing

WDS/2 is a fully integrated package designed specifically for heavy-duty parts distributors. The package includes order entry, point-of-sale invoicing, service shop billing, inventory control, kit building and explosion, core accounting, customer price control, sales and profit analysis, back-order and special-order control, purchasing, accounts receivable, accounts payable, payroll, and general ledger.

Special features of the system include automatic cross-referencing from old or competitive part numbers to the current part number in use, on-line substitution between an almost unlimited number of part numbers, automatic filling of back orders and special orders, and automatic customer pricing with the ability to “lock” special discounts into the system by specific vendor or by part number.

WDS/2 supports multiple branches and multiple companies on the same computer system. Each branch can view and order inventory from every other branch. The purchasing module allows the home office to control purchases by vendor and, if desired, to force branches to obtain their merchandise from the company warehouse.

WDS/2 is written in BASIC-PLUS-2 and uses the RMS-11 Record Management System.

A version of this product is available for the VAX computer.

Price: \$25,000 – \$50,000

Contact: J. Richard Schien
(217) 854-4721

KARMAK SOFTWARE & COMPUTER SERVICE
P.O. Box 229
Carlinville, IL 62626

WHOLESALE-11

Operating System: CTS-300, RT-11

Keywords: • Accounts receivable • Inventory • Order entry
• Wholesale

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This comprehensive interactive system for managing a small to medium-size wholesale business consists of nine modules: accounts receivable, customer files, credit memos, inventory control, order entry, purchasing (reorder), sales analysis, sales tax reporting, and vendor files.

Specific features include five levels of cost-plus pricing; broken-unit pricing; fixed-contract pricing; week-to-date, month-to-date, year-to-date, and prior-years sales analysis by salesperson and customer; reorder by vendor (min/max); add, change, and delete to inventory; daily reports on sales, payments, and credits; advertising message on invoice; sales, cost, gross margin, and percentages for individual customers and inventory items; inventory evaluation and physical counts; management/salespeople's price/cost lists; and more.

The system was originally designed for a cigarette, tobacco products, and general merchandise wholesaler.

The system provides user-friendly procedures, on-site training, and continuous support. Program modification and customization are available. A sample packet containing reports, forms, and so on, is available. Dealer inquiries are encouraged.

Price: \$9,000 – \$13,000

Contact: Robert L. Metzger, President
(504) 542-1479

DIGITAL COMPUTER SYSTEMS, INC.
31 Darrell Drive
Hammond, LA 70401

Wholesale Jewelry Management

Operating System: CTS-300, RT-11

Keywords: • Billing • Inventory • Metals

This totally integrated, automated system was designed specifically for the jewelry distribution industry. Some of the unique features of this package are:

- Pricing on gold inventory items can be adjusted at any time, using an increment factor multiplied by the current price of gold.
- The price list and the inventory level are continually updated and may be viewed on the screen.
- Items can be maintained in inventory by units, length, and pennyweights.
- Invoicing can be done in batch mode or on demand, as required.

The system is fully integrated to allow for complete interaction among all the functions. The total package includes order entry, inventory, accounts receivable, accounts payable, payroll, and general ledger.

This product is easy to use and requires only minimal knowledge of basic business procedures. No data processing experience is required. Complete training and documentation are provided.

Price: 10,000 +

Contact: Larry L. Alexander
(214) 934-0031

FULTON BUSINESS SYSTEMS
4950 Keller Springs Road #280
Dallas, TX 75248

Wholesale/Liquid Product Inventory

Operating System: RSTS

Keywords: • Billing • Inventory • Petroleum • Wholesale

This system provides complete product control from purchase to sale. Inventory is tracked by storage location, by vendor, and by transportation vehicle (truck, barge, ship, and so on) with true, layered FIFO costing. "Thruput" and "exchange" agreements are easily monitored, including temperature-corrected gallons. Sales are easily posted to this system, which allows for a highly sophisticated pricing structure including freight charges; temporary and voluntary allowances; and federal, state, and municipal taxes, including gross receipt taxes, prompt pay discounts, and more.

A version of this product is available for the VAX computer.

Price: \$10,000 – \$20,000

Contact: Bruce A. Bott, President
(201) 584-4026

ADVANCED DIGITAL DATA, INC.
354 Route 206
Flanders, NJ 07836

Wholesaler's Software System

Operating System: RSTS

Keywords: • Billing • Order entry • Point of sale
• Wholesale

This system is built around entry and invoicing systems. A customer number is entered, and the name and address are displayed for verification. Then products and quantities are entered. Prices need not be entered; they will be automatically picked up from the product master file. After all orders have been entered, a picking list is produced. The list has all products and quantities ordered and is sorted by a zone code. Next, orders are picked and the invoice correction program is run. Any changes in quantities or products may now be made. Lines may be added or deleted. Out-of-stock items may be back ordered or canceled, or substitutions may be made.

The invoice printing program then produces the corrected invoices, extends and foots all the invoice lines, and automatically calculates sales tax. Past-due customers are flagged at this point and will not continue without override authority. That also relieves inventories, updates accounts receivable data, and collects data for various reports

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to be generated later. The system also contains an over-the-counter-sales program and a program to enter cash receipts, adjustments, discounts, and merchandise returns.

Pricebooks, inventory status reports, inventory evaluation, product movement, gross profit reports (by product, customer, and salesperson), sales analysis, and accounts receivable information are produced. Customer statements are produced bimonthly. To save expensive statement forms, statements for customers with zero or credit balances are printed on stock paper and kept only for the company's records; they are not mailed to the customer. An aging report is printed with each statement run.

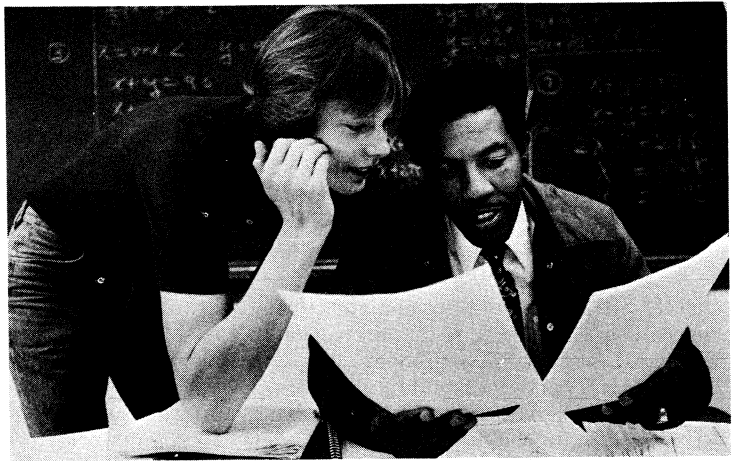
A version of this product is available for the VAX computer.

Price: \$28,000

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.
1010 S. Weinbach Avenue, P.O. Box 2469
Evansville, IN 47714

Education



Phyllis Graber Jensen/Stock, Boston

ARCHON: ADMISS

Operating System: RSTS

Keywords: • Query facilities • Recruiting • Report writer

ARCHON: ADMISS serves as an effective means of tracking prospects by automatically processing the prospect through the admissions stages. Features include on-line query and update, automatic followup and tracking, five value levels for prospect, nontechnical operations, flexible report formats, ad hoc reports, letter-quality printing, flexibility to meet changing requirements, personalized letters, user-defined value levels, controlled feedback, and simultaneous input and output.

A version of this product is available for the VAX computer.

Price: \$6,650

Contact: NancyLou Rapp
(203) 728-6777

QUODATA CORP.
266 Pearl Street
Hartford, CT 06103

ARCHON: BILLS

Operating System: RSTS

Keywords: • Accounts receivable • Billing • Data entry
• Personnel

ARCHON: BILLS provides a complete solution to the continuing need for controlling funds owed to the institution by the student population or membership. Flexibility to meet unique requirements, ease of use by nontechnical personnel, and immediate access to information have been primary design criteria. An interactive terminal orientation permits the combination of minimum personnel involvement with timely control of financial reporting. Features include on-line data entry and inquiry, flexible report generation, single entry charges many bills, accounts receivable aging reports, student account history on file, user-defined transaction types, default answers to speed data entry, transaction batch control, and linkage to financial accounting system. BILLS is designed to interface with the ARCHON: FRS Financial Reporting System.

A version of this product is available for the VAX computer.

Price: \$8,280

Contact: NancyLou Rapp
(203) 728-6777

QUODATA CORP.
266 Pearl Street
Hartford, CT 06103

ARCHON: STUDENT

Operating System: RSTS

Keywords: • Data entry • Printing • Query facilities
• Scheduling

This student information and on-line registration system integrates information on total enrollment with data management to provide great flexibility. Competitive and financial pressures within dictate increasingly sophisticated management reporting. STUDENT answers with fast on-line inquiry and a do-it-yourself report generator. STUDENT strikes a balance between computer-oriented repetitive tasks and the requirement for human intervention. Sorting, tallying, computing, and printing are tasks that the computer performs better than humans do. Taking care of exceptions, overriding planning, and thinking are best left to you.

Features include on-line terminal entry, create-it-yourself reporting, customized data definitions, preregistration any time, course-overflow checking, class lists on request, student schedules, grade reports, transcript labels, teacher workloads, class rank by year, nondeposited students, student housing director, and a menu-driven system.

A version of this product is available for the VAX computer.

Price: \$8,800

Contact: NancyLou Rapp
(203) 728-6777
QUODATA CORP.
266 Pearl Street
Hartford, CT 06103

Attendance

Operating System: RSTS

Keywords: • Scheduling

The Attendance packages are created from the scheduling file and interface with scheduling and registration files. Period-by-period absences, tardies, and dismissals in user-defined categories are recorded. Daily attendance lists show the student name, the periods absent, the initials of the teacher recording the absence, and the total number of days for each period. Total absences, total consecutive absences, and half-day absences are calculated and reported. A counselor's report lists all classes missed for every student assigned to the counselor. A summary list for each teacher shows names and dates of absences for each period taught by the teacher. Monthly and yearly end summaries print total dates and day-of-week absences for every student in every period. Input is from cards or screen. The cumulative figures are automatically updated as information is entered. Inquiries by day display the student's schedule and indicate, after each period, whether the student was tardy, suspended, absent, and so on. Utilities exist to do file maintenance and updating.

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A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Edward J. Mackniak
(800) 243-3177

SYSTEMS ELEVEN, INC.
Middlebury Hamlet
Middlebury, CT 06762

Attendance Reporting System

Operating System: CTS-300, RSTS, RT-11, UNIX

Keywords: • Data collection • Information management
• Report writer • Scheduling

ASI's Attendance Reporting System manages attendance data with a minimum of time and paperwork. A Master File maintains complete biographical information on each student, including grade level, year of graduation, homeroom, and transportation information; codes to indicate special education, new, transferred, and tuition students; days absent, tardy, or dismissed; and dates of entry and withdrawal.

The Attendance Register lists individual attendance records as well as summary information of total absences, dismissals, and so forth. The Code Report provides lists of students coded by entry or withdrawal during particular calendar periods, those who transferred out of state, and related information.

The Attendance Total Matrix is designed to meet state attendance reporting requirements and provides category totals for checking the accuracy of reporting procedures.

Price: \$2,000

Contact: Heather Beckwith
(603) 659-2290

APPLIED SYSTEMS, INC.
84 Main Street
Newmarket, NH 03857

Attendance Reporting System

Operating System: CTS-300, RSTS, RT-11

Keywords: • Data collection • Report writer

The QEI Attendance Reporting System provides for both daily and monthly attendance reporting. The Daily Attendance Report is an "exception" report, listing only the absent students and their telephone numbers, should the school administration wish to call a student's parent or guardian. This report is updated later in the day with the appropriate changes to the student's status, and a new report is generated.

The Monthly Attendance Report lists the daily attendance status, monthly attendance summary with days in session and percent present for the month, entry or withdrawal code, and year-to-date attendance totals with days in session and percent present for the year for each student. The Monthly Attendance Report also prints the daily and monthly attendance totals, showing average daily membership, average daily attendance, and percent present for each year of graduation. The Yearly Attendance Summary Report shows monthly and year-to-date attendance totals with averages and percent present for the whole school.

Input may be either through a terminal device or by prepunched mark-sense cards. Attendance may be either by the 5-week period or by the calendar month. A maintenance program is provided to correct attendance information at any time. Maintenance may also be on line or via the card reader. The monthly report is generated automatically from the last corrected daily attendance input.

Attendance categories include present, absent, tardy, dismissed, absent/tardy, absent/dismissed, tardy/dismissed, nonmember, entered, withdrawn, and other or suspended.

Price: Available upon request

Contact: C. R. Burgess
(617) 275-6800

QEI, INC.
119 The Great Road
Bedford, MA 01730

Automated Student Scheduling System

Operating System: RSTS

Keywords: • Scheduling

The QEI Student Scheduling System is an interactive on-line student scheduler that helps school personnel build a master schedule. Course and teacher catalog and student requests are entered into the computer through a terminal device or a card reader using prepunched mark-sense cards. The simple tally, conflict matrix, and various listings are produced as many times as desired. Maintenance programs allow for individual and group changes.

Beginning with singletons, the Master Schedule Builder automatically groups courses by period so that the fewest conflicts will arise. The school chooses the desired period — not necessarily the period chosen by the computer — and locks the course in place. Using the computer, the school then “builds” the next course, groups of courses, or all remaining singletons around the first course, continuing until all singletons have been added. The doubletons are added to the fixed base of singletons, and the process is repeated until all the courses have been

added and assigned periods. A Potential Conflict Report shows student, teacher, and room conflicts by period for each course and may be run at any time.

The flexibility of the Master Schedule Builder allows the school to experiment with singletons, partial and trial student scheduling, and other scheduling techniques. The school may add coded parameters to the master schedule, such as alternates, linked courses, an exclusive semester key, priorities, and optimum and maximum seating.

After the master schedule has been built, students are added in a scheduling run. The computer automatically calculates a scheduling weight for each student, based on the year of graduation; the total of the course-scheduling weights; and the difficulty of the selected schedule. The computer schedules a student's courses, based on an automatically assigned course-scheduling weight unless a priority code (an override mechanism) tells the computer that a particular course should be scheduled first. In that manner, required courses may be scheduled first for each student.

A maintenance program allows for changes to the master schedule. Once the final scheduling run is accepted, any changes made to a student's schedule are automatically added to class rosters, and master schedule listings and a new student schedule may be printed.

Multiple reports are available after scheduling — pupil schedules, teacher and room schedules, teacher and room availability, student conflicts, courses in conflict, pupil availability, study hall lists, and class rosters.

The QEI Scheduling System is flexible and allows for various types of scheduling, including vocational technical school scheduling. The program is tailored where necessary to meet the specific requirements of each school.

Price: Available upon request

Contact: C. R. Burgess

(617) 275-6800

QEI, INC.

119 The Great Road

Bedford, MA 01730

CADA-1983 (Computer-Assisted Data Analysis Monitor)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Data base management • Graphics
• Menu handlers • Statistics

CADA, a menu-driven conversational statistical package employing modern methods of exploratory and Bayesian confirmatory data analysis, is a full relational data base management system providing for entry, storage, editing, and transfer of data sets and communication

with external storage devices and laboratory computers. The package provides modern graphic displays of 1- and 2-dimensional data sets; a variety of nonconjugate prior-distribution Bayesian analysis; assessment procedures for determining Bayesian prior probabilities and utilities, based on coherence testing procedures; various quota-free and restricted selection decision-theoretic paradigms; full-rank ANOVA and MANOVA; modern methods of Bayesian simultaneous estimation; psychometric methods for test construction, item analysis, item bias analysis, test equating, factor analysis, scaling, and cluster analysis; and a facility for computing desired characteristics of standard statistical distributions and such special distributions required by the methods listed above.

Price: \$600

Contact: Melvin R. Novick
(319) 353-6705

THE UNIVERSITY OF IOWA
356 Lindquist Center
Iowa City, IA 52242

CAMPUS (Campus Planning Package)

Operating System: RT-11

Keywords: • Construction • Electrical • Simulation
• Transportation

1. Cross-Over Matrix

Inputs: Student course hours \times major subject \times division; faculty/student ratios; space standards (classrooms, laboratories, offices); average construction costs

Outputs: Departmental student + staff FTE (full-time equivalent); annual space increments \times space type; future construction outlays

2. Student Housing and Transportation Projections

Inputs: Questionnaire responses and/or national averages regarding housing and transportation choices

Outputs: Housing demand \times housing type; parking demand, transit loading

3. Faculty + Staff Housing and Transportation Projections

Same as 2. above

4. Facilities Master File

Inputs: Detailed building inventory, including type, size, cost elements (plumbing and electrical, floor area ratios, and design and construction staff)

Outputs: Inventory of existing buildings

Preliminary specifications of future buildings and construction outlays

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5. Campus Building Project Scheduling Program

Inputs: Definition of campus construction process in 8 phases and 200+ actions

Project architect reports on weekly progress and delays

Outputs: Campus planning committee summary reports

6. Student Facility Demand Projections

Inputs: Per capita use of recreational and commercial facilities

Outputs: Aggregate demand, space requirements, and construction delays

Price: \$1,500 – \$2,500

Contact: David Bradwell, Ph.D., President
(415) 479-4980

DAVID BRADWELL AND ASSOCIATES, INC.
880 Las Gallinas Avenue
San Rafael, CA 94903

CASANOVA (Computer-Assisted Instruction in Analysis of Variance)

Operating System: RSTS

Keywords: • Computer-aided instruction • Statistics

Memory required: 8K 16-bit words (overlaid).

The CASANOVA package of programs and text files concentrates on teaching the computations involved in ANOVAs without confining the instructor to a particular orientation or text. The usefulness of the package rests on the assumption that performing ANOVA computations with the aid of the computer will contribute to the user's understanding of the logic behind the computations. CASANOVA does the computations quickly and provides feedback to partial solutions in order to monitor the student's performance. CASANOVA users should have had some introductory study of statistical inference, hypothesis testing, and 1-way ANOVA before using the package.

The package consists of 21 BASIC-PLUS programs and 18 virtual core files containing text of instructions and help messages for users. Documentation consists of a student's manual and an instructor's manual. DECUS number 11-222.

Restrictions: The package requires about 500 blocks of disk space for its own source and text files and additional (variable) space for users.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

CAST (Computer-Assisted Self-Training System)

Operating System: UNIX

Keywords: • Computer-aided instruction • Graphics
• Programming tools

CAST is a programming language for the development and execution of computer-aided instruction (CAI) courseware. The language is designed for use by inexperienced and experienced designers of computer-assisted and computer-managed instruction.

CAST's vocabulary is a superset of the PILOT language. Special CAST features include the use of split-screen text, limited graphics, the use of any UNIX* process, the use of other scripts as subroutines, the recording of student performance for later analysis, enhanced computational facilities, the generation of random numbers, direct use of external soft-copy documentation within a lesson, and enhanced storage/retrieval capabilities for program variables. CAST allows for pauses (think time) and automatic recueing when no answer is obtained within a definable interval. Multiuser installations are supported. The educational applications of CAST are numerous. CAST was designed to support business and industrial training.

A minimum memory of 64K is required. The system is written in C language. Custom installation is accomplished via telecommunications. CAST is terminal independent and can be used with a mixture of terminals possessing cursor positioning commands. Hard-copy terminals are also supported. TERMCAP is used when available.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$495 – \$2,000

Contact: David Clark

(315) 337-1000

MEASUREMENT CONCEPT CORP.

1721 Black River Boulevard

Rome, NY 13440

CLASS — Education Accounts Payable A/P System

Operating System: RSTS

Keywords: • Accounts payable • General ledger

This total accounts payable system with complete interface to the general ledger provides the following:

- Daily listing of checks written
- Check balance report by year, month, status, and check number
- Check audit report by bank, year, and selected months
- Check register sequence by check number or voucher number
- Check report by paid date
- Report and status of voided checks
- Voucher proof listing

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- Open-voucher, paid-voucher, and missing-voucher reports
- Complete voucher registers by company and division
- Voucher distribution to the general ledger
- Vendor name and address list

A version of this product is available for the VAX computer.

Price: \$2,500 – \$5,000

Contact: Elvin E. Smith or Forrest E. Weddle
(913) 782-8544
RUF CORP.
1533 E. Spruce
Olathe, KS 66061

CLASS — Education Admission System

Operating System: RSTS

Keywords: • Data base management • Information management
• Recruiting

This admission package for educational institutions enables the admissions office to respond immediately to inquiries, process application documents, and constantly provide current information for the prospective student. Information on the type and number of inquiries, analysis of recruiting efforts, and profiles on accepted students are available as required.

A version of this product is available for the VAX computer.

Price: \$3,500 – \$7,000

Contact: Elvin E. Smith or Forrest E. Weddle
(913) 782-8544
RUF CORP.
1533 E. Spruce
Olathe, KS 66061

CLASS — Education Alumni/Development System

Operating System: RSTS

Keywords: • Data base management • Recruiting
• Report writer

This alumni/development system provides a base for solicitation, acknowledgments, and generation of mailings for any group. The Alumni/Development System can produce personalized letters, solicitations, gift acknowledgments and receipts, and mailing labels for any selected group of alumni or donors. A variety of reports can be generated by using the reporting capabilities.

A version of this product is available for the VAX computer.

Price: \$2,500 – \$5,000

Contact: Elvin E. Smith or Forrest E. Weddle
(913) 782-8544
RUF CORP.
1533 E. Spruce
Olathe, KS 66061

CLASS — Education Personnel System

Operating System: RSTS

Keywords: • Employment • Personnel

This personnel system monitors job applicants and tracks employees from hiring to termination date. All pertinent personnel information is tracked from the time application is made through employment to termination.

A version of this product is available for the VAX computer.

Price: \$2,500 – \$5,000

Contact: Elvin E. Smith or Forrest E. Weddle
(913) 782-8544
RUF CORP.
1533 E. Spruce
Olathe, KS 66061

CLASS — Education Registration System

Operating System: RSTS

Keywords: • Data entry • Query facilities • Scheduling

This on-line registration system provides inquiry and updating of student information for the registrar. Through the use of either single- or multiterminal facilities, preregistration, registration, and add/drop functions are effectively performed. The registrar can generate, update, and print course offerings, course status reports, closed-class listings, class rosters, and student schedules during the registration process. The timely and efficient processing of demographic data; information for federal, state, and institutional reporting; grade reports; transcript labels; and honor listings are an integral part of the Registration System.

A version of this product is available for the VAX computer.

Price: \$4,000 – \$8,000

Contact: Elvin E. Smith or Forrest E. Weddle
(913) 782-8544
RUF CORP.
1533 E. Spruce
Olathe, KS 66061

CLASS — Educational Financial Aid System

Operating System: RSTS

Keywords: • Data base management • Financial analysis
• Report writer

This student financial aid management system for colleges and universities ensures on-line control of the financial aid process. The aid administrator can do budgeting, awarding, award notification, acceptance, cancellation, and disbursement of funds. The Relational Data Base Management System can be utilized to generate reports to provide for both effective and efficient management of financial aid monies.

A version of this product is available for the VAX computer.

Price: \$3,000

Contact: Elvin E. Smith or Forrest E. Weddle
(913) 782-8544
RUF CORP.
1533 E. Spruce
Olathe, KS 66061

CLASS — Educational Financial System

Operating System: RSTS

Keywords: • Financial analysis • General ledger
• Report writer

This financial package for educational institutions is an encumbrance system that includes budget, cash receipts, journal entries, and general ledger. The system provides clear and complete audit trails for maximum fiscal accountability. All financial reporting is controlled by the designated user offices.

A version of this product is available for the VAX computer.

Price: \$3,500 – \$7,000

Contact: Elvin E. Smith or Forrest E. Weddle
(913) 782-8544
RUF CORP.
1533 E. Spruce
Olathe, KS 66061

CLASS — Educational Payroll System

Operating System: RSTS

Keywords: • Employment • Payroll • Report writer • Taxes

This payroll package for educational institutions provides the accurate and timely information required for writing checks and for preparing federal, state, and institutional reports.

A version of this product is available for the VAX computer.

Price: \$3,500 – \$7,000

Contact: Elvin E. Smith or Forrest E. Weddle
(913) 782-8544

RUF CORP.
1533 E. Spruce
Olathe, KS 66061

CLASS — IMPRS

Operating System: RSTS

Keywords: • Data base management • Information management
• Programming tools • Query facilities

IMPRS is a relational data base software package that allows both technical and nontechnical users to establish and maintain relational data base systems, interactively generate sophisticated reports, and write fourth-generation high-level programs to support application systems.

IMPRS is designed to increase programming productivity through the use of a complete data-manipulation language. IMPRS also supports several query language interface modules that allow nontechnical users to browse through the data base and quickly produce reports. IMPRS is fully documented and comes with a full complement of utility programs to support the data base and to provide additional flexibility to the user.

A version of this product is available for the VAX computer.

Price: \$10,000 – \$20,000

Contact: Elvin E. Smith or Forrest E. Weddle
(913) 782-8544

RUF CORP.
1533 East Spruce
Olathe, KS 66061

CLASS (College-Level Administrative Software System)

Operating System: RSTS

Keywords: • Data base management • File management
• Management • Query facilities

The CLASS system is a fully integrated college-level administrative software system built around the IMPRS relational data base management system. CLASS consists of the following modules: Admissions, Financial Aid, Registration and Records, Financials, Student Accounts Receivable, and Alumni Development.

A version of this product is available for the VAX computer.

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Price: \$40,000 – \$60,000

Contact: Elvin E. Smith or Forrest E. Weddle
(913) 782-8544
RUF CORP.
1533 E. Spruce
Olathe, KS 66061

Compendium of (DECAL) CAI Programs

Operating System: RSTS

Keywords: • Computer-aided instruction

Memory required: 10K word user area.

Each CAI lesson represents the efforts of two weeks of intensive study during the workshop on such topics as the development of behavioral objectives, orientation related to programming instruction, and extensive work on coding lessons for computer presentation. The CAI lessons were prepared by Berea City School District teachers and administrators who participated in a Computer Staff Development Workshop in July 1975. DECUS number 11-210.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

COSAP

Operating System: RSTS

Keywords: • Documentation • Mathematics • Statistics

Memory required: 8K.

This integrated system of more than 24 programs uses most of the features (virtual core, matrix, facilities, and so on) of BASIC-PLUS. COSAP performs 12 statistical analyses: elementary statistics, histogram construction, student's tests, rank correlation, multiple Pearsonian product-moment correlation, simple regression, multiple regression, polynomial regression, step-wise regression, discriminant analysis, factor analysis, and probit analysis.

COSAP also includes a uniform format for data input and storage for all analyses, the ability to save input data on disk for later analyses, storage for descriptive DATABANK and variable labels, comprehensive data editing and transformation routines, and conversational "help" messages to assist the user who is uncertain of the input requirements for an analysis. DECUS number 11-30.

Note: The manual should be ordered.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

COSAS (Comprehensive On-Line Student Accounting System)

Operating System: RSTS

Keywords: • Accounting • Billing • Financial analysis
• Query facilities

COSAS is designed to provide complete support for a student billing office maintaining up to 12,000 accounts. The system maintains 1,000 user-defined transaction codes that control all posting activity. All complex accounting analysis is under software control, thus making the operating procedures extremely easy to learn and use.

Features of COSAS include flexible search parameters; retention of all transaction detail on each student account for on-line query; 1-time school semester parameter setup; fast posting of transactions and recurring entry posting feature; transaction edit and deletion; individual account audit and aging analysis; registration financial clearance; individual statement printout for any billing period; receipt/voucher/check number lookup; simultaneous access of 15 offices, with 15 users per office; autoscheduler for non-prime time operations; batch posting interface; external general ledger interface; comprehensive audit trails; variable output site assignment; more than 20 reports; a centralized data base; compact file structure (15 mgb will accommodate all programs and data stores, including 160,000 transactions and biographical data for 3,000 students); VT100 video terminal dependent; system status utility for monitoring posting activity; remote diagnostics and support; and self-diagnostic utilities.

Price: \$3,000 – \$5,000

Contact: Jim A. Wilson, Systems Analyst
(205) 837-1630 ext. 215
OAKWOOD COLLEGE
Huntsville, AL 35896

DECAL (DIGITAL Equipment CAI Author Language System), Version 2.0

Operating System: RSTS

Keywords: • Computer-aided instruction • Documentation
• Query facilities • Statistics

DECAL is the computer-assisted instruction (CAI) lesson authoring system, which enables teachers with no previous computer experience to provide individualized instruction for students. Written in BASIC-PLUS, the language of DIGITAL's Resource Sharing Time-sharing System/Extended (RSTS/E), DECAL is suitable for use in any subject area and at all grade levels.

DECAL lessons can present textual material to a student, provide additional help at the student's request, anticipate and respond to both correct and incorrect responses, and dynamically determine sequences based on those responses to individual lesson sections. Lessons can be

up to 50 segments (questions) in length and can be linked with other lessons to form courses and be shared among schools. Students can leave a DECAL lesson at any point in the lesson and later return to the lesson at the point where they left off. Those features enable instructors to create effective lessons in drill and practice, tutorials, quizzes and tests, dialog/inquiry sessions, simulation and games, and problem solving.

DECAL lessons are interactive and can provide HELP messages for all questions requiring a response from the instructor or student. The DECAL system includes provisions for administering, creating, and editing lessons; gathering and reporting lesson and individual student comments and statistics; and, at the discretion of the instructor, limiting and maintaining access to lessons via student directories.

Statistics are collected and stored automatically. Statistics included are the mean, variance, and standard deviation of student scores; summary of answer selections; response time statistics; the names, execution times, and execution dates of lessons and student comments; and summaries of failed questions. The programs are modular and enable the instructor to obtain reports on particular lessons, questions, or students.

Refer to SPD #15.86.07 when requesting further information on this product from your local DIGITAL sales office.

Price: Available upon request

Contact: Consult your local DIGITAL sales office
(see Introduction).

DSMTUTOR (Decision Support Modeling and Tutoring)

Operating System: RSTS

Keywords: • Decision support • Financial planning
• Simulation • Spreadsheets

This package helps a potential user of modeling systems, planning languages, and spreadsheets identify which one best suits his/her needs. DSMTUTOR provides a simulation of all the major modeling and electronic spreadsheet packages so that a user can identify the pros and cons of the various packages on a relative basis.

DSMTUTOR educates a non-data processing person in the use of electronic spreadsheets and major modeling systems in order to give him/her an understanding of the differences between the two systems.

A version of this product is available for the VAX computer.

Price: \$2,500 – \$10,000

Contact: Phelim Dolan

(604) 734-8822 or 732-9141 Local 320

CANADIAN EUROPEAN SYSTEMS (SYDNEY DEVELOPMENT CORP.)

P.O. Box 2884

Vancouver, B.C. V6B 3X4

Canada

ELEX/IMS (Instructional Management System)

Operating System: RSTS

Keywords: • Computer-aided instruction
• Data base management

ELEX/IMS is designed to assist instructors in the delivery of instructional programs to students. It enhances the instructor's course of study, manages individual and small-group instruction, monitors and assesses student progress, and provides instructor feedback. The system is used by secondary school teachers, college faculties, and institutional trainers.

Using an instructional software program, the instructor develops support activities and materials to accompany each segment of the course of study. A series of checkpoints in the program assist the instructor in determining the student's understanding of the material being taught. A student who demonstrates a level of comprehension that suggests remedial assistance or a greater challenge is directed to specific activities to meet his/her individual needs. Such an instructional management system supports the instructor, allows more time for instructor/student contact, and gives the instructor control of the educational process.

ELEX/IMS software uses PDP/11s and VAX systems with print and/or video (CRT) terminals to deliver its programs. The central computer is used for providing objectives and directions for course modules, measuring student performance, and keeping student records. Print and video terminals are used by the students to access their assignments and to take self-evaluation exercises and instructors' tests.

A version of this product is available for the VAX computer.

Price: \$12,500 – \$15,000

Contact: Dr. Nicholas J. Maldari

(609) 654-1100

ELEX, THE EFFECTIVE LEARNING EXCHANGE

P.O. Box 14

Medford, NJ 08055

Engineering Science Program Exchange

Operating System: RSX

Keywords: • Computer-aided instruction • Engineering
• Graphics • Simulation

This library of more than 70 computer-assisted learning packages covers topics in aeronautical, civil, chemical, mechanical, electrical and electronic, and nuclear engineering. Most of the packages are engineering system simulations that a student may investigate by interacting with a computer terminal. The programs are written in ANSI FORTRAN IV or BASIC; some are available in both languages. Many of the FORTRAN programs make use of graphical display.

A package comprises a machine-readable source code and supporting documentation containing information for the teacher, the programmer, and the student. Most of the FORTRAN packages have been run on a PDP-11/40; some of the BASIC packages will require translation to IAS BASIC before they will run.

A version of this product is available for the VAX computer.

Price: £25 – £110

Contact: P. A. Tinson, Exchange Coordinator
01-980 4811

ENGINEERING SCIENCE PROGRAM EXCHANGE
Faculty of Engineering, Queen Mary College
Mile End Road
London E14NS
United Kingdom

Financial Management for Schools

Operating System: CTS-300, RSTS, RT-11, UNIX

Keywords: • Accounting • Data base management
• General ledger • Payroll

ASI's financial management systems are designed according to Handbook IIR guidelines and can be used separately or as a comprehensive package.

- Program Budgeting System (PBS) is an encumbrance accounting system with vendor files for automatic vendor check printing and accounting. PBS automatically assigns transaction codes for quick reference regarding any purchase order. PBS's budget preparation aids produce more than 14 reports, including:
 - Budget Status Report, sorted by fund, function, program, department, object, or location, provides year-to-date information.
 - Budget Detail, similar to the Budget Status Report, has all transactions against selected budget segments listed with dollar amount of transaction, vendor, check number, and so forth.
 - Bank Check Register prints information in detail or in simple form.

- Transaction Report lists transactions by purchase order number.
- Vendor Report lists transactions by vendor.
- Payroll System provides automatic payroll disbursement, including up to 12 deductions in addition to federal withholding tax, FICA, and insurance and pension deductions. The system also prints W-2 forms.
- Payroll System to PBS Crossovers charges payroll checks to various Handbook IIR programs. Under Handbook II mandates, programs are discretely identified. If, for example, the math teacher is also the ski coach, both programs must be charged certain amounts of gross pay from a single paycheck. Those amounts are calculated, and then the system interfaces those apportioned charges between payroll and expenditure data bases.
- Revenue Accounting System is a format for revenue accounting designed for program-oriented budgeting.
- General Ledger/Fund Balances System, a double-entry ledger system meeting Handbook II requirements, goes hand in hand with PBS.

Price: \$9,000

Contact: Heather Beckwith
(603) 659-2290

APPLIED SYSTEMS, INC.
84 Main Street
Newmarket, NH 03857

GIGI CAI Primer, Version 1.0

Operating System: RSTS

Keywords: • Computer-aided instruction • Graphics
• Simulation • Text management

The GIGI CAI Primer is a computer-assisted instruction course that teaches the use of a GIGI terminal. All instruction is presented on line via a GIGI terminal connected to a RSTS/E, a VAX/VMS, or a TOPS-20 operating system host.

The course is composed of three instructional modules that cover the operation of the GIGI keyboard, the use of various set-up modes that determine GIGI's operating characteristics, and a demonstration of the terminal's graphic capabilities. The course takes about one hour to complete.

Refer to SPD #30.11.0 when requesting further information on this product from your local DIGITAL sales office.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Consult your local DIGITAL sales office
(see Introduction).

Grade Reporting

Operating System: RSTS

Keywords: • Data base management

The report card data base is created from the scheduling file. Utilities exist for changing or deleting existing records and adding new records to the file. Grades are posted on preprinted class lists by teachers and are entered on line. Provisions also exist for gathering grades, using optical scanning sheets. Grades may be alpha + or - , numeric, or a combination of the two. Report cards include a schoolwide message, worded comments, and daily attendance for each class. Grade analysis; D, F, and I reports; honor rolls; grade-point averages; and rank in class are calculated. Permanent record labels and mailing labels are produced at the end of the year.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Edward J. Mackniak
(800) 243-3177

SYSTEMS ELEVEN, INC.
Middlebury Hamlet
Middlebury, CT 06762

Grade Reporting System

Operating System: CTS-300, RSTS, RT-11, UNIX

Keywords: • Data entry • Information management
• Printing • Report writer

ASI's Grade Reporting System organizes and prints student report cards as well as five administrative reports.

Data is typed at a terminal or recorded on mark-sense cards. Student name, number, course, title, teacher, quarter and final grades, exam grades, absences, tardies, dismissals, credits, and so forth are compiled.

The grade verification list ensures correct reporting. Grade distributions by class and by teacher, honor roll, and class standing lists provide administrators with necessary data. The final grade summary and transcript for each student can be attached to permanent records.

Price: \$3,000

Contact: Heather Beckwith
(603) 659-2290

APPLIED SYSTEMS, INC.
84 Main Street
Newmarket, NH 03857

Grade Reporting System

Operating System: CTS-300, RSTS, RT-11

Keywords: • Data collection • Report writer

For grade reporting, teachers use either prepunched student grade sheets or coded prepunched mark-sense cards. Grades may be alphabetic, numeric, or a combination of both. Grades are entered into the computer by either card reader or keyboard terminal.

When all grades have been entered, the computer prints student report cards with grades, course and credit information, teacher name, comments for each course, attendance information (including days suspended), mailing address, schoolwide messages, and cumulative demerits, if desired. Class lists with current and previous grades are printed along with selected grade lists, including complete summary lists. The following reports are also generated: grade distribution by course, by teacher, by department, and by school; comment usage report; rank in class alphabetically and numerically; and permanent record labels. The computer automatically updates student records for career grade point average and rank in class. Grade point average may be either unweighted or weighted with up to four weights.

A maintenance program allows for changes and updates by card reader or through the keyboard terminal. A new report card for any student can be obtained at any time.

All programs are tailored to suit the specific requirements of each school. No special forms are required; report formats are flexible.

Price: Available upon request

Contact: C. R. Burgess

(617) 275-6800

QEI, INC.

119 The Great Road

Bedford, MA 01730

GRADES (Grading, Recording, and Analyzing Diverse Evaluations of Students)

Operating System: RT-11

Keywords: • Calculation aids • Statistics

This system of 16 programs grades, records, and analyzes diverse evaluations of students. In addition to scoring objective examinations, GRADES performs detailed item analyses and determines means, standard deviations, and frequency distributions of tests. The system permits the instructor to modify test scores or to enter grades for essay exams and oral or written presentations. The program maintains a "gradebook" and displays scores for each exam for posting. GRADES allows the instructor to differentially weigh each student's entries and

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to establish unique upper and lower limits for each measure prior to calculating the overall course grade for all students. DECUS number 11-338.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

INRAN, OUTRAN: Computerized Question Generation #2

Operating System: RSTS

Keywords: • Computer-aided instruction

This package allows an instructor to generate tests with questions chosen at random from a large data base. For example, a data base of 50 questions can be created, and each test can consist of 20 questions chosen at random from among the 50. Tests and answer keys are printed separately. The programs can create a given number of tests; or, using the Names Program from DECUS No. RSTS-11-23 or PIP, a student name file can be created. The tests and answer keys will be printed according to the student names in the file. DECUS number 11-32.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

ISAS (Interactive Student Accounting System)

Operating System: RSTS

Keywords: • File management • Menu handlers
• Report writer • Scheduling

A complete student accounting system for secondary and vocational education, ISAS includes student scheduling, textbook rental (including miscellaneous lab fees), grade reporting, and attendance reporting with historical information. The system also provides for miscellaneous other reports.

The on-line, menu-driven system can be operated by school personnel and has complete data checking to ensure data integrity.

The system consists of the following modules:

- **Student Information System:** Used for entry of the student into the system. The administrator can completely modify this file. This system permits display of student data, including personal data, class schedules, current year grades, and attendance. Additionally, a student register and address labeling are available.
- **Student Scheduling System:** Provides all modules for the complete scheduling process.
- **Textbook Rental:** Provides for the identification and accounting of both textbook and lab fees.
- **Grade Reporting System:** Provides for all functions of grade reporting. The scheduling subsystem is a required module for the Grade Reporting System.

- **Attendance System:** Provides for complete attendance by class. CRT entry is standard and provides for the daily attendance input, individual teacher reports, daily attendance summary, excessive-absence report, and absence period summary report.
- **Other System:** Includes miscellaneous reports, such as automatic counselor assignment and feeder school transfers with on-line scheduling.

Price: \$4,900 – \$11,900

Contact: David Tortora, President
(317) 872-7200

COMPUTER SYSTEMS CORP.
5540 Rock Hampton Court
Indianapolis, IN 46268

IWB (UNIX* Instructional Workbench Software)**

Operating System: UNIX

Keywords: • Computer-aided instruction • Report writer
• Security

The IWB system, developed by AT&T Bell Laboratories, delivers instructional material in a variety of instructional environments. Each of those settings requires a selection of appropriate system component options and may require modification of the delivered software.

The various IWB system instructional environments can be divided into two major categories: administered, one in which a person coordinates student activity, providing help to the student; and open-access, one in which the IWB system is made available just as any other UNIX* facility would be.

The IWB delivery system consists of two main components: topic selection and topic execution. (A topic is an IWB system unit of instruction.) In addition, components control registration and system access, as well as utility functions such as reports and courseware support.

*UNIX is a trademark of AT&T Bell Laboratories. **Instructional Workbench is a trademark of AT&T Technologies, Inc.

Price: \$2,500

Contact: AT&T Technologies Account Executive
(800) 828-UNIX

AT&T TECHNOLOGIES, INC.
P.O. Box 25000
Greensboro, NC 27420

LEADS: An Interactive Data Base Management System for Education

Operating System: RSTS

Keywords: • Data base management • Query facilities
• Report writer

The LEADS software gives local school districts an interactive data base management system. The software is appropriate for:

- A single, large data base containing all student, staff, and financial data and all appropriate data relationships
- A large RSTS/E system providing services to several school systems, as each system could have its own independent, secure data base
- Allowing any user to build a mini-data base for a special application
- Teaching data base concepts, as each student can be manager of his or her own data base and operate that data base independently

The available software includes all the utilities required to create and maintain a data base; a powerful, easy-to-use query language; a report writer language; a function package that enables user-written programs to interact with the data base; and documentation intended to fully describe the first four items.

The LEADS software includes few restrictive parameters and several features found in the very good, very expensive commercially available DBMSs. There are, of course, files, which are divided into records, which are divided into fields. Records can be related to other records, using pointers and associators. Pointers permit “direct” access to the target record; associators require one or more intermediate steps. Fields can be accessed sequentially or by using an optional ISAM index. Inquiries can be nearly as complex as desired, with little or no regard to the software boundaries of files and fields. Users can make most of their queries with no knowledge of the data structure. A multilevel security system permits school systems to be as legal as they choose with their computer-based data. DECUS number 11-278.

Note: The *LEADS Overview* manual is available only in hard copy. The writeup and three additional manuals (FUNCT.DOC, LMANGR.DOC, QUERY.DOC) are contained on the magtape and disk.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

LEADS (Local Education Agency Data System)

Operating System: RSTS

Keywords: • Accounting • Data base management
• Library science

LEADS is a working, well-documented general-purpose interactive data base management system specifically designed to meet the needs of public education. The nature of the data and the data format are determined by the user; no portion of the data base is predetermined or prestructured. Data relationships that accurately represent the rather complex relationships found in public education can be easily defined by the user. The system includes an especially powerful QUERY language, ISAM indices, a report-writing language, and enormous flexibility in the creation and maintenance of the data base structure. LEADS software is appropriate for a single large data base containing

all student, staff, and financial data and all appropriate data relationships; a large RSTS/E system providing services to several school systems, as each system could have its own independent, secure data base; a user-built mini-data base for a special application (for example, curriculum materials management); or teaching data base concepts, as each student can be manager of his or her own data base and operate that data base independently.

Files are divided into records, which are divided into fields. Records can be related to other records, using pointers and associators. Pointers permit "direct" access to the target record, whereas associators require one or more intermediate steps. Fields can be accessed sequentially or by using an optional ISAM index. Inquiries can be nearly as complex as desired, with little or no regard to the software boundaries of files and fields. Users can make most of their queries with no knowledge of the data structure. A multilevel security system permits school systems to be as restrictive as they choose with their computer-based data.

Available data base application packages (\$1,000) include student/staff data base, instructional materials retrieval system (nonbook), financial data base, inventory, scheduling of students, and grading.

Price: \$1,000 – \$3,000

Contact: Frank DiGiammarino

(617) 862-7500 ext. 117

LEXINGTON PUBLIC SCHOOLS

1557 Massachusetts Avenue

Lexington, MA 02173

Multi-Tester System

Operating System: RT-11, TSX-PLUS

Keywords: • Data base management • Information management

The Multi-Tester System gives and grades tests on any subject matter by maintaining a data base of questions, including such question data as question type (true/false, multiple choice, text), question category (Introduction to Theatre, World History, Calculus II, and others), question text (unlimited number of lines up to size of text file), answer text if a text question (unlimited number of lines up to size of text file), and question's answer (if not a text question). The system can generate screen tests or paper tests. Questions on tests can be preselected or randomly chosen at the time the test is either printed or given at the screen. Screen tests have a user-definable time limit. Tests given at the screen automatically print out a test result report for the teacher, showing what questions were asked, what the student's answers were, what the correct answers were, the student's score on the test, and the student's current test average. The computer can grade the test and update the student's record in the file. Since test questions can be randomly selected at test time, the computer can allow a student to take the same test repeatedly and record only the highest score to date. Or

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the teacher can allow students to take the test without grading them. Then, when the teacher decides that the students are proficient enough (the system maintains a test average for all the times the test has been taken), the system can be directed to begin grading the test. The system also keeps files on classes of students. The information includes the student's SSN, his/her name, the tests he/she has taken, and the high score on each test.

The versatile Multi-Tester System runs on any PDP-11 using FORTRAN IV or VAX using VAX-11 FORTRAN. The system is written in modular form and is easily modified, since source code is available.

A version of this product is available for the VAX computer.

Price: \$250 - \$500

Contact: Mitchell R. Sowards
(512) 692-0953 (696-8018 after 6 PM Central)
DRAGON SYSTEMS
8746 Wurzbach Road, Suite 203
San Antonio, TX 78240

OMEGA Scheduling System

Operating System: CTS-300, RSTS, RT-11, UNIX

Keywords: • Decision support • Report writer • Scheduling
• Statistics

ASI's OMEGA Scheduling System assists school administrators in constructing, testing, adjusting, and finalizing an entire school master schedule. Student registrations provide data on required and elective courses, sections, enrollments, and course conflicts. That information enables the administrator to solve scheduling problems through simulation runs that match course requests to the master schedule.

When the schedule is complete, documents such as the following can be printed: the master schedule, listing each course, room number, teacher, period, days, enrollments, and empty seats; a schedule for each student; class lists; room and teacher schedules; study hall and home-room lists; and student biographical information lists.

Course changes, additions, and deletions can be edited as necessary. Data in files can be used to generate grade-reporting records.

Price: \$5,000

Contact: Heather Beckwith
(603) 659-2290
APPLIED SYSTEMS, INC.
84 Main Street
Newmarket, NH 03857

On-Line Registration System

Operating System: RSTS

Keywords: • Scheduling

This package of programs builds student and section files and provides on-line registration, financial aid, and bursaring information. Students may be registered in any manner: high-speed card reader and printer, magtape, low-speed card reader and printer, or CRT. Special inquiry is provided by password to access both student and section information. A complete series of back-up programs preserve the data. Various reports are available.

Price: Free

Contact: Peter Hoberman
(212) 220-6410

BRONX COMMUNITY COLLEGE
W. 181 Street & University Avenue
Bronx, NY 10453

Payroll

Operating System: RSTS

Keywords: • Payroll

The Payroll system is a comprehensive system to accommodate the variations found in the complex school/municipal application. Variable pay cycles may be defined by the user. Deductions and tax shelters are also defined, which may be percentages of fixed amounts of gross pay, net pay, or a subset of either. Multiple pay rates of salary amounts may be assigned to any single employee. FICA and other pension plans are calculated on a daily pay rate basis. Distribution of gross wages may be done by percentage of gross pay or by separate pay rates. Multiple distribution accounts may be assigned to each pay rate. The system determines federal, state, and city income taxes, using a table calculation method. Monthly, quarterly, and yearly reports are provided. All interaction is on line.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Edward J. Mackniak or Ray DeVries
(800) 243-3177

SYSTEMS ELEVEN, INC.
Middlebury Hamlet
Middlebury, CT 06762

PPBS (Budgeting/GL/AR/AP)

Operating System: RSTS

Keywords: • Accounts payable • Accounts receivable
• General ledger • Financial analysis

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PPBS provides the central office administrator with a complete fiscal management tool. Financial record-keeping functions are processed on line, resulting in immediate updating of files. The use of historical data contained within the current files gives the user a valuable tool in projecting future budget needs.

The package encompasses a receivables system, a payables system, and a general ledger system. Budget files, vendor files, purchase orders, and expenditure files allow for complete processing. A comprehensive set of reports is available, including federal and state requirements and standard budgetary reports. The package enables the user to implement Handbook II guidelines and to meet state-mandated line-item reporting requirements.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Edward J. Mackniak or Ray DeVries
(800) 243-3177

SYSTEMS ELEVEN, INC.
Middlebury Hamlet
Middlebury, CT 06762

Project Delta, Section B: Statistics Programs

Operating System: RSTS

Keywords: • Calculation aids • Scientific • Statistics

Memory required: 8K.

Section B consists of the following programs. LNREG1 and LNREG2 perform simple linear regression calculations. BINOPO performs probability distribution comparisons. REGCOR performs regression and correlation analysis. CHISQ computes the probability of chi-square values. CHISQS performs chi-square statistics for $m \times n$ contingency tables. GEOMEN computes statistics of geometric distribution. PHICOE performs phi-coefficient calculations. CORMAT is a correlation matrix for n series of data. ANVAR1 and ANVAR2 perform analysis of variance. HISTOG produces histograms on the user terminal. RANDEV generates random deviates. STAT1 produces statistics on two groups of unpaired data, STAT2 is a Mann-Whitney 2-sample rank test, and STAT3 calculates Spearman rank correlation coefficients. DECUS number 11-6.

Note: Magnetic tapes include DECUS No. RSTS-11-9.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Project Delta, Section C: Business

Operating System: RSTS

Keywords: • Accounting • Financial analysis • Management

Memory required: 8K.

Section C contains business programs. DECSN is a management-decision simulation for 10 to 60 participants. MANAGE is a management-decision simulation for three teams. DYNPRO is a dynamic programming model and business simulation tool. DEPCOM provides four methods for calculating depreciation. ANNUIT performs annuity analysis. EQUITY computes cost of equity capital. INSTMT produces an income statement. LENDER performs simple loan analysis. TRUINT computes true annual interest rate. LESSEE compares lease with purchase. SALES prints a sales commission report. MKBUY performs make versus buy analysis. MORGAG performs mortgage analysis. GNPSUM provides a gross national product summary. EXDRSK performs extended-risk analysis. STKRTN writes a stock-return report. STKSMO is an exponential smoothing stock guide. STKVAL writes a stock-value report. STKINC analyzes a stock merger incentive. BNDPRC performs bond price analysis. BNDYLD performs bond-yield analysis. BNKRVS performs bank-reserve calculations. CAPINV performs capital-investment analysis. EXSMOO is an exponential smoothing on price data. BALSHT is a balance sheet and income statement. INACNT shows national income and product accounts. INOUT analyzes interindustry product flow. BUDGET is a department manager's budgeting program. DECUS number 11-7.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

Project Delta, Sections E and F: Additional Mathematics and Teacher Assistance

Operating System: RSTS

Keywords: • Mathematics • Statistics

Memory required: Mostly under 8K.

Section E mathematics programs are as follows. GLPSA1 is a 2-phase simplex method of linear programming. TMFCEV performs time function evaluation (engineering applications). CALC is a calculator for numbers of up to 100 digits. CXEXP raises a complex number to a real or a complex power. GSIMEQ solves simultaneous linear equations. CXARTH performs vector arithmetic operations. POLY finds the polynomial to approximate a table of x - y data. POLFIT performs multiple regression/correlation analyses. FREQ finds a number of data points (frequency) within limits (data can be in a file or from terminal). RANDOM generates random numbers with user-specified sample and population sizes. ANVAR3 computes analysis of variance table for a 2-way classification of variables design in which a single observation is made for each combination of levels. ANVAR4 computes analysis of variance

table for a 2-way classification of variables factorial design with replicated observations. GANOVA computes analysis of variance table for a 2-way classification of variables (data is entered down columns). MULTX performs a least-squares curve fit to one of seven functions (operation is interactive at the terminal). POLSUB exercises students in polynomial subtraction operations. GINTLP solves linear programming problems with variables of values 1 and 0. SIPRAC exercises students in mathematical operations on signed numbers. KR20 performs item analysis and Kuder-Richardson formula 20. DE10R solves a first-order differential equation (Runge-Kutta). DE20R solves second-order differential equations (Runge-Kutta). SUNSET computes Greenwich Mean Time (or other time) for sunrise and sunset, given a particular week and a given latitude and longitude. WAVES plots the effects of changing wavelength, amplitude, and phase on two waves and their sum. SPCTRA plots optical absorption spectra of two species equilibrium mixtures. FACTRL produces any desired factorial and preceding factorials. SQRZ finds the square root of a complex number. BISQAR provides drill for students on squaring binomials.

Section F teacher assistance programs are as follows: AVERG1 averages and curves grades. GRADE, given the number of questions on a test, prints a list of percent score versus number of questions right or wrong. STAT performs statistical analysis of student grades. SCORES computes mean, standard deviation, and standard scores for student grades. DECUS number 11–152.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

Project Delta, Sections G and H: Business and Data Processing

Operating System: RSTS

Keywords: • Accounting • Calculation aids • Cost accounting
• Language processors

Memory required: Mostly under 8K.

Section G contains business programs. GSSS, a small system simulator, allows an item to be created, moved through a defined system, and then destroyed. CSHFLO performs up to four cash flow analyses for given cost of capital and computes the rate of return and payback period. GNMRVB/GMRGB analyzes securities. GSTKVL performs stock valuation. GTHOR calculates securities EPS growth. TRCK1 calculates breakpoint weights for trucking freight. LEASIN calculates lease income. LOAN performs loan amortization. GIRRPV performs investment return (cash flow) analysis. GRISKA analyzes the risk of capital investment. IATA1 calculates breakpoint weights for air freight. DROIPB calculates the discounted return on investment. GKASSF computes normal price of a warrant. GK COST performs price/earnings ratio calculations. GVOTE simulates committee votes.

CPATH, GCPM1, and GCPATH perform critical path analysis. SLSSMN is a sales management program. INSTR.UCS gives the instructions data file for SLSMN. LABOR simulates labor and management bargaining. LABSET creates a data file for LABOR. LABOR.DOC is a description of the LABOR program. MARKOW computes efficient securities portfolios. GNPSUM produces figures for GNP, consumption, investment, and government spending from a model in which consumption is a function of income in the previous period. WHEELS simulates the finances of owning and operating a car over 12 months.

Section H contains data processing programs. STOPB simulates a simple digital computer with a defined machine language. BRAIN simulates a simple digital computer with a more complex defined machine language. ADDRES prints addresses on labels. SORT performs an ascending or descending sort on a simple ASCII file. XREF is a BASIC program listing and cross-reference generator. DECUS number 11-159.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

Prolog

Operating System: UNIX

Keywords: • Data base management

This implementation of Prolog, written in C, supports a very limited set of built-in predicates. The program provides efficient memory management (last-call optimization), using copying method. The program includes a simple single-user relational data base handler (deductive data base).

Porting to VAX requires some adaptations.

Price: \$70 – \$300

Contact: M. Bruynooghe

—
UNIVERSITY OF LEUVEN, DEPT. OF COMPUTER
SCIENCE
Celertijnenlocon 200A
Heverlee B3030
Belgium

PRSN (Personnel)

Operating System: RSTS

Keywords: • Information management • Personnel

PRSN is a comprehensive personnel system designed specifically for use by schools and municipal agencies. It contains demographic, education and medical information, and work experience. Certification status and assignment areas are recorded for the professional staff.

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Salary and benefit status aid in negotiations and projections. Reports, such as seniority lists, subject-area assignments, cross certification, and special systemwide directories, are readily produced. A negotiations subsystem allows for fixed rates or percentage increases for each step and level in the salary schedules. Employee attendance is posted to a calendar that appears on the screen, permitting quick visual analysis of absentee patterns. Hard-copy reports are also provided.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Edward J. Mackniak or Ray DeVries

(800) 243-3177

SYSTEMS ELEVEN, INC.

Middlebury Hamlet

Middlebury, CT 06762

QUEST Graphical and Text Information System

Operating System: ULTRIX, UNIX

Keywords: • Architecture • Computer-aided instruction
• Graphics • Text management

QUEST is a generalized subset of the larger BADGER system, developed for the Scottish Education Department and the Department of Education and Science and used for the COSLA/SED National School-building Survey. QUEST offers convenient facilities for recording and viewing information held as plain language text linked to drawings; access to records is either by hierarchically ordered text headings or by pointing at drawings. Typically, drawings may be building plans or diagrams depicting an organizational structure. QUEST includes procedures for tracing (digitizing) from existing drawings to a computer and for capturing text data via user-designed forms (templates) on a display screen.

QUEST does not commit users to any particular anticipation of what data is to be stored; users are able to build up and modify their own data structures for holding information. QUEST can be used for holding any information associated with buildings and for office management applications.

No computing skills are required, but users have to think logically about how they wish to organize their information. Input includes digitized drawings. Output includes printed text.

The system is written in the C programming language to run in a UNIX* software environment. On-site expertise in operating with UNIX* or good access to such expertise is required.

The system requires any computer that runs full UNIX* V7, SIII BSD 4.1, or commercially available versions such as XENIX or UNITY. Current smallest configurations include DIGITAL's LSI-11/23 microprocessor with 22-bit addressing, with at least 256Kb memory

and 10Mb hard disk, plus back-up media. Available hardware includes more powerful Motorola 68000-based microcomputers, such as the Plessey System 68, at similar cost.

Peripherals include a raster graphics terminal, such as the Westward GT1015 or GT2015; a graphics plotter, such as the Hewlett-Packard 7221 (A3) or 7580/5 (A1/0); a digitizer, such as the TD HR-48 or Summagraphics ID-36; and a dot matrix or daisywheel printer. Equipment can be obtained independently of software; consultancy services are offered on selection, purchase, and commissioning of equipment.

The data base management system supplied works efficiently on small computers; it can be used for other computing applications and allows the possibility of adding applications functions. Error trapping and recovery functions to protect users from accidental loss of files are included.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: £10,000

Contact: Aart Bijl

(031) 667 1011 ext. 4598

EDCAAD, DEPARTMENT OF ARCHITECTURE

University of Edinburgh

20 Chambers Street

Edinburgh EH1 1JZ

United Kingdom

QUEST, Standard MUMPS Teaching Program, and DOC

Operating System: DSM (MUMPS)

Keywords: • Computer-aided instruction • Device drivers/
handlers • Documentation • Query facilities

Memory required: 4K MUMPS partition.

These three programs are all in Standard MUMPS and provide a basic set of applications for a new user of Standard MUMPS. QUEST is a simple questionnaire driver that facilitates the specification and editing by authors of computer-aided teaching programs, the use of those programs by students in learning and in being tested, and the monitoring by supervisors of the use of QUEST. For simplicity, the student answers may be of only three types: multiple-choice answers, yes/no answers, and key-phrase answers, where the student enters a response in free text. All interactions with QUEST are in ordinary English, and no user, whether a student, an author, or a supervisor, is required to have skills in using computers.

The Standard MUMPS teaching and testing program explains the concept and language features of Standard MUMPS and can test how effectively the student is learning the material presented.

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DOC is a documentation package centered on an automatic cross-referencer. The cross-referencer identifies what and where local and global variables are referenced, what and where commands (particularly those for transfer of control) occur, and the locations of various functions, special variables, comments, and indirection. That data may be printed in different reports both for individual routines and for sets (programs or packages) of routines. DECUS number 11-380.

Associated documentation: A copy of each of the following monographs can be ordered through Polly Raith, Biomedical Computer Laboratory, 700 South Euclid, St. Louis, MO 63110: *QUEST Design Manual*, Monograph #300; *Standard MUMPS Teaching Program Design Manual*, Monograph #335; *DOC Design Manual*, Monograph #301.

Ordering information: Order DECUS Number 11-380A (writeup (AB)) for the explanatory documentation. Some of the text is illegible, but because of the high level of interest, it will be distributed "as is." (See Associated documentation.) Order DECUS number 11-380B (writeup (AA)) for a copy of a paper written on QUEST.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

ReGIS CAI Primer, Version 1.0

Operating System: RSTS

Keywords: • Computer-aided instruction • Graphics
• Simulation • Text management

The ReGIS CAI Primer is a computer-assisted instruction course that teaches the use of ReGIS, the Remote Graphics Instruction Set firmware that is resident in the GIGI graphics terminal (see SPD 30.10). All instruction is presented on line via a GIGI terminal connected to a RSTS/E, a VAX/VMS, or a TOPS-10 operating system host.

The course is composed of seven instructional modules that explain the use of GIGI's firmware graphics language, the Remote Graphics Instruction Set (ReGIS). Those modules cover the specification of screen and writing attributes as well as basic graphic entities, such as points, circles, vectors (lines), text, and curves. The course takes between six and eight hours to complete.

Refer to SPD #30.12.0 when requesting further information on this product from your local DIGITAL sales office.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Consult your local DIGITAL sales office
(see Introduction).

Registration

Operating System: RSTS

Keywords: • Data base management • Government

Registration is a complete child-accounting system containing all pertinent information required for state and federal reporting. User-defined fields allow for storing information unique to a school system. Master registration lists by system, school, grade, and so forth, are readily available. This system has been designed around guidelines provided by the U.S. Department of Education, state guidelines, and individual school needs. Information in the following categories is stored and readily retrievable: personal identification; family and residence; physical, health, sensory, and related conditions; tuition; mental, psychological, and proficiency test results and related student characteristics; and enrollment, performance, transportation, and special assistance.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Edward J. Mackniak or Ray DeVries
(800) 243-3177

SYSTEMS ELEVEN, INC.
Middlebury Hamlet
Middlebury, CT 06762

ROLMAN III

Operating System: RSTS

Keywords: • Statistics

Memory required: 24KW.

ROLMAN is a system of routines for the interactive creation and maintenance of class rolls. The system supports 21 functions. The maintenance functions allows ROLMAN to modify, correct the status information, display part or all of the roll at the user's terminal, and print the roll for use as a gradebook. ROLMAN also creates individual reports to inform each student of his/her current standing. The system also provides the user with various statistics. ROLMAN is easy to use and comes with a user's manual, examples, and a guide. DECUS number 11-334.

Note: Files built by previous versions may not be processed by this version, and vice versa. The format of the files built by ROLMAN has been modified to conserve disk space. A field for a social security number has been added for each student, and the special information field has been expanded to 40 characters. The number of tests and problems have been expanded to 15 each. The REPORT, DISPLAY, and SELRPT formats have been changed accordingly. A new function, CSSN, has been added to allow for correction of an incorrect social security number.

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Price: \$5 – \$225

Contact: DECUS (see Introduction)

Scheduling

Operating System: RSTS

Keywords: • Scheduling

Scheduling is an on-line interactive system designed to help the user through each step of the entire scheduling process from student requests to building the master schedule to printing student schedules. Some features are on-line master schedule building, schedule changes, and class conflict screen; computer scheduling of individual students; generation of daily add/drop lists and updated student schedules; multi-time vector classes; variable class-balancing facilities; course, alternate course, and student priority scheduling; linked or blocked courses; and a study hall subsystem.

The system offers Course Catalog, Student Scheduling, Teacher Catalog, Teacher Schedules, Student Verification, Student Conflicts, Simple Tally, Class Lists, Homeroom Lists, Conflict Matrix, Master Schedule Listing, and many more reports.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Edward J. Mackniak or Ray DeVries
(800) 243-3177

SYSTEMS ELEVEN, INC.
Middlebury Hamlet
Middlebury, CT 06762

School Fiscal Accounting

Operating System: RSTS

Keywords: • Accounting • Accounts payable
• Financial management • General ledger

This package of programs, designed to handle the financial affairs of a public institute, is based on a fully accrued and encumbered system of interfund accounting for publics. The package handles accounts payable, general ledger, and budget and expenditure reporting. The system is general ledger account code-independent, and all transactions post immediately to the general ledger, thus providing up-to-date balances in the general ledger for as often as transactions are entered. The system supports purchase orders, invoices, general journals, handwritten checks, cash receipts, bank deposits, accounts receivable invoices, journal vouchers, budget setups, and budget adjustments. Accounts payable checks can be written any time and as many times as necessary during the month. All checks are drawn on one fund, and appropriate interfund entries are made to keep funds in balance. The general

ledger contains an on-line lookup feature of any account(s). Budget and expenditure reports are provided, along with a balance sheet report by fund.

A consumable inventory and a work order system are also available as subsystems to the fiscal system. The work order system can run stand-alone, and the inventory system could be made to run alone. Each package is an additional \$500.

Price: \$2,400

Contact: John A. Christensen
(208) 522-7490

IDAHO FALLS SCHOOL DISTRICT NO. 91
690 John Adams Parkway
Idaho Falls, ID 83401

School Instructional Packages

Operating System: RSTS

Keywords: • Computer-aided instruction • Mathematics

These instructional packages are designed to tutor and/or drill students in various instructional disciplines. Each package is a series of programs.

- Elementary Level Instructional Package: Vol. I drills students on basic math facts with a variety of games; Vol. II drills students further on basic math facts, keeping track of the students who do the most problems in a given amount of time; Vol. III is very elementary in its drill of students on math facts.
- Fraction Package is a tutorial in teaching students about fractions.
- Decimal Package is a tutorial in teaching students about decimals.
- Division Package teaches and drills students about long division.
- Percent Package tutors and drills students about percent concepts.
- Signed Number Package is a tutorial and also provides drill for the students in signed-number arithmetic.
- Reading Package allows the student to read a passage on the terminal screen and take a comprehensive test when completed.
- Phonetics and Comprehension Package uses more than 3,000 words and sentences for each word to drill students on sounds, and so on, and also provides various word games.
- Spelling Package allows the teacher to put the weekly spelling words into the computer and drill the student on them in various ways.
- CAI Package allows the teacher to build lessons and administer them to the student via the computer terminal. Records are also kept.
- Physical Science Package drills students on several science topics, such as metric conversions.
- Program Simulation Package demonstrates the execution of a BASIC program and provides drill on BASIC string functions.

Price: \$500

Contact: John A. Christensen
(208) 522-7490

IDAHO FALLS SCHOOL DISTRICT NO. 91
690 John Adams Parkway
Idaho Falls, ID 83401

School Payroll Package

Operating System: RSTS

Keywords: • Cost accounting • Government • Payroll
• Personnel

This package, designed to handle the payroll for public institutes, supports any typical pay period and can handle contract or salaried personnel, time card personnel, or daily rate personnel. Contracted salaries can be accrued, and adjustments can be made to wages. The package provides for extensive multiple cost accounting for employee wages. Leave can optionally be accounted for and automatic adjustments created if leave is exceeded. The system's regular, void, and supplementary payroll procedure provides an analysis of salaried contracts; payroll journal expense and obligation reports; year-to-date, fiscal-to-date, and quarter-to-date reports; deductions registers; and so forth. The system prints 941s and W-2s and also provides for extensive staff accounting, which allows for the printing of a teacher's contract or the costing of a teacher's salary schedules. The system can be run by itself but is also designed to post its transactions to a general ledger if you are using the Fiscal Package. The system is completely on line and can be run remotely using a terminal.

Price: \$2,700

Contact: John A. Christensen
(208) 522-7490

IDAHO FALLS SCHOOL DISTRICT NO. 91
690 John Adams Parkway
Idaho Falls, ID 83401

School Student Accounting Package

Operating System: RSTS

Keywords: • Data base management • Information management
• Scheduling

This package of programs, designed to handle student records for a given school, provides for preregistration, master schedule-building information, registration via either on-line arena scheduling or automatic scheduling, schedule updating daily, daily attendance by class, and grade reporting, as well as many special features.

The package can be run from a remote terminal located in the school's office. The student's record is on line at all times.

The system generates the following:

- Master class, room, student, and teacher schedules
- Class, course, incomplete, and failure lists
- Daily attendance and weekly ADA reports
- Preregistration counts
- Conflict matrices
- Class loads
- Report cards
- Honor roll listings
- Teacher's grade distribution

A gummed label for the student's permanent record folder can be printed at the end of each semester or year.

Price: \$3,000

Contact: John A. Christensen
(208) 522-7490

IDAHO FALLS SCHOOL DISTRICT NO. 91
690 John Adams Parkway
Idaho Falls, ID 83401

SCORE

Operating System: RSTS

Keywords: • Report writer • Statistics

Memory required: 27K.

SCORE, a program that grades multiple choice tests with up to 67 questions and answers between 0 and 9, allows penalties for invalid ID numbers and for each question to count a different number of points (weight). SCORE can produce five types of reports: a report for each student detailing his/her performance on the test, a report for the instructor summarizing the performance of each student in the class, a report analyzing each question and each answer in terms of numbers and percentages of students choosing each, a bar graph analyzing correct answers, and a bar graph showing the numbers of students scoring 90-300, 80-89, 70-79, 60-69, and 0-59.

If ROLMAN (DECUS number 11-334) is installed and is in use, SCORE can record grades in the ROLMAN files, check for duplicate entries, and obtain information from ROLMAN for use in printing the reports above. SCORE allows the user to hand grade part of the test and to include the hand-graded score with the machine-graded part of the test. Documentation is minimal but includes examples. DECUS number 11-568.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

SIGI (System of Interactive Guidance and Information)

Operating System: RSTS

Keywords: • Decision support • Simulation

SIGI is an interactive guidance system designed to aid students in (or about to enter) college in making informed career decisions. The system emphasizes not only the decisions, but also the process of decision making. SIGI consists of five subsystems: Values, Locate, Compare, Planning, and Strategy.

- **Values:** The student examines 10 occupational values, such as helping others, income, independence, and security, and weighs the importance of each one. The student then plays a values “game” to test the validity of the assigned weights and to help redefine his or her value structure.
- **Locate:** The student puts in specifications and gets lists of occupations that meet those specifications.
- **Compare:** The student asks questions and gets specific information about occupations of interest.
- **Planning:** The student gets displays of programs for entering occupations, licensing or certification requirements, and sources of financial aid.
- **Strategy:** The student evaluates occupations in terms of the rewards they offer and the risks of trying to enter them.

A version of this product is available for the VAX computer.

Price: \$2,400

Contact: Ray Potter, SIGI Program Manager
(609) 734-5165

EDUCATIONAL TESTING SERVICE
Princeton, NJ 08541

SofTech® for UCSD Pascal® on the p-System™

Operating System

Operating System: p-System

Keywords: • Computer-aided instruction • Documentation

SofTech is a computer-aided instruction package for the UCSD Pascal programming language. SofTech progresses step by step through a set of quizzes; one quiz tests your knowledge of UCSD Pascal, and the other quiz requires you to write a Pascal program. A documentation package is included. SofTech requires a UCSD Pascal Compiler.

Price: \$75

Contact: Paula Johnson
(619) 451-1230

SOFTECH MICROSYSTEMS, INC.
16885 W. Bernardo Drive
San Diego, CA 92127

Student Record Information System/Master File

Operating System: CTS-300, RSTS, RT-11

Keywords: • Data collection • Information management
• Report writer

The Student Information System maintains the personal history, attendance record, and previous grading information for each student. This system is the data base for both the QEI Attendance and the Grade Reporting systems. The Scheduling System may be linked to the Student Information System if the school department chooses to do so. Each school may specify the information it wishes to maintain on the students. The Record Information System also includes mailing labels, an age-in-grade report, and maintenance programs for ease in updating, adding, and deleting student records. Various reports may be obtained; in addition to listings by school and by year of graduation, school personnel may obtain listings by street or by bus number.

Student records may include the following items: student number containing the year of graduation, student name and address, home and emergency phone numbers, bus number, date and place of birth, sex, entry date and entry code, withdrawal date and withdrawal code, previous credits, rank in class, grade point average, 766 information, parent name and address, and attendance data year-to-date totals. The items above may change from school to school.

Price: Available upon request

Contact: C. R. Burgess
(617) 275-6800
QEI, INC.
119 The Great Road
Bedford, MA 01730

Student Terminal Management System

Operating System: RSTS

Keywords: • Property management • Scheduling

Memory required: 17KW.

This system automatically handles scheduling of student terminals on a first-come, first served (one-hour-on, one-hour-off) basis. Provisions are made to send messages to all student terminals and to ascertain who is on them and what they are running. Terminal usage can be formatted for printout to teachers, or usage percentage can be plotted on a VT100 with hard-copy backup to use for justification of resource changes. The available terminal list can be dynamically changed at any time. DECUS number 11-654.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Tutor

Operating System: RSTS

Keywords: • Computer-aided instruction

Memory required: 8K.

Tutor teaches the use of the computer but can be adapted for other teaching purposes as well. Provisions are made for review work and for progressively difficult tasks. DECUS number 11-205.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

TUTR: BASIC Tutoring Programs

Operating System: RSTS

Keywords: • Computer-aided instruction • Programming tools

Memory required: About 6K.

This package of programs tutors the user in the elements of the BASIC language and RSTS-11 commands. To use the self-documenting programs, the user loads all programs from the DECTape onto the system disk and runs TUTR01. From that point on, the programs will tell the user what to do and which programs to run next. DECUS number 11-25.

Note: Programs are self-documenting. TUTR01 through TUTR17 are included.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

UNIX* System Tutorials

Operating System: None required

Keywords: • Compilers • Computer-aided instruction
• Development tools • Operating systems

The UNIX* System Tutorials, developed by User Training Corporation, are a new method of learning the UNIX* system. The series of courses make available at low cost to the user a one-on-one style of instruction. The innovative audiodigital process, using standard audio cassettes, permits live recordings of on-line instructional sessions to be played back to your CRT terminal. The tutorials are an effective way to introduce the UNIX* system to your in-house development or clerical personnel. The UNIX* System Tutorials include courses for both technical and nontechnical personnel, spanning the important topics within the UNIX* system, as well as courses on C programming and the Multiplan® Electronic Worksheet.

*UNIX is a trademark of AT&T Bell Laboratories. Multiplan® is a registered trademark of Microsoft, Inc.

A version of this product is available for the VAX computer.

Price: \$200 (rental) – \$476 (rental)

Contact: Marketing Department
(408) 425-7222

THE SANTA CRUZ OPERATION, INC.
500 Chestnut Street
Santa Cruz, CA 95060

Wabash College Student Information System

Operating System: RSTS

Keywords: • Mailing lists • Security • Statistics

Memory required: 28K.

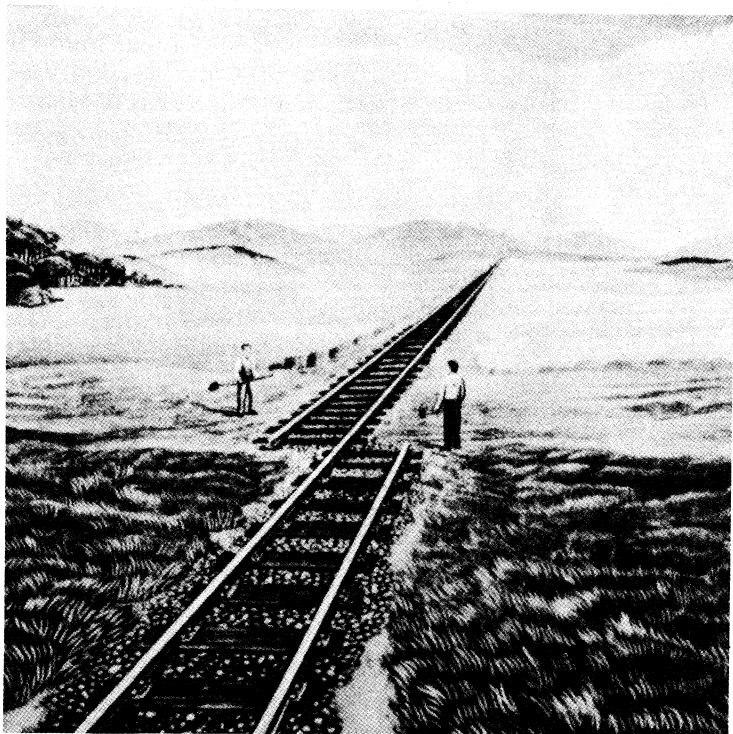
Wabash College has implemented its nonfinancial data processing on its RSTS system in BASIC-PLUS. The system handles student registration, grade reporting, alumni and applicant record keeping and reporting, and many types of mailings. Most file updating is done directly by the secretarial staff of the responsible office via a remote terminal. Thus, each office served can maintain protection for those files and reduce staff requirements at the Computer Center. DECUS number 11-43.

Note: Write-up is also contained in the manual.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

Engineering



© Fgl Gimware Corp.

217 Predict — Equipment Reliability Predictions

Operating System: RSTS

Keywords: • Electronic • Government • Manufacturing
• Quality control

The 217 Predict system provides the derivation of “predicted” equipment failure rate and mean time between failures, plus system reliability, if applicable, in accordance with the requirements of MIL-STD-756B and based on the part-failure rate derivation techniques of MIL-STD-217. The 217 Predict concept is based on the use of stored “global” (or default) part-failure rate data. The stored part data is used, unless otherwise defined globally or at the part level by the user. This technique provides documentation of the part failure rate parameters used and minimizes part-level entries. The software is also based on the concept of creating an input data file independent of the 217 Predict software, using the 217 Predict sequential data entry definitions and string position or fixed-column position data entry techniques.

A version of this product is available for the VAX computer.

Price: \$6,000/yr

Contact: Richard H. Butler
(408) 734-4910

SYSCON CORP.
540 Weddell Drive, Suite 1
Sunnyvale, CA 94089

ABEAM

Operating System: RSX, UNIX

Keywords: • Civil engineering • Mechanical engineering

The three modules that ABEAM provides are:

- ASCII data of section properties from the AISC manual of steel construction, both the seventh and eighth editions. The following shapes are included: W, M, S, HP, C, MC; structural tees from W, M, and S shapes; structural L-shapes, single and double; structural tubing, square and rectangular; and structural pipe. For each section, the properties available include area, moments of inertia, radii of gyration, and section moduli.
- A set of FORTRAN subroutines to return the properties in response to the input of a code for the section.
- A FORTRAN program to print out the desired data in response to typing in the name of the beam section — for example, “W14x68.”

A version of this product is available for the VAX computer.

Price: \$295 – \$535

Contact: Michael L. Bussler
(412) 661-2100

ALGOR INTERACTIVE SYSTEMS, INC.
Essex House, Suite L1, Essex Square
Pittsburgh, PA 15206

AC Circuit Analysis Program

Operating System: RSTS, RSX, RT-11

Keywords: • Electrical

Memory required: 8K.

Given specific data concerning circuit elements, this BASIC program analyzes the AC frequency response of a linear network. Data may include resistors, inductors, capacitors, independent and dependent voltage, and current sources. DECUS number 11-12.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

ADAPT

Operating System: RSX

Keywords: • CAD/CAM • Manufacturing
• Mechanical engineering

ADAPT, a part program system for numerical control, is designed for full 2-axis contouring on flat or tilted surfaces and for 3-axis position.

This product is also available for \$775 – \$1,680/mo.

A version of this product is available for the VAX computer.

Price: \$16,000 – \$35,000

Contact: Richard Russell
(513) 576-2400

GENERAL ELECTRIC CAE INTERNATIONAL INC.
300 TechneCenter Drive
Milford, OH 45150

AUTO-CHEM

Operating System: RSX

Keywords: • Chemical • Data collection • Instrumentation
• Process control

AUTO-CHEM gives complete architectural design services of industrial instrumented analysis laboratories for speed, accuracy, and longevity of instrumentation. AUTO-CHEM provides computerization of multiinstrumented analysis laboratories.

A version of this product is available for the VAX computer.

Price: \$15,000 – \$30,000

Contact: David L. Schroeger
(412) 776-3130

PROCESS CORP.
163 Thorn Hill Road
Warrendale, PA 15086

BANDER (Bandwidth Reducer for Stress)

Operating System: RSX

Keywords: • Mechanical engineering

BANDER reads a STRESS-II input file and computes the bandwidth first and then reorders the joints so as to minimize the bandwidth of the structure. The program produces an output file for STRESS-II. That program will not affect the joint numbers or member numbers previously assigned on the model. BANDER modifies and rearranges the node numbers internally only.

A version of this product is available for the VAX computer.

Price: \$250

Contact: Manny Velivasakis
(212) 889-3130

LEV ZETLIN ASSOCIATES, INC.
95 Madison Avenue
New York, NY 10016

BDARE (Dynamic-System Simulation in BASIC)

Operating System: CTS-300, IAS, RSTS, RSX, RT-11,
UCSD p-System

Keywords: • Chemical • Education • Research • Simulation

BDARE is a software package that supports VT-11 and VS-60 graphics, permits multirun simulation studies (for example, parameter optimization), and is well suited for interactive experimentation, since there are no delays for compilation and loading. BDARE offers either Runge-Kutta-Heun or Runge-Kutta-Merson (variable-step) integration.

UCSD p-System™ is a trademark of University of California Regents.

A version of this product is available for the VAX computer.

Price: \$110

Contact: G. A. Korn
(602) 298-7054

G. A. AND T. M. KORN, INDUSTRIAL CONSULTANTS
6801 E. Opatas Street
Tucson, AZ 85715

CAPE-PACK (Computer-Assisted Packaging Evaluation)

Operating System: RSTS, RSX

Keywords: • Manufacturing • Materials handling
• Structural engineering

PALLET/STRENGTH provides an effective means of selecting efficient pallet patterns and shipping case board-grade combinations that meet pallet-handling and stacking-strength requirements. PALLET/STRENGTH allows you to increase pallet load utilization, reduce shipping and distribution costs, analyze strength of load, select board-grade and flute type, and plot to scale pallet pattern diagrams. Stacking strength is computed using IPC (Institute of Paper Chemistry) equations and is adjusted on the basis of magnitude of pallet overhand, pallet patterns, and relative humidity.

ARRANGE2 provides a fast, effective means of selecting internal packing counts and arrangements in a case while meeting palletizing objectives. Often an alternative count or arrangement results in a reduction in material costs and increases pallet load utilization without changing the package size. ARRANGE2 allows you to select case arrangements, evaluate case counts, plot arrangement displays, increase pallet load utilization, and reduce material and distribution costs. Solution reports are produced on the basis of pallet load utilization and/or material cost.

DESIGN2 provides an effective means of designing packages (cartons, bottles, shippers, and so on) that meet marketing, packaging, material handling, and distribution costs. English and metric versions are available. On command, DESIGN2 can produce package size, internal packing arrangement, and pallet pattern loads that are clampable with fork truck squeeze attachment. Cost contours are produced for a variety of package sizes.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: William J. Rehring
(214) 680-1000
COMPUCON, INC.
P.O. Box 401229
Dallas, TX 75240

CAPE-SPECS (Computerized Packaging Specification System)

Operating System: RSTS, RSX

Keywords: • Data base management • Documentation

SPECS is a comprehensive packaging management system for creating, modifying, storing, and retrieving packaging specifications. Customized reports and specification sheet format are available. Generic packaging information is stored and automatically included on specifications.

SPECS is an interactive system, allowing the user to select alternative strengths, styles, and designs from a stored menu. Extensive error checking and cross-referencing search for and retrieval of cross-referenced data from all package components are possible. On-line multiplant/department communication is featured. An optional graphics package is available for storing engineering drawings for each package specification. The system can store all historical, current, and pending specifications. Many optional programs are available to supplement the engineering and manufacturing office environment.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: William J. Rehring

(214) 680-1000

COMPUCON, INC.

P.O. Box 401229

Dallas, TX 75240

CCSI-PLOT®

Operating System: CTS-300, IAS, RSTS, RSX, RT-11,
UCSD p-System, ULTRIX, UNIX

Keywords: • CAD/CAM • Graphics

CCSI-PLOT is a software package that allows the convenient use of a dot matrix printer/plotter as though it were a multipen, incremental X-Y plotter. Using CCSI-PLOT, a programmer can easily convert computed data into graphic form, taking full advantage of the available printer/plotter dot resolution. CCSI-PLOT also performs many extended functions that are impossible on standard pen plotters, including erasing previously drawn lines and shaded areas. The CCSI-PLOT subroutines can be used as the building blocks for constructing user programs to produce a variety of graphic output, such as bar charts, organization charts, engineering drawings, contour plots, 3-dimensional plots, and perspective drawings.

The CCSI-PLOT package supplies graphics for Printronix P-Series, MVP, and 4160 printers; Trilog T-Series, Tip Series, and C-Series Colorplot printers; Anadex printers; Epson MX Series printers; Okidata printers; Advanced Color Technology ACT-1 printers; Quantex printers; Integral Data Systems, Inc., Prism, and Color Prism printers; CIE Terminals, Inc., CI300/CI600 printers; QMS Lasergrafix 1200 printers; and Ramtek 4100 printers.

UCSD p-System™ is a trademark of University of California Regents.

A version of this product is available for the VAX computer.

Price: \$1,500 – \$1,950

Contact: Catherine Martin
(213) 595-8607

CERRITOS COMPUTER SERVICES, INC.
4320 Atlantic Avenue, Suite 1
Long Beach, CA 90807

Circuits

Operating System: RSX, RT-11

Keywords: • Electronic • Signal processing

Memory required: 64K bytes.

Circuits is a program package with three circuit analysis programs: DCIRC for DC analysis, ACIRC for sinusoidal AC analysis, and TCIRC for arbitrary waveform AC analysis. The program is intended for the electronic engineer or technician with a PDP-11 or LSI-11 computer. The program capacity is 40 nodes for DCIRC and 25 nodes for ACIRC and TCIRC.

The program package is available for an RSX or an RT-11 operating system and is supplied on 8" floppy.

Price: \$150

Contact: Bill Jones
(805) 644-8502

FB CIRCUIT PRODUCTS INC.
4984 Teton Lane
Ventura, CA 93003

Civil Library

Operating System: RSTS, RSX, UNIX

Keywords: • CAD/CAM • Civil engineering • Graphics
• Mapping

Civil Library is a package of interactive programs for the civil engineer, land surveyor, or structural engineer. The package includes a powerful set of graphics programs interfaced to several popular plotters.

The library's main strengths are surveying, mapping, and subdivision design and drafting. Programs were developed and are supported by registered engineers, and prime importance has been placed on simplicity of operation and extensive documentation. Operating manuals use an "example and sketch" instructional technique, ensuring that the engineer or designer will become fully productive in a short time.

Some of the applications are:

- Traverse geometry (unknowns anywhere, rotation and translation, shape duplicator, fixed-area solutions, map checking, radial and off-set stakeouts, and field traverse reduction and adjustment)
- Subdivision plotting (full annotation, automatic windowing, automatic parallel-line generation for sidewalks and gutters on improvement and grading plans, and plot preview on graphics display terminals)
- Topo reductions (five types, topo traversing, and topo plotting)
- Vertical and horizontal stakeout (construction staking with stationing)
- Earthwork (site or highway, automatic terrain interpolation and balancing, error control, and section plotting)
- Geographical positions (state plane to geographical and vice versa)
- Hydraulics (network analysis and backwater curves)
- Structural (indeterminate frame, truss, and continuous beams)

Approximately 100 engineering users currently dial into CONCAP's computer center or use the library on their own in-house minicomputer/plotter system. The library is also very popular with city and county public works departments.

A version of this product is available for the VAX computer.

Price: \$10,000 – \$30,000

Contact: Ron Sawyer
(415) 635-5750

CONCAP COMPUTING SYSTEMS
Civil Engineering Group
Sixty 98th Avenue
Oakland, CA 94603

CLM COGO™ (Coordinate Geometry and Graphics)

Operating System: UCSD p-System

Keywords: • CAD/CAM • Civil engineering • Graphics
• Mapping

CLM COGO is a software package for civil engineering, geometrics, surveying, mapping, estimating, design, and inventory. The system features a powerful user-oriented interactive command language, multiple geographic data bases of classified geometric objects and spatial data in double-precision coordinate fields, an interactive digitizer input option, and complete display graphics, plot preview, and plotter drafting. Full-screen editing and word processing of text data are provided. The system may be applied to highway design, subdivision and utility mappings, construction cost estimating, land use planning, site engineering, and other problems involving geometric and spatial data.

UCSD p-System™ is a trademark of University of California Regents.

A version of this product is available for the VAX computer.

Price: \$5,000

Contact: Frank Eby, Vice President
(813) 831-7090
CLM/SYSTEMS, INC.
3654 Gandy Boulevard
Tampa, FL 33611

COBEAM (Composite Beam/Girder Design)

Operating System: RSX

Keywords: • Architecture • Civil engineering
• Mechanical engineering

This program is used to design or analyze single, simply supported composite beams or girders. COBEAM is easy to use and does not require any computer experience. Communication between the engineer and the computer is interactive, with all questions displayed in English on the CRT.

The program has default values for every item of required input information, thus facilitating and reducing the amount of input data. Since the default values are displayed on the CRT, the user need only specify data that differs from that assumed by the program.

Composite beams may be specified as interior or exterior, shored or unshored, and with or without a metal deck. If a metal deck is used, it may be placed perpendicular or parallel to the beam or girder. Shear connectors may be studs or channels. Concrete of any weight may be specified. The long-term effect on deflections may be taken into account by specifying an appropriate creep factor. Full or partial composite action may be specified. Restrictions may be placed on the construction dead load deflection and the nominal size of the W shape to be selected by the program. Loads may consist of construction dead load, superimposed dead load, and reduced live load. Each of those may consist of a uniform load, up to five concentrated and up to three partial or full trapezoidal loads. The user need not specify the weight of the steel beam, because it is automatically considered by the program.

The output is printed using an 8½" × 11" format suitable for insertion in an engineer's calculation book. When the design option is used, the output consists of the least-weight W section that meets the required design criteria and imposed restrictions. A summary of the input data, maximum bending moments and stresses, number and distribution of shear connectors, and deflections for the different load cases is also included. When the analysis option is selected, the engineer specifies the W section. If a bottom cover plate is also specified, the program also computes the length of the cover plate, the location of its cutoffs from both ends of the beam, the size and length of end welds, and the size, length, and spacing of the intermediate welds.

A version of this product is available for the VAX computer.

Price: \$1,500

Contact: Manny Velivasakis
(212) 889-3130

LEV ZETLIN ASSOCIATES, INC.

95 Madison Avenue
New York, NY 10016

COGO (Coordinate Geometry)

Operating System: RSTS, RSX

Keywords: • Civil engineering • Mapping • Mathematics

COGO is designed to solve problems in plane coordinate geometry. Complex problems may be solved by starting from known points and progressing through a series of simple COGO commands. COGO commands input and determine points, lines, areas, tangents, and circular and spiral horizontal curves. The required series of COGO commands are similar in practice to the user's step-by-step solution to the problem if solved by hand.

Major applications for COGO include land surveying, highway design, right-of-way surveys, bridge geometry, and subdivision work. Traverse adjustment commands have been added to the latest version. Plotting capability is also available.

COGO may be run in either interactive or batch mode. COGO offers a user much flexibility in the input format. Input consists of commands and comments. A comment can be on a COGO input record, by itself, or after the last datum of any COGO command. A COGO command is made up of a command name and perhaps some data. Each command may be abbreviated in almost any way. Distances, angles, azimuths, and bearings may be typed in as the sum or difference of several terms. Since the input is in free format, the command names or their abbreviations and the data do not need to be in certain columns of an input record.

Error messages are printed near the left margin of terminal output for speed of printing but end in column 72 of line printer output for ease of reading.

In practical problems, a user is not dealing simply with points but rather with groups of points that define property boundaries, streets, right of ways, traverses, and so on. COGO-11 allows the user to define and to refer to lists, or figures, of related points. Up to 9,999 figures can be defined and referred to by number to compute intersections, parallel figures, areas, and so on. The ability to operate on a group of points by specifying a figure number greatly reduces the amount of effort required to do a job.

The coordinates and figures are stored by the computer in an area called a COGO table. The computer saves this table so that the user can refer to the points and figures in future runs. Each table has a variable length up to 9,999 points. A maximum of 99 tables can be saved. People working on several jobs can use separate COGO tables for the different jobs. Vertical alignment is not available.

A version of this product is available for the VAX computer.

Price: \$3,500

Contact: Robert E. Branch
(804) 622-1775

TECHNICAL INFORMATION SYSTEMS, INC.
116 West Plume Street
Norfolk, VA 23510

Computer Guided Probe — Electronic Fault Isolation Package

Operating System: RSX, RT-11, ULTRIX, UNIX

Keywords: • CAD/CAM • Diagnostics • Electronic
• Instrumentation

SofTest Inc. has developed the core of a digital guided probe algorithm for use on automatic test equipment (ATE). The core has been designed for easy integration with existing ATE operating software through the careful modularization of ATE/probe interfaces and through implementation using a high-level programming language.

The guided probe is a tool for diagnosing the cause of failure of a unit under test (UUT). The guided probe works through interaction, asking the test system operator to place a probe or an IC clip on a given point on the UUT. The data from the probed points is analyzed by the guided probe software to determine if other points should be probed or if the source of the UUT's failure has been located. Once the failure has been located, the operator is informed as to its location both in hard and soft copy. The probe handles the difficult situations of wired nodes, large bus nodes, and complex feedback loops.

The guided probe requires two pieces of information from the board programmer besides the test program: the circuit interconnects and IC reference data. The circuit interconnect is a list of all UUT components and a list of all interconnections between those components. The IC reference data consists of the logic value (zero, one, or tristate) one expects to occur at every node for each step in the test program. Signature data may also be used.

The probe package contains software to allow the data bases for the circuit description and "learned" nodal data to be created easily. The circuit description is entered in an English-like language; nodal data is learned by a program that prompts the operator for all actions. However, if a digital logic simulator is available, it can generate those data bases, and the probe can be interfaced to them.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Shelley Schneider
(201) 447-3901

SOFTEST
555 Goffle Road
Ridgewood, NJ 07450

CSM/O/P (Continuous System Modeling and Optimizing Program)

Operating System: RSX

Keywords: • CAD/CAM • Electronic • Simulation

CSM/O/P is designed for on-line interactive, transient/AC simulation of continuous systems and processes. The program uses a simple yet versatile application-oriented input language to simulate and evaluate those systems expressed by either an analog block diagram or a set of ordinary differential equations.

Program features include conversational, discipline-oriented input language; several optional integration methods; expanded-element block and function capabilities; graphic output and selective output control; unique AC analysis, frequency, and phase response plots; on-line file-handling and editing capabilities; response optimization of linearized systems by parameter iteration under program control; and printout of the "A" matrix and eigenvalues.

The user describes a problem by entering block parameter and inter-connection data. Thirty-five block types are available. Realistic system simulations can be obtained by including blocks that simulate noise, backlash, flip-flop, and so forth. Up to six transient response plots can be stored on disk files and retrieved for later use.

Frequency response optimization of a linearized system can be achieved. CSM/O/P allows the user to change the values of the system parameters under program control in order to realize a response closer to the response desired. Optimization is accomplished by varying only the user-selected parameters to maximize a merit function.

A spiral least-squares algorithm minimizes the difference between the desired frequency response and the system's response over a specified frequency interval.

Note: Floating-point hardware and FORTRAN 77 are required to run this program.

A version of this product is available for the VAX computer.

Price: \$6,000 – \$15,000 +
Contact: Sergio Bernstein, President
 (505) 266-9622
 BERNE ELECTRONICS, INC.
 120 Dartmouth, S.E.
 Albuquerque, NM 87106

Curve Fitting

Operating System: UNIX
Keywords: • Mathematics • Scientific

The following two programs are included:

- CURFIT fits a given data set to six functions and shows which function best fits the data. The six functions are $Y = A + (B^*X)$, $Y = A*EXP(B^*X)$, $Y = A*(X**B)$, $Y = B/X$, $Y = 1/ (A + B^*X)$, and $Y = X/(A + B^*X)$.
- POLFIT fits data to a polynomial of order 2 through N .

Price: \$250
Contact: Michael L. Bussler
 (412) 661-2100
 ALGOR INTERACTIVE SYSTEMS, INC.
 Essex House, Suite L1, Essex Square
 Pittsburgh, PA 15206

DACS (Data Acquisition and Conversion System)™

Operating System: RSX
Keywords: • A/D, D/A • Data collection • Data conversion
 • Disk utilities

DACS is a library of FORTRAN-callable subroutines for digital-to-analog and analog-to-digital conversion of data, data compression/expansion, and efficient disk file input/output. DACS interfaces the DIGITAL LPA-11K Laboratory Peripheral Accelerator hardware and software operating on VAX-11/780 or PDP-11 computers to a user-oriented FORTRAN environment.

DACS allows for multichannel input and output to/from disk in dedicated mode while under FORTRAN control. In addition, nonlinear scaling is optionally available for compressing 12-bit A/D samples to 8-bit byte representations in real time. Those samples are efficiently stored on the disk, then expanded back to linear 12-bit samples at the D/A output. Both A-law and micro 255-law compression tables are provided with DACS. DACS incorporates fast and efficient input/output MACRO routines for data transfer to/from disk.

The maximum aggregate sampling rate available to the user is determined by the LPA-11K hardware specifications, disk drive transfer rates, priority level, and system loading. Typical maximum aggregate sampling rates to/from disk are near 50 kHz, and rates to/from memory buffers are near 150 kHz.

DACS functions as a stand-alone software library or as a software interface to Signal Technology's Interactive Laboratory System (ILS), an organized software package for high-level user-oriented digital signal processing.

DIGITAL distributes this software product under license from Signal Technology, Inc., 5951 Encina Rd., Goleta, CA 93117.

Refer to SPD #A0.21.03 when requesting further information on this product from your local DIGITAL sales office.

DACS (Data Acquisition and Conversion System)[™] is a trademark of Signal Technology, Inc.

A version of this product is available for the VAX computer.

Price: \$4,000

Contact: Consult your local DIGITAL sales office
(see Introduction).

DAREP (Differential Analyzer Replacement — Portable), DARE/11

Operating System: None required, RSX, RT-11

Keywords: • Electrical • Mechanical engineering • Scientific
• Simulation

DAREP is a FORTRAN-based simulation language for dynamical system simulation — for example, the solution of large groups of differential equations. Line printer and Tektronix plotting routines are available for solution display. Numerical integration routines are available — some with automatic step-size adjustment and error control. Programming is scale-factor free.

Mass storage of problem and solution files is included. Using a VDU, semiinteractive simulation with run-time alteration of parameters is possible.

DARE/11 runs interactively on DIGITAL PDP-11s with VT-11 graphics. Furnished on RK05 disk, DARE/11 is an RT-11 V2C implementation.

For more information, see *Digital Continuous System Simulation*, G. A. Korn and J. V. Wait, Prentice-Hall.

A version of this product is available for the VAX computer.

Price: \$1,500 – \$3,800

Contact: John V. Wait, Professor
(602) 621-2434

UNIVERSITY OF ARIZONA
Dept. of Electrical and Computer Engineering
Tucson, AZ 85721

DESIRE (Direct-Executing Simulation in Real Time)

Operating System: RT-11

Keywords: • Aeronautics/aerospace • Chemical • Simulation

DESIRE is a new floating-point equation-language system for interactive dynamic-system simulation. EARLY DESIRE runs up to five times faster than threaded FORTRAN and executes immediately on a RUN command without any external compiler or linker. An experimenter thus obtains results of model changes at once, an unprecedented convenience in interactive simulation.

An interpreted job-control language serves for interactive program entry, editing, file manipulation, and programming multirun simulation studies. The “dynamic” program segment containing differential equations in first-order form is entered just like the job-control statements and accesses the same named variables. An efficient, extra-fast minicompile translates the “dynamic” segment practically instantaneously. Different precompiled integration routines can be overlaid from mass storage while the program runs.

EARLY DESIRE runs on any 28K-word PDP-11 or LSI-11 processor with FIS or FPU instructions under RT-11 and is configured for up to 40 state variables. EARLY DESIRE provides a true CRT screen editor with cursor-control and number-pad keys and produces run-time graphics even on VT-52-type alphanumeric terminals, as well as on VT-11-type displays.

Price: \$1,600 – \$2,400

Contact: G. A. Korn
(602) 298-7054

G. A. AND T. M. KORN, INDUSTRIAL CONSULTANTS
6801 E. Opatas Street
Tucson, AZ 85715

DOGS (Design-Oriented Graphics System)

Operating System: RSTS, RSX

Keywords: • CAD/CAM • Graphics • Mechanical engineering

DOGS is a comprehensive 2-dimensional, computer-aided drafting and design package that can produce high-quality technical drawings for a wide range of disciplines. DOGS offers the greatest possible financial savings and improved drawing quality. DOGS has been designed to emulate as closely as possible the procedures and techniques familiar

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to engineering drafters and designers. DOGS can automatically copy, rotate, scale, and move partial drawings from one location to another and can store and recall any number of user-defined symbols.

A version of this product is available for the VAX computer.

Price: \$15,000 – \$30,000

Contact: Jeff Thompson
(615) 584-2117

PAFEC ENGINEERING CONSULTANTS, INC.
5401 Kingston Pike, Suite 610
Knoxville, TN 37919

DSS/2 (Differential Systems Simulator, Version 2, Release 3)

Operating System: None required

Keywords: • Mathematics • Scientific • Simulation

DSS/2 is a library of transportable FORTRAN IV subroutines for the numerical integration of systems of initial-value ordinary and partial differential equations (ODE/PDEs) with broad application in the computer analysis of large-scale systems in science and engineering.

Seven manuals are available for Release 3:

- *Introductory Programming Manual* (for ODEs)
- *An Introduction to the Numerical Method of Lines Integration of Partial Differential Equations*
- *Numerical Method of Lines Integration of Partial Differential Equations in Cylindrical and Spherical Coordinates*
- *Numerical Method of Lines Integration of Partial Differential Equations in Two Dimensions*
- *Numerical Method of Lines Integration of First-Order Hyperbolic (convective) Partial Differential Equations*
- *Variable-Grid Spatial Differentiators in the Numerical Method of Lines*
- *Numerical Method of Lines Integration of Partial Differential Equations in Three Dimensions*

The cost of the seven DSS/2 manuals is \$30.00.

The DSS/2 FORTRAN IV source code is available and includes (1) a 9-track tape with the DSS/2 source code and all the problems in the seven manuals, (2) a printed tape listing identifying all files and sections of the tape, (3) the output from 10 test problems for checking the operation of the code on the purchaser's local computer, and (4) a set of the seven manuals. Those four items are mailed by U.S. Priority Mail in the United States and Canada and by international air mail to all other countries.

A version of this product is available for the VAX computer.

Price: \$250 – \$1,000

Contact: Dr. W. E. Schiesser, R. L. McCann Professor
(215) 861-4264

LEHIGH UNIVERSITY

Whitaker Laboratory No. 5

Bethlehem, PA 18015

DUCT (Design Using Computer Techniques)

Operating System: RSX

Keywords: • Automotive • CAD/CAM
• Mechanical engineering • Simulation

DUCT, a powerful tool in the field of computer-aided engineering, enables a designer to develop a complete surface definition of an object, which can then be used for analysis or to provide manufacturing information. DUCT was developed primarily as a design system and is best used by the designer to turn a design concept into a full surface model. Used in that manner, the designer can control and retain details of any modifications.

DUCT is being applied successfully to the design of engineering castings and moldings and is used to program numerically controlled machine tools for the manufacture of prototypes, patterns, molds, and dies. Applications include the design and manufacture of tooling for combustion engine manifold cores, pump volutes, turbine blades, plastic and glass bottle molds, and plumbing brass foundry, including taps, valves, and other pipe fittings.

The DUCT system of representation is based on a planar cross-sections positioned in true cartesian space by means of a 3-dimensional curve known as a spine. A graphics terminal can be used to define and modify the model interactively. DUCT has facilities for calculating cross-sectional and surface areas and component volume, thus enabling the user to determine the amount of material contained within a casting or molding.

DUCT can also be used to optimize a design to conform to a volume constraint or, in the case of a turbine scroll, for example, to ensure a uniform decrease in cross-sectional area along the length of the passageway. Another important design feature is the facility for finding complex die-split lines to give satisfactory draft angles. DUCT also has an automatic blending facility to join two interesting surfaces smoothly. The DUCT surface model can be used to generate a finite element analysis mesh via an interactive mesh generation.

DUCT also provides visualization facilities, including first and third angle, isometric, conic projections, and stereo pairs. Finally, when a satisfactory design is achieved, an NC machine tool path can be generated to machine the DUCT surface pattern or mold. The many facilities

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of DUCT offer economic and technical advantages, making it an invaluable aid in designing, visualizing, and manufacturing 3-dimensional components.

A version of this product is available for the VAX computer.

Price: £17,000 – £30,000

Contact: E. B. Lambourne
(021) 327-3401

DELTA COMPUTER AIDED ENGINEERING LTD.
Argyle Street
Birmingham B75TH
United Kingdom

DWC Land Parcel Data Base System

Operating System: RSTS

Keywords: • Data base management • Data entry • Mapping
• Real estate

Originally designed for a governmental/engineering mapping project, this sophisticated system includes tape-loading programs, data entry functions, on-line changes and inquiries, a flexible report generator, and a property index card program. The data base can be accessed by account number or map number, owner's name, and owner's tax ID number. Pertinent data includes township number, area and quarter sections, parcel number, multiple deed and plat book entries, lot dimensions, acreage, and various district numbers and codes (tax, city codes, addition codes, and so on). Lot and block numbers, subdivision name, township, section and range, parcel address, owner name and address, and a variable-length field for a complete land description are also included. Both split and consolidated properties can be tracked.

A version of this product is available for the VAX computer.

Price: \$5,000 – \$10,000

Contact: Barbara Dotson or Cheryl Hammelman
(606) 253-3183

DWC COMPUTER SOLUTIONS, INC.
1642 N. Broadway
Lexington, KY 40505

ECAP

Operating System: RT-11

Keywords: • Electrical

Memory required: 16K minimum.

ECAP is a useful tool for analyzing and designing inductor, capacitor, and resistor networks of 25 or fewer branches and 10 or fewer nodes.

The basic electrical element is the branch, which must include, at most, one passive element, which may be a resistor, a capacitor, or an inductor. This branch may also include a current source, a voltage source, or a transistor (a voltage-controlled current source).

As all the operator inputs are position-free, the program is still very useful to the electrical engineer who is a novice at computer programming. DECUS number 11-126.

Restrictions: OTS complex divider \$DVC error.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

ELAN-AC

Operating System: RSX

Keywords: • CAD/CAM • Electrical • Simulation

ELAN-AC, an interactive AC analysis program for circuit designers who need a comprehensive analysis tool, can analyze large circuits and provide information about circuit performance, including gain, phase shift, input and output impedances, y-parameters, and group delay. Sensitivity analysis can pinpoint components that most affect circuit performance. Monte Carlo simulation of production spreads (with any kind of distribution) allows economical prediction of production yields.

Built-in models are included for resistors, capacitors, inductors, mutual couplings, independent and dependent generators, transistors, FETs, and operational amplifiers. If more complex models are desired, user-defined FORTRAN equations can be added.

Efficient algorithms allow ELAN-AC Monte Carlo simulation to be performed economically. For example, simulating gain, phase shift, and input/output impedances of a 25-node, 50-branch circuit at 10 frequencies takes less than two CPU seconds.

ELAN-AC features include:

- 100-node, 300-branch capability.
- Built-in models for R, C, L, M, transistors, FETs, OP-amps.
- Automatic linearization of operating point parameters from previous ELAN-TR or ELAN-REL program analysis. (Data from operating points is automatically obtained from previous analyses and inserted as data to ELAN-AC.)
- User-defined FORTRAN equation capability for complex modeling and other special calculations.
- Sensitivity, worst-case, and Monte Carlo analyses and simulations, with histogram plots.
- Coupled tolerances and distributions between elements for realistic simulations of element variations.
- Availability of a semiconductor data library (ELAN-LIB) and an interactive program for calculating diode and transistor parameters (ELAN-MOD).

Note: Requirements to run this program are floating-point hardware and FORTRAN 77.

A version of this product is available for the VAX computer.

Price: \$6,000 – \$15,000 +

Contact: Sergio Bernstein, President
(505) 266-9622

BERNE ELECTRONICS, INC.
120 Dartmouth, S.E.
Albuquerque, NM 87106

ELAN-MOD (Transistor and Diode Modeling Program)

Operating System: RSX

Keywords: • Electrical • Simulation

ELAN-MOD is an interactive program that calculates diode and transistor parameters for use in the ELAN programs. The user enters certain data from measurements and/or from manufacturer's data sheets. Default values are used by ELAN-MOD when the user does not have appropriate parameter data. ELAN-MOD then calculates the parameters required for ELAN. The user can check, modify, and recalculate parameters until suitable model data is obtained.

Note: Requirements to run this program are floating-point hardware and FORTRAN 77.

A version of this product is available for the VAX computer.

Price: \$6,000 – \$15,000 +

Contact: Sergio Bernstein, President
(505) 266-9622

BERNE ELECTRONICS, INC.
120 Dartmouth, S.E.
Albuquerque, NM 87106

ELAN-TR (Transient Radiation)

Operating System: RSX

Keywords: • Electrical • Graphics • Nuclear • Simulation

ELAN-TR, an easy-to-learn but powerful nonlinear analysis program, is designed for use by both the beginner and the experienced user.

ELAN-TR features include:

- Easy-to-use input language, which prompts the user
- Complete nuclear radiation effects analysis
- High-resolution graphic output presentations
- A large semiconductor data bank containing approximately 300 devices
- Linear transconductance models for Beta, Mu, Gm, Zm
- Automatic storage and retrieval of problem data from disk files

- User-defined FORTRAN equation capability for additional modeling flexibility
- Support for users by experienced engineers and computer specialists
- Interface for further circuit and reliability analysis using the ELAN-AC and ELAN-REL programs
- Availability of a semiconductor data library (ELAN-LIB) and an interactive program for calculating diode and transistor parameters (ELAN-MOD)
- Additional FORTRAN equations to increase the possible range of analyses

Note: Requirements to run this program are floating-point hardware and FORTRAN 77.

A version of this product is available for the VAX computer.

Price: \$6,000 – \$15,000 +

Contact: Sergio Bernstein, President
(505) 266-9622

BERNE ELECTRONICS, INC.
120 Dartmouth, S.E.
Albuquerque, NM 87106

ETS11-M

Operating System: RSX

Keywords: • Aeronautics/aerospace • Automotive
• Mechanical engineering • Petroleum

ETS11-M is a hardware/software system designed to control engine testing and to collect test information. The system includes the means of providing continuous operation to scan in input information from the engine; scan out control information directly to the engine or indirectly via hardwired controllers; process input data for subsequent use — for example, linearization, filtering, derived values; perform direct digital control and other conventional 3-term control algorithms; and monitor the input/output values against alarm limits.

Those facilities can be achieved either via an ETS11-M sequence list, in which the user describes the engine test steps, using ETS11-M FORTRAN subroutines, or through the operator display console, which provides a complete array of commands for controlling the test environment. The operator console can also display static or dynamic status information, as well as alarm and message information — all in user-defined format.

ETS11-M is designed to control one or more engine test stands, with the following configuration:

- Host system: For support of test sequence preparation and storage and storage of collected data for subsequent processing
- Subsystem: One per engine test bed, which will perform the functions of data collection, logging, DDC control, alarm monitoring, operator interaction, and test sequence execution

Price: \$25,000

Contact: Ullrich Pelda
089/9591-1142
DIGITAL EQUIPMENT GMBH
Freischutzstrasse 91
8000 Munchen 81
West Germany

EWSG (Electronic Warfare Scenario Generator)

Operating System: RSX

Keywords: • Electronic • Scientific • Signal processing
• Simulation

EWSG provides a unique capability to simulate complex electronic environments resulting from scenarios input by an operator, as seen at a receiver. The system includes a model of a receiver system whose characteristics can also be defined by the operator and permits performance analysis of that receiver in the specified environment.

EWSG applies mainly to the defense industry and is aimed at electronic warfare systems designers and integrators.

A version of this product is available for the VAX computer.

Price: £15,000

Contact: J. Palfreyman
0252 544321
SOFTWARE SCIENCES LTD.
Abbey House, 282/292 Farnborough Road
Farnborough, Hampshire GU14 7NB
England

EXP1234 (Exponential Model Fitter)

Operating System: CTS-300, RSX, RT-11, UNIX

Keywords: • Biology • Mathematics • Simulation
• Statistics

This interactive FORTRAN program sequentially provides weighted least-squares fits of time-series data to sums of one, two, three, and four exponential functions, with a tabular analysis of the quality of all fits, using several statistical criteria — residual tests, F-ratio tests, information criterion tests, and correlation matrices. Five options for entering measurement error variances are provided, with three choices for data weighting. The nonlinear regression algorithm is a second-order gradient search scheme. Program input and output are highly readable and user-friendly. Telephone demos are available.

A version of this product is available for the VAX computer.

Price: \$350 – \$750

Contact: Dr. Joseph J. DiStefano, Professor
(213) 825-7482 or 825-4033

UNIVERSITY OF CALIFORNIA, LOS ANGELES
School of Engineering and Applied Science
Biocybernetics Laboratory, 4731K Boelter Hall
Los Angeles, CA 90024

FLASH (Fault Logic and Simulation Hybrid)

Operating System: RSX

Keywords: • CAD/CAM • Simulation

FLASH is a fault logic simulation software package used to simulate digital circuits. The user prepares a network list and test input stimuli file. The simulator then exercises the digital circuit and displays various output data — nodal movement, fault coverage (S-A-1, S-A-0, open input faults, 1-shot faults, and adjacent pins or runs faults), fault dictionary diagnostics, good simulation truth table for design verification, and test vectors to run on digital testers.

FLASH can simulate circuits of various logic families, including TTL, CMOS, and ELC, and can handle device complexities from SSI to MSI to VLSI. The software package includes an approximately 450-device library that can be maintained by the user.

Price: \$35,000

Contact: Mike Masula
(602) 242-6300
THREE PHOENIX CO.
21639 N. 14th Avenue
Phoenix, AZ 85027

FLUENT (Fluid Flow Modeling System)

Operating System: ULTRIX, UNIX

Keywords: • Chemical • Petroleum • Process control
• Simulation

FLUENT, a general-purpose computer program for modeling fluid flow, allows the engineer/designer to quickly analyze complex flow problems, without requiring prior expertise in computational fluid dynamics or computer programming. The system incorporates the latest modeling techniques available for simulating a wide range of fluid-flow problems. FLUENT therefore enables the fluids engineer to apply state-of-the-art computer simulation methods to analyze and solve practical design problems, without costly time-consuming computer programming.

FLUENT is ideally suited for modeling the complex internal flows frequently encountered in industrial process equipment. The program can handle diverse 2- or 3-dimensional steady-state flow situations, including single-phase gas or liquid flows, turbulent or laminar flows,

isothermal or thermal mixing, fluids laden with dispersed phase of particles or liquid droplets (with or without evaporation and/or combustion), fluids with reacting chemical species, and combustion.

A version of this product is available for the VAX computer.

Price: \$15,000 – \$40,000

Contact: Bart Patel
(603) 643-3800
CREARE R&D INC.
P.O. Box 71
Hanover, NH 03755

FPS (Fundamental Plotting Subroutines)

Operating System: RSX, RT-11

Keywords: • CAD/CAM • Device drivers/handlers • Graphics

Zeta plotter software, Release 5.3, is intended for use with Zeta intelligent plotters and controllers. Available for most major mainframes, the subroutines are readily convertible to any standard FORTRAN. BASIC versions are also available.

This set of fundamental routines is designed to achieve full compatibility with the basic industry standards as well as to make full use of the features built into Zeta's intelligent controllers. The routines can be divided into two categories: industry-standard subroutines and Zeta's extended subroutines.

A version of this product is available for the VAX computer.

Price: \$250

Contact: Bill Manos, Product Manager
(415) 671-0600
NICOLET ZETA CORP.
2300 Stanwell Drive
Concord, CA 94520

Functional Subroutines

Operating System: RSX, RT-11

Keywords: • CAD/CAM • Device drivers/handlers • Graphics
• Presentation aids

The Functional Subroutines package for Zeta plotter software is a set of FORTRAN subroutines compatible with Zeta's Fundamental Plotting Subroutines. The Functional Subroutines provide the capability of plotting frequently used patterns, such as arrowheads, dimension lines, shaded polygons, and bars for business charts. Also included are routines for logarithmic scaling and axis notation.

A version of this product is available for the VAX computer.

Price: \$250

Contact: Bill Manos, Product Manager
(415) 671-0600

NICOLET ZETA CORP.
2300 Stanwell Drive
Concord, CA 94520

GEPURS™ (General Purpose Real-Time Software)

Operating System: RSX

Keywords: • Chemical • Computer-aided instruction
• Process control • Simulation

GEPURS, a simulation language for developing models of process and utility plants and their subsystems, is a block-structured software capable of simulating any industrial process dynamically and in real time. Models built with GEPURS software are used for checking out control strategies, for tuning loops, and for training operators, engineers, and other personnel in all levels of plant operations.

GEPURS offers configuration through a CRT console using a fill-in-the-blank format, dynamic reconfiguration using CRT displays, dynamic tuning (no compiling and no source programs to update), tabular displays and graphic plots that monitor simulated process variables for testing a model during integration, dynamic control over model execution time, selective activation and deactivation of any portion of the model, and ability to provide an emulated instrumentation interface or be hard-wired to any analog or digital instrumentation.

GEPURS software is used with PROGRES™ training simulators produced by C-E Lummus.

Price: Available upon request

Contact: J. Robinson
(201) 893-2910

COMBUSTION ENGINEERING SIMCON, INC.
400 Broadacres Drive
Bloomfield, NJ 07003

GIFTS (Graphics-Oriented Interactive Finite Element Time-Sharing System)

Operating System: RSX

Keywords: • Computer-aided instruction
• Data base management • Graphics
• Pre- and postprocessors

Developed with the support of the Office of Naval Research and the U.S. Coast Guard, GIFTS is a graphics-oriented collection of programs that operate on a standardized data base. The system is designed to fit in a relatively small core area and is specifically suited to time-sharing and minicomputer systems. GIFTS may be used as a stand-alone finite element package or as a pre- and postprocessor for other systems.

A version of this product is available for the VAX computer.

Price: \$2,500/yr – \$5,000/yr

Contact: Susan Lewis or Dr. Kamel
(602) 621-6129

UNIVERSITY OF ARIZONA
AME Department, Building 16, Room 204
Tucson, AZ 85721

GPSS (General Purpose Simulation System)

Operating System: IAS, RSTS, RSX, UNIX

Keywords: • Materials handling • Scheduling • Simulation
• Transportation

GPSS is a block diagram-oriented simulation language that facilitates development of simulation models of discrete systems, such as queuing systems or traffic flow systems. Used in industrial engineering, GPSS is preferred for the teaching of simulation. Application areas include manufacturing systems, computer communication networks, transportation networks, mining operations, and many others.

The products feature automated collection and display of statistics and interactive debugging facilities. User-written FORTRAN subroutines may be called from the model for special applications, including graphics displays or animated traces of system behavior.

Prices vary, depending on the computer system. Educational discounts are available. Full documentation is included. Several excellent textbooks describing GPSS and its applications are available from publishers.

A version of this product is available for the VAX computer.

Price: \$750 – \$6,000

Contact: David Martin
(519) 679-3575

SIMULATION SOFTWARE LTD.
760 Headley Drive
London, Ontario N6H 3V8
Canada

GROUSE Ground Modeling System

Operating System: ULTRIX, UNIX

Keywords: • Architecture • CAD/CAM • Civil engineering
• Construction

GROUSE generates ground surfaces from random spot height survey data and displays surfaces as contoured plans, sections, and perspective views. Input includes digitized site boundary and spot height data. Users can interact with displayed results to modify surfaces, and the program calculates consequent cut-and-fill requirements.

GROUSE includes a range of additional facilities to superimpose objects such as buildings or vegetation on a ground form and to obtain area values, density of objects within an area, linear distances, and slope conditions. GROUSE applications continue to be developed to meet particular user needs. The emphasis is on congenial user interaction.

The system is written in the C programming language to run in a UNIX* software environment. On-site expertise in operating with UNIX* or good access to such expertise is required.

The system requires any computer that runs full UNIX* V7, SIII BSD 4.1, or commercially available versions such as XENIX or UNITY. Current smallest configurations include DIGITAL's LSI-11/23 microprocessor with 22-bit addressing, with at least 256Kb memory and 10Mb hard disk, plus back-up media. Available hardware includes more powerful Motorola 68000-based microcomputers, such as the Plessey System 68, at similar cost.

Peripherals include a raster graphics terminal, such as the Westward GT1015 or GT2015; a graphics plotter, such as the Hewlett-Packard 7221 (A3) or 7580/5 (A1/0); a digitizer, such as the TD HR-48 or Summagraphics ID-36; and a dot matrix or daisywheel printer. Equipment can be obtained independently of software; consultancy services are offered on selection, purchase, and commissioning of equipment.

The data base management system supplied works efficiently on small computers; it can be used for other computing applications and allows the possibility of adding applications functions. Included are error trapping and recovery functions to protect users from accidental loss of files.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: £10,000

Contact: Aart Bijl

(031) 667 1011 ext. 4598

EDCAAD, DEPARTMENT OF ARCHITECTURE

University of Edinburgh

20 Chambers Street

Edinburgh EH1 1JZ

United Kingdom

HARDY

Operating System: RSTS

Keywords: • Civil engineering • Mathematics

The HARDY system performs flow analysis on pipe networks, using the HARDY-CROSS loop balancing method. Input consists of pipe diameter, length, roughness coefficient, assumed flow, and loop and head path data. Pumps and reservoirs can be analyzed. The program

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accepts a maximum of 300 pipes and 60 loops. A user-defined tolerance factor will limit the number of iterations the program performs. English or metric units are acceptable.

A version of this product is available for the VAX computer.

Price: \$150

Contact: Robert E. Branch
(804) 622-1755

TECHNICAL INFORMATION SYSTEMS, INC.
116 West Plume Street
Norfolk, VA 23510

HEC 1

Operating System: RSTS, RSX

Keywords: • Civil engineering • Mathematics

HEC 1 performs a variety of runoff hydrograph computations, including manipulations of station and basin rainfall and snow data, calibration of rainfall/snowmelt/runoff models, and river-routing models. HEC 1 also computes stream system flood hydrographs and economic evaluations of basin modifications and structural effects. Input and output may be in either English or metric units.

A version of this product is available for the VAX computer.

Price: \$700

Contact: Lyman E. Byrd, Director of Operations
(800) 368-4203

TECHNICAL INFORMATION SYSTEMS, INC.
116 W. Plume Street, P.O. Box 1900
Norfolk, VA 23501

HEC 2

Operating System: RSTS, RSX

Keywords: • Civil engineering • Mathematics

HEC 2 computes the backwater surface profile for channels of any cross section for either subcritical or supercritical flow conditions. The effects of bridges, culverts, and weirs may be considered in the computations. Capabilities are available for assessing the effects of channel improvements, levees, and floodways on the water surface profiles. Input may be in either English or metric units.

A version of this product is available for the VAX computer.

Price: \$950

Contact: Robert E. Branch, P.E.
(800) 368-4203

TECHNICAL INFORMATION SYSTEMS, INC.
116 W. Plume Street, P.O. Box 1900
Norfolk, VA 23501

I/CAP (Interactive Electronic Circuit Analysis Program)

Operating System: RSX

Keywords: • CAD/CAM • Electronic • Simulation
• Text management

I/CAP is a revised and augmented interactive version of the IBM ECAP/360 program. Data can be input by using the full ECAP formats, as specified in the ECAP manuals. In addition to those of ECAP/360, the following features are provided: full 50-node, 200-branch capability; conversational, easy-to-use interactive free-format input language; built-in text editor; selected output control; graphic output; and stored subcircuit models.

Note: Requirements to run this program are floating-point hardware and FORTRAN 77.

A version of this product is available for the VAX computer.

Price: \$6,000 – \$15,000 +

Contact: Sergio Bernstein, President
(505) 266-9622
BERNE ELECTRONICS, INC.
120 Dartmouth, S.E.
Albuquerque, NM 87106

ICLAYOUT

Operating System: MINC, RSX, RT-11, UNIX

Keywords: • CAD/CAM • Electrical • Graphics
• Manufacturing

ICLAYOUT is a CAD/CAM software package for designing and manufacturing masks for integrated circuits, hybrid circuits, discrete devices, and so on. The package features:

- Extensive on-line design and editing capability.
- Parametric cells.
- Built-in pick a menu, and arc and alphanumeric, BASIC-like commands that allow the user to define his/her own design rule.
- User-definable fill density.
- Total number of definable points equal to 10^{14} .
- True zoom/pan to any magnification.
- Multiple step and repeat, rotation, mirror reflection, and other commands for feature addition, modification, and measurement.
- Powerful cut command that removes features within specified boundaries.
- User-definable named cells and their subsequent manipulation as single entities.
- Automatic documentation files creation. Session dialog is preserved in instruction files. Graphic information is saved in drawing files.
- Continuous display when desired of digitizing grid points, center coordinates, resolution, and scale.

- On-line CAM check.
- True display of final artwork.

The package supports a hard-copy unit to dump graphic/text information from screen, a data tablet, a modem, color graphics/text display, a drum plotter, a digitizer, a color printer/plotter, a camera, a half-inch magnetic tape drive, and a paper tape puncher.

A version of this product is available for the VAX computer.

Price: \$5,000 – \$30,000

Contact: Nancy Wang, Assistant Manager
(617) 891-9829

COMPUTER GRAPHICS
22 College Farm Road
Waltham, MA 02154

I/LOGIC (Interactive Logic Simulation)

Operating System: RSX

Keywords: • CAD/CAM • Diagnostics • Simulation

This interactive program for simulation of digital logic circuits allows the engineer to check out logic designs prior to breadboarding. The user can input data for each logic block, run the simulation, make modifications, and store the problem on data files. The problem can then be retrieved from disk files, edited, and rerun as desired. Timing diagrams are printed at the terminal, thus allowing the user to check designs quickly. The program can handle logic blocks of the following types:

- RS, JK, T, D, 1-shot, flip-flop
- AND, NAND, OR, NOT, and XOR gates
- Buffers and inverters, with or without delays
- Programmable switches and clocks

All gates allow up to eight inputs, and all signal complements can be obtained by using the negative of the signal desired. A macro command is available for definition and repeated use of special functions in a simulation. Initialization of all blocks, variable waveform inputs, and race condition checks are also provided.

Note: Requirements to run this program are floating-point hardware and FORTRAN 77.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Sergio Bernstein, President
(505) 266-9622

BERNE ELECTRONICS, INC.
120 Dartmouth, S.E.
Albuquerque, NM 87106

ILS (Interactive Laboratory System)[™]**Operating System:** CTS-300, RSX, RT-11, UNIX**Keywords:** • Medical • Scientific • Signal processing

ILS is a comprehensive set of FORTRAN programs used to investigate signals and their properties. Those signals may be EKG traces, heart sounds, sonar signals, speech sounds, seismic pressure waves, radar reflections, and so on.

The software handles both real and complex data and supports functions such as addition, multiplication, magnitude, hard and soft limiting, phase wrapping and unwrapping, FFT and inverse FFT, autocorrelation, cross-correlation, convolution, spectral density, coherence, and moving or exponential averaging to reduce the variance of the estimates. The ILS programs allow data scanning and manipulation, spectral analysis, and pattern analysis/recognition. The software operates in an interactive or batch mode and makes extensive use of graphics.

ILS contains a standard set of file structures, including sampled data files, analysis files, record files, and label files, which in combination allow for efficient storage and access of numerous data types. The file conventions allow for convenient information transfer from one program to the next and enhance the transportability of data and programs among installations.

ILS allows for numerous graphical operations such as scaled data displays, multiple calibrated data displays with user-defined grid options, scatter plots with principal component analysis options, and 3-D displays of spectra and spectral models.

DIGITAL distributes this software product under license from Signal Technology, Inc., 5951 Encina Rd., Goleta, CA 93117.

Refer to SPD #A0.19.02 when requesting further information on this product from your local DIGITAL sales office.

ILS (Interactive Laboratory System)[™] is a trademark of Signal Technology, Inc.

A version of this product is available for the VAX computer.

Price: \$13,000 – \$18,000**Contact:** Consult your local DIGITAL sales office
(see Introduction).**ILS/SKY****Operating System:** RSX**Keywords:** • Scientific • Signal processing • Simulation

ILS/SKY is an integrated signal-processing software package that has been programmed to take advantage of the SKY Computers, Inc., Micro Number Kruncher (SKYMNK) array processor. The software consists of a comprehensive set of high-level interactive programs that allow the user to begin performing signal-processing operations without programming.

The ILS/SKY software takes advantage of the high-speed array processor for doing Fast Fourier Transforms (FFT) and other types of vector operations, thereby enhancing the performance of signal-processing operations. The programs allow data scanning and manipulation, digital filtering, signal modeling (parameter estimation), spectral analysis, 3-dimensional displays, and more. Also included are extended signal-processing operators for addition, multiplication, magnitude, phase wrapping and unwrapping, FFT and inverse FFT, autocorrelation, cross-correlation, convolution, coherence, and spectral density.

Price: \$9,000

Contact: Brian Montgomery
(805) 683-3771

SIGNAL TECHNOLOGY, INC.
5951 Encina Road
Goleta, CA 93117

INSCAL

Operating System: RSX

Keywords: • Instrumentation • Inventory • Quality control

This FORTRAN program tracks and reports calibration dates for all instruments and equipment in the data base. Instruments are categorized by such key characteristics as manufacturer, model number, serial number, date of purchase, and date of last calibration. The various reports and listings available allow users to schedule and use their calibration facilities efficiently.

Human interfacing is achieved through a built-in menu-driven format and simple English dialog. Full file maintenance is provided to allow easy updating and editing of the data base.

A version of this product is available for the VAX computer.

Price: \$15,000

Contact: Robert Loesch
(203) 238-2351

CANBERRA INDUSTRIES, INC.
One State Street
Meriden, CT 06450

IUC (Interactive Unit Commitment)

Operating System: RSX

Keywords: • Electrical • Scheduling • Simulation

This program determines a commitment schedule for a given period such that the system operating constraints are satisfied and the resultant total cost minimized. The total cost includes fuel cost, time-dependent start-up cost, and maintenance and labor charges. Starting from a set of initial unit status, the program determines when to start and shut off thermal units to meet the forecasted load and system constraints. The program observes the following constraints: unit minimum up and down times and minimum and maximum generating limits, on-line and off-line reserve requirements, must-run and must-out units, units on fixed generation, changes in unit generating limits and capacity, transfer limitation between areas within the system, total system reserve, minimum reserves for areas within the system, unit response rate, and fixed schedule purchases and sales.

Price: Available upon request

Contact: G. E. Scott

(518) 374-1220

POWER TECHNOLOGIES, INC.

P.O. Box 1058

Schenectady, NY 12301

Lambert Geodetic Conversion

Operating System: RSTS

Keywords: • Civil engineering • Mathematics

This program converts geodetic longitude and latitude values to state plane coordinates and vice versa. Input is interactive or from COGO files. Source language is BASIC or FORTRAN.

A version of this product is available for the VAX computer.

Price: \$350

Contact: Robert E. Branch, P.E.

(800) 368-4203

TECHNICAL INFORMATION SYSTEMS, INC.

116 W. Plume Street, P.O. Box 1900

Norfolk, VA 23501

MAGIC/L

Operating System: MS/DOS, RT-11

Keywords: • Instrumentation • Language processors
• Microprocessor development • Signal processing

MAGIC/L is an interactive software development environment used to support hardware development activities. Centered on an interactive assembler and an incremental high-level language compiler, MAGIC/L gives the hardware developer immediate access to the entire system;

all operating system calls are defined, operating system commands and utilities are available without leaving the MAGIC/L environment, and the interactive assembler provides full access to all hardware levels.

MAGIC/L's interactive environment provides a wide range of utility and support functions. Command-line recall/edit/execute and a built-in editor provide great flexibility. Source code may be executed as it is entered, compiled for later execution, or compiled from a file. Input and output logging facilities allow code entered interactively to be saved for future use or reference. An object module facility allows precompilation of large programs and automatic loading/unloading as needed. The environment can be customized to specific needs and to include application-specific capabilities.

Price: \$295 – \$950

Contact: David M. Jordan
(617) 576-0666

LOKI ENGINEERING, INC.
55 Wheeler Street
Cambridge, MA 02138

MBP (Metal Building Program)

Operating System: RSX

Keywords: • Civil engineering • Graphics • Metals
• Structural engineering

MBP, a computer program to optimize the design of preengineered metal building systems, has a unique mode of operation. Initially, the program operates until the lightest frame that meets the AISC code is obtained. Then, MBP displays a summary of the design results and presents a choice of options that the user can select to see pictures of the deflected shapes or to change the plate dimensions and reanalyze the frame, and so on. The automatic user-controlled mode of operation allows tailoring of the frame to the user's needs.

The program features multiple-span multistory frames; tapered built-up members; concentrated, distributed, and temperature loads; forced displacements; elastic supports; self-weight calculations; plots of the undeflected geometry, deformed shapes, and internal stresses; user-specified plate library; true free-format input; and extensive data checking and comprehensive error-condition reports.

A version of this product is available for the VAX computer.

Price: \$3,000 – \$5,000

Contact: Arturo Durand
(213) 398-3106

INTERNATIONAL STRUCTURAL ENGINEERS, INC.
P.O. Box 241740
Los Angeles, CA 90024

MCSIM (Monte Carlo Simulation)

Operating System: CTS-300, RSX, RT-11, UNIX

Keywords: • Biology • Mathematics • Research • Statistics

MCSIM is a FORTRAN program for evaluating parameter estimation accuracies and related sample statistics for a given model with given data error statistics, by computer simulation of multiple experiments. The user provides the model and data statistics in a FORTRAN subroutine and standardized format. Program output is highly readable and user-friendly.

A version of this product is available for the VAX computer.

Price: \$500 – \$1,000

Contact: Dr. Joseph J. DiStefano III, Professor
(213) 825-7482 or 825-4033

UNIVERSITY OF CALIFORNIA, LOS ANGELES
School of Engineering and Applied Science
Biocybernetics Laboratory, 4731K Boelter Hall
Los Angeles, CA 90024

MICRODARE

Operating System: RSX, RT-11

Keywords: • Chemical • Instrumentation • Simulation

MICRODARE is a direct-executing interactive system for laboratory automation, simulation, and control. Written and edited on a CRT terminal screen, this high-level language executes directly on a typed RUN command and is very fast, running at about one-half assembly-language speed. No separate editor, compiler, or linker is needed. MICRODARE/NET permits programming of multiple concurrent tasks running on multiple PDP-11s or LSI-11s, one of which can control the entire system with MICRODARE commands.

Price: \$1,600 – \$2,400

Contact: G. A. Korn, Professor
(602) 298-7054

UNIVERSITY OF ARIZONA
Electrical and Computer Engineering
Tucson, AZ 85721

Milestone®

Operating System: CP/M, CP/M-86, UCSD p-System

Keywords: • Project management • Scheduling

This project management and time scheduling program uses a critical-path network analysis process to schedule manpower, dollars, and time. Milestone can be used by executives, engineers, managers, or others to produce a PERT chart in minutes, investigate the effects of changes of manpower or a completion date on the total project, draw up cost estimates, and in general help communicate schedules and ideas

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to subordinates or supervisors. The time schedule display allows you to visually follow the activities in the project and instantly view the results of changes. The printed project reports summarize every aspect of the project.

UCSD p-System™ is a trademark of University of California Regents. Milestone® is a registered trademark of Organic Software, Inc.

Price: \$295

Contact: Tim Clark

(800) 826-2222

DIGITAL MARKETING CORP.

2363 Boulevard Circle

Walnut Creek, CA 94595

MINIMOVIE.BYU

Operating System: RSX

Keywords: • Architecture • Graphics • Mathematics
• Pre- and postprocessors

The MINIMOVIE system consists of FORTRAN programs that facilitate the display and manipulation of data representing mathematical or architectural models whose geometry may be described in terms of polygonal elements. The source of the polygonal element data is often a finite element or finite difference analysis.

The programs work in harmony to provide perspective displays in line drawing and/or continuous-tone image format; clip and cap 3-dimensional finite element systems to expose internal surfaces; modify geometry, displacement, and/or scalar function files by way of correction, differencing, appendage, or symmetry operation; and generate new models or title representations.

The MINIMOVIE system is a 16-bit version of MOVIE.BYU and features a disk-resident data base that allows the processing of large models on a small machine.

Price: \$500 – \$1,000

Contact: Dr. Bruce J. Nay

(801)378-2903

BRIGHAM YOUNG UNIVERSITY, CIVIL ENGINEERING DEPARTMENT

368 CB

Provo, UT 84602

Minimumtour: Minimum Path Routines

Operating System: RT-11

Keywords: • Mathematics

Memory required: 12KW.

These routines derive an optimal path through a set of coplanar points and return a sequence of integers that represents ordinal point identifiers, the points having been given as sequences of coordinates. The derived path is "nearly optimal" in the sense that if it is not the shortest possible, it will not be significantly longer.

Note: NBS Pascal compiler pass .SAV files and NBS Pascal support library .OBJ files (included with program) are required to compile and execute the Pascal version. The FORTRAN version can be run with standard DIGITAL software. The program must be modified if required to solve a problem of more than 20 nodes. DECUS number 11-599.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

MOSAID 1000 (MOS IC Circuit Simulator)

Operating System: RT-11

Keywords: • CAD/CAM • Electronic • Simulation

MOSAID 1000, designed for transient simulation of MOS circuits, has a capacity of 1,000 transistors and up to 500 resistors, cross-coupled capacitors, or diodes. Twenty power supplies and 20 clocks can be specified. The program can handle circuits with up to 580 working nodes, in addition to those specified as clocks or power supplies. The program can also handle up to 10 device types, enabling the designer to work on NMOS, PMOS, and CMOS technologies.

Menu driven and fully interactive, MOSAID 1000 allows a designer to rapidly gain an appreciation of the performance of a proposed circuit. The modeling algorithm enables the user to ensure convergence by control of the time-step. MOSAID 1000 is able to directly use the results of the parameter extraction program, MOSFIT.

A version of this product is available for the VAX computer.

Price: \$15,000 – \$20,000

Contact: Ray St. Laurent, Technical Specialist
(613) 836-3134

MOSAID INC.

P.O. Box 13579

Kanata, Ontario K2K 1X6

Canada

MOSFIT (MOS Transistor Model Parameter Extraction Package)

Operating System: RT-11

Keywords: • CAD/CAM • Electronic • Research
• Simulation

The software is for use in modeling MOS transistor characteristics. A companion to MOSAID 1000 MOS Integrated Circuit CAD program, the package contains three routines that measure transistor I-V data via the IEEE 488 bus, extract and optimize model parameter values, and display measured and simulated I-V curves for visual comparison.

Parameter optimization is carried out within user-set search boundaries. The menu-driven software is interactive to allow control over the parameter extraction process. The model provides an accurate representation of MOS device behavior, including short and narrow channel effects, drift velocity saturation, nonuniform impurity profiles, channel length modulation, and parasitic series resistance effects. The program is structured to allow other device model subroutines to be installed, if required.

A version of this product is available for the VAX computer.

Price: \$3,000 – \$6,000

Contact: Allan Silburt, Technical Specialist
(613) 836-3134
MOSAID INC.
P.O. Box 13579
Kanata, Ontario K2K 1X6
Canada

MTS-50

Operating System: RSX, RT-11

Keywords: • Process control • Production control
• Quality control • Shop floor control

This is a process and product engineering evaluation and control system for industries involved with the manufacture of semiconductors, printed circuit boards, and complete integrated electronic products. The system is designed to assist all phases of engineering in the areas of process control, equipment control, and yield improvement.

This relational data base system includes:

- Work-in-process material tracking and the display of process specifications or operator instructions, as well as the ability to enter comments at each data entry station.
- Several levels of data — in-wafer, wafer-to-wafer, lot-to-lot or components, boards, subassemblies, and so on, with roll up to higher levels — are handled.
- The definition of all data, units, scale multiplier, valid limits, and specification limits. The system can also perform calculations on data and treat the calculated values as original data.
- Comparisons of all data for validity, specification, and internally generated X-R statistics for normalcy. Reporting on any out-of-control or out-of-specification situations, with material disposition feedback, is provided.

- Maintenance of running statistics for update of standards for cycle times, scrap and rework rates, yields, and data.
- Easy selection and reporting of data. Powerful statistical analysis capabilities include regression and correlation.

Custom versions of the system are easy to define and install, and modification and expansion are simple.

A version of this product is available for the VAX computer.

Price: \$35,000 – \$75,000

Contact: Brian Taylor
(617) 263-3408

MICROPRODUCT TECHNOLOGY SOFTWARE, INC.
945 Concord Street
Framingham, MA 01701

NDTRAN2

Operating System: RSTS

Keywords: • Documentation • Research • Simulation
• Source code control

Memory required: 28K.

NDTRAN2 is a dynamic simulation interpreter capable of carrying out dynamic and stochastic simulations. It is available in two basic versions: a research version that accepts a source simulation program of up to 4,000 statements and a standard version that can execute programs somewhat larger than WORLD3 and that operate on a computer with a 28K FORTRAN batch partition.

The standard version is available in a double-precision version or a single-precision version, depending on the requirements of the computer at the installing college or university. All versions sent to installations with PDP-11 computers are single precision, requiring the half-word integer option.

The source program for NDTRAN2 is approximately 13,000 statements in length, of which about 8,000 are COMMENT cards, which constitute the basic documentation for the NDTRAN interpreter. It is very important that you read the COMMENT statements in the main program NDTRAN, since that contains parameters that must be set for the installation computer. DECUS number 11-512.

Note: Source program includes extensive documentation in the form of 8,000 comment statements.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

OPTAN (Optical Systems, Evaluation, and Analysis)

Operating System: RSX

Keywords: • CAD/CAM • Scientific

An interactive optical analysis program, OPTAN is designed for ray-tracing very complex multiple imagery, including nonrotationally symmetric aspheric systems. Two glass catalog data bases — Schott and Ohara — are provided for easy access and changes of glass parameters. Nonstandard parameters may also be entered. Systems of up to 48 surfaces may be analyzed, and up to fifth-order aberrations can be calculated for nominal, minimum, and maximum wavelengths. Output can be obtained for surface-by-surface ray data; paraxial marginal and principal ray heights and angles at the surfaces; upper and lower rim-ray heights at each surface for relative vignetted apertures, for three relative field positions; and any general skew ray for specified object and pupil coordinates.

Running this program requires floating-point hardware and FORTRAN 77.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Sergio Bernstein, President
(505) 266-9622

BERNE ELECTRONICS, INC.
120 Dartmouth, S.E.
Albuquerque, NM 87106

PMCS (Process Monitoring and Control System), Version 1.0

Operating System: RSX

Keywords: • Chemical • Instrumentation • Process control
• Real time

PMCS provides real-time monitoring, display, alarm, reporting, and control of continuous industrial processes on the RSX-11M operating system. PMCS supports user-written FORTRAN subroutines with full access to the data base. The following major functions are included:

- Data base definition via interactive CRT with fill-in-the-blanks forms to specify variable names, scan frequencies, alarm tolerances, control gains, and so on.
- Time-scheduled scan of analog and digital process inputs
- Conversion of process inputs into engineering units
- Alarm indication when preselected tolerances are exceeded
- Live-updated process flow graphics display of current values and alarms
- Up to eight operator stations
- Color graphics
- Chainable general equations to calculate a value as a function of six selectable terms

- Chainable general actions for performing calculations and decision making and initiating the processing of variables on a special basis
- Optional functions include supervisory-level control with feedforward or feedback.

This software reduces the overall cost and time to complete projects by enabling the user to concentrate on the industrial application rather than on writing software programs.

Refer to SPD #14.75.0 when requesting further information on this product from your local DIGITAL sales office.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Consult your local DIGITAL sales office
(see Introduction).

Predictor

Operating System: RSX

Keywords: • CAD/CAM • Electronic
• Mechanical engineering

Predictor represents a set of more than 11 computer programs used in the evaluation of systems of electronic and mechanical components. Predictor provides reliability estimation (Mil-HDBK-217B/C/D and other methods), maintainability estimation at multiple echelons with multiple tasks, cataloging of parts to reduce inputs, failure modes and effects analysis to filter nonrelevant failures, parts lists to aid in design to cost, failure rate analysis from failure reports, and a report analysis program to assist in information retrieval.

Predictor is the most widely used computer program for evaluation engineering. The programs are fully supported, with ongoing training classes, documentation, and support to users.

Due to its internal cataloging capability of more than 10,000,000 parts and formula methods and external cataloging for unique parts, the Predictor programs easily handle any parts list. A unique data capability produces information in sortable and reportable order.

A version of this product is available for the VAX computer.

Price: \$15,000 – \$50,000

Contact: Jim Tanzola
(505) 255-8611

MANAGEMENT SCIENCES, INC.
6022 Constitution, N.E.
Albuquerque, NM 87110

Project Time Management

Operating System: CTS-300, RSTS, UNIX

Keywords: • Accounts receivable • Architecture • Billing
• Project management

The Project Time Management system for architects and engineers does the following:

- Maintains records for each employee, client, project and project type, phase and task within a project, staff and departmental assignment, and activity performed by your firm
- Records and posts each time, expense, and accounts receivable transaction by client and project
- Allows adjustment of work-in-process and billing amounts
- Prints detailed or summarized statements in several user-selected formats
- Ages accounts receivable and unbilled time-and-expense transactions and prints valuable aging reports

Your ability to manage projects depends on the amount and quality of your information. Alpine's Professional Time Management System provides you with extensive management data as it collects and reports on project and staff activities month to date, year to date, and since opening; analyzes billings and time-and-expense transactions; issues reports on productivity and profitability within project and staff types; and fully integrates with Alpine's Accounts Payable, Payroll, and General Ledger systems, enabling simplified 1-time entry of time-and-expense transactions.

A version of this product is available for the VAX computer.

Price: \$13,000 – \$18,000

Contact: Byron Wilkes, Marketing Manager
(503) 641-8100

ALPINE DATASYSTEMS, INC.
8043 SW Cirrus Drive
Beaverton, OR 97005

PSS/2P (Power System Simulator)

Operating System: RSX

Keywords: • Electrical • Flow analysis • Simulation

This integrated set of programs allows the power system engineer to execute load flow and short-circuit studies and to construct network equivalents in an interactive manner. Problems as large as 256 buses and 384 branches with 128 generator units can be processed. The calculation methods used in PSS/2P have been developed and proven by PTI as a result of both research work on computational methods and of application of those methods to a wide variety of power system analysis studies.

This package of programs has been specifically designed to use a DIGITAL PDP-11 minicomputer for use by engineering groups on a dedicated basis. The minicomputer is distinguished by its relatively small size and low price in relation to its central processor speed and by the use of a high-speed video terminal (CRT) for communication with users as they execute their calculations.

The following points illustrate the main computational characteristics of PSS/2P:

- The load flow solution may be executed by a nodal iterative (Gauss-Seidel), Newton-Raphson, decoupled Newton, or triangularized admittance matrix solution algorithm. The selection of the method is made by the user, and the four methods may be interchanged at any time.
- The multiple unbalanced short-circuit calculation activity allows the user to apply simultaneously, at any bus, on any phase, the following combination of unbalances: single L-G fault, L-L or L-L-G fault, single phase closed, and double phase closed.

Price: Available upon request

Contact: G. E. Scott

(518) 374-1220

POWER TECHNOLOGIES, INC.

P.O. Box 1058

Schenectady, NY 12301

PSS/O-S (Power System Simulator for Operations)

Operating System: RSX

Keywords: • Electrical • Flow analysis • Simulation

This package of software modules is designed for use as a 200-bus power system operator's load flow. Using PSS/O-S, the operator can quickly conduct studies of possible network switching actions, generation shifts, and so forth, using similar-condition base-case data with appropriate system-condition adjustments made.

PSS/O-S performs interactive AC load flow (full Newton), network topology determination, economic dispatch calculation, bus-load allocation of system load, and network-dependent penalty factor calculation.

The largest power system model that can be simulated with PSS/O-S is 200 electrical nodes and 350 branches.

The power system operator's needs and customary methods were the guiding considerations during PSS/O-S's design and development. For example, transmission lines and transformers are placed in and out of service at the circuit breaker and switch level. When breaker and switch operations result in isolated equipment, system splitting, and so on, PSS/O-S detects and processes such conditions.

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Price: Available upon request

Contact: G. E. Scott
(518) 374-1220
POWER TECHNOLOGIES, INC.
P.O. Box 1058
Schenectady, NY 12301

Rave

Operating System: RSX

Keywords: • CAD/CAM • Data conversion • Graphics
• Signal processing

Rave is a raster-to-vector conversion software system that converts raster data from a scanning input device to vector data compatible with most interactive graphics systems (CAD).

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: W. C. Schmidt
(215) 328-1040
BROOMALL INDUSTRIES, INC.
700 Abbott Drive
Broomall, PA 19008

REGLACEM

Operating System: None required

Keywords: • Metals • Process control

REGLACEM is a real-time operational closed package that allows easy programming of DDC control loops. It works under a dedicated executive system and accepts modifications on site without reassembling. The programming language consists of an exact translation of the normalized analogical control loops networks.

Minimal configuration:

LSI 11-23/2	Multifunction Modules/1	EPROM Module
(KDF11)	(MxV11)	(MRV11)
Optional: TU58 / RXV211 / TELETYPE		

Performances: Multitasks (REGLACEM or MACRO-11), tasks switching: 125 micro sec., and tasks cyclic (min 1 m sec) or on events

Price: Available upon request

Contact: Mr. Fontaine
(1) 362.26.09
CEM SYSTEMES SCAN
40 rue Jean Jaures
93176 Bagnole
France

RES

Operating System: RSX, RT-11

Keywords: • Calculation aids • Documentation
• Process control • Simulation

RES is designed to remove the expensive and error-prone manual approach to equipment reliability calculations, by completely automating MIL-HDBK-217, "Reliability Prediction of Electronic Equipment." The program is a natural for use in the design and development environment and is oriented toward modern equipment architectures — assembly, unit, subsystem, and system. Starting with a human-engineering screen format, the user inputs the basic part reliability drivers — typically environment, temperature, quality level, and stress. RES is then run on the user-created data file and provides the usual reliability indices of mean time between failures (MTBF) and probability of mission success $R(t)$.

RES is of particular interest to organizations whose products are reliability sensitive and to those groups performing reliability assessments. RES allows equipment reliability simulation driven by environment, temperature, and part-quality changes. That leads to tradeoffs between competing factors and the all-important cost factor. Output from RES may be used for life cycle cost (LCC) work in determining logistics drivers and establishing maintenance factors.

RES resides on a single 8" floppy disk (a test demonstration disk is also supplied), which is loaded into the system. The user then creates a data file on a separate disk for the specific equipment of interest. Options are provided that, for example, calculate the percent failure rate for each part type and the leading highest failure rate parts. A simple language consisting of only five basic commands allows input processing and output control. Because of the 80-column screen format, identical hard-copy forms may be prepared and checked off and input to the computer system when convenient.

Price: \$8,000

Contact: M. Young, Office Manager
(613) 820-0606

B. G. YOUNG AND ASSOCIATES
P.O. Box 5745, Station F
Ottawa, Ontario K2C 3M1
Canada

RES 2

Operating System: RSTS

Keywords: • Civil engineering

RES 2 performs standard reservoir flood routing through multiple linear reservoirs. The maximum number of reservoirs is three. Source code (FORTRAN IV) is available.

A version of this product is available for the VAX computer.

300 Engineering

Price: \$450

Contact: Robert E. Branch, P.E.
(800) 368-4203

TECHNICAL INFORMATION SYSTEMS, INC.
116 W. Plume Street, P.O. Box 1900
Norfolk, VA 23501

RETCON

Operating System: RT-11

Keywords: • Data conversion • Graphics

Memory required: 10KB.

This program displays the contents of the Reticon RSB6320 interface board when connected to an LC-series line scan camera. The pixel numbers where the transitions have occurred (address) or the number of pixels between transitions (count) can be displayed on a continuous or a periodic basis. The user can specify the number of scans that are averaged together prior to display. DECUS number 11-658.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

REWALL (Retaining Wall Design)

Operating System: RSTS

Keywords: • Civil engineering • Mathematics

REWALL designs cantilevered concrete retaining walls according to ACI 318-77. Ultimate strength design is used. Input consists of wall height, trial toe, heel, and base dimensions; soil parameters; and steel and concrete constants. Output consists of final dimensions, sliding and overturning factors of safety, and reinforcing percentages required.

A version of this product is available for the VAX computer.

Price: \$400

Contact: Robert E. Branch, P.E.
(800) 368-4203

TECHNICAL INFORMATION SYSTEMS, INC.
116 W. Plume Street, P.O. Box 1900
Norfolk, VA 23501

RKLIN (Linear System Simulation: Runge-Kutta)

Operating System: CTS-300, RSX, RT-11, UNIX

Keywords: • Biology • Mathematics • Research
• Simulation

RKLIN is an interactive FORTRAN program that solves any set of n linear, constant-coefficient, ordinary differential equations, where n is limited only by the host machine's memory capacity. Options for step (constant), impulse, and impulse-train inputs are provided as standard options. Other inputs can be easily implemented.

The algorithm used is a variable-step fifth-order Runge-Kutta procedure. Program input and output are highly user-friendly (self-explanatory). The user is required to enter only the number of equations, input type, parameter values, and initial values of the n variables, all interactively. Telephone demos are available.

A version of this product is available for the VAX computer.

Price: \$350 – \$750

Contact: Dr. Joseph J. DiStefano III, Professor
(213) 825-7482 or 825-4033

UNIVERSITY OF CALIFORNIA, LOS ANGELES
School of Engineering and Applied Science
Biocybernetics Laboratory, 4731K Boelter Hall
Los Angeles, CA 90024

The S Language and System for Interactive Data Analysis

Operating System: UNIX

Keywords: • Graphics • Mathematics • Statistics

S is an expression language. The user types expressions, which the S system interprets and evaluates. The expressions include, but are not limited to, conventional algebraic and functional expressions. Expressions are composed from operators and other special characters, such as plus, minus, and parentheses, from functions — for example, log and mean — and from data, such as constants and named data sets.

Data in S is organized into named, self-describing data sets, which are kept in data bases and are retrieved automatically when named in an expression. The fundamental data structure is a vector, that is, a sequence of data values, such as numbers, logical values, or character strings. An unlimited variety of other data structures can be built up from vectors. Some structures are recognized by many functions in S — for example, matrices, arrays, and time series.

Fundamental to the philosophy of S is the uniformity of expressions and data structures. That uniformity leads to flexible, general data analysis. The value of any expression, however complicated, is a data structure, which includes anything from simple arithmetic to high-level statistical functions. So far as the language is concerned, any expression can appear as an argument to an operator or a function. Of course, a particular function may generate an error if it cannot interpret the argument sensibly.

302 Engineering

Price: \$3,000 – \$8,000

Contact: AT&T Technologies Account Executive
(800) 828-UNIX
AT&T TECHNOLOGIES, INC.
P.O. Box 25000
Greensboro, NC 27420

S220 CANSCAN

Operating System: RT-11

Keywords: • Instrumentation • Nuclear • Scientific

CANSCAN is a set of BASIC programs for use in analyzing low-density waste containing ^{235}U and/or ^{235}Pu . Typical waste containers are 55-gallon drums and 5-gallon cans. Routines provide quantitative analysis, correction for density variations, and utility routines.

Price: \$5,000

Contact: David Martancik
(203) 238-2351
CANBERRA INDUSTRIES, INC.
One State Street
Meriden, CT 06450

S235/S535 GAMMA-M

Operating System: RSX, RT-11

Keywords: • Instrumentation • Nuclear • Scientific

This software package performs rapid and accurate analysis of gamma spectra obtained with sodium (NaI) scintillation detectors. Routines are included for calibrating the system, searching for peaks, determining net areas, resolving multiplets, identifying nuclides, and calculating specific activities and minimum detectable activities.

The analytical approach that was developed for the ABACOS Body Burden software is used in the GAMMA-M package, which is written in FORTRAN. However, the nuclide libraries and the input/output orientation are toward general laboratory spectroscopy rather than toward a particular application.

Price: \$2,500

Contact: David Martancik
(203) 238-2351
CANBERRA INDUSTRIES, INC.
One State Street
Meriden, CT 06450

S240/S540 SPECTRAN-F

Operating System: RSX, RT-11

Keywords: • Instrumentation • Nuclear • Scientific

This set of FORTRAN programs performs sophisticated analysis of gamma-ray spectrographic data obtained from Ge(Li) or HpGe detectors. Routines are included for calibrating the system, searching for peaks, calculating peak centroids, determining net areas, resolving multiplets, identifying nuclides, and calculating specific activities, minimum detectable activities (MDA), maximum permissible concentrations (MPC), and E-bar calculations.

Price: \$2,750

Contact: David Martancik
(203) 238-2351

CANBERRA INDUSTRIES, INC.
One State Street
Meriden, CT 06450

S243/S543 NAA

Operating System: RSX, RT-11

Keywords: • Instrumentation • Nuclear • Scientific

The Canberra Neutron Activation Software Package consists of a well-defined set of subroutines formulated for the rapid and accurate analysis of neutron activation spectra collected with germanium detectors. Both comparative and absolute methods of analysis are supported. The package is written in standard FORTRAN IV.

The software is designed in a completely modular fashion to permit adaptation to a multitude of experimental sequences. The operator can run experiments in an interactive or a completely unattended and automatic environment. Routines are included for calibrating the system, searching for peaks, calculating peak centroids, determining net areas, resolving multiplets, identifying elements, and calculating element concentration.

Price: \$4,000

Contact: David Martancik
(203) 238-2351

CANBERRA INDUSTRIES, INC.
One State Street
Meriden, CT 06450

S245/S545 Quality Assurance Software

Operating System: RSX, RT-11

Keywords: • Instrumentation • Nuclear • Quality control
• Scientific

The Quality Assurance (QA) software package performs a calibration check of germanium (both Ge(Li) and HpGe) detectors. The software produces a quality assurance report that gives current values or current values and difference from reference values for germanium detector system gain shifts, germanium detector system resolution, and germanium detector efficiency.

304 Engineering

Price: \$1,275

Contact: David Martancik
(203) 238-2351
CANBERRA INDUSTRIES, INC.
One State Street
Meriden, CT 06450

S541/S641 APOGEE

Operating System: RSX

Keywords: • Data collection • Instrumentation • Nuclear
• Scientific

APOGEE collects and analyzes complicated Ge(Li) and HpGe gamma spectra. Written in FORTRAN IV/VAX-11, the software has been optimized for speed of execution and employs a user-friendly menu-driven format. Extensive help commands allow infrequent users to operate the software with minimal training. Command language operation is available for frequent users who prefer not to use the menu structure. Both immediate-mode and extensive batch-file operations are supported. Preprogrammed batch files permit job stream operation for routine laboratory applications. This feature allows tasks to be defined by system users and executed through simple commands.

Routines are included for calibrating the system, searching for peaks, calculating peak centroids, determining net areas, resolving multiplets, identifying nuclides, calculating specific activities per unit of volume, minimum detectable activities, lower limit of activities, maximum permissible concentration, and iodine activity equivalency. The LLD calculation complies with the method defined by the U.S. Nuclear Regulatory Commission.

A version of this product is available for the VAX computer.

Price: \$5,000 - \$9,000

Contact: Steve Starbala
(203) 238-2351
CANBERRA INDUSTRIES, INC.
One State Street
Meriden, CT 06450

SDM (Symbolic Drawing Machine)

Operating System: CTS-300, RSX, RT-11

Keywords: • CAD/CAM • Electronic • Flowcharts
• Graphics

SDM is a highly sophisticated program for the interactive development of circuit diagrams, flowcharts, data base structures, and other symbolic diagrams. SDM is unique in that it does not require a large computer or hard disk. The only graphics hardware required is a B-size interactive plotter, which is both the input and the output device. (A vector or TV graphics terminal may be interfaced, if desired.)

SDM provides low-cost, powerful graphics. SDM's simple operation allows all company personnel to use and benefit from the system directly, rather than just one specialized operator.

SDM drawings are composed from four primitive element types: symbols, character strings, parameterized figures, and subpictures. Subpictures are sets of symbols, character strings, and parameterized figures that may be used to define other subpictures. A powerful feature of the SDM is that subpictures may be defined with linked data fields whose characters are requested for each copy of the subpicture drawn. For example, in drawing logic diagrams, a subpicture for a logic gate will request its reference designator characters each time the gate is drawn. Subpicture definitions may also be undefined back to their primitive elements to any desired level (of subpicture nesting). Thus, redefinition of a subpicture comprised of complex nested subpicture sets is easy.

Once a drawing or set of drawings has been drawn on the SDM, its drawing data base can be compiled by computer to extract drawing or interconnection information. A compiler for logic circuit diagrams is available.

Features of SDM include:

- High-speed grid-independent element and interconnection addressing mechanisms
- User-programmable function keys
- 13 grid sizes and 4 character sizes (both expandable)
- 90-degree rotations of all elements
- Minimal hardware requirements
- Ease of use

A version of this product is available for the VAX computer.

Price: \$7,500

Contact: John Thorne
(818) 884-8957
CADMATICS
21907 San Miguel Street
Woodland Hills, CA 91364

SDRC® FATIGUE™

Operating System: RSX, RT-11

Keywords: • Civil engineering • Mechanical engineering

SDRC FATIGUE software uses predicted and/or measured strain data and material property information to predict product life under various conditions. That kind of fatigue information can help engineers design products that meet stringent requirements for maximum life expectancy, energy efficiency, and cost effectiveness.

This product can also be leased for \$500 – \$900/mo.

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FATIGUE™ is a trademark of SDRC. SDRC® is a service mark of Structural Dynamics Research Corporation.

A version of this product is available for the VAX computer.

Price: \$8,000 – \$20,000

Contact: Richard Russell
(513) 576-2400

GENERAL ELECTRIC CAE INTERNATIONAL INC.
300 TechneCenter Drive
Milford, OH 45150

SDRC® HI-PRO

Operating System: RSX

Keywords: • CAD/CAM • Manufacturing
• Mechanical engineering • Simulation

The SDRC HI-PRO system for sheet metal fabrication combines computer-assisted part programming, graphically plotted pattern layout, machine-time optimization, and visual verification into a single easy-to-use numerical control system.

Additional, right angle notching shear N/C tapes can be automatically prepared for prepunched sheets. The system will simulate production run layouts and assist in the choice of best raw material sheet size strategy.

This product can also be leased for \$800 – \$2,400/mo.

SDRC® is a service mark of Structural Dynamics Research Corp.

A version of this product is available for the VAX computer.

Price: \$17,000 – \$50,000

Contact: Richard Russell
(513) 576-2400

GENERAL ELECTRIC CAE INTERNATIONAL INC.
300 TechneCenter Drive
Milford, OH 45150

SDRC® MODAL-PLUS™

Operating System: RSX, RT-11

Keywords: • Data collection • Mechanical engineering
• Simulation

This interactive software package is used to collect, analyze, and display data from controlled excitation tests. In MODAL-PLUS, a physical model is vibrated by an exciter through a range of frequencies to test system dynamics. MODAL-PLUS software then creates a mathematical model of the prototype's performance; that model can be compared to the system model.

This product can also be leased for \$1,300 – \$2,500/mo.

MODAL-PLUS™ is a trademark of SDRC. SDRC® is a service mark of Structural Dynamics Research Corporation.

A version of this product is available for the VAX computer.

Price: \$14,000 – \$28,500

Contact: Richard Russell
(513) 576-2400

GENERAL ELECTRIC CAE INTERNATIONAL INC.
300 TechneCenter Drive
Milford, OH 45150

SDRC® SABBA™

Operating System: RSX, RT-11

Keywords: • Debugging • Mechanical engineering
• Simulation

SDRC SABBA software is a systems analysis package used to debug prototypes, conveniently and efficiently, by computer simulation. SABBA creates a mathematical representation of the system that can be analyzed to predict its natural frequencies and modes of vibration. Then, to help engineers understand the impact of changes to the product's physical properties, modifications can be made to the computer model and the impact of those changes automatically calculated in SABBA.

This product can also be leased for \$1,100/mo.

SABBA™ is a trademark of SDRC. SDRC® is a service mark of Structural Dynamics Research Corporation.

A version of this product is available for the VAX computer.

Price: \$20,000

Contact: Richard Russell
(513) 576-2400

GENERAL ELECTRIC CAE INTERNATIONAL INC.
300 TechneCenter Drive
Milford, OH 45150

SERIES/PARALLEL (Equivalent Series/Parallel Pipe Solver)

Operating System: RSTS

Keywords: • Civil engineering

This program computes equivalent conduit sizes and lengths for two or more conduits in series or parallel, using the Hazen-Williams equation.

308 Engineering

Price: \$100

Contact: Robert E. Branch
(804) 622-1755

TECHNICAL INFORMATION SYSTEMS, INC.
116 West Plume Street
Norfolk, VA 23510

S/FILSYN (General Filter Synthesis Package)

Operating System: UNIX

Keywords: • Electrical • Electronic

This package is used for the synthesis, design, and analysis of electrical filters, delay equalizers, and impedance-matching networks. These may be realized in passive LC, active RC, microwave, or digital forms.

The program can design low-pass, high-pass, band-pass, and band-reject filters with arbitrary specifications, terminations with or without predistortion. The passive LC realizations may be lattice, ladder, or lattice-ladder combination in computer or user-specified forms. Design data may be stored on disk or passed to other programs. Analysis results may be tabulated or displayed in graphical form.

The program is indispensable to anyone in the communications or component field who has to design, analyze, and build filters of any kind. The program is highly modular, and additional features may be added easily.

A version of this product is available for the VAX computer.

Price: \$12,500 – \$25,000

Contact: Dr. George Szentirmai
(408) 554-1469

DGS ASSOCIATES
1353 Sarita Way
Santa Clara, CA 95051

SPIPE (Circular Pipe Analysis)

Operating System: RSTS

Keywords: • Civil engineering • Mathematics

SPIPE computes the hydraulic elements for circular pipes. Input consists of pipe size, slope, roughness coefficient, and intervals desired. Output includes flow, velocity, area of flow, depth of flow, and so on. Gravity flow is considered.

A version of this product is available for the VAX computer.

Price: \$200

Contact: Robert E. Branch, P.E.
(800) 368-4203

TECHNICAL INFORMATION SYSTEMS, INC.
116 W. Plume Street, P.O. Box 1900
Norfolk, VA 23501

SPLICE

Operating System: RSTS

Keywords: • Civil engineering • Mathematics

SPLICE designs high-strength bolted splices for standard rolled beams and welded-plate girder sections (symmetrical about their major axis).

A version of this product is available for the VAX computer.

Price: \$200

Contact: Robert E. Branch, P.E.
(800) 368-4203

TECHNICAL INFORMATION SYSTEMS, INC.
116 W. Plume Street, P.O. Box 1900
Norfolk, VA 23501

STAAD-III (Structural Analysis and Design)

Operating System: UNIX

Keywords: • Civil engineering • Mechanical engineering

STAAD-III is a comprehensive package performing complete analysis and design for structural engineers. Similar to the STRUDL-II program in both input and capability, yet six to nine times faster, STAAD-III has excelled in different leading timesharing networks. Other features include:

- Simple English inputs are free-formatted with simple English-type commands.
- Built-in units contain FPS metric and SI units and can be changed during input phases.
- All types of 2D and 3D frame/finite element structures, as well as P-delta effect, can also be incorporated in analysis.
- AISC steel tables (1978) contain W S M HP C MC \shapes, angles, double angles, double channels, tees, composite sections, beam with cover plates, and pipes and tubes.
- Loads and load combinations consist of joint load, member loads (uniform, linear, and concentrated), temperature load, support displacements, and fixed-end member loads and are accepted in both local and global axes. A combination of any of these loadings, including a combination of combinations, is permitted.
- Checking of the 1978 AISC code and/or selecting the least-weight member section from AISC tables can be performed, based on the analytical results.
- Complete concrete design based on ACI-78 code.

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- Structure geometry or deflected shape can be plotted in almost any graphics device.

A version of this product is available for the VAX computer.

Price: \$6,000 – \$10,000

Contact: Amrit K. Das
(609) 983-5050

RESEARCH ENGINEERS, INC.
9003-D Greentree Commons
Marlton, NJ 08053

Steam

Operating System: UNIX

Keywords: • Chemical • Energy • Mechanical engineering

Steam, both a program and a FORTRAN subroutine set, enables an engineer to extract any thermodynamic property of water/steam without aid of a steam table manual. Some variables covered are saturation pressure, saturation temperature, enthalpy, density, heat of vaporization, viscosity, true specific heat, and thermal conductivity. Table values are calculated closely to those of the Kennan and Keys steam tables.

A version of this product is available for the VAX computer.

Price: \$500

Contact: Michael L. Bussler
(412) 661-2100

ALGOR INTERACTIVE SYSTEMS, INC.
Essex House, Suite L1, Essex Square
Pittsburgh, PA 15206

STRESS-11: A Structural Analysis Program

Operating System: RSX

Keywords: • Civil engineering • Structural engineering

Memory required: 64KB.

STRESS-11 is an engineering application program used to analyze forces, reactions, and displacements in structural designs. The program can be used to analyze building frames, bridge trusses, transmission towers, and floor systems. STRESS-11 requires no computer programming experience. Problem descriptions use engineering terms that are familiar to a structural engineer.

To use the package, the engineer describes a structure with a coordinate system that can be either 2- or 3-dimensional. The engineer assigns a joint number and joint coordinates to each joint in the structure, and a member number and member incidence identifies which two joints the member connects. The engineer then describes the physical properties of those members, the member and joint loads to be placed on the structure, and the support conditions for the structure.

With that information, the program can determine the joint displacements, joint reactions, and forces for the structure. DECUS number 11-613.

Note: Source code may require patching to run on versions other than RSX-11M V3.2. Release notes are shipped with each order.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

STRESS (Structural Engineering Solver)

Operating System: RSTS, RSX

Keywords: • Civil engineering

STRESS performs linear elastic analysis of statically loaded structures composed of prismatic members. STRESS solves for forces, reactions, and displacements, using the matrix stiffness method. The maximum structure size is 125 members and 250 joints.

A version of this product is available for the VAX computer.

Price: \$850

Contact: Robert E. Branch, P.E.

(800) 368-4203

TECHNICAL INFORMATION SYSTEMS, INC.

116 W. Plume Street, P.O. Box 1900

Norfolk, VA 23501

STRESSGEN

Operating System: RSX

Keywords: • Mathematics • Mechanical engineering

STRESSGEN is an interactive program that is extremely helpful to the user of STRESS-11 and STRUDL. The program permits the user, through question and answer, to generate finite element models of skeletal structures in both two and three dimensions. The program has two levels of generation for nodes and elements. Supported nodes, member properties, releases, and loading cases are also handled by the program. Element lengths are automatically computed for geometry checking purposes and material takeoff. The program contains extensive error-checking routines with clear diagnostic messages. Program output is a file ready to run on either STRESS-11 or STRUDL.

A version of this product is available for the VAX computer.

Price: \$300

Contact: Manny Velivasakis

(212) 889-3130

LEV ZETLIN ASSOCIATES, INC.

95 Madison Avenue

New York, NY 10016

Structural Member Analysis Programs

Operating System: RSX

Keywords: • Aeronautics/aerospace • CAD/CAM
• Civil engineering • Mechanical engineering

These general analysis FORTRAN programs for classical structural members with arbitrary mechanical or thermal loading are small, portable, efficient, and easy to use. The members can be of variable cross-section with any in-span supports, foundations, and boundary conditions. Composite cross-sections can be handled. The member can be modeled with either continuous or lumped mass. Static and steady-state displacements and forces, natural frequencies and mode shapes, and buckling loads are calculated. Pre- and postprocessors permitting interactive use of the programs are available. All the programs can be used in batch or interactive form with fixed, free, or prompted input formats.

- Beams: Deflection, slope, bending moment, shear force, buckling loads, frequencies, and mode shapes; can include bending, shear deformation, and rotary inertia effects
- Torsional systems: Angle of twist, twisting moment, and frequencies of shaft system
- Extension systems: Axial displacement, force, and natural frequencies
- Thick cylinder: Radial displacement, radial stress, tangential stress, and frequencies
- Torsion of thin-walled beams: Angles of twist, bimoments, warping shear, internal twisting, moments, unstable loads, and natural frequencies
- Sectional properties: Cross-sectional properties of a bar of any shape
- Stress analysis: The normal and shear stresses on the cross-section of a bar of any cross-sectional shape; the stresses include bending stresses, shear stress due to torsion and warping, shear stresses due to transverse loads, and normal stresses due to warping
- Rotating shafts: For a shaft with unbalance forces, calculation of the displacements, internal forces, and bearing forces; the critical speeds are found for damped or undamped shaft systems
- Circular plate: Deflection, slope, radial moment, shear transverse moment, twisting moments, and frequencies
- Rectangular plate: Static, steady state, stability, and free vibration
- Gridworks: Uniform grillages subjected to uniform, hydrostatic, and concentrated forces
- Disks: Radial displacement, radial force, tangential force, and frequencies

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: W. D. Pilkey
(804) 296-4906

STRUCTURAL MEMBERS USERS GROUP
P.O. Box 3958, University Station
Charlottesville, VA 22903

SUPER-COMPACT

Operating System: UNIX

Keywords: • CAD/CAM • Electronic • Signal processing

SUPER-COMPACT is the recognized industry standard in CAD for microwave circuit analysis, optimization, and synthesis. The program provides the necessary tools for choosing a design topology and active elements, synthesizing amplifier matching circuits, and optimizing complete circuits having as many as four external ports. Circuit elements include lumped, microstrip and stripline, filter, thin film, coupler, and active devices. The circuit analysis portion of SUPER-COMPACT features tabular and interactive CRT graphics. Mapping and variable-element analysis are also featured. Optimization features random and/or gradient methods, with performance criteria that can include combinations of parameters with noise and group delay characteristics. Circuits can be modified without exit from the program. Transistor and dielectric data banks provide for selection on a conversational basis. A Monte Carlo analysis feature can be used to predict manufactured-unit performance spreads. SUPER-COMPACT can be used with its companion program, AUTOART, to generate masks for Microwave Integrated Circuits (MICs).

A version of this product is available for the VAX computer.

Price: \$30,000 – \$80,000

Contact: Henry Wong
(415) 966-8440

COMPACT SOFTWARE/A COMSAT CO.
1131 San Antonio Road
Palo Alto, CA 94303

SUPERDRAW

Operating System: RSX

Keywords: • Graphics • Mapping

SUPERDRAW is a comprehensive 3-dimensional interactive model-displaying software system that reads data files from most finite element analysis programs — such as STRESS, STRUDL, TPS-10, and NASTRAN — and creates a model file. That model can then be displayed on a CRT, such as a VT100 with selenar board modifications, or an equivalent Tektronix CRT. The model can be rotated, scaled up or

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down, and segmented via the cross-hair cursor. Nodes and elements can be numbered. Deflected shape structures can also be displayed. The displayed model can then be sent to a plotter or a printer/plotter.

SUPERDRAW is extremely helpful to engineers in error checking and verifying finite element models.

The commands are in English, and extensive help features are available to the user at all levels.

A version of this product is available for the VAX computer.

Price: \$1,000

Contact: Manny Velivasakis
(212) 889-3130
LEV ZETLIN ASSOCIATES, INC.
95 Madison Avenue
New York, NY 10016

SUPERSAP

Operating System: UNIX

Keywords: • CAD/CAM • Graphics • Mathematics
• Mechanical engineering

SUPERSAP is a comprehensive finite element stress and dynamic analysis system for structural and mechanical engineers. SUPERSAP incorporates all parts of the finite element chain of events, from modeling and preprocessing through analysis and postprocessing. It is the only system needed for the finite element process and is easy to use. Thus, the power of finite element analysis is now available to a much wider range of engineers than in the past.

SUPERSAP is the ideal system for the beginning graduate engineer. The beginning engineer can "start with it and grow with it."

SUPERSAP is fully integrated with SUPERDRAW, Algor's computer-aided design and drafting system. SUPERSAP uses graphics and interactive graphics to a high degree to simplify modeling and analysis. Virtually any structure or mechanical part can be modeled and analyzed with SUPERSAP. Extensive capabilities exist for both civil and mechanical engineers.

Monthly rental is available.

A version of this product is available for the VAX computer.

Price: \$2,495 - \$36,810

Contact: Sales Manager
(412) 661-2100
ALGOR INTERACTIVE SYSTEMS, INC.
Essex House, Suite L1, Essex Square
Pittsburgh, PA 15206

SVD (Singular-Value Decomposition)

Operating System: CTS-300, RSX, RT-11, UNIX

Keywords: • Mathematics • Research • Simulation
• Statistics

SVD determines the singular-value decomposition of a real m by n matrix A . That includes the inverse, determinant and rank of A , if $m = n$, or the pseudoinverse and rank of A , if $m \neq n$.

This FORTRAN program comes either as a subroutine, for calling from a main program, or as a user-friendly stand-alone program, for interactive terminal use. The latter program uses free-format FORTRAN-77-type extensions for interactive I/O. Telephone demos are available.

A version of this product is available for the VAX computer.

Price: \$250 – \$500

Contact: Dr. Joseph J. DiStefano III, Professor
(213) 825-7482 or 825-4033

UNIVERSITY OF CALIFORNIA, LOS ANGELES
School of Engineering and Applied Science
Biocybernetics Laboratory, 4731K Boelter Hall
Los Angeles, CA 90024

SYNOPSIS (Synthesis of Optical Systems)

Operating System: UNIX

Keywords: • Graphics • Mathematics • Report writer
• Scientific

SYNOPSIS is a state-of-the-art computer program for the design and evaluation of complex optical systems containing lenses, mirrors, and prisms. SYNOPSIS is intended to satisfy the needs of modern optical designers and engineers by providing them with the best of currently available technology.

SYNOPSIS is:

- **Cost effective:** The optimization program uses the exclusive PSD algorithm, which gives faster convergence than most DLS programs — in some cases an order of magnitude faster.
- **Flexible:** The user can create a custom merit function giving powerful control over specific details of a lens at the lowest possible cost. The multiconfiguration feature will design lenses with moving components, common modules, and either optical or mechanically compensated zooms.
- **Complete:** SYNOPSIS contains all the features a designer is likely to need, including image analysis, tolerancing, comprehensive utilities, and an extensive array of report-ready graphics.
- **Easy to learn:** SYNOPSIS is simple to master. Users can expect to start getting useful results the first day.

A version of this product is available for the VAX computer.

Price: \$1,200/mo

Contact: Donald C. Dilworth
(617) 488-3099

OPTICAL SYSTEMS DESIGN, INC.
3 Johnson Avenue
Medford, MA 02155

TABVAP (Water and Steam Table)

Operating System: CTS-300, RSX, RT-11

Keywords: • Chemical • Mechanical engineering • Scientific

TABVAP is a set of FORTRAN functions describing the properties of water and steam. The equation set used is the version accepted by the members of the Sixth International Conference on the properties of steam, under the title "The 1967 IFC Formulation for Industrial Use." The programs are applicable for regions 1, 2, and 6 defined by the IFC.

- TK: Saturation temperature for a given pressure
- BK: Saturation pressure for a given temperature
- HVAP: Enthalpy for a given pressure temperature and water rate
- TVAP: Temperature for a given pressure and enthalpy
- SVAP: Entropy for a given pressure temperature and dryness fraction
- TITRE: Dryness fraction for a given pressure and temperature
- TFNTR: Temperature for a given pressure and entropy
- STITR: Dryness fraction for a given pressure and entropy

Precision of all results is compatible with the International Skeleton Table 1963.

Price: \$3,000

Contact: Willy Claes
0415 61130

CENTRE DES TECHNOLOGIES NOUVELLES
Domaine du Sart Tilman, B26
B-4000 Liege
Belgium

TPS-10 Finite Element System

Operating System: RSX

Keywords: • Mathematics • Mechanical engineering
• Signal processing

TPS-10 is a general-purpose finite element analysis program with capabilities including linear statics, material nonlinearities and large displacements, dynamic response, heat transfer, and acoustics. Sub-structure analysis may be performed in conjunction with structural, heat transfer, and acoustics problems.

The finite element library for TPS-10 includes beams (with optional offsets); triangular and quadrilateral membranes, plates, and axisymmetric rings (3 or 4 nodes); isoparametric, triangular and quadrilateral membranes, plates, and axisymmetric rings (6 or 8 nodes); solids — tetrahedron, wedge, and brick (4, 6, and 8 nodes); and isoparametric solids — tetrahedron, wedge, and brick (10, 15, and 20 nodes).

Loading in TPS-10 may consist of concentrated or distributed forces, pressures, temperatures, accelerations, and centrifugal loads. Factor-and-add combinations of load cases may be used to obtain design loads. In the case of axisymmetric models, nonsymmetric loading may also be applied. Many boundary condition specifications are available, including gaps and sliding friction.

Input to TPS-10 may be prepared in either free or fixed format. Automated data stringing and mesh generation are included to reduce manpower requirements for input. The model data may be checked graphically, and output may also be plotted. Output plots include the deformed structure and contours of stress, displacement, or temperature.

A version of this product is available for the VAX computer.

Price: \$12,000 – \$20,000

Contact: Manny Velivasakis
(212) 889-3130

LEV ZETLIN ASSOCIATES, INC.
95 Madison Avenue
New York, NY 10016

UDAP (Urban Drainage Analysis Package)

Operating System: RSTS

Keywords: • Civil engineering

UDAP performs hydraulic analysis of classical urban storm-water pipe systems. Input data consists of size, shape, material, inverts, time of concentration, inlet area, runoff coefficients, and so forth. The output consists of relevant input data plus flow, velocity, and hydraulic grade line from each pipe in the system. A system with up to 1,000 pipes can be analyzed.

A version of this product is available for the VAX computer.

Price: \$2,500

Contact: Robert E. Branch, P.E.
(800) 368-4203

TECHNICAL INFORMATION SYSTEMS, INC.
116 W. Plume Street, P.O. Box 1900
Norfolk, VA 23501

VANGO

Operating System: RSTS

Keywords: • CAD/CAM • Civil engineering • Graphics
• Mapping

VANGO is an easy-to-use interactive computer-aided design and drafting system for surveying, mapping, land development, civil engineering, and geographically based information. The system provides a tool for calculation, data management, and automated drafting, beginning with the boundary survey and proceeding through each phase of the project to final drawings.

VANGO performs the tedious, error-prone calculations typically involved in land planning. At each step of the design process, computer-plotted drawings may be generated to show the current project status. Drafting on a high-speed plotter ensures clearer, more accurate drawings and reduces the time required to produce them. Changes in design criteria are easily accommodated, since new drawings may be plotted on demand.

A key component of the VANGO software is its unique integrated data structure. The data created at each step is preserved and fully utilized in all successive steps. Furthermore, the data for all active projects is maintained on line and is instantly accessible by all users.

The VANGO Digital Terrain Model (DTM) optional earthwork module is a highly advanced earthwork computational system based on Digital Terrain Models of the existing topography and of the design grades. Volumes are computer-based on a cell that is typically a 1/8-inch square at plan scale. Elevation interpolation for determining the cell elevations from the random data is performed 2-dimensionally rather than the more typical linear interpolation. Hence, accuracy of results does not depend on defining special features. The module is fully integrated with VANGO.

The VANGO DTM Highway module, fully integrated with the DTM Earthwork module, permits passing any number of cross-section templates, each following its own alignment and profile through the Digital Terrain Model. The templates as well as the side slopes may change at any station and can represent a highway, transportation corridor, channel, or rail line. Since existing terrain cross-sections along the proposed route are not required, this module is ideal for studies requiring analysis of several alternate routes or several iterations of a chosen route. Profiles, daylight lines (catch points), cross-sections, mass, and haul diagrams are very quickly generated for each iteration of alignment and profile, enabling an optimum route to be established.

A version of this product is available for the VAX computer.

Price: \$20,000 – \$85,000

Contact: Charles Oliver
(714) 966-8855
VLSYSTEMS, INC.
17801 Cartwright Road
Irvine, CA 92714

VIBTOR (Vibration/Torsion)

Operating System: RSX

Keywords: • Mechanical engineering • Scientific

This package is applicable whenever torsion vibrations propagate in a mechanical transmission system. VIBTOR determines the maximum amplitude of the torque along a multibranch transmission, activated by a diesel or similar alternative engine.

The package consists of four modules:

- The System Description Module allows the ordered entry of the data describing the multibranch system through its parameters set: flexibility of the axes, inertia of rotating masses geometry, and so on. The model can also handle one component with nonlinear characteristics.
- The Eigen-Values Calculation Module provides an accelerated method of evaluating the eigenvalues and eigenfrequencies of the undamped system described by module 1.
- The Amplitude Calculation Module estimates the maximum amplitudes of the torsion vibration torques at the eigenfrequencies and at various harmonic frequencies of the engine torque (from .5 to 12). The prescriptions of the Lloyd's Register of Shipping are observed.
- The Output Module displays a tabulated or graphical output of the results, with an indication of those critical points where the maximum admissible torque is exceeded.

Price: \$6,000

Contact: Willy Claes
0415 61130
CENTRE DES TECHNOLOGIES NOUVELLES
Domaine du Sart Tilman, B26
B-4000 Liege
Belgium

WATDIS (Water Distribution Analysis)

Operating System: RSTS, RSX

Keywords: • Civil engineering

WATDIS analyzes water distribution systems. Any type of pipe system can be analyzed. Pressure or flow requirements can be specified, and any number of storage tanks, pumps, valves, meters, and fittings can be input. Pumps can be specified by useful power or by inputting head flow data from operating curves. Check valves may be used also. Flow

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units of CRS, GPM, MGD, or SI are acceptable. Output includes pressures, elevations, and grade lines at all junctions; head losses in lines and at all valves; and pump heads, flow rates, and flow velocities. WATDIS is limited to 1,500 pipes.

WATDIS is the PDP-11 and VAX-11 conversion of the University of Kentucky water distribution analysis software.

A version of this product is available for the VAX computer.

Price: \$1,200

Contact: Robert E. Branch, P.E.
(800) 368-4203

TECHNICAL INFORMATION SYSTEMS, INC.
116 W. Plume Street, P.O. Box 1900
Norfolk, VA 23501

WENTHL, WTABLE

Operating System: UNIX

Keywords: • Civil engineering • Energy
• Mechanical engineering

WENTHL returns the enthalpy of water in any phase as a function of temperature and pressure. WTABLE is a complete FORTRAN subroutine set of steam table functions. All table values are returned very close to those of the Keenan and Keys tables. The subroutines can be linked into the end user's own FORTRAN program for heat transfer, heat exchanger, boiler analysis, or heat balance calculations.

Functions include:

- Saturation pressure as a function of temperature
- Saturation temperature as a function of pressure
- Enthalpy of superheated steam as a function of pressure and temperature
- Enthalpy of liquid water as a function of pressure and temperature
- Enthalpy of saturated liquid as a function of pressure
- Density of saturated liquid as a function of pressure
- Enthalpy of saturated steam as a function of pressure
- Density of saturated steam as a function of pressure
- Density of superheated steam as a function of pressure and temperature
- Heat of vaporization as a function of pressure
- Viscosity of liquid water as a function of temperature
- Viscosity of superheated steam as a function of pressure and temperature
- True specific heat of liquid as a function of temperature
- True specific heat of superheated steam as a function of pressure and temperature

- Thermal conductivity of liquid as a function of temperature
- Thermal conductivity of superheated steam as a function of pressure and temperature
- Temperature of liquid water as a function of pressure and enthalpy

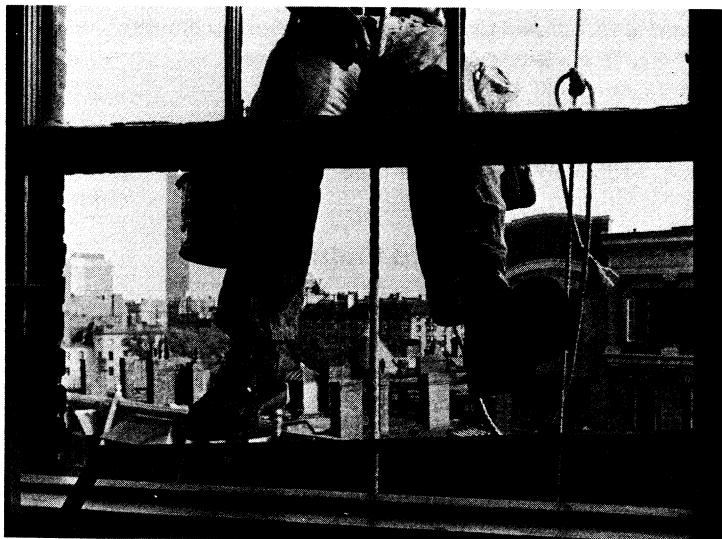
A version of this product is available for the VAX computer.

Price: \$500

Contact: Sales Manager
(412) 661-2100

ALGOR INTERACTIVE SYSTEMS, INC.
Essex House, Suite L1, Essex Square
Pittsburgh, PA 15206

Facilities Management



Cary Wolinsky/Stock, Boston

Access Control

Operating System: ULTRIX, UNIX

Keywords: • Security

The system, designed as a high-volume, high-capacity, fast-response access control system, supports multiple, local, or remote control consoles with optional printers and also provides for 1,000 individual doors and up to 56,000 badges. The system has three levels of validation and two sets of access parameters for each badge and accepts input from numeric touch pads in conjunction with badge reader input. The system processes lost badges, allows for self-expiring badges, and includes guard door open, automatic lock and unlock, door ajar, day of week override, bulk card input, and many management reports.

A version of this product is available for the VAX computer.

Price: \$10,000 – \$80,000

Contact: Laurel McDaniel
(312) 332-3242

NEAL NELSON & ASSOCIATES
185 N. Wabash, Suite 1908
Chicago, IL 60601

APC (Automatic Password Changer)

Operating System: RSTS

Keywords: • Operations • Project management
• Report writer • Security

APC automatically changes passwords routinely and quickly for selected accounts, using passwords obtained from an encrypted password file, and prints a report showing old and new passwords. Three reports can be printed with various other items of information on user accounts. Passwords are obtained from either a 6-character English or a 6-character alphanumeric-encrypted 3,000-word dictionary.

APC runs from off-line media and removes all traces of itself when processing is completed. An account maintenance function is included to maintain a file that contains descriptive information on the user accounts. The system offers easy maintenance of passwords for system managers.

Price: \$350

Contact: Neal J. Anderson
(414) 784-8250

MCHUGH, FREEMAN AND ASSOCIATES, INC.
1135 Legion Drive, P.O. Box 454
Elm Grove, WI 53122

Building/Energy Management System (Kernel) — System 600

Operating System: RSX

Keywords: • Data collection • Electrical • Energy
• Graphics

This program is a group of tasks that provide monitoring, control, and man/machine interface requirements of a building automation system. Included are all data base, communication, MMI, graphics, and data manipulation tasks necessary to provide supervisory control of building electrical and HVAC functions. Also included are tasks to accomplish various energy and building management functions, using data acquisition hardware manufactured by MCC Powers.

Price: \$20,000

Contact: John L. Cecilia, Manager, Automation Product Marketing
(312) 272-9555

MCC POWERS
2942 MacArthur Boulevard
Northbrook, IL 60062

Color Trend Plot — System 600

Operating System: RSX

Keywords: • Assemblers • Compilers • Electrical • Energy

This package is designed to run with MCC Powers System 600 kernel to display trended data as an X-Y plot by use of a single command.

Price: \$4,000

Contact: John L. Cecilia, Manager, Automation Product Marketing
(312) 272-9555

MCC POWERS
2942 MacArthur Boulevard
Northbrook, IL 60062

DDC/PPCL Compiler — System 600

Operating System: RSX

Keywords: • Assemblers • Compilers • Energy
• Text management

This package provides capabilities for editing, compiling, and communicating a proprietary process control language (Powers Process Control Language), designed for use with data acquisition and HVAC control hardware manufactured by MCC Powers.

Price: \$15,000

Contact: John L. Cecilia, Manager, Automation Product Marketing
(312) 272-9555

MCC POWERS
2942 MacArthur Boulevard
Northbrook, IL 60062

Duty Cycling — System 600

Operating System: RSX

Keywords: • Electrical • Energy

This package is designed to run with the MCC Powers System 600 kernel to monitor and control run time of a building's mechanical and electrical devices, cycling such devices to reduce energy use while maintaining temperature conditions in the building.

Price: \$2,000

Contact: John L. Cecilia, Manager, Automation Product Marketing
(312) 272-9555

MCC POWERS
2942 MacArthur Boulevard
Northbrook, IL 60062

Facilities Manager

Operating System: UNIX

Keywords: • Financial planning • Graphics • Operations
• Statistics

The Facilities Manager software module deals with all the personnel and physical resources and their attributes that exist throughout the corporate facilities. The module allows for comprehensive inventories of space, people, equipment, furniture, and real estate to be maintained, reported on, and tracked, as well as provides historical summaries of changes to current conditions as they are made.

The intent of Facilities Manager is twofold. First, it provides a corporate facilities data base that can be accessed to report on current allocations, costs, use operations, and suitability. Second, it provides that data for both the Space Planning and Forecasting software modules, which provide the user with an up-to-date basis for planning.

The information in Facilities Manager is graphic, in the form of organization, listings, allocations, economics, densities, conditions, and descriptions. The comprehensiveness of the data base provides decision support and information for many corporate functions, including real estate, facilities management, personnel, furniture and equipment purchasing, operations, and strategic and space planning.

The information that Facilities Manager handles and reports that can be generated include:

- Building and floor allocations and department allocations with organizational matrix
- Personnel listings and allocations
- Furniture and equipment inventories and locations
- Shared, common, or special spaces
- Real estate costs (rent, amortization, chargebacks)
- Historical summaries of trends
- Building conditions

- Functionality and variations from corporate standards
- Workplace distributions

Price: \$22,000

Contact: Ron Kramer
(617) 897-6350
RESOURCE DYNAMICS, INC.
118 Great Road
Stow, MA 01775

File Transfer System

Operating System: CTS-300, RSTS, RT-11

Keywords: • Data conversion • File transfer

This system is used to transmit files between DIGITAL data systems. Data system 300s and 500s can be used on either end. The files are transmitted in a packet-oriented mode. Each packet has a packet number and a longitudinal parity check. As a result, packets with communications errors are automatically retired. After the loss of the communications line, the system can, once reestablished, take up where it left off. All types of files may be sent — source, object, and data (including ISAM files). The system also does data compression of all strings of the same character. As the system is 100% DIBOL, it may be run in any DIBOL environment, including the TSD environment.

Two programs are included: LOCALT and REMOTE. LOCALT is the transmitter, and REMOTE is the receiver program.

Price: Available upon request.

Contact: Ruth K. Koolish
(312) 724-9280
HARTLEY DATA SERVICE, INC.
1807 Glenview Road
Glenview, IL 60025

Level IV System

Operating System: RSX

Keywords: • Banking • Security • Warehousing

Level IV System is an integration of hardware and software that provides card access, critical-point monitoring, and output control. The system operates in real time to perform the following security and control functions: monitor and control equipment; count total events; perform functions based on time, events, or manual commands; provide access control; selectively log events and store historical trend data; and generate data base and historical reports.

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Price: \$9,500 – \$35,000

Contact: Thana Hallick
(414) 281-0503

NATIONAL CONTROL SYSTEMS, INC.
9880 South Ridgeview Drive
Oak Creek, WI 53154

LOGOUT: RSX-11 Remote Terminal Logout

Operating System: RSX

Keywords: • Operations • Security

LOGOUT is an RSX-11M task that allows the user to log out a specific terminal by specifying its TT: unit number. LOGOUT is password protected to prevent against unauthorized use. DECUS number 11-544.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

Mainstay®

Operating System: RSX

Keywords: • Cost accounting • Inventory • Maintenance
• Purchasing

This comprehensive software package provides total command of all the elements that together determine the efficiency level of any maintenance operation. Mainstay was designed for large plant environments, including chemical and process industries, large manufacturing and assembly facilities, and utilities.

Mainstay is functionally modular. The system supports work order generation, planned maintenance, equipment identification and history, inventory control, purchasing, resource control and allocation, employee work assignment and accounting, and cost accounting.

All components of the system are on line and provide the user with data reflecting an activity's present operational status. Mainstay's data base management system produces current, timely, and accurate information; once data has been entered into the system, multiple users can have immediate access to the same version of the requested information.

A version of this product is available for the VAX computer.

Price: \$85,000 – \$110,000

Contact: Larry DeFrance
(615) 366-1979

MORROW COMPUTER AND ELECTRONIC
DESIGN, INC.
1140 Murfreesboro Road
Nashville, TN 37217

MAINSY—IMPRS Preventive Maintenance System

Operating System: RSTS, RSX, RT-11

Keywords: • Cost accounting • Maintenance • Scheduling

MAINSY—IMPRS schedules preventive maintenance and maintains complete historical summary information. Any type of maintenance schedule may be set up — on a daily, weekly, monthly, quarterly, semi-annual, or annual basis. Schedules may be selected for printing by frequency, by cutoff date, or by PM number. Summary schedules may be printed, or the full schedule (with text) may be printed.

The system has complete data verification and on-line validation capabilities. Job costing information is applied via on-line timecard entry. A full year's PM historical information is kept on line. Instant access is available to all master files for selective reporting.

A version of this product is available for the VAX computer.

Price: \$2,500

Contact: Forrest E. Weddle
(913) 782-8544
RUF CORP.
1533 E. Spruce
Olathe, KS 66061

Maintenance Management — System 600

Operating System: RSX

Keywords: • Inventory • Maintenance
• Property management • Scheduling

This comprehensive software package is available either as a stand-alone system or as an application routine for the MCC Powers System 600 Building Management System. S600/Maintenance Management automatically schedules and generates work orders, tracks historical information on maintenance performed, controls inventory, and provides a comprehensive set of reports to help the user manage the maintenance function more efficiently.

This system is designed to enable building managers and owners to schedule maintenance. The system also allows them to keep records of labor and material used and an inventory of maintenance parts and supplies.

Price: \$15,000 – \$20,000

Contact: John Cecilia, Manager, Automation Product Marketing
(312) 272-9555
MCC POWERS
2942 MacArthur Boulevard
Northbrook, IL 60062

Maintenance Management System

Operating System: RSTS, RSX, RT-11, TSX-PLUS

Keywords: • Cost accounting • Decision support
• Maintenance • Property management

The Maintenance Management System is a comprehensive application software package for managing and controlling preventive (PM) and repair maintenance of physical plants and equipment. The system handles manpower planning, work order scheduling and tracking, and cost accounting more quickly and effectively and with less paperwork than manual methods do. Individual users can customize the system with system codes that define maintenance locations or zones, crafts or shops, work order types, project or account numbers, and types of measurements.

Complete, accurate, and readable PM work orders are printed automatically in advance of a given calendar period from task descriptions and schedules. Unscheduled work orders are entered into the system manually. Uncompleted work appears on a backlog report until the work order is either completed or canceled. Management can determine the causes for uncompleted work and take appropriate action. The system guards against work order pileup. New work orders are not produced for previously scheduled tasks until the tasks are completed.

A permanent history of repairs and inspections performed on equipment is stored and is available to aid in making repair or replace decisions. That history also provides documentation for safety, legal, or insurance compliance.

The system provides a means of scheduling and reporting equipment performance measurements. Parameters such as operating temperature, motor current, and filter pressure readings are compared with established normals to indicate the need for adjustment, repair, or replacement of equipment.

An equipment cross-reference list provides a powerful tool for organizing the user's inventory of capital equipment by equipment type, manufacturer, or location. That list also assists in developing a standard routine preventive maintenance schedule for similar types of equipment.

A labor summary report, produced automatically as a by-product of handling daily work, gives management important information on the relative efficiency of each maintenance craft or shop by reporting both the type and the amount of work done by each craft. The report compares both the number of work orders and labor hours scheduled with the actual number of work orders and labor-completed hours expended.

The cost center report enables management to allocate or charge back the cost of maintenance labor and materials to specific departments or projects. The report is also useful in documenting manpower requirements.

Work logs are automatically produced to schedule and control routine equipment maintenance procedures with less paperwork than individually printed work orders. Routine work is expedited, since the logs group similar tasks to be performed on equipment within a specific geographic zone or location.

The system consists of approximately 70 application program modules written in 1974 ANSI Standard COBOL. A COBOL run-time system is provided for RT-11 systems. A COBOL compiler is required for RSTS, RSX-11M, and VMS systems.

A version of this product is available for the VAX computer.

Price: \$15,000

Contact: Tom Coleman, Systems Manager
(616) 676-2666
FAIRBROTHER CORP.
6090 E. Fulton, P.O. Box 211
Ada, MI 49301

Peak Demand Limiting — System 600

Operating System: RSX

Keywords: • Electrical • Energy

This package is designed to run with the MCC Powers System 600 kernel to monitor and control electrical demand charges and to minimize electric utility charges.

Price: \$2,000

Contact: John L. Cecilia, Manager, Automation Product Marketing
(312) 272-9555
MCC POWERS
2942 MacArthur Boulevard
Northbrook, IL 60062

PROMIS (Process Management Information System)

Operating System: RSX

Keywords: • CAD/CAM • Process control • Quality control

PROMIS is a complete computer-aided engineering and production system for semiconductor manufacturers. It provides process and recipe management, production and inventory planning and control, routing and tracking of work in process, production reporting, facilities monitoring and control, and direct automated interfaces using SECS protocols to production and test equipment.

Engineering analysis tools include frequency distribution reports for engineering data, trend reports, correlation plots, performance charts, initialization reports, scatter plots, control charts, and facilities history plots. The production and inventory control system includes production scheduling, capacity planning and control, material planning and control, work center loading, priority planning and control of work in process, inventory control, and standard costing.

What-if simulation allows users to predict the effects of proposed changes in product mix, required completion dates, expected yields, equipment capacity, standard lead times, overtime, number of shifts, and so on.

Reports are provided on planned versus actual completions, forecast versus planned completions, work in process, inventory, production activity, performance to schedule, throughput performance, yield variances, reworks, rejects, slow-moving lots, equipment availability, equipment usage, facility sensor current readings and limits, off-normal summaries, lot history analyses, and so forth.

A version of this product is available for the VAX computer.

Price: \$70,000 – \$350,000

Contact: Doug Scott
(416) 364-5361

I. P. SHARP ASSOCIATES LTD.
2 First Canadian Place, Suite 1900
Toronto, Ontario M5X 1E3
Canada

RESPOND

Operating System: RSTS

Keywords: • Operations • Statistics

The RESPOND performance evaluation and tuning package gives the RSTS/E system manager the facts needed to solve a performance problem. RESPOND captures the important tuning and jobs-related information available from RSTS/E. RESPOND's comprehensive reports and inquiries provide a clear understanding of the performance characteristics of the computer system. RESPOND identifies critical resources and highlights areas where tuning can make the system more productive. RESPOND lets the system manager know whether to adjust system-level parameters, optimize selected application programs, or purchase additional hardware to increase performance.

RESPOND is more than a tuning aid. RESPOND captures a complete history of what happens on the system. RESPOND knows who did what, when, and from what keyboard. RESPOND monitors resources used by each user and program.

Price: \$2,250

Contact: Gary Vowels
(206) 285-3260
MANUS SERVICES CORP.
1700 Westlake Avenue North
Seattle, WA 98109

RSX-11M Programmable Reader System

Operating System: RSX

Keywords: • Personnel • Real time • Security

This software package, allowing the integration of the NCS family of programmable readers with a PDP-11 minicomputer operating under RSX-11M and requiring only 600 disk blocks for tasks and data base, is a cost-effective means of providing a sophisticated access control security system without the use of a dedicated computer.

The system features:

- Support for up to 16 NCS programmable reader packages, 2,000 card holders that may be loaded into any or all NCS programmable readers, and 8 binary input ports for alarming
- On-line editing and reports of system data bases
- User-defined descriptors for card holders, readers, and point identifiers used with event logging and reports
- Operator commanding of binary output points
- System transactions logged to a dedicated terminal or to a text file
- Historical data retention of system transactions, which user-written routines may access for other applications
- Sources and documentation

Price: \$1,250 – \$1,500

Contact: Steve Klebar, Software Manager
(414) 281-0503
NATIONAL CONTROL SYSTEMS, INC.
9880 S. Ridgeview Drive
Oak Creek, WI 53154

SABA (Stacking and Blocking Algorithm)

Operating System: RSX

Keywords: • Architecture • CAD/CAM • Graphics
• Property management

SABA provides space planners with powerful, easy-to-use tools for producing locational stacking plans and schematic block floor plan layouts for buildings. The SABA systems reliably produce high-quality solutions to both large and small problems, at relatively moderate cost for data preparation and computer processing.

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The Stacking Plan Program takes as input a list of spaces, workstations, or departments to be located in a building or buildings, together with their required areas, their adjacency/communication requirements, and a description of the floors into which they are to be placed. The system's objective is to assign activities (spaces, workstations, departments, and so on) to zones (buildings, floors, and so on) in such a way that highly interrelated activities are placed onto the same or adjacent zones and intrazone circulation is minimized. Output is a printed list of the activities assigned to each zone, which resembles a "section" of the building, showing all occupancies and their areas used.

The Block Plan Program takes a similar list of activities, areas, and interaction requirements. In addition, it utilizes a plan description of the available floor area onto which the requirements are to be laid out. The objective is to place activities onto the floor in such a way that highly interrelated activities are located close together. Zones, preassignments, and fixed elements in the plan can also be taken into consideration. Output is a plan of the floor, with all activities located — either printed, utilizing line printer "character graphics," or plotted on a graphic plotter.

A version of this product is available for the VAX computer.

Price: \$9,500 – \$14,500

Contact: Thomas Kvan
(213) 392-4183

THE COMPUTER-AIDED DESIGN GROUP
2407 Main Street
Santa Monica, CA 90405

Screenshare-11 (Terminal Monitoring and Sharing Utility)

Operating System: RSX

Keywords: • Operations • Security

Screenshare-11 is a quick and easy way to view activity at any terminal in your system. The Screenshare software package mirrors the input and output of a user's terminal right at your terminal, letting you see what is on any user's screen.

A simple command lets you be a silent observer or an active participant at any work session or demonstration.

Screenshare is invaluable for user assistance, demonstrations, supervision, monitoring, or session logging.

Price: \$1,250

Contact: Ross Amann, Vice President
(212) 695-5001

RGTI SYSTEMS SOFTWARE
One Penn Plaza
New York, NY 10001

SESAM-11 (Security/Access Control System)

Operating System: RSX

Keywords: • Personnel • Property management • Real time
• Security

SESAM-11 controls entry to facilities by regulating locking devices. Multiple levels of security, from simple identity check to privileged access, can be implemented. The intelligent terminals used to regulate the locking devices have battery backup and will continue to function even if separated from the host.

SESAM-11 can be combined with TEMPUS-11, the time and attendance system, to add security access control to real-time personnel information. TEMPUS-11 records work-force status and provides continuous input to cost centers while SESAM-11 guards access to restricted areas. SESAM-11, with its convenient credit card-like identity check, can screen personnel quickly and efficiently. Where more restrictive access is necessary, SESAM-11 can require knowledge of unique codes in order to gain entry.

The recording of all attempts at unauthorized entry, as well as a full record of all access by identity card and time, can provide a security manager with indicators of potential deficiencies in the security system. Reliable equipment and efficient software can accomplish the routine repetitious screening and checking, freeing security personnel to concentrate on enforcement, information, and interpersonal activities.

A version of this product is available for the VAX computer.

Price: \$12,550 – \$19,975

Contact: Robert L. Hirtle
(904) 433-7578

ATS DATA PROCESSING, INC.
1101 North 9th Avenue
Pensacola, FL 32501

SPS (Space Planning System)

Operating System: UNIX

Keywords: • Financial analysis • Graphics
• Property management • Real estate

SPS, a color graphic space planning package, provides the capability of developing general and detailed planning. The graphic methodology includes the creation of a graphic symbol library consistent with corporate space standards, as well as for all special or repetitive conditions, or the use of generalized block-type allocation methods for overall layout. Although the system can support the most detailed level of drawing, SPS is fundamentally oriented at planning disciplines in order to maximize management's decision capabilities. SPS allows the creation of drawings that display information on current conditions and future requirements as well as functional adjacencies in order to give the

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planner and management the specific tools needed to graphically access current conditions rapidly, compare alternatives, and advise on the economic impact of each — quickly and accurately.

Hard copy color drawings can be created from the information that SPS uses and that the color graphic workstation displays.

SPS features include:

- Building plans
- Graphic block allocations of rental/occupancy plans by organizational unit
- Text placement
- Standards-based furniture and office layouts
- Mechanical, electrical, and telephone diagrammed layouts
- Functional adjacencies displayed in stack, block, and floor planning
- Cross-sectional (building stack) plans
- Graphic symbols generation for architectural and furniture components
- Economic analysis of graphic symbols and space standards attribute data
- Equipment-catalog items and identifications
- Gross, rentable, usable, allocations, and block calculations
- Multiple-drawing layering capabilities
- Departmental space allocation reports in stack and block planning

Price: \$33,000

Contact: Ron Kramer
(617) 897-6350
RESOURCE DYNAMICS, INC.
118 Great Road
Stow, MA 01775

Start/Stop Time Optimization — System 600

Operating System: RSX

Keywords: • Electrical • Energy • Scheduling

This package is designed to run in conjunction with the MCC Powers System 600 kernel to adjust the daily start and stop schedules of major mechanical equipment in buildings and to compensate for changes in internal and external building loads.

Price: \$2,500

Contact: John L. Cecilia, Manager, Automation Product Marketing
(312) 272-9555
MCC POWERS
2942 MacArthur Boulevard
Northbrook, IL 60062

UNI (User Needs Information)

Operating System: RSX

Keywords: • Architecture • CAD/CAM • Data collection
• Programming tools

The UNI system is a set of procedures and computer programs that collect and manage information about group space for architectural or interior projects.

Questionnaires and interview forms are the tools used to solicit a manager's knowledge of needs for personnel, equipment, and support spaces both current and projected. UNI manipulates square-footage data based on the information gathered on the forms. Reports are generated by the computer, providing the designer with a detailed analysis of each group's square footage needs as well as summaries for the complete project.

UNI is a general programming tool for use in preparing the analysis of client needs. UNI can be used at a general level for building sizing and area projections. At a detailed level, UNI is used for determining criteria for interior planning. The program is particularly powerful for facility programming with repetitive elements — for example, offices, medical facilities, hotels, dormitories, educational facilities, laboratories, and multiple-tenant residencies.

UNI can provide three broad categories of information related to the needs of a project:

- Personnel, equipment, and space requirements projections
- Special characteristics (attributes of items within the space program)
- Adjacency data for groups

UNI establishes space requirements over points in time at which the information is desired. Plan dates are usually set to coincide with an organization's expansion and development milestones.

UNI's information can automatically be passed in machine-readable form for use by The Computer-Aided Design Group's STACKing and BLOCK Plan programs (SABA).

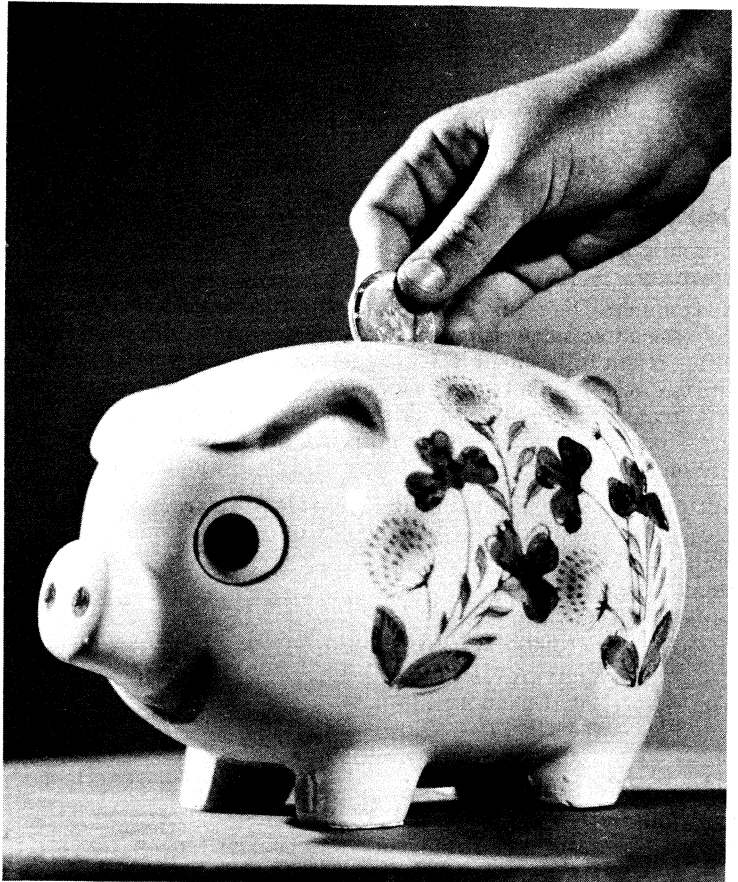
A version of this product is available for the VAX computer.

Price: \$2,500 – \$19,500

Contact: Thomas Kvan
(213) 392-4183

THE COMPUTER-AIDED DESIGN GROUP
2407 Main Street
Santa Monica, CA 90405

Financial Management



1040 Tax Planner

Operating System: CTS-300, RSTS, RSX, TSX-PLUS

Keywords: • Financial analysis • Financial planning • Taxes

The 1040 Tax Planner is a comprehensive planning tool for estimating the current year's taxes and projecting taxes for the next three years. The system is programmed to account for legislated changes in the tax laws in future years and allows the preparer to determine the present value of alternative tax situations. The system computes the regular tax, income averaging, alternative minimum tax, self-employment tax, and savings over regular tax. The capability of preparing extensions (Form 4868) is also provided. Data-Tax Planner software is also fully integrated with the Data-Tax 1040 Tax System.

Price: \$395

Contact: Scott Stearns
(312) 369-2414
DATA-TAX, INC.
710 E. Ogden Avenue
Naperville, IL 60540

1040 Tax System

Operating System: CTS-300, RSTS, RSX, TSX-PLUS

Keywords: • Taxes

The complete Data-Tax 1040 Tax System prepares 35 federal schedules, associated supporting schedules, recap reports, diagnostics, office billing, client bills, client letters, labels, and as many as 23 integrated state tax systems. Software includes a depreciation system with automatic transfer to the appropriate schedule(s). Pro forma information prints on the actual preparer interview/input sheets. All schedules print on government-approved preprinted continuous forms.

Multiple workstation capabilities, variable file sizes, user-defined file locations, and so forth, give you the flexibility of customizing this system to best meet your office needs.

Price: \$1,395 +

Contact: Ken Stvan
(312) 369-2414
DATA-TAX, INC.
710 E. Ogden Avenue
Naperville, IL 60540

1040 Tax System

Operating System: CTS-300, RSX, RT-11

Keywords: • Financial analysis • Report writer • Taxes

The on-line multiple-terminal 1040 Tax System prepares federal income tax forms, related schedules, and selected state income tax routines. The features include:

- Preprinted or computer-generated forms and overlays
- Automatic pro forma generation
- Taxpayer systemizer
- Interview sheets corresponding to federal forms
- Complete diagnostics
- Transmittal letter
- Selected state tax routines (31 states)
- Automatic taxpayer billing computation
- Multiple-terminal and remote-terminal operation
- Automatic update of state return from federal return
- Exclusive "password" security system
- Fast retrieval of taxpayer interview, facilitating individual additions, corrections, and returns

A version of this product is available for the VAX computer.

Price: \$4,000

Contact: Bob Sprowls
(904) 434-2685

DIGITAL SYSTEMS OF FLORIDA, INC.
114 E. Gregory Street
Pensacola, FL 32501

ACCESS (Accounting Essentials for Financial Institutions)

Operating System: CTS-300, RSTS

Keywords: • Accounting • Banking • Cost accounting
• Word processing

ACCESS, a complete in-house electronic data processing system, provides:

- A management tool for any size financial institution
- Automatic preparation of past-due notices and reports
- Automatic preparation of maturity notices and reports
- Payoff figures, stop pay, account hold orders, and call statements
- Float, cost-of-money, and interest analyses
- An interface to proof machines with industry-compatible diskettes or NCR cassette
- Increased clerical efficiency
- Reduction in paperwork, thereby reducing costs
- An easily operated system for personnel
- Confidentiality and security
- Minimal use of special forms and report sizes to reduce costs and complications

A version of this product is available for the VAX computer.

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Price: \$55,000 – \$250,000

Contact: Steve Nau, President
(417) 881-5057

SPRINGFIELD COMPUTER CONSULTANTS, INC.
1949 East Sunshine, Suite 2-116
Springfield, MO 65804

AMS (Asset Management Client Reporting System)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounting • Data entry • General ledger

AMS is an on-line asset/portfolio investment management system with a fully integrated general ledger to facilitate effective management and full entity reporting (financial statements and investment review). The system performs five basic functions:

- Recording is done through the entry, processing, and posting of capital and income transactions.
- Control is provided by transaction and investment registers, cash statements, income-due reports, and inquiry routines. Every entry to the system produces a complete audit trail.
- Internal/external reporting is presented by investment summaries, income summary reports, transaction statements, and financial statements (balance sheet and income statement).
- Analysis is done on income statements with budget comparisons (year to date and current period), prior year/period actuals comparison (also year to date and current period), investment registers drawing cost versus market value, indicated incomes, and yields by security.
- Cash management is accomplished by daily cash availability reports showing all entities' current cash balances.

A version of this product is available for the VAX computer.

Price: \$2,000 – \$10,000

Contact: Tom Muskiluke
(519) 893-4200

DIGITAL BUSINESS COMPUTERS
133 Manitou Drive
Kitchener, Ontario N2C 1L4
Canada

ARCHON: FRS (Financial Reporting System)

Operating System: RSTS

Keywords: • Accounts payable • Education • General ledger
• Government

This generalized system of computer programs provides a sound financial reporting basis for educational institutions and other nonprofit organizations. FRS performs accepted accounting practices in accordance with models such as the Planned Program Budgeting System

(PPBS), financial guidelines issued by the American Institute of Certified Public Accountants (AICPA), the National Association of Colleges and University Business Officers (NACUBO), and Handbook II, revised. FRS was developed to combine several standard accounting functions, budgetary expenditure and encumbrance accounting, revenue of income accounting, accounts payable processing, and general ledger, including financial reporting. The payroll and personnel system (PAY) and the billing system (BILLS) are designed to interface with FRS.

A version of this product is available for the VAX computer.

Price: \$14,740

Contact: NancyLou Rapp
(203) 728-6777

QUODATA CORP.
266 Pearl Street
Hartford, CT 06103

ARCHON: FUND-AL

Operating System: RSTS

Keywords: • Education • Information management
• Recruiting • Report writer

The FUND-AL system harnesses the power of data management and combines the flexibility of letter processing to provide a truly unique fund-raising tool. FUND-AL supplies the personal touch necessary in cultivating an institution's or organization's supporters. It provides solutions to the problems of keeping information on donors and friends current and helps control valuable gift-giving processes.

This system records all important data relative to pledges, payments, and gifts. It also provides current reports on selected prospects, produces pledge reports, and stores biographical details necessary to maintain a close relationship with valuable contributors. A generalized reporting system makes it possible to sort and select small subgroups of donors and prospects. On-line terminals assist in keeping all financial and biographical data current. Inquiry may be made to determine the current status of any individual, and an unlimited number of addresses can be stored for each prospect donor.

A version of this product is available for the VAX computer.

Price: \$14,300 - \$56,300

Contact: NancyLou Rapp
(203) 728-6777

QUODATA CORP.
266 Pearl Street
Hartford, CT 06103

Banker's Credit Management System

Operating System: RSTS

Keywords: • Banking • Credit • Financial analysis
• Spreadsheets

This system analyzes financial information provided to a bank by a prospective commercial credit client. Standard-format financial reports suitable for presentation to a credit committee are generated: cash flows, net worth reconciliations, and analytical ratios. Twelve-month and/or 5-year projections that compute the client's ability to repay a requested loan can be generated automatically.

Price: \$150

Contact: Alfred V. Bruns
(214) 690-1325

SUNBELT COMPUTER SERVICES, INC.
9202-B Markville Drive
Dallas, TX 75243

Banking — General Applications

Operating System: CTS-300, RT-11

Keywords: • Banking • File management • General ledger

This total, commercial on-line banking system processes checking accounts, savings, loans, certificates of deposit, daily statement, and general ledger system. The system has spooling and complete daily backup procedures. The system interfaces to bank proof systems or, for smaller banks, has a batch entry system. Capabilities include:

- Full inquiry to all files.
- Checking with ready reserve or plus checking, automatic transfers from savings, optional trial balance, complete OD and NSF advice print, automatic service charge, and profit and loss customer reporting.
- Savings system with variable-interest calculation routines, demand statements, automatic transfer notices to checking, annual 1099 print, and all regular exception reporting.
- Loan system that includes transaction history for inquiry display with option of printing history ledgers.
- Complete accrual along with call statement reporting: interest projection report, aged delinquency, maturity tickler advice, and officer and bank rate analysis along with yields.
- Certificate of Deposit processing with variable-interest formulas, multiple certificate holder recap, and variable-interest crediting.
- Central file and asset/liability management.

The system is excellent for banks \$5M through \$500M in deposits.

A version of this product is available for the VAX computer.

Price: \$20,000 – \$30,000

Contact: R. Bud Brummer
(605) 343-7800

CUSTOM COMPUTER SERVICES, INC.
P.O. Box 1738
Rapid City, SD 57709

BASYS (Retail Banking System)

Operating System: RSTS

Keywords: • Banking • General ledger

BASYS is an in-house retail banking system for the complete management and automation of the banking operation. BASYS allows users to conduct real-time processing with instantaneous updating and retrieval of information at every level of activity and service of a modern financial institution.

The BASYS package of software programs provides highly efficient processing in all areas of operations: customer servicing, back-office processing, cash reconciliation and audit, and management controls. Some specific features of the system include savings and loan processing; certificates of deposit; money market, retirement, and checking accounts; variable-rate, mortgage, and commercial loans; integrated general ledger; generalized report generator; and ATM support.

Various configurations are available for the PDP-11/23 to the PDP-11/70 to accommodate customer accounts from 3,000 and up.

Price: \$35,000 – \$90,000

Contact: R. David Fuchs
(212) 685-1880

GENERAL SYSTEMS CORP.
100 Park Avenue
New York, NY 10017

Business Information System

Operating System: RSX

Keywords: • Accounting • Financial analysis • General ledger
• Payroll

This integrated financial package operates on inexpensive hardware and performs payroll, accounts receivable and billing, accounts payable, and general ledger functions. The system also prints financial statements. The system is applicable to organizations in the \$3 million to \$30 million range.

The system uses interactive processing. Operation can be local or via telephone communications. Personnel with no prior computer experience or training can use the system. English-language prompts are used exclusively.

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The system provides an integrated data base for both financial and operations data. Reports with key management information on productivity, costs per unit, and other performance measures can be provided. The data base and software are available in single- and multiuser versions and have been designed to accommodate various kinds of growth. The system offers multicompany processing and automatic verification of data base integrity.

Custom-designed financial statements can be changed with no programming. Financial statements can include operations data as well as conventional financial information.

A high level of continuing maintenance and support are available, along with custom tailoring and other special software. Options are a report writer, to provide user-designed nonstandard reports, as well as integrated job cost accounting, order entry, and purchase order processing.

A version of this product is available for the VAX computer.

Price: \$9,000 +

Contact: Janna McMillan
(617) 275-5810
BREUER & CO.
54 Middlesex Turnpike
Bedford, MA 01730

CALC-11/CALC-11 PLUS

Operating System: IAS, RSTS, RSX, RT-11, TSX-PLUS, ULTRIX, UNIX

Keywords: • Decision support • Financial analysis
• Financial planning • Spreadsheets

The CALC-11 electronic spreadsheet is a 3-dimensional system using English commands. The maximum spreadsheet size is 32,767 rows by 32,767 columns and can consolidate an unlimited number of spreadsheets. File encryption, individual size column widths, 132-character display, and ASCII file interfacing are just a few of the features that make the CALC-11/CALC-11 PLUS system so versatile. The spreadsheet may be transferred and used across all the operating systems and hardware configurations. A 1-year warranty that includes telephone support on a toll-free number and software updates at a media charge only are included with the purchase price. Source code is also available.

A version of this product is available for the VAX computer.

Price: \$750 – \$2,500

Contact: Chuck Reed
(317) 872-7200

COMPUTER SYSTEMS CORP.
5540 Rock Hampton Court
Indianapolis, IN 46268

CALC (VT100 Accounting Calculator), Version II

Operating System: RSTS, RSX

Keywords: • Accounting • Mathematics • Office systems
• Report writer

CALC is a multifunctioned accounting calculator designed to operate on the VT1xx-series terminals. CALC, featuring on-line help, provides the basic functions of a desk-top calculator, including hard-copy printout and accessible memory registers. The system has additional functions allowing the CRT to operate as if it were four calculators (strips). Those strips can be compared for validation of long sequences of entries.

On-line demonstrations are available. Demonstration tapes and user manuals can be purchased to preview the functioning of the product. User instruction and an installation guide are included.

A version of this product is available for the VAX computer.

Price: \$350

Contact: Neal J. Anderson
(414) 784-8250

MCHUGH, FREEMAN AND ASSOCIATES, INC.
1135 Legion Drive, P.O. Box 454
Elm Grove, WI 53122

CATS (Contribution/Accounting Tracking System)

Operating System: RSTS

Keywords: • Accounting • Education • Financial planning
• Word processing

CATS, a specialized program for nonprofit organizations, provides complete accounting functions that not only aid administration by producing management reports, but also increase income contributions through the unique interaction of accounting and word processing.

The program includes contribution tracking that provides:

- Donor statements by individual, zip code, or total membership
- Pledge reminders
- Instant donor account inquiry with printout
- Label printing in alpha or zip order
- Donor list with name and address in alpha or zip order
- Daily/weekly posting of contributions

CATS provides the following membership services:

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- Biographic membership file that tracks member data such as birth dates, family data, blood type, committee status, music interest, sports interest, leadership interests, and activities involvement
- Sorting and printing of labels using membership data — alpha or zip order
- Sorting and printing of customized reports detailing membership data
- Sorting and interfacing with word processing for personalized mailings
- Printing of membership rosters

The program offers general accounting that will:

- Record income and expense disbursements and receipts
- Record monthly and year-to-date data
- Generate a balance sheet, a profit/loss statement, and an actual general ledger
- Generate accounts payable with automatic check writing
- Prepare accounts receivable with invoice and statement production
- Provide payroll with automatic check writing and W-2 forms production

A version of this product is available for the VAX computer.

Price: \$1,500 – \$20,000

Contact: William R. Paschal, Jr.
(405) 843-7323

DATATEK CORP.

818 N.W. 63rd

Oklahoma City, OK 73116

CUSYS (Credit Union System)

Operating System: RSTS

Keywords: • Banking • Credit • General ledger

CUSYS is an in-house credit union system for the complete management and automation of the credit union operation. CUSYS allows users to conduct real-time processing with instantaneous updating and retrieval of information at every level of activity and service of a modern credit union.

The CUSYS programs provide highly efficient processing in all areas of credit union operations: member servicing, back-office processing, cash reconciliation and audit, and management controls. Some specific features of the system include share and loan processing, certificates of deposit, money market and retirement accounts, share drafts, variable-rate loans, integrated general ledger, generalized report generator, and ATM support.

Various configurations are available for the PDP-11/23 to the PDP-11/70 to accommodate membership from 3,000 and up.

Price: \$35,000 – \$90,000

Contact: R. David Fuchs
(212) 685-1880

GENERAL SYSTEMS CORP.
100 Park Avenue
New York, NY 10017

Data*Model Spreadsheet Management System

Operating System: RSTS, RSX, RT-11

Keywords: • Decision support • Financial analysis
• Simulation • Spreadsheets

Data*Model is used worldwide by small firms and Fortune 500 companies alike for consolidated budgeting, variance analysis, profit and cash planning, investment analysis, manpower planning, asset/liability management, liquidity analysis, currency conversion, and many other planning and analysis applications. Data*Model is ideal for any tedious, time-consuming task that would otherwise be done by hand using spreadsheets.

Data*Model is a powerful menu-driven tool for financial modeling, budgeting, and financial analysis. Each computerized spreadsheet may contain up to 30,000 rows and 500 columns. Built-in routines include amortization, depreciation, IROR, NPV, loss carryforward, and goal seeking. Complete if...then logic allows users to build decisions into their models. Unlimited numbers and levels of consolidation may be performed. Model development time and storage requirements are minimized because spreadsheets, data, logic, and report formats can be shared by many models.

Its built-in file interface routine allows Data*Model to interface easily with other systems such as WP and graphics and accounting systems, without custom programming.

A version of this product is available for the VAX computer.

Price: \$1,295 – \$6,000

Contact: John Jacobsen
(206) 282-9777

MINICOMPUTER MODELING, INC.
1507 Queen Anne Avenue N., Suite B
Seattle, WA 98109

DataCalc

Operating System: CTS-300, RSTS, RT-11

Keywords: • Financial analysis • Spreadsheets

DataCalc was designed for managers, financial analysts, executives, budget officers, and accountants — in fact, anyone who works with numbers. Written in DIBOL, DataCalc turns DIGITAL business computers into the personal tool needed by business professionals.

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DataCalc is an electronic spreadsheet that lets you manipulate numbers as you would on any paper spreadsheet, but much faster and easier. Your VT100 or VT52 terminal becomes a window through which you view a portion of your spreadsheet. Type any number, description, or formula, and DataCalc will perform the calculation, display the results, store the spreadsheet for later revision, or print a hard copy of boardroom quality.

DataCalc allows you to develop spreadsheets on anything from fiscal planning to corporate consolidations, depreciation schedules, price schedules, or any assembly of numbers you need.

A version of this product is available for the VAX computer.

Price: \$2,000 – \$10,000

Contact: Tom Muskiluke
(519) 893-4200

DIGITAL BUSINESS COMPUTERS
133 Manitou Drive
Kitchener, Ontario N2C 1L4
Canada

DIGICALC™

Operating System: RSTS

Keywords: • Accounting • Decision support
• Financial analysis • Spreadsheets

DIGICALC, the professional-strength electronic spreadsheet for financial/mathematical analysis, is designed exclusively for DIGITAL computers and combines the strengths of traditional financial modeling packages with the flexibility of the popular microcomputer CALC programs. Its more than 8,000 users include accountants, managers, engineers, executives, scientists, and others using VAX-11 and PDP-11 computers. Features include variable column width and up to 616 columns by 616 rows with no limitation on the use of constants, text, or equations. DIGICALC allows for up to 112 characters per cell position and boardroom-quality report generation. Annual support provides training, class credits, newsletter subscription, telephone problem response, and new-feature updates.

A version of this product is available for the VAX computer.

Price: \$650 – \$6,000

Contact: Allan Hay
(206) 881-2331

WHY SYSTEMS, INC.
16902 Redmond Way
Redmond, WA 98052

Fedder Architects Time and Billing System

Operating System: ULTRIX, UNIX

Keywords: • Accounting • Accounts receivable • Architecture
• Billing

The Fedder Architects Time and Billing System combines in a single integrated system the accounting applications needed to effectively and profitably run an architectural firm. The system includes time and expense recording, work-in-process accounting, staff productivity analysis, and billing and open-item accounts receivable.

The benefits provided are improved billing practices and collections, balanced staff assignments, and improved control over assignment deadlines. Entries are made to the system through time and expenses by employee, payment received, work-in-process adjustments (mark-ups and markdowns), and deferrals.

The system integrates with the following companion Fedder software systems: Accounts Payable/Expense Analysis, Payroll Checkwriting/Personnel Information System, and General Ledger/Financial Reporting.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: David E. Fedder
(301) 539-2121
FEDDER SOFTWARE, INC.
P.O. Box 27149
Baltimore, MD 212300149

Fedder Purchasing System

Operating System: ULTRIX, UNIX

Keywords: • Accounts receivable • Billing • Purchasing
• Wholesale

The Fedder Purchasing System is a module that may be used with Fedder A/P and Fedder Inventory Control as a part of the complete integrated Fedder Foresight System. Special features include automated receiving, vendor performance analysis, and vendor invoice validation, which requires Accounts Payable.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: David E. Fedder
(301) 539-2121
FEDDER SOFTWARE, INC.
P.O. Box 27149
Baltimore, MD 212300149

FINPRO (Financial Projection Model)

Operating System: RSX

Keywords: • Financial analysis • Financial planning
• Simulation

FINPRO predicts balance sheet and profit and loss data for up to 12 planning periods into the future. A period can be a week, a month, a quarter, or some other length of time. For example, the model can be used to project the following profit- and loss-related numbers: gross profit, net profit, operating expenses, administrative expenses, and interest expense and income. The following balance sheet items can be projected: cash balances, borrowing requirements, accounts receivable, and accounts payable.

The model can do the following:

- Project profits, cash flow, and cash requirements data necessary for loans
- Project sales, inventory, and labor requirements for meeting a goal of, for example, a 20% increase in profits over last year
- Project sales required for breakeven, 10% gross profit, and 30% gross profit, respectively
- Evaluate the impact of different pricing strategies on profitability
- Evaluate the impact on cash requirements of reducing the average age of accounts receivable

A version of this product is available for the VAX computer.

Price: \$1,000

Contact: Stephen Hoiberg
(617) 275-5810
BREUER & CO.
54 Middlesex Turnpike
Bedford, MA 01730

FINSYS-IMPRS Financial System

Operating System: RSTS, RSX, RT-11

Keywords: • Financial analysis • General ledger
• Report writer

This menu-driven, password-protected system accommodates a mix of reporting periods (monthly, quarterly, and so on) and provides the following features:

- User-defined and controlled financial reporting
- Multitude of input documents for data entry
- Wide variety of income statements incorporated
- Optional suppression of zero dollar amounts and underlining of total amounts
- Account maintenance designed into menu
- New year balance reestablished on demand
- Detail entries available on a year-to-date basis

- Extensive validation of account numbers, hash totals, and “limit tests”
- Immediate input validation
- Previous-month changes automatically adjust year-to-date totals
- User ability to suppress any/all financial statement reports
- Automatic interface to other major systems (A/P, P/R, and so on)
- Unlimited chart of accounts allowed
- Alphanumeric account numbers allowed
- Distribution of single G/L amounts to multiple financial lines
- Instant access to detail or accounts allowed
- Division/department breakdowns within companies accommodated

A version of this product is available for the VAX computer.

Price: \$3,000

Contact: Elvin E. Smith or Forrest E. Weddle
(913) 782-8544

RUF CORP.
1533 E. Spruce
Olathe, KS 66061

Forecast

Operating System: UNIX

Keywords: • Decision support • Financial planning
• Property management • Statistics

The Forecast master planning system deals with anticipation and analysis of future requirements. Business strategies and forecasting, when reduced to either departmental headcount projections or growth/change rate models, are translated by Forecast into physical space as it may be required over user-defined future time periods. That data reflects the organizational chart of the company, as well as allows for functional work relationships to be identified in order to generate future planning strategies. Projection data can be easily changed, and alternatives can be created so as to consider the impact of many planning scenarios simultaneously.

The information that Forecast handles and reports that can be generated include:

- Personnel job titles and codes
- Equipment types and codes
- Corporate space standards for people, equipment, and support
- Departmental names and table of organization
- Projection years (to nearest month)
- Functional adjacencies
- Space requirements projections
- Modifiers (circulation or access, usable to rentable, rentable to gross, and planning concepts)
- Alternatives generation

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Price: \$16,000

Contact: Ron Kramer
(617) 897-6350
RESOURCE DYNAMICS, INC.
118 Great Road
Stow, MA 01775

Integrated Manufacturing and Financial System, Version 3.2

Operating System: CTS-300, RSTS, RSX

Keywords: • Accounts receivable • Billing • Inventory
• Order entry

This system is designed for manufacturers who ship to customer order. Those manufacturers can be varied in their procedures and products. Some build partially to stock and others only for the job. Production can be based on a mix of customer forecast and backlog orders. Products can range from metalworking through electronics to parts, equipment, and much more. The system includes order entry/invoicing, quotations, bills of material/routing, inventory/purchasing, job cost/estimating, production planning, shop floor control, material requirements planning, all financials, word processing, and electronic spreadsheet. Applications can be run individually or integrated as a complete system. The system is fully supported with demonstrations, training, warranty, documentation, telephone support, a continuing maintenance agreement, and dial-in support.

A version of this product is available for the VAX computer.

Price: \$15,000 – \$25,000

Contact: Arthur Martin, President
(203) 677-6563
COMPUTER COVENANT CORP.
Integrated Manufacturing Systems
790 Farmington Avenue
Farmington, CT 06032

InterFad™

Operating System: DSM (MUMPS)

Keywords: • Financial analysis • Query facilities
• Report writer • Taxes

InterFad, a complete on-line interactive depreciation and fixed asset system, may be interfaced with the InterGL General Ledger and Financial Reporting System or used in a stand-alone environment. InterFad can handle any of eight depreciation methods and includes the ACRS laws. The system gives you the option of expensing or not

depreciating an asset, and you can define fiscal periods and can depreciate an asset on any time period (monthly, quarterly, annually, and so on). The system can simultaneously keep track of two sets of records for each asset — one for IRS tax purposes and the other for book purposes.

Assets can be grouped or kept separate. You define asset locations and general ledger and expense accounts. When an asset is depreciated, the accounts are updated automatically, and a complete history report is produced on the desired assets, breaking down the depreciation for a given period of time and showing both IRS and book depreciation.

The system handles investment tax credit and recapture functions. Your investment tax credit is automatically calculated for you. If you sell an asset, the recapture amount is produced on a report that is available at any time. Also available at any time is an on-line inquiry function enabling you to check the status and book value of any asset and to show the amount of past depreciation, as well as information about the asset, including salvage value, date purchased, purchase price, investment tax credit amount, useful life, location, method, and G/L and expense account numbers.

Upon request, you can produce reports available in different forms and flexible enough to be run in many ways. The reports include an asset acquisition report that can be run for any given period of time, a depreciation report by location, an investment tax credit and recapture report, and an asset change report showing any changes that were made on an asset. The ability to project future amounts of depreciation allows you to see how much your assets would depreciate each year by using any of the eight methods of computing depreciation and for any useful life and purchase value.

A version of this product is available for the VAX computer.

Price: \$2,500

Contact: Alexander J. Phillips, President
(201) 256-7633

INTERACTIVE SYSTEMS AND MANAGEMENT CORP.
1500 Cardinal Drive
Little Falls, NJ 07424

Investment Management

Operating System: CTS-300, RSTS, RT-11

Keywords: • Financial analysis • Investments
• Menu handlers • Real time

The on-line real-time Investment Management System provides for complete automation of all investment securities. Major advantages to this system include the availability of current investment information so as to maximize investment income and the ability to easily monitor the security activities at each bank.

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Available functions include add, change, and delete maintenance; inquiry of investment master files; and current status of investments and securities at specified financial institutions. Available are an investment report by investment number or by bank, investment detail by date or by maturity date, interest detail by fund or by date, and a securities report by bank.

Price: \$2,000 – \$4,000

Contact: James W. Sanderbeck, Vice President
(216) 489-1885
PM COMPUTER SERVICES CO.
630 – 30th Street, N.W.
Canton, OH 44709

MATHEASY

Operating System: RSX

Keywords: • Banking • Credit • Retail

MATHEASY processes applications for credit and new accounts and can be used by banks, retailers, or any other credit grantor who processes loan or credit card applications. The system takes each application from data entry through the decision process and generates the appropriate letters, reports, and actions.

The system can be used with or without an existing credit scoring formula. Credit bureau reports are automatically received by the system through a dedicated phone line or an automatic-dialer modem. MATHEASY can use your scoring formula to automatically analyze those reports.

Approved accounts can be “handed off” to your existing accounts receivable system in a user-specified record layout. Additionally, tapes can be generated for driving a credit card embossing machine.

The user can monitor and track applications through each step of the process, altering or modifying the flow when necessary. Applications can be assigned special priorities when rapid expedition is required.

MATHTECH will customize the software, if necessary, to perform, for example, debt burden or cash flow analysis.

A version of this product is available for the VAX computer.

Price: \$65,000 – \$110,000

Contact: Steven Mutschler, Director, Credit Systems
(609) 799-2600
MATHTECH, INC.
P.O. Box 2393
Princeton, NJ 08540

Micro Modeler

Operating System: RSTS

Keywords: • Financial analysis • Financial planning

Micro Modeler is a powerful, flexible, yet easy-to-use business planning, control, and reporting tool. Micro Modeler's economical price-to-power ratio can provide the basis for all corporate, financial, and information systems used in the day-to-day planning and monitoring of business performance.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Christina O'Brien
(01) 740 5758

INTELLIGENCE (UK) PLC
Network House, Wood Lane
London W12
England

Multiplan® Electronic Worksheet

Operating System: ULTRIX, UNIX, XENIX

Keywords: • Financial planning • Sales and marketing
• Simulation • Spreadsheets

This highly visual, easy-to-use, interactive electronic worksheet aids in financial planning and modeling for business or personal needs. The worksheet can be used to predict future financial needs and profitability by answering the user's what-if questions. Multiplan can also be used to perform iteration and sensitivity analysis to indicate a step-by-step approach to a targeting result. Multiplan is menu-driven, uses natural language commands, and has a thorough help facility. Maximum worksheet size is 63 columns by 255 rows. By using the UNIX* TERMCAP capability, Multiplan supports most cursor-addressable terminals. The worksheet is backed by SCO's comprehensive software warranty product support services.

Multiplan® is a registered trademark of Microsoft, Inc. *UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$495 – \$2,000

Contact: Marketing Department
(408) 425-7222

THE SANTA CRUZ OPERATION, INC.
500 Chestnut Street
Santa Cruz, CA 95060

NYPLAN

Operating System: RSTS, RSX, RT-11

Keywords: • Financial analysis • Graphics • Report writer
• Spreadsheets

NYPLAN is an electronic spreadsheet and financial planning system that combines the convenient interaction of a screen-oriented calc package with the power of financial modeling. Ranging from comprehensive reporting to graphic analysis, NYPLAN provides financial statements, budgets, sales forecasts, pro forma financial statements, consolidated reports, and manpower charts.

NYPLAN supports both a hard-copy terminal mode and a special screen mode on most popular terminals. With the screen mode, any model can be entered and instantaneously displayed. The user can create the model in screen or hard-copy mode and alternate between models.

Graphs can be produced on a wide variety of devices, including video displays, printers, and plotters. Line charts and bar charts are available and can be produced in either two or three dimensions.

Other NYPLAN capabilities include a data base interface enabling receipt of data from other files, a report writer, and an on-line user's manual that can be accessed by typing HELP. The statistics package contains linear regression and risk analysis, and the financial package includes internal rate of return, present value, discounted cash flow, and depreciation. NYPLAN uses standard math rules, including exponentiation and parentheses. Models can be made to prompt for necessary information, and a job stream can be made instructing NYPLAN to perform a series of events.

A version of this product is available for the VAX computer.

Price: \$9,500 – \$15,500

Contact: John Enyedy
(408) 257-7700

NATIONAL INFORMATION SYSTEMS, INC.
20370 Town Center Lane
Cupertino, CA 95014

Plan Plus

Operating System: RSTS

Keywords: • Cost accounting • Financial analysis
• Financial planning

Plan Plus is a system for cash flow forecasting, sales analysis, budget planning, investment analysis, product costing, engineering support costing, and cable television planning. The Plan Plus product is used in all types of industries and for multiple purposes.

A version of this product is available for the VAX computer.

Price: \$499 – \$5,000
Contact: M. Stewart
(44) 1-942-2282
PLAN PLUS LTD.
P.O. Box 327
London W44QD
United Kingdom

POM/T (Purchase Order Management/Tendering System)

Operating System: RSTS

Keywords: • Inventory • Order entry • Purchasing

This financial and administrative package is designed for colleges, universities, school boards, municipalities, and paragonovernmental agencies. POM/T features purchase order creation, stock and nonstock purchase orders, receiving, stock file maintenance, tendering, and automatic accruals.

A version of this product is available for the VAX computer.

Price: \$15,000 – \$30,000 (Canadian)

Contact: Dennis J. Sakamoto
(416) 433-2100
S.R.B. INTERNATIONAL LTD.
Whitby Corporate Centre,
209 Dundas Street E., Suite 205
Whitby L1N 7H8
Canada

Portfolio Management

Operating System: RSX

Keywords: • Banking • Financial analysis
• Financial planning • Information management

KOCH offers a variety of sophisticated and thorough securities-trading packages designed for the corporate portfolio manager. Banks, insurance companies, pension plans, trusts, and corporations that manage their own portfolios and those of their clients will find these packages well suited to their environment. Each package will interface easily with existing general ledger, tax reporting (Form 1099), and client billing systems.

All packages run on most computer systems, support black and white or color terminals and printers, include extensive ad hoc report writing facilities, and are designed and written in proven and fully supported state-of-the-art software technology.

360 Financial Management

Bond Trading is an on-line package that supports coupon and discount securities; government, corporate, and municipal bonds; management for an unlimited number of portfolios; yields, discounts, durations, accretions, amortizations, 360/365 basis comparisons; and countless other calculations and projections. The package handles coupon notification, service fee billing, 1099, and G/L postings. Full "back office" accounting functions as well as support for traders' decision making are included.

The Futures and Hedges package provides complete accounting and valuation for futures and cash and futures hedges.

A version of this product is available for the VAX computer.

Price: \$60,000 – \$300,000

Contact: Denis Hudson
(415) 567-1313
KOCH SYSTEMS CORP.
P.O. Box 2510
San Francisco, CA 94126

Professional Time Reporting

Operating System: MS/DOS, PICK, UNIX, XENIX

Keywords: • Billing • Project management • Report writer
• Scheduling

This program provides the following:

- Reports for projected versus actual expenditures for projects and budget categories within each project
- Employee utilization information showing percentages of available versus charged time
- Project analysis of expenditures for various user-defined activity categories
- Tracking of charges to projects by hours and expense items
- Profitability reports on a project-by-project basis
- Maintenance and reporting of information relating to company costs, project charges, and client billings
- Screen display allowing immediate access to summary information for each project, including budgeted and actual labor and expenses

A version of this product is available for the VAX computer.

Price: \$2,500

Contact: Steve Thomas
(713) 270-5218 or (800) 231-0062
THE SOFTWARE EXPRESS, INC.
10103 Fondren, Suite 220
Houston, TX 77096

PROTRAC (Project Cost Tracking System)

Operating System: RSX

Keywords: • Accounts receivable • Billing • Cost accounting
• Project management

PROTRAC is used to track costs, revenue, accounts receivable, and work in process on a job-by-job basis. Labor, materials, and subcontractor costs are categorized with a variety of means for allocating overhead. Automatic interfaces are provided with payroll, accounts payable, and accounts receivable.

Processing is performed for the job cost master file, cost allocation methods, accounts receivable status, and multioption reports — job cost, job summary, labor allocation and productivity, daily hours, job listing, and billing.

PROTRAC can fully integrate with the optional COSTRAC financial management package, which provides accounts payable, accounts receivable, payroll, and general ledger modules.

A version of this product is available for the VAX computer.

Price: \$6,000 – \$8,000 +

Contact: Gene Thayer, P.E., Vice President
(800) 368-4203

TECHNICAL INFORMATION SYSTEMS, INC.
116 W. Plume Street
Norfolk, VA 23510

Saturn-Calc Electronic Worksheet

Operating System: CTS-300, RSTS, RT-11

Keywords: • Financial analysis • Sales and marketing
• Spreadsheets

This program helps manage cash flow and improve sales reporting, forecasting, and business projections.

Application Development & Enhancements, Inc., is a New England distributor of software products manufactured by Mini-Computer Business Applications Inc. (MCBA) in Montrose, California.

Application Development & Enhancements, Inc. is a New England distributor of Saturn Systems in Minneapolis, MN.

A version of this product is available for the VAX computer.

Price: \$625 – \$2,380

Contact: Douglas Souza
(617) 893-0333

APPLICATION DEVELOPMENT AND
ENHANCEMENTS, INC.
130 Overland Road
Waltham, MA 02154

Tax Planner

Operating System: CTS-300, RSX, RT-11

Keywords: • Accounting • Financial analysis • Taxes

The Tax Planner may be used to project income taxes for 1983, 1984, and 1985, based on the applicable tax law in effect on July 1, 1982. In addition to the selection of the most favorable income tax method, the system calculates Form 4972 — special 10-year averaging method, self-employment tax, minimum taxes, and alternative minimum tax. Tax Planner automatically calculates taxable capital gains or losses, charitable contribution and medical expense limitations, marriage tax penalty deduction, nonrefundable credit, and penalty for underpayment of estimated tax.

A version of this product is available for the VAX computer.

Price: \$1,250

Contact: Bob Sprowls

(904) 434-2685

DIGITAL SYSTEMS OF FLORIDA, INC.

114 E. Gregory Street

Pensacola, FL 32501

TAXCALC (Federal Income Tax Package)

Operating System: RSTS

Keywords: • Financial analysis • Financial planning
• Simulation • Taxes

TAXCALC is a menu-driven federal income tax preparation assistance software package. It allows the user to interactively enter tax data and then automatically computes the federal tax obligation. TAXCALC allows the user to change or edit any line on any of the supported tax forms and automatically recalculates the federal tax obligation. This feature allows for flexible tax planning and tax estimation.

TAXCALC uses a simple question-and-answer format with a facsimile of the federal tax forms for data entry. After the tax is computed, the user can direct TAXCALC to print a facsimile of the federal tax forms complete with the user's data (answers), all totals and subtotals, and the federal tax obligation. TAXCALC will also print directly onto the 1040 form.

TAXCALC uses a simple operator's menu from which the user gains access to the TAXCALC system via a name and password table. The menu is also used for access to all tax forms and other functions of the TAXCALC system.

TAXCALC offers complete data security for user tax data files via data encryption of all user files. Data files are automatically encoded upon entering or decoded upon leaving the TAXCALC system.

TAXCALC supports the following federal tax forms: Form 1040; Schedules A, B, C, D, E, and G; Form 2106; and Form 4562.

A version of this product is available for the VAX computer.

Price: \$200 – \$500

Contact: Kenneth Alan Presley, President
(502) 448-2719

COMPUTER INGENUITY CONSULTING
ASSOCIATES, INC.
4513 Flintlock Drive
Louisville, KY 40216

Unicalq 3-D Spreadsheet

Operating System: UNIX

Keywords: • Decision support • Financial analysis • Security

Unicalq, a powerful 3-dimensional, virtual memory electronic spreadsheet, offers very large spreadsheet size yet is optimized for efficient time-sharing usage via dynamic memory allocation based on spreadsheet contents.

Special features include file encryption for security, on-line help for commands and syntax, and extended numeric, financial, logical, arithmetic, conditional, and operational functions.

A version of this product is available for the VAX computer.

Price: \$750 – \$2,500

Contact: Sam Bishop, Vice President, Sales
(312) 879-1008

UNIQU DIGITAL TECHNOLOGIES
28 S. Water Street
Batavia, IL 60510

ViewComp Electronic Spreadsheet

Operating System: ULTRIX, UNIX

Keywords: • Decision support • Financial analysis
• Financial planning • Spreadsheets

ViewComp, an electronic spreadsheet designed specifically for the UNIX* environment, offers all the capabilities expected of an electronic spreadsheet. In addition, the data it stores and uses is completely UNIX*-compatible.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$500 – \$800

Contact: Mark Pearson
(212) 307-6800

UNICORP SOFTWARE, INC.
303 West 42nd Street
New York, NY 10036

XSP Spreadsheet, Financial, and Statistical Analysis System

Operating System: UNIX

Keywords: • Data base management • Financial analysis
• Spreadsheets • Statistics

The XSP spreadsheet is a sophisticated financial modeling and analysis tool that is fully integrated into the XED office systems package via the XED menu processor — including the data base and forms generator. The package handles 500 fields of information in either columnar or free-form modes and allows an unlimited amount of text to be inserted between fields or lines of the analysis, permitting direct integration of finished reports with word processing documents. The spreadsheet also permits multiple forms based on previous data and automatic update of fields from previous forms.

The finished document may be directly accessed by either the XED word processor or the XDA document assembler for further editing or document merging. The completed document may be printed on either draft- or letter-quality printers by direct selection from the print menu of the XED menu processor.

XED office systems programs are designed and coded for UNIX* Version 7, System III, System V, and Berkeley 4.1 and 4.2. The programs contain a terminal description file and a printer definition and proportional spacing increment table (both user definable) to provide maximum installation flexibility and efficiency in a multiuser environment. XED is loaded in the UNIX* multitasking operating system as a shared text file.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Ted Ferguson
(818) 884-2000
COMPUTER METHODS, LTD.
P.O. Box 709
Chatsworth, CA 91311

Games and Demos



3-Dimension Tic-Tac-Toe

Operating System: RSX

Keywords: • Recreation

Memory required: 51,200 bytes (FORTRAN IV); 52,100 bytes (FORTRAN IV PLUS).

This program plays 3-dimensional ($4 \times 4 \times 4$) tic-tac-toe on a VT52 or VT52-compatible CRT. The game does direct cursor addressing for both computer and opponent moves. Instructions are displayed on the CRT. DECUS number 11-400.

Note: Object and .TSK files are supplied for both FORTRAN IV and FORTRAN IV PLUS.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

3D-Tic-Tac

Operating System: RSTS, RSX, RT-11

Keywords: • Presentation aids • Recreation

This demonstration program compares a computer's pattern recognition with that of a human. The program is a Tic-Tac-Toe game played on a $4 \times 4 \times 4$ board. The game rules are contained in the program. DECUS number 11-72.

Restrictions: TTY interrupt disabled.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

Adventure

Operating System: IAS, RSTS, RSX, RT-11

Keywords: • Documentation • Recreation

Memory required: 28KW user space.

Adventure is a magical, unpredictable, and often addicting computer game that has caught on in the United States in near-epidemic proportions. The game is a treasure hunt with all the trimmings — mysteries and challenges that grow more and more complex as the game unravels. Adventure is more a puzzle than a game. Once solved, it's mastered. The mastering, however, often takes months of drawing maps and planning strategy.

Adventure's sweeping popularity lies in its power to enchant. Players are projected into a world of fantasy, one that blends the heart-pounding suspense of Treasure Island with the magic of Alice in Wonderland. DECUS number 11-340.

Note: The program has improved user interface and documentation. Adventure has been successfully run on an LSI-11/03 and an LSI-11/23. RT-11 V3/FORTRAN IV V2 gave one warning when compiling AMAIN.FOR for possible modification of the DO loop parameter "HINT." Ignoring that message caused no problems.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

Airplane Landing Simulation Game

Operating System: RT-11

Keywords: • Aeronautics/aerospace • Presentation aids
• Simulation • Source code control

Memory required: 16K words.

This game provides a pseudographic display of an aircraft instrument panel, with real-time updates at 1-second intervals. The program simulates an instrument landing approach from an altitude of 2,500 feet to the runway, with instructions from the ground radar controller. Aircraft climbs, dives, and stalls are properly simulated. An off-airport landing, with a snide remark as reward, as well as a go-around for a missed approach, are both possible. DECUS number 11-388.

Restrictions: For RT-11, use FB monitor, SET TT NOCRLF before starting.

A PLANE.SAV file is supplied for use on RSTS/E or RT-11. If you use EIS, FIS, or FPP hardware, you must recompile and relink. Uncommented sources are supplied. To recompile, you must have a FORTRAN subroutine library (SYSF4.LIB) on the system.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

Arcade Game Package

Operating System: RSX

Keywords: • Recreation

Memory required: 16KW.

This package contains four games based on the arcade games PACMAN, MISSILE COMMAND, CENTIPEDE, and BREAKOUT. These games are written for PDP-11s running RSX but will run on VAXs in compatibility mode. The games require a VT100 video terminal operating at 9,600 baud. Players control the motion of activity on the screen by using the VT100 keypad keys to simulate a joystick. The games increase in difficulty as one's score increases.

Each game is provided in a separate UIC, complete with source, object, and task files; a README.1ST file to explain procedures for building the game; and a .DOC file containing complete playing instructions for that game. DECUS number 11-SP-35.

Restrictions: The package runs on VAX only in RSX compatibility mode. Playing instructions are included in .DOC files.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

BASIC Demonstration Package

Operating System: RSTS, RSX, RT-11

Keywords: • Presentation aids • Recreation

This package contains a group of demonstration tapes, using the PDP-11 BASIC assembler. A knowledge of the games involved is assumed. The demos are Football, Rocket, Weekday, Craps, Civil War, and Snoopy. DECUS number 11-10.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

Battle Ships

Operating System: RSX

Keywords: • Recreation

Memory required: 27K words.

In this simulation of the popular game Battle Ships, player and computer position their ships in their respective game squares. In the game, the computer and the player alternate shots until one has sunk all the adversary's fleet, thus winning the game.

Each time this program is run, the computer chooses the positions for its own ships randomly and beyond the control of the player. Each square has a horizontal address from A to P and a vertical address from 1 to 6.

You can play with none or one aircraft carrier, up to two cruisers, up to three destroyers, and up to five submarines. The ships may be positioned horizontally or vertically.

The object file was produced by the Swedish Pascal Compiler V5.0/V4.0. To create the "TSK" file, the FORTRAN subroutine "RANDU" and function "SECNDS" must be included from the FORTRAN-IV library.

Execution of the program under RSX-11M is initiated by the command "RUN BATSHP". Once running, the program is self-explanatory and includes an introduction to the game.

The Pascal source file contains a commentary concerning the structure of the program. DECUS number 11-440.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

BIGCAL: A Calendar Scheduling Program

Operating System: RSX, RT-11

Keywords: • Presentation aids • Scheduling

Memory required: 17KW.

This FORTRAN IV program can be compiled under either RT-11 or RSX-11M. After prompting the user, BIGCAL generates a calendar for the months or year specified. The calendar has boxes around each day, making it easy to jot down notes and appointments. Included in BIGCAL is a day-of-week algorithm, used to determine the day of week based on month, day, and year, where the year is between 1752 and 2099. The size of the calendar is variable from 40 to 132 columns as well as 40 to 132 rows per output page. Output from BIGCAL is sent to the file BIGCAL.OUT on the user's device. DECUS number 11-623.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Blackjack for the MINC

Operating System: RT-11

Keywords: • Recreation

Memory required: 6,300 words used maximum.

Blackjack plays Las Vegas blackjack with every major facet except splitting. The computer is the House (dealer) and plays against one to four players, using as many as three decks. The display is organized, the program runs smoothly, and it's fun testing your ability and luck and the casino. Practice against the MINC, and you'll soon be ready for Vegas, Atlantic City, and Monte Carlo. DECUS number 11-563.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Calendar Printing

Operating System: RSX

Keywords: • Presentation aids

This program prints a calendar for any year between 1583 and 32766. When the program is run, the user is prompted for the year for which a calendar is desired. The program writes the calendar to a file year.CAL and closes that file. The prompt is repeated for additional years until the user replies with a 0; the program then exits. The year files may then be listed. DECUS number 11-478.

Note: This version corrects a logic error, which makes the calendar from 1984 on correct, and reflects changes in OMSI PASCAL from Versions 1.2 to 2.0. Program CAL.PAS is written in OMSI Pascal Version 1.2. For other versions, only changes in I/O statements should be needed.

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Price: \$5 – \$225

Contact: DECUS (see Introduction)

Choose

Operating System: RT-11

Keywords: • Query facilities • Recreation

Memory required: 32K or more.

This questionnaire enables the player to appraise his or her knowledge of Christianity and the Word of God. The player answers yes or no to the questions; the computer then agrees or disagrees. Depending on the player's answer, the computer refers the player to the appropriate references for each question. After answering the last question, the player is asked to make a choice concerning his or her eternal welfare. DECUS number 11-373.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

CHSMOV — Chess-Move Recorder on a VT55 or a VT105, Under MACRO-11

Operating System: RT-11

Keywords: • Graphics • Recreation

Memory required: 32K.

CHSMOV records the moves of two players on a VT55 or a VT105 graphics terminal. A checkerboard is drawn on the screen; pieces are labeled by a 2-character code identifying the color and type of piece. The players enter the move to be made in algebraic notation (for example, E2-E4). The program checks to see if the proper characters have been typed and whether the pieces at the location specified are there or not. Illegal entries cause the terminal buzzer to sound and the move to be retyped. Players may castle on either side by typing K[RETURN] for king-side castling and Q[RETURN] for queen-side castling. The elapsed time taken by each player is calculated and displayed at the bottom right of the screen after every move. DECUS number 11-532.

Note: This program does not check for legality of moves and does not play chess against the operator. Capturing en passant and pawn promotion are not allowed.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

CHSSLV (Chess-Problem Solver)

Operating System: RT-11

Keywords: • Recreation

This program solves chess problems. White checkmates black in two or three moves. Castling and “En passant” are forbidden moves. DECUS number 11-162.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

Cycles

Operating System: RT-11

Keywords: • Presentation aids • Printing

Memory required: 16K.

This program, adapted from DECUS number RSTS-11-76, has been rewritten for RT-11 and MU BASIC. Cycles formats a biorhythm chart for printing on either a user terminal or a line printer. Output may be directed to any legal RT-11 device. The output requires a wide-carriage printer, such as the LA36, or a terminal.

The biorhythms are calculated by methods that assume birth and current dates to be between January 1, 1901, and December 31, 1999.

For brevity, the program prints a 31-day chart, regardless of the length of the month. DECUS number 11-235.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

Demonstrator

Operating System: RSTS

Keywords: • Computer-aided instruction • Presentation aids
• Simulation

This automated software demonstration and training utility allows the user to create screen-oriented presentations that intermix CRT displays recorded in a controlled session with text added where desired. In its simplest use, Demonstrator can easily act as a flip chart on a screen, complete with bolding, reverse video, flashing, and line drawing. In a more complex use, the user records a terminal session, then inserts explanatory text and/or screen controls. The resultant file is “played back” by Demonstrator software, simulating the terminal session. The user may choose to insert pause commands, which wait either for a carriage return or for a prescribed time interval. That allows for automatic walkthroughs, as in a trade show environment, or a professional, controlled demonstration. Demonstrator also includes menuing and autorepeat capabilities.

Price: \$1,250

Contact: Gary Vowels
(206) 285-3260

MANUS SERVICES CORP.
1700 Westlake Avenue North
Seattle, WA 98109

Digital Clock

Operating System: RSX

Keywords: • Presentation aids

This program simulates a digital clock on a VT52 or VT52-compatible CRT. The program has two modes of operation: hours, minutes, seconds, day, month, and year are continuously displayed in large characters; hours and minutes are continuously displayed in larger characters.

This program does direct cursor addressing and updates only the positions that have changed since the last update. The program also connects to unsolicited input by clearing the screen and exiting upon striking the control C or X character. When the RETURN key is pressed, the program toggles from one mode to another. DECUS number 11-399.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

DTC (Desk Top Calendar)

Operating System: IAS, RSX

Keywords: • Presentation aids • Printing • Scheduling

The program allows day-, week-, or month-at-a-glance displays; private and public calendar appointment files; meeting scheduling; multiple-appointment setup; evening appointments; and other functions. DTC runs on a VT100 but can be modified for other terminals. Build files are supplied for PDP-11 (RSX) and VAX. DTC may run under RT-11 if F77-type constructs are changed to FORTRAN IV. An RSX task image, not requiring a floating point, is supplied for users who lack the F77 compiler. The VAX world is assumed to have access to native-mode FORTRAN; on VAX, DTC runs in native mode. DECUS number 11-597.

Note: Added multifile ability; purging of old appointments, meeting scheduling, bug fixer, free time-searching, and simpler appointment entry are provided.

A version of this product is available for the VAX computer.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Dungeon

Operating System: RSTS, RSX, RT-11

Keywords: • Recreation

Memory required: 28K user space (RSTS/RT) or 32KW user space (RSX).

Dungeon is a game of adventure, danger, and low cunning. In it you will explore some of the most amazing territory ever seen by mortals. Hardened adventurers have run screaming from the terrors contained within.

In Dungeon, the intrepid explorer delves into the forgotten secrets of a lost labyrinth deep in the bowels of the earth, searching for vast treasures long hidden from prying eyes, treasures guarded by fearsome monsters and diabolical traps. DECUS number 11-370.

Restrictions: This version of Dungeon cannot be compiled or used as is. This version can be used on floppy diskette systems only. (See DECUS number 11-370B.) File DTEXT.DAT is a binary, fixed-length data file and must be transferred using special precautions; see documentation for each operating system in file DUNGEO.DOC.

Note: All sources are available with this version.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Dungeon for RT-11

Operating System: RT-11

Keywords: • Documentation • Recreation

Memory required: 28K partition.

Dungeon is a game of adventure, danger, and low cunning. In it you will explore some of the most amazing territory ever seen by mortals. Hardened adventurers have run screaming from the terrors contained within.

In Dungeon, the intrepid explorer delves into the forgotten secrets of a lost labyrinth deep in the bowels of the earth, searching for vast treasures long hidden from prying eyes, treasures guarded by fearsome monsters and diabolical traps. DECUS number 11-370B.

Note: The sources are not available for this version of Dungeon. Release notes are available in hard copy only.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

European MINC Package #8 — Games

Operating System: RT-11

Keywords: • Graphics • Recreation

The following is a brief description of the programs:

- CHESS — Mk1.1 representing graphically the chess board on a VT105
- RACE — a game of driving cars around our elliptical track (HP 9872A or HP 7225A)

DECUS number 11-579.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

Games, Puzzles, and Recreation-1

Operating System: RSTS

Keywords: • Education • Recreation

This package contains 55 recreational programs, many of which have substantial educational value, especially for learning about principles of mathematics, probability, and logic. Programs range from a comprehensive Space War simulation to a nursery stories quiz. DECUS number 11–18.

Note: Documentation available from DIGITAL (Order number EB–04873–76).

Price: \$5 – \$225

Contact: DECUS (see Introduction)

Games, Puzzles, and Recreation-2

Operating System: RSTS

Keywords: • Recreation

This package contains 49 recreational programs, some of which are unique in concept, educational, and good fun. Some of the programs take advantage of the advanced features of BASIC–PLUS and are quite elegant in structure as well as being challenging and entertaining to run. Programs range from the games of Yahtzee and Monopoly to a smog simulation and a pizza delivery game. DECUS number 11–24.

Note: Documentation available from DIGITAL (Order number EB–04873–76).

Price: \$5 – \$225

Contact: DECUS (see introduction)

Genral: The Great War Game for up to Four Players

Operating System: RSX, RT–11

Keywords: • Recreation

Memory required: 30KW.

Time: The Nineteenth Century

Place: The Frontier between Anchovy and Baklava

Anchovy has assembled a large army to invade Baklava, a neighboring state. The aim of the invasion is to capture a majority of the Baklavan towns or to destroy the opposing army. Baklava hopes to resist long enough to force an armistice, to counterattack and capture Anchovian towns, or to drive out and destroy the invaders.

Genral is a game of resource management. Cavalry, infantry, and artillery units contend for control of roads, rivers, hills, towns, bridges, and forests. Strategic decisions must be made in real time, aided by statistical reports and animated video displays of 49 sectors. A 14-page instruction manual and an extensive set of detailed maps are provided on the tape. DECUS number 11-500 (RSX); 11-466 (RT-11).

Price: \$5 – \$225

Contact: DECUS (see Introduction)

Golf League Records

Operating System: RT-11

Keywords: • Printing • Recreation • Scheduling • Statistics

Memory required: BASIC interpreter + 11,712 words.

Golf League Records keeps records of golfers' scores and golf team competition each week for approximately 20 weeks. Each player receives a weekly report showing the latest gross score shot, net score, new handicap, tee-off time, opponents (with their handicaps), next week's tee-off time, opponents for next week, remaining fees due, team standings, and any messages. A separate tee-off schedule for all teams, a team competition summary sheet, and an updated gross and net score sheet are printed out for the operator's reference. Players are paired to form a 2-person team. Two points are awarded for a win, 1 for a tie, and 0 for a loss. DECUS number 11-534.

Note: The initialization program GLFINT.BAS, needed to set up data files, is provided on the media.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

The Hockey Game

Operating System: RSTS, RSX

Keywords: • Recreation

Memory required: 8K.

This player-versus-computer game of hockey closely simulates the real thing. The game includes faceoffs, deflected pucks, kick saves, pucks tied up against boards, and so on. Games are close and exciting. DECUS number 11-107.

Note: Requires modification for use with RT-11 BASIC.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

Hornet: A Star-Trek Game

Operating System: RSX

Keywords: • Recreation

Memory required: Approximately 24K bytes.

Like many of the Star-Trek versions in use, Hornet is written in Pascal and should serve as a moderately good example of structured programming. Many areas can be improved, and the program can be modified or rewritten at will. Run the program, and it will ask you if you want help. DECUS number 11-443.

Restrictions: VT52-compatible terminal should be run at 9,600 baud.

Note: The compiled program will run on RSX-11M; source is in VAX native Pascal and Swedish Pascal. This program is also distributed as DECUS No. VAX-11.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Master Mind for MINC BASIC or RT-11 BASIC

Operating System: RT-11

Keywords: • Graphics • Recreation

This BASIC program allows the user to play Master Mind against the computer. The program contains a low-level code-searching algorithm to break the user's code. Information is displayed using the graphics cursor-positioning commands of the VT55 terminal. DECUS number 11-535.

Restrictions: The Extra-Space command must be used for MINC BASIC to use all available memory for the program.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

MM: A Mastermind Game

Operating System: RSX

Keywords: • Recreation

Memory required: 24KW.

MM is designed purely for pleasure and enjoyment. The file MM.DOC contains some useful information on playing MM. Good luck! DECUS number 11-681.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

OSCAR: Conversational Computer

Operating System: RT-11

Keywords: • Mental health • Recreation

Memory required: 11K.

OSCAR, a program that converses reasonably intelligently with the user via teletype, answers questions or makes a relevant comment in approximately 95% of cases. OSCAR will not tackle arithmetic but usually types an appropriate comment about the problem. The overall conversation level is quite coherent but is sometimes slightly illogical. That result is achieved by examining the input material and dividing it into categories on the basis of the first few words. OSCAR is thus a "brute force" example of programming. OSCAR is good party entertainment, but people's reactions also make an interesting psychological study. DECUS number 11-258.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Othello

Operating System: RT-11

Keywords: • Recreation

Othello, sometimes known as REVERSI, is a board game similar to GO or GO-MOKU. The rules are simple and easy to learn, but to become a master takes a little longer. The computer uses a 2- or 3-ply search in opposing you and is difficult to beat. You can play black or white and give or take a handicap at the start. DECUS number 11-542.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Pic-Pak: Computer Picture Collection

Operating System: Independent

Keywords: • Graphics • Printing

Pic-Pak is a collection of picture files obtained from DIGITAL, M.I.T., and various other sources. The files are ASCII and need only be printed on any line printer for reproduction. Any machine that can handle ASCII code may be used. The files should be both machine- and operating system-independent within that restriction.

To obtain the proper aspect ratio, the line printer should operate at 10 characters per horizontal inch and at 8 lines per vertical inch. If an LA120, LA34, or LA38 terminal is used to print the pictures, any of those printers may also be set at 16.5 characters per horizontal inch and at 12 lines per vertical inch for a smaller picture. DECUS number 11-422.

A version of this product is available for the VAX computer.

Price: \$5 – \$225

Contact: DECUS (See Introduction)

QUICKCHESS (Speed Chess Simulator)

Operating System: RSTS

Keywords: • Presentation aids • Simulation

QUICKCHESS is a speed (timed) chess simulator program that allows two players to sit at different VT100 terminals and play speed chess. The board is drawn on each player's screen in double-width/double-height characters, with each player's pieces at the bottom of the screen. The board squares are separated by graphic vertical and horizontal lines, and alternating squares are in reverse video for the light/dark diagonal perspective. Each player's remaining game time in minutes:seconds is shown in the corners of the screen and is visually updated each second. The names of both players and their last moves are also shown in each corner.

Move input is via standard international algebraic notation. All moves are checked for legality, with any illegal move requiring reinput by the player. Upon input of a legal move, the boards are updated via direct cursor addressing; the player's clock is stopped; an audible alarm sounds; and the player's opponent's clock is started. Play continues in this manner until one of the players runs out of time or loses the game in a normal manner.

All legal chess moves are allowed and are logged in a game log file (a different log file name is used for each run so all games may be saved) along with the player's remaining time after each move.

A version of this product is available for the VAX computer.

Price: \$100 – \$200

Contact: Kenneth Alan Presley, President
(502) 448-2719

COMPUTER INGENUITY CONSULTING
ASSOCIATES, INC.
4513 Flintlock Drive
Louisville, KY 40216

RSX-11 TECO with Buffered Typeout, VT52 Window Support, and Doctor Game

Operating System: RSX

Keywords: • Presentation aids • Recreation

You can use this version of TECO with a VT52 terminal as a scope editor, displaying a "window" around your position in the text. A macro allows TECO to do that. A document file describing the resulting special features of scope operation is provided.

Doctor (The Computerized Analyst) is a version of the old Eliza program written to run in TECO. Doctor is less powerful than the original LISP program but requires only a version of TECO to run. The program causes the computer to respond as a psychoanalyst to your questions and attempts to carry out a conversation with the user.

Doctor runs with any version of TECO. DECUS number 11-360.

Note: Scope MACRO for TECO requires the version of TECO submitted. The scope MACRO must be changed slightly for non-VT52 terminals.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

Seven BASIC Games

Operating System: IAS, RSTS, RSX, RT-11

Keywords: • Recreation

Memory required: 32KW.

Quest is a maze-mapping game patterned after, but much simpler than, Adventure. Quest's small size and straightforward structure make it easy to understand and modify. Quest was written by Roger Chaffee and appeared in the July 1979 issue of *BYTE Magazine*. This version is identical to the published version, except for minor modifications entailed by BASIC-11.

Othello is a board game for two players. The object of the game is to occupy terrain on the board and to capture your opponent's counters. In the computer version of Othello, you play against the computer, or the computer can play against itself. If you have a VT52/VT100, the program maintains a copy of the board and the score on the screen. Otherwise, the program prints a copy of the board and the score between moves.

Trek, a variant of SPCWAR (or STRTRK), uses the cursor features of the VT52 and VT100 to produce better displays. This version of Trek is based on numerous previous versions, starting with a base level written by Aron Insinga. The modifications for the VT52/VT100 were made by Jim Thompson. The master game was added by Bob Supnik.

Life, for the VT52 or VT100 or equivalent terminal, is a version of John Conway's "Game of Life." This version is written in standard BASIC-11 and is based on Clark Baker's original program in "101 BASIC Computer Games." The modifications for the VT52/VT100 were made by Bob Supnik.

Wumpus is the original maze-mapping, monster-fighting game. As such, it is the predecessor of Quest, Adventure, and similar games. This version was written by Mark Rosenthal. Compared to the versions published in *Creative Computer*, this version offers more hazards and totally randomized maze setups, so no two games are the same.

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Adventureland and Pirates Adventure are two adventure games from Scott Adams's "Adventure Land" series. The two games use a common interpreter, operating on game-specific data bases. Adventureland is a treasure hunt in meadow, swamp, and cave. Pirates Adventure features complex puzzles in distant climes. The original versions were written by Scott Adams for the TRS-80; the translations to BASIC-11 are by Bob Supnik. DECUS number 11-421.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Space Invasion

Operating System: RT-11

Keywords: • Real time • Recreation

Memory required: 14KW.

Space Invasion for the PDP-11 is a real-time interactive game, complete with sound effects and witty comments on your abilities as the defender. The version comes with a score card file against which you match your skills. Fine tuning of speed parameters is possible. Space Invasion will consume hours! This game has been put up on RSX and RSTS as well, but details are not available in this file. DECUS number 11-510.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Space War for Cursor-Addressing CRTs

Operating System: RT-11

Keywords: • Recreation

Memory required: 4K.

Space War is a 2-person real-time space craft war game for use on VT52/100 (cursor-addressing) CRTs. Each player controls a ship with the keys on the left and right side of a standard keyboard. A set of games is played, and scores are printed at the end. Variables include number of torpedoes to fire, speed of the game, and CRT type. With minor modifications, this program will work on any cursor-addressing terminal. DECUS number 11-464.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Star-Trek (SPACWR)

Operating System: RT-11

Keywords: • Recreation

Memory required: 12K.

This program is adapted from the TV program "Star-Trek." DECUS number 11-174.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

STAR.TREK (SPACWR)

Operating System: RSX

Keywords: • Recreation

Memory required: 8K w/FCRES.

This program for RSX-11M is based on the television series “Star Trek.” DECUS number 11-293.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

TREK: A Space Game for RSTS/E

Operating System: RSTS

Keywords: • Recreation

Memory required: 16KW.

TREK, a development from SPACWR and using the direct cursor addressing features of the VT52 and VT100 terminals, also uses the Advanced Video Option of the VT100 terminal. TREK is a game of cunning and skill. You must destroy all the enemy’s war fleet before they destroy you. The screen displays updates in real time. DECUS number 11-633.

Note: The game will run on any terminal but works best on a VT100 with the Advanced Video Option.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

VT100 Games for RSTS/E

Operating System: RSTS

Keywords: • Graphics • Recreation

This package contains six games. Those with an asterisk (*) can be played by multiple persons on separate terminals.

- BLKADE*: Up to eight human or robot players attempt to fence in the other players.
- INVAD: Repel wave after wave of invading alien creatures. Shoot them with your laser blast while dodging their deadly bombs.
- PACKER: You are a packer in a robot manufacturing plant. Your mission is to collect the radioactive dust on the floor before the robots kill you. Grab an energy suit and kill them for extra points.
- STRWRS: You pilot a lone fighter against imperial fighters and the Death Star.
- SUBS*: Use your submarine to sink your opponent with torpedoes.

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- **WIGGIT:** You have entered the underground lair of killer Martian Wiggits. Collect the water crystals that form before the Wiggits find them and clone.

Each game has a separate user guide that includes operating and installation instructions.

Price: \$199.95

Contact: David Spencer
INFINITY SOFTWARE CORP.
6951 Warner Avenue, Suite 256
Huntington Beach, CA 92647

VTAG

Operating System: CTS-300, RT-11

Keywords: • Recreation

VTAG is an exciting and challenging computer game for use with the VT100 video terminal with Advanced Video Option. Unlike many other computer games running on PDP-11 computers, VTAG does not require complex strategies and planning, thus providing a welcome respite from the ordinary rigors of computer programming and the tedium of data entry. VTAG is a game of escape and attack and changes dynamically right before your eyes. It is guaranteed to amaze and entertain.

The object of VTAG is to acquire as high a score as possible. When VTAG starts, the player is given the option of proceeding to play or reviewing the rules. The few pages of rules can be read at leisure. Eventually, the player proceeds to play the game. As each phase of the game starts, the VT100 screen is refreshed, revealing the floor plan layout of an old mansion. In the center of the mansion is a dungeon. In the dungeon are four monsters, which chase the player as the game proceeds. The player's direction of movement is governed by the four cursor motion keys on the VT100 keyboard. The player who is caught is eaten by the capturing monster. The player may be caught only three times before the game is over.

Points are acquired by "picking up" stones that are strewn on the floor of the mansion corridors. If the player picks up one of four magical stones in the mansion, the monsters turn into wimps that race to the safety of the dungeon. Extra bonus points are accumulated by capturing a wimp before any other wimp reaches the dungeon. Another bonus is collected by picking up all the stones.

Price: \$50

Contact: Peter McWha, General Manager
(613) 820-1517
LOGICAID LTD.
97 Craig Henry Drive
Nepean, Ontario K2G 3S8
Canada

VTPONG: RSX-11M Task to Play Pong, Using VT52 or VT55 Terminal**Operating System:** RSX**Keywords:** • Recreation

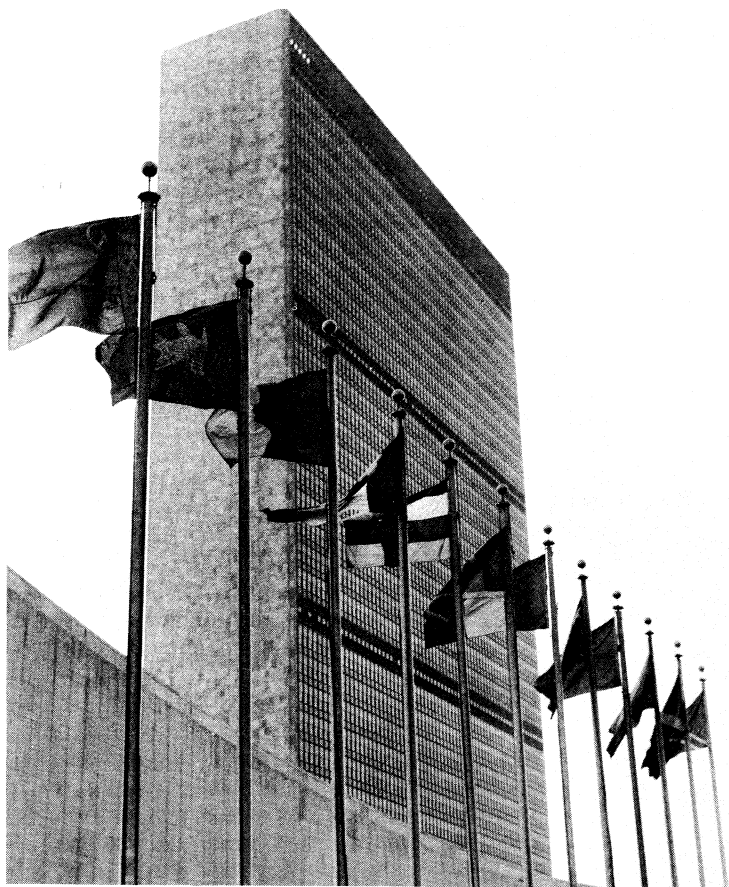
Memory required: 11,100 bytes.

If you play Pong on your TV, you will like playing VTPONG. You put the index and middle fingers of one hand sideways on the keyboard to move your paddle up and down; your opponent does the same. Moving both fingers one key closer to keyboard center jumps the paddle four steps instead of one. There are beeps, too: one for bounce, two for serve, and three for miss. Block digit scoring, right or left “wall,” and selectable paddle size and ball speed are also featured. DECUS number 11-327.

Restrictions: VTPONG requires RSX-11M system with “Unsolicited input CHAR.AST” and “Read with no echo” support.

Price: \$5 – \$225**Contact:** DECUS (see Introduction)

Government



CCS Municipality System

Operating System: RSTS

Keywords: • Accounts payable • Automotive • Billing
• Payroll

This program supports utility billing, payroll, credit union, vehicle licensing, and accounts payable applications.

A version of this product is available for the VAX computer.

Price: \$15,000 – \$75,000

Contact: Stuart M. Katz, President
(312) 480-9880

COMMERCIAL COMPUTER SERVICES, INC.
3000 Dundee Road, Suite 402
Northbrook, IL 60062

Dispatchers Aid

Operating System: CTS-300, RT-11

Keywords: • Property management • Telecommunications

This computer-aided dispatch information retrieval system for fire departments provides responsive incident address validation, apparatus assignments, and prefire planning information while maintaining status of apparatus and incidents.

Price: \$30,000

Contact: Abraham Brecher
(201) 663-1011

DIGITIZE, INC.
158 Edison Road
Lake Hopatcong, NJ 07849

Dog License System

Operating System: CTS-300, RSTS, RT-11

Keywords: • Documentation • Menu handlers

This computerized on-line real-time dog license billing system provides for updating and adding information and for inquiry into existing information as required. The menu-driven system provides ease of operation, editing and verification of all transactions, automatic assignment of account numbers, and automatic verification of tag numbers issued to eliminate duplication.

Additions, changes, and deletions can be made on line. Fees for tag payments, transfers, and duplications can be edited at any time. Adjustments to tag payment amounts and penalty amounts can be made. Tagged dogs that have died can be automatically deleted from the file at the end of the year, thereby preventing tags from being switched to other dogs. Price differences between kennel dogs and personal ownership are handled automatically. Transfer of dog ownership can be made without reentering all the information for the dog. Tag

inquiries can be made by both tag number and account number. Dog breeds are referenced by a 3-digit code, eliminating the need to enter the full name.

The Daily Transaction Report shows all tag entries made for the day, along with a recap showing the total number of each type of entry and the total income for the day. Other available reports include an alphabetical listing, alphabetical listing by zip code, delinquent alphabetical listing, delinquent alphabetical listing by zip code, breed list, tag listing, unused tag number listing, inactive owners listing, printing of dog license bills, and yearly recap.

Price: \$4,000 – \$6,000

Contact: James W. Sanderbeck, Vice President
(216) 489-1885

PM COMPUTER SERVICES CO.
630 – 30th Street, N.W.
Canton, OH 44709

GOV-11 (Governmental Management System)

Operating System: CTS-300, RT-11

Keywords: • Accounting • Billing • Taxes
• Text management

GOV-11 is a comprehensive interactive system for managing all aspects of small to medium-size county or municipal governments. The software system consists of nine modules: Accounts Payable, Accounts Receivable Sales Tax, General Ledger, Occupational License, Payroll, Property Tax, Sales Tax, Utility Billing, and Word Processing.

Each module includes the basic elements included in any financial package, plus many extras unique to state and federal reporting. GOV-11 has been designed for governmental entities that are acquiring their first computer system. The system provides user-friendly procedures and a comprehensive, easy-to-understand operating manual.

Each turnkey system includes initial on-site training and continuous support. Program modification and customization are available. A sample packet containing reports, documentation, and forms is available. Dealer inquiries are encouraged.

Price: \$15,000 – \$25,000

Contact: Robert L. Metzger, President
(504) 542-1479

DIGITAL COMPUTER SYSTEMS, INC.
31 Darrell Drive
Hammond, LA 70401

Government Payroll System

Operating System: CTS-300, RSTS, RT-11

Keywords: • Menu handlers • Payroll • Real time • Security

The on-line real-time Government Payroll System provides for complete computerization of employee pay records, interactive entry and editing of new payroll transactions, and current and year-to-date information available through inquiry. The program handles PERS, SPRS, STRS, and SERS, and its menu-driven technology is easy to use, providing recap information by fund and automatic warrant product for deductions at the end of each fund.

Available are add, change, and delete maintenance functions for all files, complete tax withholding if desired, complete fund and department accounting, up to 13 voluntary deductions, temporary deductions, and display of current and year-to-date information on CRT inquiry. Adjustments to an employee's pay become a part of the employee's permanent detail record.

Available are active and inactive alphabetical employee listing; certifying format indicated at end of each department; listing of all civil service employees; payroll register; warrants with year-to-date information on stub; monthly recap; deduction registers; monthly PER, SPR, STRS, and SERS reports; quarterly withholding tax reports; individual payroll ledger; W-2 forms; and special reports.

Price: \$6,000 – \$8,000

Contact: James W. Sanderbeck, Vice President

(216) 489-1885

PM COMPUTER SERVICES CO.

630 – 30th Street, N.W.

Canton, OH 44709

Housing Authority — Section 8

Operating System: RSTS

Keywords: • Data entry • Property management • Real estate
• Statistics

The on-line interactive Section 8 system replaces a tedious, error-prone manual undertaking with a simple, reliable system for automating a HUD Section 8 Rent Subsidy Program. The Section 8 system maintains tenant, landlord, and statistical information necessary to meet and exceed the federal government reporting standards placed on a Housing Authority agency. Screen-formatted data entry encourages user acceptance, decreases user training, and increases data integrity.

In addition to automating the clerical and reporting functions of a Housing Authority with a Section 8 program, the Section 8 system offers a consistency in accounting and in reporting in an otherwise volatile atmosphere in which an administrator's job longevity can depend on the political fortunes of others.

A version of this product is available for the VAX computer.

Price: \$9,000

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.
1010 S. Weinbach Avenue, P.O. Box 2469
Evansville, IN 47714

Housing Authority Tenant Accounting

Operating System: RSTS

Keywords: • Billing • Property management • Real estate
• Statistics

The Tenant Accounting System is an on-line interactive system that automates the record keeping and reporting and drastically reduces the amount of handwork normally associated with public housing authority offices. The record-keeping problems of public housing authorities, no matter what size, are virtually the same: massive amounts of paperwork, the need for enormous amounts of tenant and statistical information and accounting control, HUD reporting requirements, and information necessary to fulfill requests of other federal, state, and local agencies. The Tenant Accounting System automates those clerical and reporting functions while providing certain intangibles to this, and future, administrations: a continuity of accounting and a continuity of information.

A version of this product is available for the VAX computer.

Price: \$18,000

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.
1010 S. Weinbach Avenue, P.O. Box 2469
Evansville, IN 47714

LEADSSM (Logistics Entry and Analysis Data System)

Operating System: RSTS, UNIX

Keywords: • Data entry • Printing • Report writer

LEADS is an interactive package used to enter and edit data for logistic support analysis records required of defense contractors under MIL-STD-1388. LEADS significantly reduces task analysis and data sheet preparation time by eliminating duplicate entries. LEADS automatically transfers derivable information from previous entries to other required fields, eliminating errors, simplifying updates, and allowing for global changes and special management reports.

LEADS prints out the government-required logistics data sheets at any time, if necessary, and interfaces directly with government-furnished summary report software.

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A version of this product is available for the VAX computer.

Price: \$50,000

Contact: Eli Schneider, Project Manager
(703) 979-8220

EVALUATION RESEARCH CORP.
1755 Jefferson Davis Highway, #800
Arlington, VA 22202

Process Supervisory Control

Operating System: RSX

Keywords: • Chemical • Manufacturing • Process control
• Report writer

This package offers supervisory control and report generation. The package is applicable to most process control applications, with special emphasis on water and waste water treatment.

Price: \$25,000 – \$100,000

Contact: James Morgan
(605) 692-6145
DAKTRONICS, INC.
P.O. Box 128
Brookings, SD 57006

Tax-11

Operating System: CTS-300, RSTS, RT-11

Keywords: • Property management • Real estate • Taxes

Tax-11 is a comprehensive interactive ad valorem (property) tax assessment and collection package. It is designed to provide on-line inquiry into taxpayer information and to provide flexibility in maintenance of taxpayer information, discount/penalty rates, property values, exemption values, and tax rates.

A version of this product is available for the VAX computer.

Price: \$10,000 – \$16,900

Contact: Ronald R. Kirchhoff
(806) 293-4286

KMK ENTERPRISES, INC.
302 West 8th
Plainview, TX 79072

Title System

Operating System: CTS-300, RT-11

Keywords: • Documentation • Menu handlers • Real time
• Security

This on-line real-time title fee system provides complete computerization of title additions, title voids, replacement titles, inactivation of titles, and recording of duplicate titles. Major features are notation and discharge of liens and the printing of titles, memo titles, and intercounty surrender forms. Inquiry capability of both active and inactive titles by title number or owner's name is provided. Interactive files used are title master file, title history file, lien master file, dealer master file, bank master file, city reference file, and deputy file.

Title System double checks that all tapes and files are computed correctly and properly signed, eliminates the need to index titles and to tear apart or sort titles each day, eliminates cancellation of old title when new title is issued, eliminates title search for intercounty surrender forms received and manual title search for notations or discharge of lien, eliminates sorting of intercounty surrender forms issued, and reduces the number of voided titles. In addition, titles have no strike-out or improper alignment, memo titles can automatically be printed at any time, an alphabetical index allows for easy title search without title number, tax forms are prepared by computer, and state reports do not have to be prepared manually.

Price: \$4,000 – \$6,000

Contact: James W. Sanderbeck, Vice President
(216) 489-1885

PM COMPUTER SERVICES CO.
630 – 30th Street, N.W.
Canton, OH 44709

Voter-11

Operating System: CTS-300, RSTS, RT-11

Keywords: • Information management • Recruiting
• Report writer

This comprehensive voter registration and reporting package is designed to provide on-line inquiry into voter information and to provide flexibility in maintenance of the file when used for selection of prospective jurors. Features include:

- Alphabetical and numerical listing of the master file
- Voter registration card generation
- Report of deleted/purged voters
- Random jury selection

A version of this product is available for the VAX computer.

Price: \$5,650 – \$7,840

Contact: Ronald R. Kirchhoff
(806) 293-4286

KMK ENTERPRISES, INC.
302 West 8th
Plainview, TX 79072

Voter Registration System

Operating System: CTS-300, RSTS, RT-11

Keywords: • Documentation • Menu handlers • Real time
• Security

The on-line real-time Voter Registration System provides for complete computerized recording of registered voter additions, changes, and deletions. Complete election accountability, jury lists, and automatic state reporting as required by law are provided. Inquiry capability by county ID number or by name, as well as automatic checking for duplication before addition, ensure accurate, timely voter information.

Interactive files include voter master file, state update file, precinct description, state cross-reference, election update, state election update, and annual voter purge.

Voters are sorted alphabetically by precinct, and voter lists are generated to post at polling places. The software generates signature poll books; reports of all registered voters by party; jury selection lists and labels; a report by congressional, House, Senate, or court district; and reporting of all registration activity to the state. The Voter Registration System also updates monthly the county file from state tape, generates voter lists and labels, creates an annual voter purge list and labels, and generates a voting history (five elections for four years) and accountability reports.

Price: \$4,000 – \$6,000

Contact: James W. Sanderbeck, Vice President
(216) 489-1885

PM COMPUTER SERVICES CO.
630 – 30th Street, N.W.
Canton, OH 44709

Health Care



Elizabeth Crews/Stock, Boston

ABS (Anesthesia Billing System)

Operating System: RSTS

Keywords: • Accounts receivable • Billing • Medical
• Report writer

ABS is designed to calculate fees based on time, using either CPTs or RVS. The system offers a complete audit trail of all financial entries to ensure total control; extensive information, either in an aged summary or in detail for answering patient telephone inquiries; and individualized procedure codes, including modifiers, descriptions, and prices. Diagnosis codes are maintained either individually or through a central file. Special messages and individualized dunning messages per user are provided, selected automatically based on the aged balance and payment transactions. Statement codes that allow exceptions on dunning messages, statements, and finance charges are provided. Automated batch processing of programs is provided for cyclically generated reports.

Reports generated by ABS include edit, patient journal, accounts receivable, production analysis, revenue summary, year-to-date production revenue, budget payments, agency suspense, credit balance, and others.

A medical statistics screen is available that allows the user to trace medical information by patient.

Price: \$7,500

Contact: Dick Pugh
(206) 343-5656
MED-DATA, INC.
800 4th and Battery Building
Seattle, WA 98121

Archival System

Operating System: DSM (MUMPS)

Keywords: • Medical • Report writer • Statistics

The HDCV Archival System provides on-line computer access to historical patient information. Data is automatically extracted through the Patient Data Management (PDM) System into the Archival System, providing a complete master patient index (MPI). The Archival System speeds the registration process and provides a reference for the medical records department, retrospective statistical studies, and historical and cross-reference data to the accounting department to assist in debt collection.

Access to the archival master file can be by archive number, by patient name through an alphabetical cross-reference file, and by a "soundex" method that maps like-sounding names to the same index. A report generator module also allows each hospital to design its own reports and to print them according to its particular schedules.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Dr. Richard C. Howe, Director of Marketing
(804) 857-4551

HOSPITAL DATA CENTER OF VIRGINIA
962 Norfolk Square
Norfolk, VA 23502

AutoScript Pharmacy System

Operating System: CTS-300, RT-11

Keywords: • Accounts receivable • Medical • Pharmaceutical

AutoScript systems are designed for automating pharmacy practices. Products include turnkey (stand-alone) or networked (on-line) systems. Community pharmacies as well as chain pharmacies or drug wholesalers wishing to offer this service can effectively use AutoScript units as stand-alone, clustered, or on-line systems.

Applications include retail pharmacy, accounts receivable, and nursing home pharmacy, including support for unit dose functions. Another option provides for support of durable medical equipment either in a stand-alone system or integrated with Pharmacy. Multiple terminals are supported at remote stores connected to an on-line system. Multiple terminal support, either local or remote, for turnkey stand-alone systems is standard. All systems are field expandable and field proven.

Price: \$8,000

Contact: John P. Grise
(203) 242-2358

AUTOSCRIPT, INC.
11 Mountain Avenue
Bloomfield, CT 06002

Bacteriology System

Operating System: DSM (MUMPS)

Keywords: • Data base management • Medical
• Report writer • Statistics

The HDCV Bacteriology Information System provides a computerized data management system for a hospital microbiology laboratory. The on-line system maintains all patient specimen information and produces many statistical reports. The system also provides interim reporting of specimen results, including drug sensitivities, a complete report of all bacteriology work for a patient upon discharge, a daily master log of all specimens, abnormal-results reporting, and instant 24-hour access to the bacteriology information stored on the computer. The Bacteriology System may be utilized simultaneously with the Laboratory, Blood Bank, Epidemiology, Pharmacy, and other medical systems available through HDCV.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Dr. Richard C. Howe, Director of Marketing
(804) 857-4551

HOSPITAL DATA CENTER OF VIRGINIA
962 Norfolk Square
Norfolk, VA 23502

Basic Image Processing System for CAT Scans

Operating System: RT-11

Keywords: • Graphics • Medical • Nuclear

Memory required: 16K.

This complete image-processing software system, written in FORTRAN/RT-11, contains programs for decoding magtapes in any arbitrary format and transferring selected contents to disk. Subsequent line-by-line processing of the CAT scan images produces averages, laplacians, gradients, median smoothing, and hyperbolic grey-level reassignments. An application of the system to images from an Ohio Nuclear Delta Scan is described. DECUS number 11-321.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

CARE/DM System

Operating System: RSTS, RSX

Keywords: • Accounts receivable • Dental • Medical

CARE/DM is a medical and dental office automation system used interactively in the practice as a tool to capture, control, process, and analyze patient service information. Emphasis has been placed on accounts receivable management: service capture, billing, insurance forms preparation, and collection control. The primary design goal is to provide a single source of information entry with the automatic maintenance, application, and distribution of patient service information. Uniform processing procedures have been implemented to increase the accuracy, productivity, and effectiveness of administrative personnel.

The system includes patient information registration, patient billing, insurance processing, microfiche records/magnetic history, service recording, reporting, patient and room scheduling, recall-notice preparation, referral tracking, contract payment plans, collection tracking and follow-up, letter writing, dental processing, model and storage inventory, access control and help, mail messages, notices, and parameter selection to provide customization for all medical/dental specialties without programming changes.

CARE/DM's parameter-driven structure provides the flexibility needed for the multispecialty environment, with no limit on the number of physicians or patient accounts (subject only to the size and performance of the CPU and disk).

A version of this product is available for the VAX computer.

Price: \$15,000 – \$35,000

Contact: Kent M. Brost
(217) 522-2273

CARE INFORMATION SYSTEMS, INC.
3009 S. Sixth Street
Springfield, IL 62703

CDS (Clinical Data System)

Operating System: RSX

Keywords: • Data base management • Decision support
• Graphics • Statistics

CDS is a comprehensive data management system with graphics, statistics, and full user-configuration editors for use in hospitals and clinics. The system is designed for clinicians, doctors, and nursing staff and requires no computer programmer support.

Price: \$9,000 – \$30,000

Contact: Sales Manager
(01) 994-6477

CLINICAL COMPUTING LTD.
10 Barley Mow Passage
London W4 4PH
United Kingdom

Clini-CAL[®] Laboratory Information System

Operating System: RSX

Keywords: • Information management • Medical
• Quality control • Statistics

The comprehensive turnkey Clini-CAL Laboratory Information System for both large and small clinical laboratories is written in FORTRAN and interfaces with all lab instruments and devices. Customized to meet a laboratory's specific needs, Clini-CAL computerizes data management, quality control, sample processing, and billing. The system can be used for clinical laboratory pathology, pulmonary function, and the pharmacy.

The system provides the following benefits:

- Improved patient care — reduced turnaround time for routine and stat tests
- Elimination of errors — legible, concise test requests generated

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- Simplified statistical analysis — mean, standard deviation, and CVs for QC specimens calculated, as well as CAP workload statistics, histograms, and population studies over any time period
- Abnormal results identified — delta checks performed and abnormal, critical, and panic values flagged
- Elimination of misplaced, erroneous billings

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Allan G. Penny
(617) 237-7055

SYSTEM ANALYSIS CORP.
1 Hollis Street
Wellesley, MA 02181

Clinic-Manager

Operating System: RSTS

Keywords: • Accounting • Dental • Medical • Statistics

Clinic-Manager is fully integrated, interactive, and complete. The software was designed from the user's viewpoint, and the package's CRT screens and logic are simplistic in nature.

Software features include patient accounting and billing, claims, claim monitoring, practice statistics, appointments, medical records, general ledger, fee modeling, payroll, accounts payable, and supplies inventory.

Clinic-Manager is modular in design to enable users to begin with a base system and to add features as they mature.

A version of this product is available for the VAX computer.

Price: \$5,000 – \$75,000

Contact: Stan Larson
(405) 943-9818

EDP SYSTEMS, INC.
4900 N. Portland
Oklahoma City, OK 73112

COMPCARE (Comprehensive Care Centers)

Operating System: RSTS

Keywords: • Billing • General ledger • Medical • Payroll

The COMPCARE system covers the entire range of patient history, billing (including third parties), payroll, general ledger, statistics, grant reporting, HHS reports, and so on. The system components are interactive, friendly, and complete — for use in-house or on our time-share system.

A version of this product is available for the VAX computer.

Price: \$25,000 +

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.
1010 S. Weinbach Avenue, P.O. Box 2469
Evansville, IN 47714

COMPU-CARE — Accounts Receivable for Long-Term Health Care Facilities

Operating System: RSTS

Keywords: • Accounts receivable • Audit • Medical
• Menu handlers

This menu-driven set of programs can handle all the charges, receipts, agings, and electronic or tape claims submittal for long-term care environments. The on-line, interactive system has an excellent audit trail, including batch controls on all data; fast, effective data entry on either CRT or hard-copy terminals; straightforward interfacing to COMPU-CHART medical records, to general ledger, and to other applications; extensive documentation; easy customizing; and includes third-party electronic billing and patient personal-funds programs.

Price: \$10,000 – \$20,000

Contact: David L. Ingram, Vice President
(219) 753-0411

COMPU-SHARE
2 Chase Park
Logansport, IN 46947

COMPU-CHART — Medical Records Program for Long-Term Care Facilities

Operating System: RSTS

Keywords: • Data entry • Medical • Pharmaceutical
• Report writer

The on-line, interactive medical records system for long-term care facilities allows medical records personnel to enter all patient data, both personal and medical, and to generate up-dated physician's orders, medication records, and treatment records. The system uses either problem or group charting. Features include specialized orders, including dietary, pharmaceutical, and lab work; physical, speech, respiratory, occupational, and activities therapies; and extensive documentation. The system can interface with COMPU-CARE Accounts Receivable System to eliminate costly duplication of data entry.

Price: \$3,000 – \$6,000

Contact: David Ingram, Vice President
(219) 753-0411

COMPU-SHARE
2 Chase Park
Logansport, IN 46947

COMPU-TRIEVE — Report Writer and Data Manager

Operating System: RSTS

Keywords: • Data base management • Medical
• Report writer

This on-line interactive system allows reports to be written from existing files; or, unsophisticated users can set up their own files, based on their own criteria. The system then creates the data entry program that prompts the user for the date to be entered. User-defined criteria and reports can be printed. The report criteria can be stored and reports rewritten or additional criteria set up.

Price: Available upon request

Contact: David Ingram, Vice President
(219) 753-0411

COMPU-SHARE
2 Chase Park
Logansport, IN 46947

ConTrol — Materials Management Information System

Operating System: DSM (MUMPS)

Keywords: • Inventory • Materials handling • Medical
• Purchasing

ConTrol is a real-time, fully automated information system for hospitals, integrating all aspects of materials handling into one easy-to-use system. ConTrol frees personnel from time-consuming procurement problems. Users can capture, process, display, and retrieve information instantly, allowing them to do their jobs more quickly and more efficiently. In addition, the system provides a large variety of administrative lists, reports, logs, and audit trails on demand. The major modules are as follows:

- The Catalog System encompasses both purchasing and inventory, allowing it to manage and update catalogs for a wide variety of applications, such as pharmacy and surgical supply.
- Vendor Management creates and maintains a file of valid vendors and allows users to track and maintain current and potential vendors on an item-by-item basis. The module coordinates purchase contracts and automatically generates and tabulates bid requests.

- Purchase Requisitioning creates requisitions based on budget, inventory balances, contract/bid data, and chart of account codes on an automatic or manual basis. Other functions include recall and cancelation of requisitions, plus several levels of approval based on authority codes and/or encumbrances.
- Purchasing automatically creates and prints purchase orders based on new or previously entered data. The module checks vendor status; provides descriptions, price, and unit data; and updates delivery information and inventory. When interfaced to AMS's voucher-based Accounts Payable System, it acts as an audit check in the creation of vouchers.
- Delivery schedules, monitors, expedites, and confirms deliveries in a real-time mode. The extensive audit trail can be interfaced to the spending controls in Budget Management.
- Receiving updates incoming item data and monitors inventory maintenance. It interacts with "material on order," updates files on outstanding delivery information, and provides various reports between their projected and actual receiving.
- Order Entry allows material ordered by a user to be entered directly at the terminal, providing a flow-through process for future issuance, back ordering, or purchase requisitioning. It validates catalog numbers, checks balances, and maintains a data base of unfilled orders and "material on order" for follow-up action. All patient charge data is updated as well.
- Inventory Management contains the data bases for all inventory transactions. Its Distribution Analysis Data Base determines whether purchases are required. The core of the ConTrol System, it keeps a perpetual inventory in real time, automatically manages back ordering, and generates purchase requisitions based on minimum balances, bids, and contracts.

Those programs are highly interactive. Common entries need be entered only once to update all aspects of the system, eliminating redundant data problems.

The ConTrol Materials Management System is available in a choice of turnkey or economical time-shared packages with full interface capabilities.

Price: \$55,000

Contact: Matthew Ehrlich

(516) 764-5953 or (800) 645-5959

ADVANCED MEDICAL SYSTEMS

36 Maple Avenue

Rockville Centre, NY 11570

D16 and ROTA Programs for GAMMA-11

Operating System: RT-11

Keywords: • Graphics • Medical

Memory required: 12KW.

The program D16 makes it possible to display part of dynamic study in D16 mode with absolute or relative scaling on the VSV-01 video display and to rapidly see the effect of different parameters — absolute/relative scaling, LT, UT, black/white versus color, UM switch — on the display. D16 works with 2- or 4-bit maps in VSV-01. Dynamic single or multigroup data and display parameters are shown simultaneously. For further documentation, see file D16.DOC.

The package ROTA allows one to rotate or mirror-image a dynamic study file or parts of it. The program, written for use in T1-201 emission tomography of the heart together with the SPETS-11 software, enables one to reconstruct slices parallel to and perpendicular to the long axis of the heart individually for each patient. The angle can be given as a parameter or interactively. The program can also be used to determine angles on the VSV-01 video display. Dynamic single or multigroup studies with $64 \times 64w$ or $64 \times 64b$ matrices are handled. For further documentation, see file ROTA.DOC.

Some useful subroutines are also distributed together with D16 and ROTA. DECUS number 11-587.

Restrictions: PRE.SAV, an undocumented utility originating from Uppsala, Sweden, appears to work but is not absolutely necessary for compiling ROTA; see ROTA.DOC.

Note: Complete sources are included except for the VAVPKG/VSVLIB package, which originates from Erasmus University, Rotterdam, Holland, and has been distributed by GAMMA-11 Software Centre, Cologne. The utility PRE.SAV originating from Uppsala is also without sources.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

Dentalmate

Operating System: RT-11, TSX-PLUS

Keywords: • Accounts receivable • Billing • Dental
• Insurance

Dentalmate is a complete receivables and billing system designed for a single-dentist practice or a multiple-dentist office and can interface into our integrated accounting package (G/L, A/P, payroll). The easy-to-use menu-driven software features interactive entry of charges, payments, and adjustments, with editing capabilities before posting. Account inquiry allows instant access for balances due. Statements and insurance claim forms can be printed either monthly or on demand.

Numerous management reports include unbilled, aged and selected account receivables, a delinquent ledger, a cash summary, and revenue and usage statistics. Additional features include an appointment scheduler, patient-recall notices, and mailing label printing.

Benefits derived from using Dentalmate are increased cash flow, reduction of overdue account receivables, less time spent on billing, and easier/faster access to patient information.

A version of this product is available for the VAX computer.

Price: \$5,200 – \$8,200

Contact: Armand Van Velthoven
(303) 574-8086

PROFESSIONAL COMPUTER SERVICES, INC.
2345 N. Academy Boulevard, Suite 209
Colorado Springs, CO 80909

Dentist/4000

Operating System: RSTS

Keywords: • Accounting • Dental • Office systems
• Word processing

This package provides patient history, accounts receivable, billing, general ledger, word processing, accounts payable, and sales analysis.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Andrew Yassenchak
(201) 231-9400

UNITRONIX CORP.
197 Meister Avenue
Somerville, NJ 08876

DIGLIB

Operating System: RT-11

Keywords: • Graphics • Mapping

Memory required: Up to 3,750 words.

This library of FORTRAN subroutines supports a flatbed digitizing tablet. The program was written for a Summagraphics tablet interfaced via an RS232 port to a MINC 11/23 lab computer running RT-11 but is readily adaptable to other hardware. No intelligence of the digitizer is assumed, except that a cursor-set hardware origin of axes may be used. The routines can set a local origin of axes and axes orientation and a scale factor and allow transmission of messages to the calling program from a menu area on the digitizer. Routines are provided for digitizing cine-film-type material and creating a structured data file. Error correction can be made on individual points, or whole frames can be redigitized. The routines are written to minimize

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memory usage. A program using DIGLIB for measurement of the enclosed area within a digitized shape is also included. DECUS number 11-550.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

Doctor System/3000

Operating System: RSTS

Keywords: • Accounting • Medical • Office systems
• Payroll

This package provides patient history, billing, accounts payable, general ledger, word processing, accounts receivable, and payroll.

A version of this product is available for the VAX computer.

Price: \$2,000 – \$20,000

Contact: Andrew Yassenchak
(201) 231-9400

UNITRONIX CORP.
197 Meister Avenue
Somerville, NJ 08876

DOSRES (Quantal Dose-Response Analysis)

Operating System: RSX

Keywords: • Chemical • Statistics

Memory required: 3,600 words.

DOSRES computes the median dose and other dose-response curve parameters from a set of quantal observations. The sophisticated statistical developments incorporated in DOSRES permit input of individual (ungrouped) quantal observations. (Traditional probit or logit techniques demand grouping subjects and weighting data and poorly handled 0% and 100% responses.) DOSRES is particularly suited to analyzing drug studies in human subjects, for whom uniform dosing is rarely feasible.

Dose-response data are input from terminal, disk, or tape. The best-fitting logistic dose-response curve is computed by maximizing the likelihood function; as the solution is nonanalytical, estimates of the curve parameters are refined iteratively. Output comprises median dose (ED(50)) and standard logit-response line. The latter aids in calculating other key values such as the ED(95) and in constructing the dose-response graph. DECUS number 11-411.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

Episodic Billing System

Operating System: RSTS

Keywords: • Billing • Dental • Medical • Statistics

The on-line interactive Episodic Billing System is designed to perform billing functions and collection of statistics for offices that treat multiple entries of a patient into the system as separate charge items. The system is particularly useful if all charges for a patient are accumulated until the patient is discharged (from minutes to an indefinite period of time after start). A statement for services is prepared under a unique account number. If that person enters the system again for additional services, all billing and statistical information is treated as another unique case.

The system is suited for use in either a stand-alone operation or a time-sharing environment.

The programs occupy 2,600 blocks. Each account number in the patient master file requires two blocks, and each test in the test master file occupies one-half block.

A version of this product is available for the VAX computer.

Price: \$16,000

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.
1010 S. Weinbach Avenue, P.O. Box 2469
Evansville, IN 47714

Episodic Billing System

Operating System: RSTS

Keywords: • Accounts receivable • Billing • Medical
• Statistics

The interactive Episodic Billing System handles the billing, collection, and statistical-gathering functions in radiology and pathology. The system is useful when all charges for the patient are accumulated until services are completed and when patient accounts need not be kept active for future encounters.

The system offers reminder messages on statements, dunning letters, and optional automatic writeoffs of certain accounts. Also, the system can display all activity in a patient's account, accept data on other computer media, produce media for insurance companies' computers, and search for patients by either account number or name.

The system produces a complete set of management reports, patient and insurance statements, and a detailed trail.

The system is suitable for use in either a stand-alone or a time-sharing environment.

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A version of this product is available for the VAX computer.

Price: \$7,500 – \$12,500

Contact: Philip Lieberman, President
(812) 424-4974

PHILIP LIEBERMAN & ASSOCIATES, INC.
514 S.E. First Street
Evansville, IN 47713

European MINC Package #1 — Utilities

Operating System: RT-11

Keywords: • Data conversion • File transfer • Printing
• Scientific

The following is a brief description of the programs:

- VALIST — BASIC program lister
- ALPHA — Researches and arranges in alphabetical order all the variables used in a program
- DATTIM — Ensures that new files are dated
- WCARD4 — File listing and transfer utility
- PGMVAR — Search program for variables
- UNPAK — Unpacks a packed BASIC file to make the program easy to read
- MANTRA — Provides a pretty-print on MINC BASIC program
- DIRT — File management directions sort a new version of the existing DECUS program, with improved print facility
- FULSCAR — Full screen-management package, a debugged version of existing DECUS program

DECUS number 11-572.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

European MINC Package #2 — Lab Management

Operating System: RT-11

Keywords: • Computer-aided instruction
• Data base management • Report writer

The following is a brief description of the programs:

- Lung Function Report — A medical report generator
- General-Purpose Program — To input, record, and list data in columns
- Bibliography — A package permitting storage and retrieval of bibliographical information
- BK.LAB — Order processing for biochemical clinical laboratory
- INRET — Sequential files DATA BASE allows a non-computer expert to create and manage a data base
- Documentation — Stores and retrieves literature citations, including code, author, title, and so on
- XREF — Produces a FORTRAN cross-reference listing

- Drugs — A stock management package
 - MCQ — Multiple-choice question program — a computer-assisted learning tool
 - MEMPRG — Storage and retrieval program for memos, reports, and so on
 - Bibliographic — 12 programs for research on bibliographies
- DECUS number 11-573.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

European MINC Package #3 — Data Acquisition

Operating System: RT-11

Keywords: • A/D, D/A • Biology • Data collection
• Mapping

The following is a brief description of the programs:

- MINC LOG — Software package for general data logging
- ADFAST — Programmable fast A/D sampling routine
- DATAIN/PLOTDA — Analog biological data handling and selectable plotting HP-9872B plotter
- PLANT PHYSIOLOGY — Voltage clamp and data acquisition program

DECUS number 11-574.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

European MINC Package #4 — Plotters

Operating System: RT-11

Keywords: • Graphics • Mapping

The following is a brief description of the programs:

- PLOT 2D — A cartesian 2-dimensional plot program
- TRID — A tridimensional plotting package
- CONTOR — EEG, voltage contour map spatial distribution TEK 4010-1 plus 4631 hard copy
- DECUS 11-418 — Use of a Tektronix 4662 plotter
- BOULIB — Provides a full graphic diagram capability for VT105, drawing up to 16 simultaneous graphs
- SERVOGOR — BBC 281 plotter extensive support via serial interface SLUO
- BARBAR — A bar graph plotting package
- FORTRAN graphics support for the VT105; two improvements to 105 LIB and two new subroutines added to the package
- Three-dimensional multiwaves graphic package
- FORTRAN support for HP-9872B/C plotter, VT105 graphic features, BASIC lettering

DECUS number 11-575.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

European MINC Package #5 — Data Analysis

Operating System: RT-11

Keywords: • Biology • Dental • Medical • Signal processing

The following is a brief description of the programs:

- CURFON — A regression program cleaning out experimental spectrum
- USQUE — User question (treatment of surveys)
- DAMIX — Computer mix of variables for regression; a new version of a MAP 1 program
- ROTAN — Rotational signed analysis program; Fourier signal analysis (up to 20 kHz input signal)
- EMAFIT — High-precision experimental curve fitting
- CEPH — Orthodontic evaluation of lateral skull radiographics, using a (SAC) Graf pen and a GP-6-20 digitizer
- AVERAG — A general average package for biochemical signal processing
- VARRITT — A 1-way analysis of variance
- Plant identification by generalized least square method

DECUS number 11-576.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

European MINC Package #7 — Instruments

Operating System: RT-11

Keywords: • Graphics • Instrumentation • Mapping
• Scientific

The following is a brief description of the programs:

- TRANEV/EXFIEV — Processor of data collected from Rockland FFT 512/S spectrum analyzer
- ANALOG to PLOG, TEXPLO, and ACHS — Collection of programs to use HP7225 plotter, via IEEE
- INFARED spectroscopy application program; acquire data from a Perkin Elmer 225; draw the spectrum on a VT105 plot on chart recorder
- MCIMS 1 — Enables MINC to transfer from a SOLATRON IMS-3510 master unit
- VOLTS — Control of a power supply that does not contain IEEE interface, using an HP-3495A scanner
- ACQR — Monitoring and control of a 3-phase machine
- GR 1688 — Program support for measuring all components of GR-1688 manual: Digibridge GENRAD type GR 1688/IEEE
- MINC — BASIC and FORTRAN IV support of the TEKTRONIX 7612D digitizer

- JOYCE-LOEBL — Disk centrifuge application program HP-7225A plotter (or similar)
 - GAMMA counters real time on-line data acquisition program
 - RHODE and SCHWARZ NGPU — Power supply support package
- DECUS number 11-578.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

EVOKE

Operating System: RT-11

Keywords: • A/D, D/A • Mapping • Real time
• Signal processing

Memory required: 64K bytes.

This program was designed to collect volume-conducted brain stem potentials evoked by auditory stimuli. Responses are collected over a 30-msec time frame — 5 msec pre- and 25 msec poststimulus. Sampling is at 10,000 samples/sec. Summed activity is displayed on line, using an oscilloscope, and off line, on a VT105. Four runs are maintained active on the system and can be manipulated, using routines for add, subtract, point smooth, cross-correlate, and z-score transform. Hard-copy plotting is contained in a subroutine passed the data array. Sampling rate, A/D-D/A address, and numbers of samples/run are easily modifiable in the MACRO routine. DECUS number 11-552.

Note: Developed on MINC-11; applicable to other PDP-11 systems.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

GAMMA-11 German-Language Clinical Applications Programs (Part 1)

Operating System: GAMMA-11, RT-11

Keywords: • Medical • Nuclear

Memory required: Standard GAMMA-11 configuration.

The programs in this package are designed to perform analyses on various clinical procedures done in a nuclear medicine department. The programs included in version 1 are designed for the evaluation of lung perfusion, lung ventilation, liver/gallbladder function, renal tubular function, and parotid gland function. A program to create functional images of organ function is included, as is a utility program for the evaluation of camera homogeneity. A text file on the distribution media, READ.ME, is provided to explain the directory of programs as well as procedures for running the programs on the demonstration files provided. DECUS number 11-393.

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Note: Documentation is written in German. The BASIC programs on the media (for example, CURVE.BAS) run successfully only under the GAMMA-11 BASIC VIB interpreter. The FOCAL programs on the media require the interpreter, as supplied.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

GAMMA-11 German-Language Clinical Applications Programs (Part 2)

Operating System: GAMMA-11, RT-11

Keywords: • Medical • Nuclear

Memory required: 48K words.

The programs in this package are additions to the existing GAMMA-11 German-Language Clinical Applications Programs package (DECUS number 11-393). The programs included in version 1A are for use on the evaluation of cardiac nuclear studies. The programs perform evaluations of regional ejection fraction and wall motion (John Idoine et al., Joint Program in Nuclear Medicine, Harvard Medical School), minimal transit times (W. H. Knapp et al., Deutsches Krebsforschung-Zentrum), ejection fraction from first-pass list-mode data (C. M. Kirsch, Peter Bent Brigham Hospital), ejection fraction from gated blood-pool list-mode data (R. Knopp, University of Bonn), count densities along radial segments of myocardial thallium images (W. Mueller-Schauenberg et al., University of Tuebingen), and edge-finding and ejection fraction calculations from gated first-pass data (H. Sochor et al., Krankenhaus D. Stadt Wien). DECUS number 11-439.

Associated documentation: GAMMA-11 documentation set, *FORTRAN-IV Language Reference Manual*, and *FORTTRAN-IV RT-11/RSTS-E User's Guide*.

Note: Sources for program set "RVG" have been deleted by author request; all other programs include complete sources. See DECUS number 11-393 for Part 1 of GAMMA-11 German-Language Clinical Applications Programs.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

HDS/II (Healthcare Data Systems)

Operating System: RSTS

Keywords: • Billing • Financial analysis • Payroll
• Pharmaceutical

This comprehensive interactive system is designed for long-term health care facilities. The system is divided into several modular subsystems that may be implemented separately or in combination. The various components are Patient Accounting and Information System

(PAIS), Medical Records System (MERECS), Patient Funds System (PFUN), Payroll and Staffing System (PASS), Personnel Information System (PINS), Accounts Payable System (APS), and Uniform Accounting System (UAS). Some outstanding features are third-party billing, automatic Medicare/Medicaid reconsideration, automatic crossover of coverage, all parameter-driven systems, remote processing capabilities, and multiple terminal support.

Installation includes on-site training and conversion and user manuals with continuous update service.

Price: Available upon request

Contact: David M. Pollack, President
(914) 423-3623

ADL DATA SYSTEMS, INC.
50 Stratton Street South
Yonkers, NY 10701

HP-9872 Plotting Package for Use with MINCs

Operating System: RT-11

Keywords: • Graphics • Mapping • Medical • Scientific

Memory required: 64KB.

This powerful and comprehensive plotting package consists of FORTRAN-callable subroutines for using an HP-9872 Graphics Plotter with MINC computers. The main objectives of the package are to free the user from having to acquire detailed knowledge of the hardware and software aspects of the plotter for its effective usage and to provide routines that generate standard plots of report quality, with minimal input from the user, who needs but minimal knowledge of the package.

This package features linear or logarithmic mapping along either or both axes, numerical labels along axes, tic marks, grid lines, axes titles, plot title, character strings with super- and subscripts, symbols at data points, different types of lines between data points, 5 types of single frames, 14 types of multiple frames with shifted origins, line-type legend blocks, informative legend blocks, and auto ranging. DECUS number 11-540.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

HTP (Hemodynamic Tracking Profile)

Operating System: RT-11

Keywords: • Biology • Medical

Memory required: 60K.

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This collection of programs, written by the Anesthesia Section of the Clinical Center at the National Institute of Health, aids in the study of certain cardiorespiratory parameters. The components of the Hemodynamic Tracking Profile are:

- HEMO, a storage program to send up to 240 sets of data to external storage
- CALLBK, a retrieval program to list all data sets stored by HEMO
- CRASH, a recovery program to be used should HEMO crash
- CALC1, a modified version of HEMO that calculates derived variables but does not store them externally, as HEMO does

DECUS number 11-455.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

InteRx™

Operating System: DSM (MUMPS)

Keywords: • Accounts receivable • Inventory
• Pharmaceutical • Retail

InteRx is a complete on-line interactive retail pharmacy system with optional inventory, accounts receivable, and institutional modules. Originally developed for the community pharmacy, the InteRx system has been expanded for use in nursing homes and hospitals.

Work is performed in an interactive environment at a CRT utilizing a full-screen format; that is, the user specifies the function — for example, “entry of an Rx” — and the CRT screen is filled with prompts at half intensity and entries for each prompt at full intensity. Patient profile information appears in the same fashion, making it easy for the user to distinguish between header and patient information.

InteRx is extremely flexible so that it can be set to meet each customer's needs rather than vice versa. Since many parts of the system are parameter driven, InteRx can be tailored to each user. InteRx eliminates the need to fill out third-party claim forms, makes rejected claims easy to correct, eliminates patient profile ledger cards, accurately prices prescriptions, and provides useful management reports. As an application area, the pharmacy is probably one of the best examples of how microcomputers and a complete software system can bring about a significant cost benefit and an improved operating environment in a defined medical and business area.

The features of InteRx provide:

- On-line patient profiles, including allergy and diagnosis; patient lookup by name or number; and simple procedures for changing and adding profile information

- Automatic refills by entering Rx number, automatic production of prescription labels and receipts, directions entered from MD's prescription in Latin and printed in English or Spanish, and precautionary warnings as part of Rx label
- Automatic third-party billing and resubmission of rejected claims, drug price updates, drug price inquiry, special pricing, and provision for compounded prescriptions
- Automatic checks for allowable number of refills, refill too soon, nonrefillable drugs, less than effective medications, drugs not covered (by plan), and interaction warnings
- Dispensing and receipts reports, operating statistics, and patient lists and profiles

The Institutional module of InteRx includes on-line patient admission functions, bed census reports, on-line creation and modification of physician orders, production of physician orders and medication sheets, and full and modified unit dose, drug utilization, and history reports.

A version of this product is available for the VAX computer.

Price: \$7,500 – \$12,500

Contact: Robert A. Palmer, Director of Marketing
(201) 256-7633

INTERACTIVE SYSTEMS AND MANAGEMENT CORP.
1500 Cardinal Drive
Little Falls, NJ 07424

Labels System

Operating System: DSM (MUMPS)

Keywords: • Data base management • Data collection
• Medical • Printing

The HDCV Labels System provides a hospital with an on-line method of organizing both external and internal mailings. The system creates a data base of persons, hospital departments, or businesses, each of which belongs to one or more mailing lists. Address labels for each list of recipients of the mailing, specially formatted labels for internal mail, special messages or greetings, and complete directory listings may be produced. Labels and directories may be printed alphabetically, by zip code sequence, or by member number. Labels may also be printed for individual members, and the hospital may also build a table of cities and states to facilitate the data entry of addresses. Each hospital may produce labels and directories according to its own schedule.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Dr. Richard C. Howe, Director of Marketing
(804) 857-4551

HOSPITAL DATA CENTER OF VIRGINIA
962 Norfolk Square
Norfolk, VA 23502

LABPlus (Laboratory Information System)

Operating System: RSX

Keywords: • Billing • Medical • Query facilities • Statistics

LABPlus is a third-generation on-line computerized laboratory information system. The system's flexibility allows constant exchange of information with other departments in the hospital: nursing units, outpatient areas, emergency department, admitting, business office, and so on.

A state-of-the art system, LABPlus significantly impacts and benefits all hospital departments, the medical staff, and the clinical and anatomical laboratory sections with elimination of all unnecessary paperwork; fast response time; ability by your personnel to alter chart layouts and video screen formats; expandability to incorporate future hospital and laboratory requirements; reduction of personnel time in the laboratory and interrelated departments; full compliance with JCAH, CAP, and other accrediting agency standards, requirements, and guidelines; and complete interface capabilities with the hospital's main computer system for ADT, test requisitioning, inquiry of patient data, billing, STAT reporting, and so on.

Price: \$125,000 – \$200,000

Contact: Rick Hully
(617) 839-5383

HIAS, INC.
296 Providence Road
S. Grafton, MA 01560

Laundry Production and Control System

Operating System: DSM (MUMPS)

Keywords: • Billing • Inventory • Medical
• Property management

The HDCV Laundry Production and Control System provides a central hospital service with complete control of all laundry activities. The system maintains an account of material received by and delivered to each hospital and/or hospital section by the laundry. This system automatically charges for the quantity of processed and replaced items on a biweekly basis. Each hospital use area can receive clean laundry based on a schedule determined by a delivery category: standard, soil count,

and weight after wash. A daily production report, used to load the laundry machines, and a daily delivery report, used to indicate items for delivery for each use area, are generated. Other biweekly and monthly reports are available for overall management of the laundry service.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Dr. Richard C. Howe, Director of Marketing
(804) 857-4551

HOSPITAL DATA CENTER OF VIRGINIA
962 Norfolk Square
Norfolk, VA 23502

MAPS (Medical Accounting Patient System)

Operating System: RSTS

Keywords: • Accounting • Billing • Dental • Medical

MAPS offers timely reporting, accounting, and analyses for the single physician or clinic. Reports and analyses can be made by department, physician, location, current month, and year to date. Demographic information of patient and/or guarantors can be retrieved instantaneously. MAPS is a complete financial package that has interacting payroll, general ledger, and accounts payable and receivables.

The system can:

- Schedule appointments quickly and accurately
- Prepare insurance forms
- Reduce disallowed insurance claims through correct use of procedure codes
- Post to patient accounts, allowing for immediate payment of month-end billing
- Improve collection percentages by monitoring delinquent accounts and preparing stimulating notices
- Eliminate lost billings by accounting for all charge vouchers
- Improve patient care with less time devoted to clerical functions
- Improve patient relations by providing accurate and timely information regarding patient accounts

Each program produces daily, weekly, monthly, or year-end analysis reports.

A version of this product is available for the VAX computer.

Price: \$1,500 – \$20,000

Contact: William R. Paschal, Jr.
(405) 843-7323

DATATEK CORP.
818 N.W. 63rd
Oklahoma City, OK 73116

MBS (Medical Billing System)

Operating System: CTS-300, RSTS, RT-11, TSX-PLUS

Keywords: • Accounts receivable • Billing • Medical

The MBS system for either a single doctor or for group practices is a time-sharing system that handles all phases of accounts receivable management for specialty groups. MBS provides for recording charges, payments, and adjustments by physician and place of service. The system provides daily journals and balance procedures and regular and cycle billing. MBS provides an extensive history of procedures performed, aged trial balances, collection notices, insurance processing, automated claims transmission, and a variety of management reports.

A version of this product is available for the VAX computer.

Price: \$1,000 – \$10,000

Contact: Ed Kelleher, President
(803) 796-8858

MACRO, INC.
121 Professional Avenue
West Columbia, SC 29169

Medicalmate

Operating System: RT-11, TSX-PLUS

Keywords: • Accounts receivable • Billing • Insurance
• Medical

Medicalmate is a complete receivables and billing system designed for a single-doctor practice or a multiple-doctor office and can interface into our integrated accounting package (G/L, A/P, payroll). The easy-to-use menu-driven software features interactive entry of charges, payments, and adjustments, with editing capabilities before posting. Account inquiry allows instant access for balances due. Statements and insurance claim forms can be printed either monthly or on demand.

Numerous management reports include unbilled, aged and selected account receivables, a delinquent ledger, a cash summary, and revenue and usage statistics. Additional features include an appointment scheduler, patient-recall notices, and mailing label printing.

Benefits derived from using Medicalmate are increased cash flow, reduction of overdue account receivables, less time spent on billing, and easier/faster access to patient information.

A version of this product is available for the VAX computer.

Price: \$5,200 – \$8,200

Contact: Armand Van Velthoven
(303) 574-8086

PROFESSIONAL COMPUTER SERVICES, INC.
2345 N. Academy Boulevard, Suite 209
Colorado Springs, CO 80909

Medication/Treatment Sheet System for Nursing Homes

Operating System: CTS-300, RT-11

Keywords: • Medical • Pharmaceutical • Scheduling

This program maintains all medications, treatments, diagnoses, diets, activities, and census information for each patient of the nursing home facility. The program prints medication sheets, treatment sheets, physicians' orders, census summaries, and a wide array of analytical reports that can be used for studies showing correlations between various fields (such as the number of a certain diagnosis occurring in a specific age group).

The software can retain history or purge a set of transactions for a certain time period. Thus, the program gives the operator the chance to recreate any activity for as far into history as the file has been purged.

A version of this product is available for the VAX computer.

Price: \$1,500 – \$4,500

Contact: Larry Triplett, President
(614) 826-7678

TRIAD DATA PROCESSING
36 E. Main Street
New Concord, OH 43762

MediCom®

Operating System: ULTRIX, UNIX

Keywords: • Dental • Medical • Scheduling
• Word processing

MediCom is a medical management system that can help run a physician's office efficiently and accurately. MediCom keeps track of all medical codes (ICDA, CPT, and ADA), insurance, payments, recalls, statements, G/L, family billing, and guarantor reference accounts. Patient history in a data base for notes, drug allergies, and reactions; passwords; open-item and balance-forward billing; credit and debit adjustment; inventory; and word processing make this a state-of-the-art package. It is written in RM/COBOL for flexibility and support from many different operating systems.

A version of this product is available for the VAX computer.

Price: \$2,000 – \$5,250

Contact: Mariann Lane
(312) 931-1400

ICS COMPUTERS, INC.
35 Fountain Square Plaza, Suite 306
Elgin, IL 60120

MEDICOMS (Medical Office Receivables Management System)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts receivable • Credit
• Data base management • Medical

This total receivables management package for medical offices can satisfy the requirements of a single-doctor private practice, a multidoctor practice, or a general medical clinic. The primary functions of the package support the generation of patient statements and third-party insurance claim forms preparation. The system manages receivables, tracking productivity and aging open accounts and providing flags and messages to aid collection. Included with this function is a delinquent-collections subsystem. Secondary benefits of the system provide for medical analytical abilities using CPT and ICD-9 standard codes for diagnosis and procedures. The menu-driven, operator-friendly package has been time tested and has been installed in user environments for more than five years.

Price: \$5,500 – \$14,000

Contact: J. Elliott Haney, Jr.
(502) 926-4781

DATAMAX COMPUTER CORP.
3520 New Hartford Road, P.O. Box 1862
Owensboro, KY 42301

MEDISYS, Version 432

Operating System: RT-11

Keywords: • Accounts receivable • Billing • Insurance
• Medical

MEDISYS, developed by Small Business Systems, is an in-office medical management, billing, insurance, and collection control system that runs on RT-11. MEDISYS keeps up to five years of patient accounts for all diagnosis and service details. MEDISYS can accommodate 1 to 15 doctors and up to 50,000 patient accounts on a single 10-megabyte disk. MEDISYS is user friendly, with office procedure-related instructions for each step on data input.

Refer to SPD #A0.53.00 when requesting further information on this product from your local DIGITAL sales office.

Price: Available upon request

Contact: Consult your local DIGITAL sales office
(see Introduction).

MINC RT-11/FORTRAN Support for the Nicolet Explorer Via DLV11-J Serial Line

Operating System: RT-11

Keywords: • Device drivers/handlers • Medical

Memory required: 32 KW.

This package incorporates FORTRAN IV and MACRO-11 subroutines that permit the user to communicate with the Nicolet Explorer by way of a DLV11-J serial line. The software was written and tested on a MINC system and was verified to be functional under RT-11 V4 and V5 on a MINC system, with either a VT105 or a VT125 terminal and with either an 11/2 or an 11/23 processor. The package requires the use of DECUS number 11-435 for MINC systems with the VT105 terminal or DECUS number 11-537 for MINC systems with the VT125 terminal. DECUS number 11-640.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

MIRAGE (Medical Informatics Report Writer and Applications Generator)

Operating System: UNIX

Keywords: • Data base management • Data dictionary
• Data entry • File management

The MIRAGE information management system provides a mechanism for organizing and processing data from any application; MIRAGE builds a custom computer software system for your particular needs. MIRAGE consists of three parts:

- The data definition system allows you to define, in a matter of minutes, the information you want to enter into the computer.
- The general data entry layer uses your definitions to prompt you in error-free data entry, revision, and deletion.
- The report generator allows you to quickly specify what subsets of your information you want to retrieve and in a user-defined format.

You can change either data definitions or report definitions at any time, and you never need to learn a computer language to use the system.

A version of this product is available for the VAX computer.

Price: \$3,000

Contact: Dr. Blaine Garfolo, President
(216) 249-8353

MEDICAL INFORMATICS
12023 Lakeshore Boulevard
Cleveland, OH 44108

Multilab — Comprehensive Clinical Laboratory Information System

Operating System: DSM (MUMPS)

Keywords: • Electronic mail • Medical • Statistics

Based on state-of-the-art hardware and Standard MUMPS software, Multilab is a flexible real-time laboratory management system. By interfacing directly with automated laboratory instruments, Multilab's data acquisition program speeds and simplifies the processing of vital test information in work-listed batches. Provided in its software is flexibility to modify or update testing procedures, ensuring that the system will never become obsolete.

Because the needs of each laboratory differ, a special modeling function lets us create special programs and adapt Multilab to the operating parameters of individual laboratories. That function also allows the user to add or modify aspects of the packaged system to keep pace with changes in laboratory procedures.

Multilab is an interactive system. The operator communicates with the system through a simple question-and-answer dialog using standard laboratory abbreviations. No knowledge of computer programming is required. Built-in self-teaching functions allow the user to obtain clarification when needed.

Operator control functions include display of pertinent system information for monitoring or trouble-shooting purposes. Routine problems are spotted and quickly corrected, thanks to a built-in comprehensive list of common error diagnoses and corrective procedures. The billing portion of the Multilab program determines which tests are billable and automatically updates statistics, produces a report, and creates a magnetic tape copy for storage.

A mailbox function allows authorized persons to "broadcast" messages to laboratory personnel. New or updated mailbox messages are displayed for review when technicians log onto the system.

Multilab performs the following functions:

- Keeps track of patient admissions, transfers, discharges, and general laboratory administration
- Provides detailed administrative reports and makes available customized forms output
- Tracks test specimens from log-in to check-off and generates collection lists (patient names, floor listing, tests required, and so on)
- Automatically prints out Aliquot and back-up labels for specimen containers
- Creates customized work lists for specimen control, record keeping, and batch entry of result data and provides work list status reports
- Accesses test results from work lists for Delta Check verification
- Produces a variety of standard and nonstandard laboratory management reports such as master specimen lists, abnormal and pending results, and quality control statistics
- Maintains daily, monthly, and yearly workload tallies for display as needed
- Prepares daily, interim, and cumulative patient reports for physician, hospital, or internal laboratory use

- Permits archive storage of test results and discharge reports on magnetic tapes for future viewing or printout
- Captures data in duplicate on a back-up tape to ensure automatic retrieval in case of shutdown

Price: \$65,000

Contact: Matthew Ehrlich
(516) 764-5953 or (800) 645-5959
ADVANCED MEDICAL SYSTEMS
36 Maple Avenue
Rockville Centre, NY 11570

Multipharm

Operating System: DSM (MUMPS)

Keywords: • Inventory • Medical • Pharmaceutical

This pharmacy system helps the pharmacy department to distribute drugs more efficiently by keeping up-to-the-minute records of patient admissions, discharges, and transfers. As each order is entered, the system screens it for drug/allergy, drug/drug, drug/food interactions and I.V. incompatibility. The system also keeps precise track of orders for inventory control.

The system improves communication between the pharmacy and nursing stations by providing common access to patient information. The system also issues a medication discharge summary report, which the pharmacy can use as its dispensing document.

Price: \$55,000

Contact: Matthew Ehrlich
(516) 764-5953 or (800) 645-5959
ADVANCED MEDICAL SYSTEMS
36 Maple Avenue
Rockville Centre, NY 11570

PAID (Physicians Automatic Invoicing and Data)

Operating System: RSTS

Keywords: • Accounts receivable • Billing • Medical
• Report writer

PAID, used since 1979 in an on-line time-sharing environment, can support multiple clinics and specialties. The in-house version has the flexibility to meet most of the needs of a solo or group practice without additional programming.

The system offers a complete audit trail of all financial entries to ensure total control; extensive checking to reduce data input errors; complete account information, either in an aged summary or in detail for answering patient telephone inquiries; and individualized procedure codes, including modifiers, descriptions, and prices. Diagnosis

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codes are maintained either individually or through a central file. Special messages and individualized dunning messages per user are provided, selected automatically and based on the aged balance and payment transactions. Statement codes that allow exceptions on dunning messages, statements, and finance charges are provided. Automatic batch processing of programs is provided for cyclically generated reports.

Reports generated by PAID include edit, patient journal, accounts receivable, production analysis, year-to-date production revenue, delinquent accounts, budget payments, agency suspense, and others.

A medical statistics screen is available that allows the user to track medical information by patient.

Price: \$7,500

Contact: Dick Pugh
(206) 343-5656
MED-DATA, INC.
800 4th and Battery Building
Seattle, WA 98121

Paramedics Billing

Operating System: RSTS

Keywords: • Accounts receivable • Billing • Insurance
• Medical

Paramedics Billing is a simple-to-use, interactive, comprehensive, and complete method for charging and billing for paramedics or ambulance runs by private firms or governmental agencies. Included are integrated insurance filing, accounts receivables, statistics, aging, and so on.

A version of this product is available for the VAX computer.

Price: \$8,000 +

Contact: Nathan I. Lieberman
(812) 479-6951
EVANSVILLE DATA PROCESSING CORP.
1010 S. Weinbach Avenue, P.O. Box 2469
Evansville, IN 47714

PAS-11/M (Professional Accounting Series/Medical)

Operating System: RSTS, RSX, RT-11

Keywords: • Dental • Insurance • Medical • Payroll

The PAS-11/M series offers these critical features:

- Complete accounts receivable functions — automatic statement form preparation, detailed aging reports, delinquent accounts reports, practice analysis, and management reports

- Complete accounts payable functions, with either cash or accrual accounting, automatic check writing, vendor data files, and detailed aging reports
- Direct, paperless transmission of insurance claim data to Medicare/Medicaid and Blue Cross/Blue Shield via telephone modem connection
- Automatic third-party insurance billing with multiple insurance companies for each patient, using preprinted insurance forms approved by the AMA Council on Medical Service
- Management and productivity reports
- Scheduling — appointments more than 1½ years in advance can be set up and retained, with weekly or daily schedules printed
- Instant on-screen access to patient records, with display of patient name, address, phone number, billing status, and location in hospital, if applicable
- Data base report generator that allows sorting by any item in the patient data base
- Integrated, complete general ledger accounting system, tailored to your accountant's specifications, with extensive financial reports
- Detail of accounting data retained on line throughout your fiscal year
- Payroll computation, with payroll check writing and compilation of data to prepare government payroll reports
- Text processing, chart labels, and mailing labels
- Telephone modem for remote access to system (included with software maintenance contract)
- Easy and reliable method for backing up patient data
- Compatibility with vast library of applications software

A version of this product is available for the VAX computer.

Price: \$5,000 – \$30,000

Contact: Richard J. Barton, II
 (512) 690-9062
 TEXAS PROCESSOR, INC.
 4107 Gardendale
 San Antonio, TX 78229

Pathology Billing

Operating System: RSTS

Keywords: • Billing • Medical

Pathology Billing provides all the statistics, billings, and reporting required for laboratories that bill either to individual patients and/or to doctor or hospital groups. The system components are interactive, friendly, and complete — for use in-house or on our time-share system.

A version of this product is available for the VAX computer.

Price: \$16,000

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.
1010 S. Weinbach Avenue, P.O. Box 2469
Evansville, IN 47714

Patient Accounting System

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts payable • Dental • Medical
• Scheduling

The Promedics Patient Accounting System provides for all the functions of a medical or dental office, including audit trails, statement and insurance form generation, management reporting, accounts receivable, patient recall and scheduler, and electronic claim submission. Minimum hardware configuration of 10-megabyte storage provides for 7,500 patients and 75,000 transactions.

A version of this product is available for the VAX computer.

Price: \$6,000 – \$25,000

Contact: Robert Brehm
(415) 961-2401

PROMEDICS DATA CORP.
2432 Charleston Road
Mountain View, CA 94043

Patient Information and Billing System

Operating System: RSTS

Keywords: • Billing • Financial analysis • Medical
• Statistics

This package provides a comprehensive patient information system in which demographical, medical, diagnostic, financial, and hospital data from admissions through discharge is recorded and retained for short- and long-term reporting. The capabilities are designed to meet the needs of small to medium-size hospitals, home health agencies, clinics, and large medical groups.

The system features automatic generation of daily charges from censuses; flexible coding schemes; automatic pricing; segmented and consolidated reporting; recording of referrals and preadmissions; third-party billings, including UB-82; retention of historical data; daily, monthly, quarterly, and annual reports; and medical, statistical, and financial records.

The system may be operated in a multiterminal/multilocation environment and is written in BASIC-PLUS-2 using DIGITAL's FMS-11.

Price: Available upon request

Contact: Wayne Abbott
(404) 882-9226

ABBOTT, JORDAN AND KOON
202 W. Haralson Street
La Grange, GA 30240

Pharmacy

Operating System: DSM (MUMPS)

Keywords: • Medical • Pharmaceutical

This package is designed for the retail pharmacy. The package includes patient profiles, drug interaction, and labeling.

A version of this product is available for the VAX computer.

Price: \$5,000

Contact: Jon Springer, President
(617) 828-1529

WORLD-WIDE COMPUTER RESOURCES
127 Tolman Street
Canton, MA 02021

Practice Management System

Operating System: RSTS

Keywords: • Accounts receivable • Billing • Dental
• Medical

This comprehensive accounting software package is designed to meet the varied needs of many medical and dental practices. With easy-to-read screens and menu-driven prompting, the system provides instantaneous access and update of both patient records and billing information and automatically prints forms, invoices, and reports. System applications include billing, collecting, and insurance reporting; managing accounts receivable; organizing visitation history information; and storing practice management information and sorting by patient, diagnosis, procedure, and type of service.

The system works within the data processing capabilities of a mini-computer but requires no technical expertise to operate. Complete training programs and literature are provided.

Price: \$3,000 - \$5,000

Contact: C. Truitt Smith
(301) 296-9032

SMITH, ABBOTT, AND COMPANY, INC.
300 E. Joppa Road
Baltimore, MD 21204

Programs for Analyzing Stress-Strain Data from Lung Parenchyma and Artery Tests

Operating System: RT-11

Keywords: • Data collection • Medical

Memory required: 12KB.

The programs Lung and Artery fit exponential-type strain energy functions to experimentally acquired stress-strain data from soft-tissue tests. One program evaluates data gathered from tests on lung parenchyma; the other program performs similar computations for artery data. Both programs are based on a modification of the Levenberg-Marquardt algorithm for the minimization of a nonlinear sum of squares. Special care has been taken to ensure easy portability of the programs to other computers. DECUS number 11-548.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

Pulmonary Function Laboratory

Operating System: RSX, RT-11

Keywords: • Diagnostics • Medical

Pulmonary Function Laboratory is a complete package for the function lab, including on-line diagnostic programs for lung volumes, diffusion capacity, body plethysmograph, stress testing and blood gases, storage of patient data, and laboratory management.

Price: \$1,500 – \$20,000

Contact: Dick Steinhauser, President
(815) 633-6400

ERICH JAEGER
Box 10008
Rockford, IL 61131

RADIO-OSCAR

Operating System: RSTS, RSX, RT-11, TSX-PLUS

Keywords: • Chemical • Inventory • Nuclear • Security

This on-line system for the control of radioactive chemical stores provides radiochemical laboratory managers with an accurate record of all current stock, together with a detailed usage history. The system is simple to use and operates by a series of question-and-answer sequences using a visual display unit and keyboard. Information is retrieved from data files instantaneously for inspection on the VDU screen or may be printed out on a line printer. The total activity currently held in the stores is known at all times, and thus legal requirements can be accurately monitored.

Individual records are stored in the data base for each isotope, incorporating a reference code, description, and half-life or decay constant. Associated with each isotope are all the individual stock records for which the data base records a reference number, a description, additional reference data, units of measure, quantity on hand, specific activity at given date, purity information, and current computed activity derived from the quantity on hand. Also held for each stock item are up to 60 stock movements, which are dated and initialed and show the quantity and activity issued.

A version of this product is available for the VAX computer.

Price: £3000 – £6000

Contact: R. A. Stock
(+ 44) 734 342666

D. M. ENGLAND & PARTNERS LTD.
24 High Street
Twyford, Berkshire RG10 9AG
England

Regression Analysis for Michaelis-Menten Kinetic Data

Operating System: RT-11

Keywords: • Biology • Medical • Statistics

Memory required: 30K virtual memory, 2K directed addressing memory for array storage.

This FORTRAN program calculates the Michaelis-Menton parameters V_m , the maximum velocity, and K_m , the substrate concentration at half-maximal velocity, and their 95% confidence ranges for the dependence of enzyme activity of substrate concentration in the absence of product. The program uses simple nonlinear regression, nonparametric statistics, unweighted linear regression, and iterative weighted linear regression. The program requests the following inputs from the user: a selection of the type(s) of regression(s) to be performed, a file of substrate and rate data containing up to 50 data points, and an appropriate T -statistic.

The initial K_m bracket values for the nonlinear calculations are assumed to be $BRKM(1) = 0.0$ and $BRKM(2) = 10.0$. If that interval does not bracket the true K_m , $BRKM(2)$ is doubled until the appropriate bracket interval is obtained. Any negative V_m or K_m values generated by the nonparametric calculations are replaced by an arbitrarily large number ($1.0E + 6$) and entered into the sorting routine with the other smaller and nonnegative V_m and K_m values. The final two values of the iterative weighted linear sum of least-squares calculations are tested for a convergence tolerance of 5.0%. DECUS number 11-469.

Restrictions: Regression cannot be performed for more than 50 data pairs.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

RIBS (Radiology Information and Billing System)

Operating System: RSTS

Keywords: • Accounts receivable • Billing • Medical
• Statistics

RIBS is tailored to meet the needs of both hospital and office-based radiology practices. The system offers a complete audit trail of all financial entries to ensure total control; extensive information, either in an aged summary or in detail for answering patient telephone inquiries; and individualized procedure codes, including modifiers, descriptions, and prices. Diagnosis codes are maintained either individually or through a central file. Special messages and individualized dunning messages per user are provided, selected automatically based on the aged balance and payment transactions. Statement codes that allow exceptions on dunning messages, statements, and finance charges are provided. Automated batch processing of programs is provided for cyclically generated reports.

Reports generated by RIBS include edit, patient journal, accounts receivable, production analysis, revenue summary, delinquent accounts, budget payments, agency suspense, credit balance, year-to-date production revenue, and others.

A medical statistics screen is available that allows the user to trace medical information by patient.

Price: \$7,500

Contact: Dick Pugh

(206) 343-5656

MED-DATA, INC.

800 4th and Battery Building

Seattle, WA 98121

RxEXPRESS Total Pharmacy Computer System

Operating System: RSX, TSX-PLUS

Keywords: • Inventory • Medical • Pharmaceutical

The RxEXPRESS is a total, affordable pharmacy computer system designed for the retail, nursing home, or hospital pharmacy. The system streamlines prescription filling, accelerates third-party billing to improve cash flow, and controls your entire inventory — from drugs to sundries to perishables. The RxEXPRESS takes the paperwork off your hands and puts efficiency at your fingertips.

Whether you are filling 50 prescriptions a day or 1,000, are a single store or a chain, there's an RxEXPRESS in your size and budget. Our wide choice of options enables the system to meet your specific needs. Some of the features available are label and receipt printing, unlimited pricing methods, accurate third-party billing, automatic drug price updating, patient histories, doctor profiles, 70,000+ drug data base, drug-to-drug interaction, drug-overuse indication, IV incompatibilities, nursing home distribution, instant sales reports, POS interface, accounts receivable, payroll, general ledger, accounts payable, hospital version, 64 color comb. CRT, color graphics sales analysis, voice entry/response, and more.

A version of this product is available for the VAX computer.

Price: \$19,500 – \$100,000 +

Contact: C. W. Pautsch
(312) 325-1800
COMCOTEC, INC.
825 N. Cass Avenue
Westmont, IL 60559

SALGLA (Salivary Gland Analysis)

Operating System: RT-11

Keywords: • Graphics • Medical • Printing

This package allows one to analyze a dynamic study of the salivary glands by smoothing the curves, subtracting background, and making a compact tabular and semigraphical hard copy on the LA120 or equivalent console terminal. The program is very modular, and it should be easy to modify the plotting subroutine for an LA36 terminal.

Up to eight curves can be analyzed simultaneously, and up to four curve pairs are plotted on one page of paper. Some useful subroutines are also distributed with the package. For further documentation, see file SALGLA.DOC. DECUS number 11-565.

Note: VSVLIB.OBJ and D16.SAV (sources distributed separately by DECUS, see DECUS number 11-587).

Price: \$5 – \$225

Contact: DECUS (see Introduction)

Security System

Operating System: DSM (MUMPS)

Keywords: • Data entry • Medical • Security • Statistics

The on-line HDCV Security System protects both the patient and the hospital by controlling access to computer usage and patient information, tracking errors, and accumulating computer usage statistics. The Security System may be used with the HDCV Medical Records System or may function as a stand-alone system.

The security levels are created and edited by hospital administrative personnel. The system then assigns each employee a unique badge number that permits access only to specified systems and routines. A terminal lock-out feature provides an additional level of security to prevent unauthorized signing on. Unlocking a terminal requires the intervention of a supervisor or an administrator.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Dr. Richard C. Howe, Director of Marketing
(804) 957-4551

HOSPITAL DATA CENTER OF VIRGINIA
962 Norfolk Square
Norfolk, VA 23502

SLEEP: Programs of Analysis of Sleep-Wakefulness Data

Operating System: RSTS

Keywords: • Data collection • Graphics • Medical

Memory required: 16KW.

SLEEP is a series of programs for analysis of data acquired from monitoring of sleep-wakefulness cycles. The programs are written for cat sleep, although they could be readily modified for human sleep. A control program prompts the user for the desired option, including input of data, listing of raw data, summary tables, creation of hypnogram files for plotting, and creation of MINTAB/SAS acceptable data files. DECUS number 11-553.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Social Services Statistical Reporting System

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Billing • Government • Mental health
• Statistics

This statistical reporting/tracking system, designed for social service agencies funded in whole or in part by outside agencies and client billing, consists of three modules: Client Intake/Statistical Reporting, Accounts Receivable/Client Billing, and Accounting. The system allows single entry of information on families, extended families, or multiperson groups. The system allows a client to be enrolled in multiple agency divisions, such as psychological counseling and crisis pregnancy, without duplication of agency records.

Caseworker assignments are integrated to produce reports including caseload count, cost analysis, and so forth. Agency reports to funding sources — for example, “United Way Summary of Agency Beneficiary Statistical Report” — thus eliminate manual case count. The Accounts

Receivable/Client Billing section provides open-item or balance-forward client charges based on a sliding-scale fee based on annual income, a variable amount, a fixed amount based on type of service, or a no-charge. All detail is retained until the client is purged, thereby allowing tracking of a client's entire billing history, aging by client, caseworker, or agency division.

Statistical auditing reports listing case number, client name, and caseworker can be run to substantiate all statistical reports. All three modules are integrated into DIBS-11 G/L.

A version of this product is available for the VAX computer.

Price: \$7,000 – \$10,000

Contact: Jim Baker
(404) 256-3067

AMERICAN DIGITAL PRODUCTS CORP.
5775-B Glenridge Drive N.E., Suite 320
Atlanta, GA 30328

Spectrum

Operating System: RT-11

Keywords: • Accounting • Billing • Inventory • Order entry

Spectrum is a powerful optical laboratory management system with the following capabilities: Rx order entry/invoicing and stock order entry/invoicing with automatic posting to accounts receivable, consequent Rx work ticket preparation, automatic optimal lens selection, Rx work-in-process reporting, statement preparation, aged receivables preparation, sales analysis, and inventory control.

A lab owner may also purchase General Ledger, Accounts Payable, and/or Payroll as combined features of a total system that can be operated by present employees, requires no previous computer experience, and is easy to use. SBG maintains a customer service organization for daily telephone consultation.

The lab work ticket preparation specifies the smallest diameter lens that will meet the technical requirements of the frame/prescription combination; tells the lab people what tools to use and how much prism to grind (based on lens-on-center blocking); automatically prepares a finished lens when the Rx powers are correct, along with the proper decentration for that Rx prism; and details finishing information, such as edger setting and pattern location. A turnaround and surfacing report permits comparison of daily, weekly, and monthly lab productivity, while a daily gross profit analysis keeps the lab owner aware of gross operating profit for complete financial control.

A version of this product is available for the VAX computer.

432 Health Care

Price: \$24,500 – \$250,000

Contact: Carl R. Grady, Vice President, Marketing
(608) 831-2262

SYSTEMS BY GRABER
2415 Parview Road, P.O. Box 328
Middleton, WI 53562

SPON (Spontaneous Activity of Neuronal Spikes)

Operating System: RT-11

Keywords: • Mathematics • Medical

Memory required: 64K.

This group of programs is designed to count interspike intervals (ISI) of extracellular neuronal spikes. The user must have a window discriminator to count spikes, as well as a DIN and CLK unit on the MINC. SPON determines mean ISI and variances of the mean ISI, stores all ISIs, and plots frequency histograms of the ISIs. DECUS number 11-555.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

Sunquest Laboratory Information Systems Flexilab

Operating System: DSM (MUMPS), ISM (MUMPS)

Keywords: • Biology • Instrumentation • Medical

The Sunquest system, written in ANSI MUMPS, supports all laboratory departments, including microbiology, blood bank, anatomic pathology/cytology, with the full functionality expected in the new generation of advanced laboratory systems. Extensive capabilities to interface various central computer or hospital information systems are available at nominal costs. Similarly, interfaces to most laboratory instruments have been established via PDP-11/23-based instrumentation subsystems. Each subsystem supports up to 20 instruments and provides both efficient processing of automated test data and backup capabilities for data retention.

A version of this product is available for the VAX computer.

Price: \$100,000 – \$700,000

Contact: Dennis Winsten
(602) 885-9056

SUNQUEST INFORMATION SYSTEMS
8835 East Speedway, Suite F
Tucson, AZ 85710

Survey

Operating System: RSX

Keywords: • Data collection • Medical • Nuclear • Scientific

This survey records program provides a convenient method for recording and archiving radiological survey results. The data for each survey includes date and time, dose rates, survey instrument identification, location (building, elevation, room, position), air sample analysis results, surveyor, as well as a section for survey request information.

The menu-driven format allows easy file maintenance and report generation. The reports that are available include listings by location, type of survey, survey instrument, and activity level. File protection and backup are ensured by "1-button" archiving and operator password protection.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Robert Loesch
(203) 238-2351 ext. 352
CANBERRA INDUSTRIES, INC.
One State Street
Meriden, CT 06450

Utilization Review System

Operating System: DSM (MUMPS)

Keywords: • Medical • Spreadsheets • Statistics

The HDCV Utilization Review System provides a hospital with complete control of the concurrent review of all patients. This on-line system maintains comprehensive PSRO data used in certifying each patient for admission and length of stay. Patient demographic information is obtained from the HDCV Patient Data Management System and is combined with diagnostic and operative information to determine length-of-stay data. Daily worksheets are available for the utilization review coordinator.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Dr. Richard C. Howe, Director of Marketing
(804) 857-4551
HOSPITAL DATA CENTER OF VIRGINIA
962 Norfolk Square
Norfolk, VA 23502

Vet System/2000

Operating System: RSTS

Keywords: • Accounting • Medical • Payroll
• Word processing

This package provides patient history similar to Visi Record Card, automatic generation of shot reminders, client history, drug disbursements, sales analysis, accounts receivable, billing, accounts payable, general ledger, payroll, and word and list processing.

A version of this product is available for the VAX computer.

Price: \$2,000 – \$20,000

Contact: Andrew Yasenchak

(201) 231-9400

UNITRONIX CORP.

197 Meister Avenue

Somerville, NJ 08876

VSV-01 Device Driver for RSX-11M

Operating System: GAMMA-11, RSX

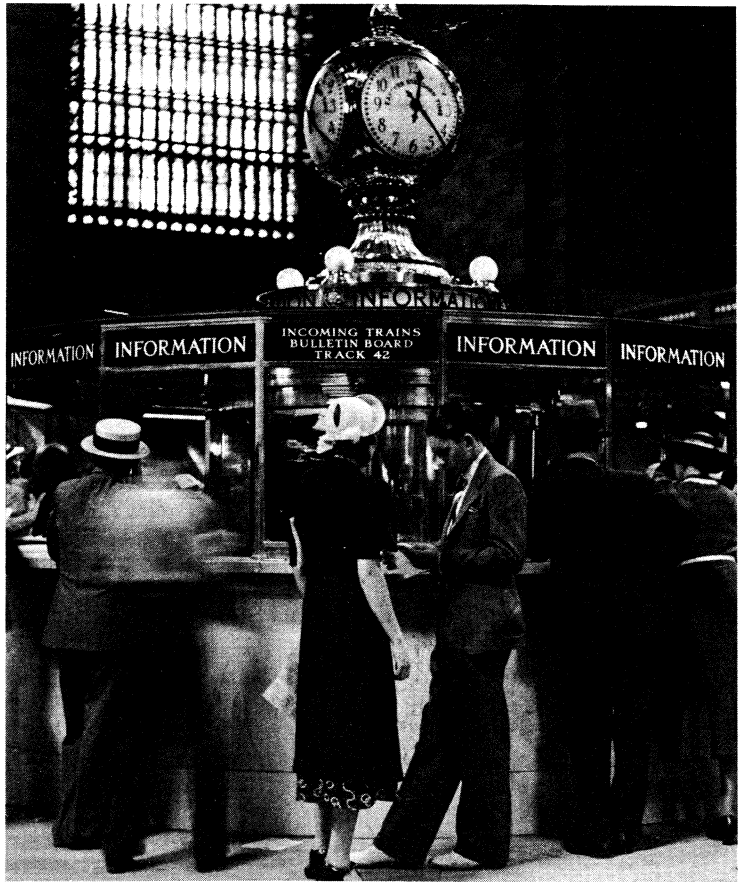
Keywords: • Device drivers/handlers • Graphics • Medical
• Nuclear

The VSV-01 device driver for RSX-11M allows RSX-11M tasks full control of the DIGITAL VSV-01 Nuclear Medicine Image Display. Character display, vector graphics on a 256×256 display grid, image display, loading of color translation tables, interactive joystick input (requires an NCV-11), and cross-hair control are supported. The driver may be incorporated without a SYSGEN into any RSX-11M system with loadable driver support. Four bit maps must be present for 256×256 graphics; two bit maps allow 256×128 graphics. DECUS number 11-470.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

Information Management



Action List

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Architecture • Civil engineering
• Project management • Scheduling

Action List is designed for use by project managers in expediting and progress chasing and for document control. It complements Project Software's forward-looking planning and cost control system, the Project Cost Model.

Action List is frequently used to establish schedules itemizing information outstanding, drawing requirements, or materials procurement programs. Those define what needs to be done, by whom, and when. Action List is then updated regularly and used for progress chasing, recording what has been done, and highlighting critical items needing action. Action List helps ensure that decisions are taken on time and that drawings, specifications, and other documents are completed and distributed as necessary when required.

Action List includes a flexible report writer that allows users to select what information is presented on reports.

A version of this product is available for the VAX computer.

Price: £1,500 – £3,000

Contact: Martin Barnes, Director
061-439 6639 or Telex: 666650
PROJECT SOFTWARE LTD.
Foden Lane, Woodford
Stockport, Cheshire SK7 1PT
United Kingdom

ADT-32

Operating System: RSX

Keywords: • Data dictionary • Data entry • Query facilities
• Report writer

ADT-32 is an extremely end user-friendly data management system. It is menu driven and data dictionary-based for maximum flexibility and is based on RMS for compatibility and transportability. ADT-32 employs fourth-generation language and data management techniques and provides data entry, data maintenance, on-line inquiry and ad hoc report generation, as well as automatic screen generation.

ADT-32 is appropriate for almost all information management environments.

A version of this product is available for the VAX computer.

Price: \$795 – \$12,000

Contact: Randolph J. Reece
(303) 987-1001

INTERACTIVE SOFTWARE SYSTEMS INC.
P.O. Box 27466
Denver, CO 80227

AFMEP (Association Friendly Membership Processing)

Operating System: UNIX

Keywords: • Financial analysis • Query facilities • Recruiting
• Statistics

AFMEP was designed, developed, documented, and implemented for operation by membership personnel. The program is updated on a formatted screen and has the following menu-driven features:

- Daily cash reports (trial balance, certification, and final)
- Identification cards
- Renewal notices
- Address label selection and generation
- Membership and unrenewed membership listings
- Support for divisions and chapters
- Deferred income, rebate, and statistical reports (membership and transaction)
- Transaction list
- Ad hoc reporting
- Query

Different types of membership are supported, and rates are stored in a table to facilitate changes. Two rates can be stored and used, based on effective date.

The update program validates input as it is entered and provides help. A normal renewal requires the operator only to enter the member number and the amount paid.

Although flexible, the AFMEP system has controls built in to prevent problems. For example, the user cannot begin processing transactions for a new date until the previous cash has been balanced.

AFMEP also provides additional security with passwords that allow some users to only query the data base and permit other users to update or request reports.

A version of this product is available for the VAX computer.

Price: \$10,000 – \$20,000

Contact: Raymond G. Kennerly
(301) 441-1390

KENNERLY ASSOCIATES, INC.
6302 Merna Lane
Lanham, MD 20706

Ambase

Operating System: RSTS

Keywords: • Data base management • Query facilities
• Report writer

Ambase is a comprehensive, interactive, user-oriented data base management system and application development tool. Features include SCHEMA control, data access with simultaneous multiuser processing, and contention supported and handled by Ambase with application programmer intervention. In addition, Ambase includes report and screen-formatting code-generation tools and a powerful query facility.

A version of this product is available for the VAX computer.

Price: \$7,000 – \$34,000

Contact: Marketing Department
(502) 491-9820 or (800) 626-6268
AMCOR COMPUTER CORP.
1900 Plantside Drive
Louisville, KY 40299

ARCHON: ADMS (Association Data Management System)

Operating System: RSTS

Keywords: • Data base management • Library science
• Recruiting • Word processing

ARCHON: ADMS keeps accurate records on membership management, meetings and conventions subscriptions, political action, and library management. The software combines data from different departments and gives new information, allows on-site customization, and shares data with other systems, such as financial, word processing, and fund raising, for automatically producing letters to members.

Information on this product is also available from Larry L. Eastland, Ph.D. (703) 893-4494, QUODATA Corporation, McLean Office Centre, Suite 614, 6845 Elm Street, McLean, VA 22101.

A version of this product is available for the VAX computer.

Price: \$8,900

Contact: NancyLou Rapp
(203) 728-6777
QUODATA CORP.
266 Pearl Street
Hartford, CT 06103

ARSAP (Resource Management and Chargeback System)

Operating System: RSTS, RSX

Keywords: • Accounting • Billing • Project management
• Scheduling

ARSAP produces resource management and billing reports that allow users to monitor system usage and charge for all resources used on the computer. Resource management reports necessary for planning, organizing, and controlling the computer in a multiuser, multitask operating environment are provided to optimize work scheduling and system usage control. Billing reports that automatically distribute computer charges on a user, department, project, or client basis guarantee the recovery of computer costs for the purpose of internal accounting or for billing outside projects and clients.

ARSAP provides easy-to-read, accessible reports on terminal connect time, number of log-ons and log-offs, disk storage utilization, number of I/O requests, and CPU execution time. Those reports improve system and staff productivity, help plan for future system requirements, and justify any necessary system upgrades by accurately tracking resource usage.

Billing reports include summary and detailed usage and rate information. Detailed, numbered invoices provide complete itemized statements for each account by showing the resources used and the charges for the billing period. Rates can be set for individual accounts as well as to assign work shifts. Shift accounting allows different rates to be charged for premium time and slow periods, thus achieving optimum system usage.

The user can tailor reports to meet specific needs by selecting from 15 unique report formats and specifying any of 100 report variations. That flexibility provides the control needed for meeting current demands and predicting future requirements. The report formats are compatible among RSX-11M, RSX-11M-PLUS, RSTS/E, and VAX/VMS. No sysgen is needed for installation, and ARSAP takes only minutes to install.

A version of this product is available for the VAX computer.

Price: \$2,995 – \$3,995

Contact: Lewis L. Lovett, Sales Manager
(301) 864-3700
GEJAC, INC.
P.O. Box 188
Riverdale, MD 20737

AUTOPRO (Automatic Programming)

Operating System: RSTS

Keywords: • Data base management • Data dictionary
• Programming tools • Report writer

The AUTOPRO data base management system allows both experienced and inexperienced users to automatically generate comprehensive systems in a simple interactive terminal session. For complicated management information requirements, the user can generally use AUTOPRO to create a model of system requirements, including data base creation, data entry and file maintenance functions, and report generation. The professional programmer may then extend the model, using the facilities of AUTOPRO to eliminate most programming.

Many applications can be completed in one to four hours. The user defines data elements, using the Data Base Manager, and creates a screen to add, modify, and delete entries in the new data base, using the Screen Manager. The user can specify any number of screens for data base maintenance and inquiries. With the Report Writer, the user produces reports as needed. For word processing, the user moves information from the data base into the list processing option of the word processing system.

The Data Dictionary is the foundation for AUTOPRO. All data base creation and maintenance automatically update the data dictionary, ensuring accuracy and consistency of all data resources. The Data Dictionary supports application development for the Screen Manager, Report Generation, and Word Processing integration. The data base creation facilities are menu driven and include HELP facilities.

The Data Dictionary provides a centralized resource for your data, whether applications are developed through AUTOPRO, DIBOL, COBOL, or DATATRIEVE. This centralized facility provides control of all your corporate data, giving managers, secretaries, and application development staff easy access to those resources.

A version of this product is available for the VAX computer.

Price: \$3,000 – \$5,000

Contact: E. Jackson Smith
(301) 296-9032

SMITH, ABBOTT, AND COMPANY, INC.
300 E. Joppa Road
Baltimore, MD 21204

Bar-Coded Systems

Operating System: RT-11, TSX-PLUS

Keywords: • Inventory • Production control
• Shop floor control • Warehousing

Dennison Eastman's bar-code systems are designed to take advantage of the accuracy and speed attained with the use of bar-coded tags and labels. Bar-Coded Systems currently in use include Inventory Control and Tracking, Production and Manufacturing Control and Tracking, Log and Lumber Inventory, and Warehousing Control and Inventory. Our systems can fit your application, be modified, or be written to your exact specifications for your particular application.

Price: Available upon request

Contact: John Logan
(503) 297-1627

DENNISON EASTMAN CORP.
6400 S.W. Canyon Court
Portland, OR 97221

BASE/OE (Base Operating Environment)

Operating System: RSX

Keywords: • Data base management • Data dictionary
• Forms management • Query facilities

BASE/OE is a complete set of tools for managing an interactive data base environment. The facilities offered are usually available only through a number of different software packages. BASE/OE is a high-performance time-sharing system supporting multiple users on local, dial-up, or dial-out communications lines.

At the heart of BASE/OE is a hierarchical file system with multikey indexes, field directories, and strict access protection. The field directories drive general-purpose query and update processors. The file structure is relationallike, and files can be linked at run time to form complex data base views. A high-level language, BASE/PL, is also available for commercial application development. Most important, the system is integrated, and the tools can be used to complement one another. For example, a production application program can be written to maintain the data base, and the query processor can be used for ad-hoc reporting. Although BASE/OE is both comprehensive and powerful, simplicity has been the primary design goal. That has led to a system truly approachable by the end user.

Price: \$950 – \$9,500

Contact: Peter L. Wise
(303) 892-5626

INFORMATION STRUCTURES, INC.
910 15th Street, Suite 356
Denver, CO 80202

BMDP Statistical Software

Operating System: IAS, RSTS, RSX, RT-11

Keywords: • Data base management • Data collection
• Scientific • Statistics

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The BMDP Statistical Software computer programs are designed to aid data analysis by providing methods ranging from simple data display and description to advanced statistical techniques. Data is usually analyzed by an iterative "examine and modify" series of steps. First, the data is examined for unreasonable values, graphically and numerically. If unreasonable values are found, they are checked and, if possible, corrected. An analysis is then performed. That analysis may identify other inconsistent observations or indicate that further analyses are needed. The BMDP programs are designed to handle all steps in an analysis.

The BMDP programs are organized so that the problem to be analyzed, the variables to be used in the analysis, and the layout of the data are specified in a uniform manner for all programs. That permits different analyses of the same data with only minor changes in the instructions. Instructions are given to the programs, using English-like control language. Data can be stored permanently or passed between programs using self-documented BMDP files.

The 1983 release of the BMDP Statistical Software package contains 40 programs loosely classified into the following categories: data description, frequency tables, regression analysis, analysis of variance, multivariate analysis, life tables and survival analysis, time-series analysis, and miscellaneous techniques.

A version of this product is available for the VAX computer.

Price: \$1,050/yr – \$2,900/yr

Contact: Lynda K. Glassner
(213) 475-5700 or Telex: 4992203

BMDP STATISTICAL SOFTWARE, INC.
1964 Westwood Boulevard, Suite 202
Los Angeles, CA 90025

BRS/SEARCH

Operating System: UNIX

Keywords: • Data base management • Law • Library science
• Management

BRS/SEARCH is a full text information retrieval software package allowing access to text. Every word becomes an index term with complete Boolean and positional operators.

The package is used in all industries for R&D reports, card catalog systems, litigation support, bids and proposals, competitive marketing summaries, and so on.

The software features provide:

- Streamlined interactive dialog
- Standard Boolean operators, as well as special proximity operators, providing precise retrieval at the paragraph, sentence, or word level

- Full pattern matching, allowing right- and left-hand and embedded truncation capabilities, including truncation limiting
- Powerful paragraph qualification features, including postsearch qualification of search entries
- Special search commands that display words in the data base containing the specified stem and that accept paragraph qualification
- SAVESEARCH feature for storing search strategies for later recall
- Range searching of numeric or textual information, including the use of comparative operators, such as equal to, greater than, and less than operators
- Rapid browsing capability for on-line document display and selection, including an automatic display feature for a given range of documents
- Extensive print capabilities, including queuing for later display or remote printing
- Multiple field sorting of both on-line and queued output
- Total data base security system, including data base passwords and user privilege-level control
- Full text searching of multipage documents, including in-context results, within-document browsing, and word highlighting
- Numeric processing capability, combining free text searching and numeric processing, such as average or total, in a single operation

A version of this product is available for the VAX computer.

Price: \$5,000 – \$30,000

Contact: Software Department
 (518) 783-1161 or (800) 235-1209
 BRS
 1200 Route 7
 Latham, NY 12110

Collection of California U.S. Forest Service Software

Operating System: RSX

Keywords: • Data conversion • Data entry • Printing
 • Word processing

Memory required: 5K to 32K.

The following is a brief description of the programs on the tape: count blocks on log in/log out + account generator (KBL); account block counter (in conjunction with KBL) (ABC); data entry (DAT) large and small versions; find program with added switches NA, S1, SZ (FIN); TTP with added options (TTP); Index sort to sort word processing index (IND); interuser mail system (MSG); GRFS (Permittee Fee Calculation) (GRF); CVL (CVL) for changing volume label information; WPLOG (WPA) for building WP account log-on information; XEROX (XER) for XEROX 1200 JDL creation; mail purge (MAI) for deleting mail receipts in in-boxes; change (CHA) data in any type file; hold (HOL) a terminal for a signed-on user; OCTAL converts binary, octal, decimal, hexadecimal numbers; Snoopy calendar (SNO); HPSET (HPS)

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to set tabs and log bottom on HP-2621P terminal; WPACNT (WPA) to list, add, and/or delete WP accounts from DP UNTAB (UNT); cookie (fortune) (COO); CCL (CCL); word processing startup and abort “use” and “abouse” (USE) (ABO); virtual disks system (VDS); RO mailer (MAI); WHO is logged on (WHO); BKC (BKC) force commands on another TTnn; pool status (OPA); rewind MM (REW); RUNOFF (RNO); SRD (SRD); and RO tape library (TAP).

DECUS number 11-569.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

Complete File Sort Utility

Operating System: RT-11

Keywords: • File management • Programming tools

Memory required: 16KW.

RTSORT, a revision to Complete File Sort Utility, performs a multiple key sort of a data file in either alphabetical or ASCII order. The sort is accomplished via a Tag Array built with the specified sort fields and block and record addresses. A Shell Sort puts the Tag Array in ascending or descending order. The sorted data is written to a file and, optionally, printed on the terminal.

A maximum of 16 sort fields is allowed. The maximum record length is 2,046 bytes. Records must be separated by a /CR/LF.

The revisions consist of the replacement of redundant code with sub-routines, the streamlined conversion between binary and ASCII decimal, more efficient file I/O and data storage, and run-time allocation of buffer space and Tag Array storage, resulting in an increase in maximum number of sorted records and a size reduction of SAV image from 60 blocks to 6 blocks. DECUS number 11-444.

Note: Increased record capacity, increased speed, and SAV image reduction are the improvements.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

Compucom Client Information System

Operating System: RSTS

Keywords: • Accounting • Investments • Real estate

This system allows brokers in any industry to track supply and demand on individual items in various market segments, based on the customer's market position — buy or sell. The system keeps track of names, addresses, contact names, and telephone numbers, as well as other miscellaneous information about the customer. The system can generate reports and mailing lists based on customer characteristics. The system even reminds the broker when it is time to call a customer.

Price: \$10,000 – \$15,000

Contact: Paul Spencer
(404) 452-1090

COMPUCOM, INC.
3404 Oakcliff Road, Suite C-4
Atlanta, GA 30340

COSAP™ (Con conversationally Oriented Statistical Analysis Package)

Operating System: RSTS

Keywords: • Calculation aids • Mathematics • Statistics

COSAP Version 2B is written in BASIC-PLUS for use on PDP-11 computers in an 8-9K word user area under Version 7.2 of RSTS/E. Statistical analyses available include marginal frequency, student's *t* test, chi square test, rank correlation, cross-tabulation (up to 8-way in a single command), first-order Pearsonian product-moment correlation, simple and multiple regression (up to 40 right-hand-side variables), breakdown, histogram, scattergram, factor analysis, analysis of variance, discriminant analysis, and probit analysis.

COSAP provides a coherent and versatile statistical package featuring convenient terminal data entry, flexible commands for editing or transforming data, a powerful select mode, a uniform data format, a conversational environment, and ample capacity (up to 32,767 observations on up to 4,095 double-precision variables or 8,191 single-precision variables).

The licensed package consists of source code for all modules, internal table files, test data files, and source code for BUILD, a powerful Lawrence program that is used for installation and that has many other uses. Printed documentation includes detailed instructions for installation, codebooks for test data files, and the comprehensive *User's Guide to COSAP*.

Price: \$1,000 – \$5,000

Contact: Dr. James S. Evans, Director of Computer Services
(414) 735-6571

COMPUTER CENTER PUBLICATIONS
Lawrence University, Box 599
Appleton, WI 54912

CYX Transaction Processing System

Operating System: RSX

Keywords: • Communications • Data base management
• Networking

This complete system creates an efficient environment for transaction processing. Designed for large-volume, multiuser, on-line applications, the system provides communications management for 3270-type BSC terminal networks and data base management for high on-line performance. The system features a layered architecture and modular design and supports a set of optional products, including IBM Reach Through, DECnet Reach Through, Report Writer, Security Control, Electronic Mailbox, Text Filing, Centralized Program Error Reporting, and Data File Maintenance.

CYX Transaction Processing manages data bases to the maximum limits of the hardware, can increase throughput by an average of 30% to 100% over general data base management systems, and provides duplicate recording, journaling, automatic transaction rollback, and full restart/recovery. CYX supports computer networking and distributed processing and allows batch processing, program development, and system maintenance functions to process simultaneously with on-line operations.

A version of this product is available for the VAX computer.

Price: \$30,000 – \$45,000

Contact: Johan Nik Kirkeng
(612) 835-4884
CYTROL, INC.
4620 West 77th Street
Edina, MN 55435

D™

Operating System: CTS-300, RT-11, TSX-PLUS

Keywords: • Data base management • Data collection
• Data dictionary • Query facilities

D is a terminal-oriented real-time high-performance multiuser data base management and retrieval system. Users of the D system interact with information in their data base, using terminals attached to a computer. D can support more than one process accessing the data base simultaneously, through either the D multitasking system or the TSX operating system. As distributed, D is a complete information management system.

Files in the D data base are tightly coupled, with data relationships maintained by the data base software. All D data items and files are referred to using logical names. D includes numerous utilities to design, structure, and maintain the data base. The D user system is a command-oriented system permitting users to create, update, delete, and retrieve data. D includes a library of user-callable subroutines for data base access and user-installed commands.

Price: \$1,500

Contact: Peter McWha, General Manager
(613) 820-1517
LOGICAID LTD.
97 Craig Henry Drive
Nepean, Ontario K2G 3S8
Canada

Data Base Management Package

Operating System: RT-11

Keywords: • Data base management • Report writer

Memory required: 20KW.

This package was designed to allow small homogeneous data bases to be quickly set up and manipulated. The data base package provides the user with the following facilities:

- A relatively simple method of defining the structure of the records that make up the data base.
- A screen-oriented data base editor, which allows records to be created, edited, and deleted. The editor supports protected and data base managed fields. Even persons with little computer experience can use it.
- A report generation package, which allows specific records to be selected and reports generated. The records to be included in the report can be sorted by any field within the record, and the report format can be easily modified.
- A FORTRAN interface that allows records on the data base to be readily accessed from a FORTRAN mainline program. Fields within a record can be accessed via their logical names. A FORTRAN interface is also provided to the sorting module, in the event that the user needs to implement a special application program. The FORTRAN interface also allows the user to access two or more data bases simultaneously.

DECUS number 11-529.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Data*Set

Operating System: RSTS, RSX

Keywords: • Data base management • Data entry • Medical
• Report writer

The Data*Set data base management system provides means to store and retrieve data. Data*Set lets you look at data, change it, or store it interactively. Data*Set provides tools that allow the user to select specific data records or fields. The system has sophisticated facilities for report generation and statistical analysis of selected data, as well as

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extensive facilities for data retrieval. In addition, you can add new records to a file, delete old ones, or modify existing ones to maintain an accurate, up-to-date file.

The Data*Set command language is simple to use; each command describes its function — for example, DISPLAY, LIST, and GO. An extensive HELP facility is also provided.

Data*Set carries out each command as you enter it and will prompt you when it is ready to receive another command. Data*Set is designed to detect user errors and to provide an understandable error message. Commands for retrieving and manipulating records let you select the record and data you want. You can access all the records in a file or only those meeting the selection criteria you specify. You can output or manipulate any field or combination of fields in a record.

Data*Set stores data in files in a packed form, with variable-length fields in variable-length records. This method uses a minimum amount of storage space and results in high efficiency. Options exist to convert Data*Set files to standard ASCII files and vice versa.

A version of this product is available for the VAX computer.

Price: \$5,000 – \$20,000

Contact: Donald Rubin, President
(301) 982-1818

SYSTEMS ENGINEERING TECHNOLOGY INC.
10676 High Beam Court
Columbia, MD 21044

DATATRIEVE-11, Version 3.0

Operating System: RSTS, RSX

Keywords: • Data base management • Query facilities
• Report writer • Text management

This interactive query, report, and data maintenance system is designed for the less sophisticated computer user and is available on the RSTS/E, RSX-11M, and RSX-11M-PLUS operating systems. DATATRIEVE-11 uses the RMS-11K record management services to access data contained in disk files of sequential, indexed, or relative organization. Access to DBMS-11 data structures is available for users of DBMS-11, Version 2.0. DATATRIEVE-11 provides facilities for selective data retrieval, sorting, formatting, updating, and report generation without the need for programming.

Record and domain (file) definitions entered in DATATRIEVE-11 are stored in data dictionaries shared by DATATRIEVE-11 users. Data dictionaries can also be used to store frequently used sequences of commands to be recalled and processed later. Commands are provided to list the contents of the data dictionary, to delete entries, and to control access to individual entries in the data dictionary. A dictionary compression utility is provided to compress the Data Dictionary file.

DATATRIEVE-11 enables the user to define domains that cross RMS file definitions and subset record definitions. A distributed server allows remote systems connected via DECnet, transparent access to DATATRIEVE domains on the user's system.

A remote Call Interface allows the user to write programs in COBOL, BASIC, or FORTRAN to access remote DATATRIEVE domains.

DATATRIEVE-11 provides the Application Design Tool (ADT) to assist the novice user in creating domain and record definitions. The ADT uses an interactive dialog technique to guide the user through the data definition process. The ADT creates an indirect command file that is then processed to update the DATATRIEVE Data Dictionary.

Refer to SPD #12.48.11 when requesting further information on this product from your local DIGITAL sales office.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Consult your local DIGITAL sales office
(see Introduction).

DATATRIEVE-11/IAS, Version 2.4

Operating System: IAS

Keywords: • Data base management • Query facilities
• Report writer • Text management

DATATRIEVE-11/IAS is an interactive query, report, and data maintenance system designed for the less sophisticated computer user. DATATRIEVE-11/IAS uses the RMS-11K record management services to access data contained in disk files of sequential, indexed, or relative organization. Access to DBMS-11 data structures is available for users of DBMS-11, Version 2.0. DATATRIEVE-11/IAS provides facilities for selective data retrieval, sorting, formatting, updating, and report generation without the need for programming.

Record and domain (file) definitions entered in DATATRIEVE-11/IAS are stored in data dictionaries shared by DATATRIEVE-11/IAS users. Data dictionaries can also be used to store frequently used sequences of commands to be recalled and processed later. Commands are provided to list the contents of the data dictionary, to delete entries, and to control access to individual entries in the data dictionary. A utility is provided to compress the data dictionary file.

DATATRIEVE-11/IAS enables the user to define domains that cross RMS file definitions and subset record definitions. It provides the Application Design Tool (ADT) to assist the novice user in creating domain and record definitions. The ADT uses an interactive dialog technique to guide the user through the data definition process, creating an indirect command file that is then processed to update the DATATRIEVE Data Dictionary.

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The DATATRIEVE-11/IAS report writer provides easy-to-use commands to control various report functions. DATATRIEVE-11/IAS uses a set of English-like commands for data retrieval, modification, and display. Prompting is automatic for both command and data entry.

DATATRIEVE-11/IAS provides a full set of arithmetic operators (addition, subtraction, multiplication, division, and negation), a set of statistical operators (total, average, maximum, minimum, and count), and automatic conversion between data types used in the FORTRAN, COBOL, DIBOL, and BASIC-PLUS-2 languages.

DATATRIEVE-11/IAS provides data encoding, decoding and input validation capabilities through tables stored in the data dictionary. The user can also check data validity by storing validation criteria in the record definition.

Refer to SPD #12.69.01 when requesting further information on this product from your local DIGITAL sales office.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Consult your local DIGITAL sales office
(see Introduction).

DATMAN (BASIC Data Manipulation Package)

Operating System: RT-11

Keywords: • Calculation aids • Data base management
• File management • Query facilities

Memory required: 8K.

This set of RT-11/BASIC programs allows simple manipulation of numerical data stored on file. Options include stop data, print data, patch a file, merge files, copy files, selectively extract data, selectively average data, mathematical transformation of data, and file arithmetic. Options are controlled via simple question-and-answer displays. Detailed documentation is included. DECUS number 11-306.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

DBMS-11, Version 2.1

Operating System: IAS, RSX

Keywords: • Compilers • Data base management
• Language enhancers

An implementation of the 1973 and 1975 CODASYL Data Base Language Specifications, DBMS-11 provides data base facilities for PDP-11 COBOL and PDP-11 FORTRAN-77 programs and any other DIGITAL host language that supports a CALL statement or equivalent, such as FORTRAN IV, BASIC-PLUS-2, and MACRO-11.

DBMS-11 provides separate language facilities for the description and manipulation of data. That separation of data description provides for the integration of all data and data relations into a data base that is common to all application programs sharing the data.

Refer to SPD #12.66.03 when requesting further information on this product from your local DIGITAL sales office.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Consult your local DIGITAL sales office
(see Introduction).

DMG/FLOW

Operating System: RSTS

Keywords: • Graphics • Presentation aids • Report writer
• Text management

DMG/FLOW is a software tool for graphically producing and editing tree-structured designs. Although directed primarily toward systems and program designers, DMG/FLOW is an excellent package for anyone with a need to create, modify, and print diagrams that are based on tree structures — for example, functional system design, menu hierarchies, management and organization charts, data base design (tree only), and program design.

DMG/FLOW provides an easy-to-use editor that manipulates boxes on the screen of a VT100. Interim designs or alternatives can be stored on disk and recalled for later design sessions or reviews. Printing is straightforward and needs only standard DIGITAL printers with no special graphics capability. The hard-copy diagrams can be incorporated into the system documentation, eliminating tedious redrawing of working diagrams. (DMG/FLOW requires a VT100 with the AVO option. Selected terminals that emulate the VT100 with AVO may be used. No special printer is required, but some printers produce better-quality diagrams than others do. Contact DMG for advice in this area.)

Besides being easy to use and needing no special hardware, DMG/FLOW verifies design structures. It will not allow syntactical or other inconsistencies that might otherwise arise. Full 132-character width is supported, and DMG/FLOW provides the facility to link multipage diagrams with cross-page references. Header boxes maintain creation and revision dates for each page in diagram.

A version of this product is available for the VAX computer.

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Price: \$1,500 – \$2,000

Contact: Ken Allsopp
(416) 225-7788

DIGITAL MANAGEMENT GROUP LTD.
4800 Yonge Street
Willowdale, Ontario M2N 6G5
Canada

DMS-500, Version 2.1

Operating System: RSTS

Keywords: • Data base management • Disk utilities
• File management

DMS-500, an extension of the RSTS/E system software, aids the development and operation of business applications on a RSTS/E operating system. The package consists of a group of software modules that provide general methods for organizing and processing logical data records stored in indexed random (hashed), indexed sequential, and relative access file structures. Interactive utility routines are provided to define, allocate, and organize data into those file structures.

Interfaces to the RSTS/E file system, control of direct access device input/output, and data buffering are handled by selected software modules appended to user BASIC-PLUS programs. User-developed programs establish file-processing modes and specify input/output operations by using BASIC-PLUS function calls. Application programs identify specific logical records to be added, retrieved, modified, and deleted from file structures. Retrieval and update control for multiple, concurrently operating user programs that access the same data file structures are handled by system-level routines.

An extended sort facility is provided to sequence data maintained in either the DMS-500 Indexed Access Method (IAM) and Indexed Sequential/Relative Access Method (ISAM/RAM) data files or normal BASIC-PLUS record I/O files in blocked data record formats. A multi-volume sort input/output capability is included.

Refer to SPD #13.05.03 when requesting further information on this product from your local DIGITAL sales office.

Price: Available upon request

Contact: Consult your local DIGITAL sales office
(see Introduction).

Drawing Register

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Architecture • Civil engineering • Graphics
• Project management

Drawing Register allows a register to be maintained of all drawings produced and issued on a project. This project management computer system can produce a complete history of any drawing or group of drawings on request. It also permits a report to be produced of the current status and revision of each drawing so that the project management team can ensure that all organizations working on the project are using the latest issue of drawings.

Drawing Register contains a list of people and organizations that can receive drawings for a project. Each is given a reference code by the user; therefore, to issue drawings, it is necessary only to enter the recipient's code together with the drawings and quantities. The system produces a print delivery note that lists all the drawings required and accompanies the drawings to the recipient. The system can at any time report all the recipients of any drawing and, conversely, all the drawings issued to a recipient.

A version of this product is available for the VAX computer.

Price: £1,500 – £3,000

Contact: Martin Barnes, Director
061-439 6639 or Telex: 666650
PROJECT SOFTWARE LTD.
Foden Lane, Woodford
Stockport, Cheshire SK7 1PT
United Kingdom

DRS

Operating System: IAS, RSX

Keywords: • Data base management • Inventory
• Networking • Query facilities

DRS is a data base and applications management system available in both interactive and batch environments. DRS consists of the following functional elements:

- The DRS nucleus provides a language of more than 100 commands that permit the user to define and modify the data base structure, load and update data, and perform queries, sorts, computations, and report generation. Data bases can consist of up to 64 record types related in complex networklike logical structures. As many as 1,000 fields can be defined with data types of integer, real number, data, logical, or text. Variable-length fields are supported and can range beyond 4,000 bytes in length.
- IP, a screen input processor, is a high-level English-word programming language for the creation of screen displays that allow an end user to perform transaction-oriented queries and updates of a data base.

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- RPW II, a report writer, generates extensive reporting from the data base and includes full computational facilities. Simple print statements position data anywhere on a page. Compute statements allow the calculation of new data values with arbitrarily complex arithmetic expressions, and summary statistics are automatically captured at control breaks.
- PLOT, a graphic element, allows DRS end users to generate files of data suitable for orthogonal plotting. Line plots, point plots, quadratic-fit plots, and user-defined forms are all possible.
- XBS, the host language interface, provides audit trailing/recovery, maintenance, and transaction processing.

A version of this product is available for the VAX computer.

Price: \$20,000 +

Contact: Lud A. Worsham, President
(609) 799-4600

ADVANCED DATA MANAGEMENT
15-17 Main Street
Kingston, NJ 08528

EasyEntry Forms Management and Data Entry System

Operating System: RSTS, RSX

Keywords: • Data entry • Forms management

EasyEntry is a full-screen forms management and data entry system. By allowing on-screen design and implementation of data entry applications, EasyEntry eliminates such time-consuming steps as forms layout, coding, compiling, and testing. Once forms are designed, they are ready to be completed, using a fill-in-the-blank technique. EasyEntry supports high-volume data entry on a variety of CRT terminals while imposing relatively low overhead.

EasyEntry provides a number of functions that may be performed on the input fields, including range and validity checks, arithmetic calculations, automatic duplication of fields, batch totals, and specification of additional attributes such as overpunch signs, left-zero fill, and dates. Other features include table look-up, error messages, field- and form-level help facilities, operator statistics, split-screening, program calling, and forms-chaining. EasyEntry supports special display attributes of terminals, such as bold, blinking, and color.

A version of this product is available for the VAX computer.

Price: \$995 - \$4,400

Contact: Elizabeth F. Epermanis
(919) 942-7801

APPLIED INFORMATION SYSTEMS, INC.
500 Eastowne Drive, Suite 207
Chapel Hill, NC 27514

Energy Mind

Operating System: CTS-300, RSTS, RT-11

Keywords: • Billing • Energy • Petroleum • Scheduling

Energy Mind was developed to provide a complete solution for the data processing requirements of the petroleum marketer. The flexible, easy-to-use system provides major benefits in the availability of information, in the automation of routine tasks, and in cost savings and improvements in cash flow. The system centralizes your information yet makes it more available than ever before.

The system will accommodate the basic needs of virtually any marketer. After the system has been initialized, data stored in the system is available to the user in printed format, as well as on the display screen, through simple requests. The system was designed to eliminate the need for a programmer or other technically oriented person.

The system also provides for data security, including batch totaling and other checks and balances to ensure data integrity. Following simple procedures results in achieving and maintaining a consistently high level of control over operations.

The Energy Mind system is made up of nine major subsystems, each of which is divided into several operational functions. The major subsystems are inquiry, credit and collection, delivery, posting deliveries and A/R transactions, billing, management reporting, custom reporting, and file maintenance. Other available subsystems are service operations, driver analysis, liquid inventory, multilocation inventory (TBA), and satellite delivery.

The user begins by choosing a subsystem from a list displayed on the screen. Then a list of functions for that subsystem will appear on the screen. A screen will be displayed to guide the user through the completion of the function.

Price: \$15,000 – \$25,000

Contact: Earle G. Phillips
(401) 728-0400

ORBIS

174 Armistice Boulevard
Pawtucket, RI 02860

EXFILE (Exchange File Program)

Operating System: RT-11

Keywords: • File management • File transfer

Memory required: 12K.

This general utility is designed to allow any two computer systems to exchange files via serial interfaces. Any type of file is transferable, and either system may be the master or the slave during the transfer. DECUS number 11-415.

Price: \$5–\$225

Contact: DECUS (see Introduction)

FACTS V Systems (For Accurate Control of Tire Systems)

Operating System: RSTS, RT-11

Keywords: • Data base management • Inventory
• Maintenance • Purchasing

FACTS V is an integrated system of computer programs designed to build and maintain a tire data base and to generate a series of reports to provide information control over eight direct and one indirect tire cost centers. The system runs interactively; the user enters all data and commands to the system from a terminal. The basic unit of information for tires is a Tire Transaction, which consists of tire costs, tread-depth measurements, tire changes on equipment, tires scrapped, and new tires put on equipment, for example. Thus, the data base consists of the Tire Transaction file along with various reference tables. New tire transactions are collected from the mine site, entered into the Tire System, and then merged into the Tire Transaction file. During the entry and merge, extensive error checking is performed to maintain data integrity. After the merge, the various reports can be generated. Included are financial management procedures to effect overall reduction in tire costs.

Price: Available upon request

Contact: Joseph M. Chelini, President
(406) 494-3174

MINE DATA COMPUTER SERVICE, INC.
Box 3033
Butte, MT 59702

FIRES (Flexible Information Reporting and Editing System)

Operating System: UNIX

Keywords: • Financial analysis • Report writer
• Text management • Word processing

FIRES enables office personnel to easily produce reports and information. No technical training is required. Responses to simple English-language questions will lead anyone, step by step, through requests for the many reports and tabulations needed to satisfy management information requirements. In minutes, any member of your office staff can request reports from any automated file. Your data files need no reformatting.

FIRES offers record selection (10 fields); sequencing (five levels); automatic or specified page formatting and column titles; three lines of page headings and up to three lines of footnotes; totals, averages, percentages, and counts of occurrences; 2- or 3-dimensional tables; arithmetic computations between fields; saved report requests for repetitive-type reports; and early error detection of request prior to report creation.

A version of this product is available for the VAX computer.

Price: \$10,000 – \$20,000

Contact: Raymond G. Kennerly
(301) 441-1390

KENNERLY ASSOCIATES, INC.
6302 Merna Lane
Lanham, MD 20706

FIS (FMS Information System and Report Writer)

Operating System: RSTS

Keywords: • Forms management • Programming tools
• Query facilities • Report writer

The FIS Report Writer is a fast, efficient, and easy-to-use method of extracting information from the FMS-formatted files used within the manufacturing and distribution software application offered by NCA, Manus, and Transcomm.

The FIS features include the ability to access multiple files, an interactive user interface with intelligent defaults, the ability to back up and correct or change input, and on-line help. Extensive format control including custom headings; break logic; print masks, positions, and frequency; and sorting and totals that provide for maximum flexibility are provided.

The user can create command files with FIS so that all responses to a session may be saved. A save-selected recorder function puts the logical record numbers of selected data into a file for quick access. FIS allows for comparison, logical, and arithmetic operations.

A version of this product is available for the VAX computer.

Price: \$3,000 – \$4,000

Contact: Peter J. Avenali, Marketing Director
(206) 284-4025

PARK SOFTWARE
P.O. Box 202, Northgate Station
Seattle, WA 98125

FMS-11/IAS, Version 1.0

Operating System: IAS

Keywords: • Data entry • Forms management
• Menu handlers • Query facilities

FMS-11/IAS is a forms-oriented video I/O management system for the IAS operating system. FMS-11/IAS functions as an independent software front end that logically off-loads the complexities of interactive video I/O management from the application program.

Call statement, high-level language interfaces are provided for applications written in FORTRAN IV/IAS-RSX, FORTRAN 77/IAS, BASIC-PLUS-2 for IAS, and COBOL as well as in MACRO-11 assembly language. FMS-11/IAS is equally effective implementing applications with question-and-answer, menu, or fill-in-the-blank forms.

Forms defined using FMS-11/IAS can use the following features of DIGITAL's VT100 terminal: reverse video, bold, underlined, and blinking characters; 132-column lines; jump and smooth scrolling; and split and reverse screens.

FMS-11/IAS can be used as a general-purpose manager of operator I/O or as a front end in traditional source data entry applications. Possible FMS-11/IAS applications range from data base inquiry/response/update to periodic displays of the status of a real-time process or accepting control information from the operator for the process.

FMS-11/IAS forms are data structures created by using FED, the interactive form editor. Forms normally reside in form library files on disk and are retrieved as needed by application programs at execution time. That results in a high degree of independence between form definitions and application programs. In many cases, form definitions can be modified without requiring recompilation or relinking of the application program. If especially fast response time is required, forms can be linked to applications as a memory-resident form library.

FMS-11/IAS consists of the following software components:

- FED (Form Editor) — Used by the application developer to create and modify video forms by typing them on the screen as they are to appear to the application user
- FUT (Form Library Utility) — A multifunction utility program for manipulating files of FMS-11/IAS form descriptions
- FDV (Form Driver) — A reentrant subroutine called from application programs to control screen processing

Refer to SPD #12.32.03 when requesting further information on this product from your local DIGITAL sales office.

Price: Available upon request

Contact: Consult your local DIGITAL sales office
(see Introduction).

FMS-11/RSTS, Version 1.5

Operating System: RSTS

Keywords: • Data entry • Forms management
• Menu handlers • Query facilities

FMS-11/RSTS is a forms-oriented video I/O management system for the RSTS/E operating system. FMS-11/RSTS functions as an independent software front end that makes the complexities of interactive video I/O management transparent to the application program.

FMS-11/RSTS can be used as a general-purpose manager of operator I/O or as a front end in traditional source data entry applications. FMS-11/RSTS is equally effective implementing applications with question-and-answer, menu, or fill-in-the-blank forms. Possible FMS-11/RSTS applications range from data base inquiry/response/update to computer-aided instruction and government administrative applications.

Forms defined using FMS-11/RSTS can use the following features of DIGITAL's VT100 terminal: reverse video, bold, underlined, and blinking attributes characters; 132-column lines; jump and smooth scrolling; and split and reverse screens.

FMS-11 forms are data structures created using FED, the interactive form editor. Forms normally reside in form library files on disk and are retrieved as needed by application programs at execution time. That results in a high degree of independence between form definitions and application programs. In many cases, form definitions can be modified without requiring recompilation or relinking of the application program.

FMS-11 components are as follows:

- Form Editor (FED) — Used by the application developer to create and modify video forms by typing them on the screen as they are to appear to the application user
- Form Library Utility (FUT) — A multifunction utility program for manipulating files of FMS-11/RSTS form descriptions
- Form Driver (FDV) — A reentrant subroutine called from application programs to control screen processing

Refer to SPD #13.17.04 when requesting further information on this product from your local DIGITAL sales office.

Price: Available upon request

Contact: Consult your local DIGITAL sales office
(see Introduction).

FMS-11/RSX, Version 1.0

Operating System: RSX

Keywords: • Data entry • Forms management
• Menu handlers • Query facilities

FMS-11/RSX is a forms-oriented video I/O management system for the RSX-11M, RSX-11M-PLUS, and RSX-11S real-time operating systems. FMS-11/RSX functions as an independent software front end that logically off-loads the complexities of interactive video I/O management from the application program.

Call statement, high-level language interfaces are provided for applications written in FORTRAN IV/IAS-RSX, FORTRAN 77/RSX, BASIC-PLUS-2 for RSX-11M and COBOL, as well as MACRO-11 assembly language. FMS-11/RSX is equally effective for implementing applications with question-and-answer, menu, or fill-in-the-blank forms.

Forms defined using FMS-11/RSX can use the following features of DIGITAL's VT100 terminal: reverse video, bold, underlined, and blinking characters; 132-column lines; jump and smooth scrolling; and split and reverse screens.

FMS-11/RSX can be used as a general-purpose manager of operator I/O or as a front end in traditional source data entry applications. Possible FMS-11/RSX applications range from data base inquiry/response/update to using periodic displays of the status of a real-time process or accepting control information from the operator for the process.

FMS-11/RSX forms are data structures created using FED, the interactive form editor. Forms normally reside in form library files on disk and are retrieved as needed by application programs at execution time. That results in a high degree of independence between form definitions and application programs. In many cases, form definitions can be modified without requiring recompilation or relinking of the application program.

If especially fast response time is required or in an RSX-11S environment with no mass-storage support, forms can be linked to applications as a memory-resident form library.

FMS-11/RSX consists of the following software components:

- FED (Form Editor) — Used by the application developer to create and modify video forms by typing them on the screen as they are to appear to the application user.
- FUT (Form Library Utility) — A multifunction utility program for manipulating files of FMS-11/RSX form descriptions.
- FDV (Form Driver) — A reentrant subroutine called from application programs to control screen processing.
- KED (Video Keypad Editor) — A general-purpose text editor that operates on standard ASCII files. KED uses the function keypad to control the full spectrum of video features of the VT100. A VT52 version (K52) is provided.

Refer to SPD #12.27.07 when requesting further information on this product from your local DIGITAL sales office.

Price: Available upon request

Contact: Consult your local DIGITAL sales office
(see Introduction).

FMS-11/RT-11, Verson 1.2

Operating System: RT-11

Keywords: • Data entry • Forms management
• Menu handlers • Query facilities

FMS-11/RT-11 is a set of utilities and subroutines that provide a multiterminal video forms capability for programs written in MACRO-11, BASIC-11, or FORTRAN IV under the RT-11 operating system. Forms defined using FMS-11 can use the following features of DIGITAL's family of VT100-compatible terminals: reverse video, bold, underlined, and blinking characters; 132-column lines; jump and smooth scrolling; and split and reverse screens.

The FMS-11 system can be used as a general-purpose manager of operator I/O to programs written in any of the supported languages and also as a front end in traditional source data entry applications.

Each field in an FMS-11/RT-11 form can be assigned attributes such as validation "picture," embedded text characters, right/left justification, fixed decimal, and "must complete." A default value and a line of explanatory HELP text can be associated with each field of a form. In addition, a separate HELP display can be associated with each form.

Another feature of FMS-11/RT-11 is "named data," which allows named strings of constant data to be associated with a form at form creation time and retrieved dynamically by name or number during program execution.

FMS-11/RT-11 applications written in MACRO-11 or FORTRAN IV can be built for either single- or multiterminal applications. In multiterminal applications, the terminals can run different tasks and can change tasks independently of one another. The FMS-11/RT-11 software supports the maximum number of terminals allowed under each RT-11 hardware configuration.

FMS-11/RT-11 consists of the following software components:

- **Form Editor (FRED)** — Used by the application developer to create and modify video forms by typing them on a VT100 screen as they are to appear to the application user.
- **Form Utility (FRMUTL)** — A multifunction program that manipulates FMS-11/RT-11 forms descriptions and that can be used to list the directory of a form library or to print a complete description of a form from a form library or from a data file.
- **Form Driver (FDV)** — A reentrant subroutine called from application programs to perform screen processing.

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- **Application Run-Time Supervisor (ARTS)** — Allows each terminal in a multiterminal system to run a MACRO-11 or FORTRAN IV application program independently of the programs on the other terminals. As an interface between the application programs and the RT-11 monitor, ARTS acts as a multitasking submonitor, providing subroutines for terminal and mass storage I/O and for shared and private file access management.

Refer to SPD #12.22.07 when requesting further information on this product from your local DIGITAL sales office.

Price: Available upon request

Contact: Consult your local DIGITAL sales office
(see Introduction).

FSORT3

Operating System: RSTS

Keywords: • File management • Programming tools

FSORT3 is a very fast run-time system capable of sorting up to 16 million records or keys. Record and key formats are compatible with those of the RSTS-11 Sort package, into which FSORT3 may be integrated by replacing RSTS-11 Sort modules with their counterparts from the FSORT3 package. FSORT3 may also be used stand-alone. FSORT3 is up to 70 times as fast as the RSTS-11 Sort package in CPU time and up to 45 times as fast in stand-alone wall time.

Price: \$2,500

Contact: Martha Schriefer
(617) 861-0670

EVANS GRIFFITHS & HART
55 Waltham Street
Lexington, MA 02173

Fundraiser

Operating System: MIIS

Keywords: • Data base management • Word processing

This program provides two categories of information:

- Fund raising — gift and pledge processing, word processing, campaign tracking, and name and address maintenance
- Membership — renewal billing, print member cards, and promotion analysis

A version of this product is available for the VAX computer.

Price: \$10,000 – \$50,000

Contact: John Mills
(617) 863-8070

IMPACT SYSTEMS, INC.
83 Hartwell Avenue
Lexington, MA 02173

GSYS.BAS: System Management Utility

Operating System: RSTS

Keywords: • Diagnostics • Disk utilities • Printing

This system management utility for the RSTS/E V7 operating system gives information needed about the system, without the problems encountered using the VT50PY or some other similar program. The following is some of the information this program displays:

- The small buffer count is displayed on the screen; if the count drops below 100, the number flashes.
- The number of jobs and the maximum number of jobs are also displayed on the screen; when the system is full, they flash.
- The rest of the display is made up of the first 10 message receivers. On each receiver, the job name, job number, and receiver ID are displayed.
- On the line printer and batch spoolers, a special text is also displayed if a file is being printed or a batch stream is being run. For line printers, that text contains the file name being printed, the file size, and what block is being printed.
- Jobs on the system (the job's PPN, job status, job name, and keyboard number).
- Disk drive on the system (the pack ID, number of opened files, and free space are displayed).
- To minimize typing, the program function keys and the special keypad mode are used.

DECUS number 11-582.

Restrictions: The user must be in a privileged account, or the program must be compiled with a privileged protection code.

Note: This program is not system or terminal independent. Due to the massive number of PEEKs and other system table references, any changes by DIGITAL to RSTS/E's internal structure could cause problems with this program. Even with these restrictions, this program could be helpful to anyone managing a RSTS/E system.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

IMPRS

Operating System: RSTS, RSX, RT-11

Keywords: • Data base management • Language processors
• Programming tools • Query facilities

IMPRS is a relational data base software package that allows both technical and nontechnical users to establish and maintain relational data base systems, interactively generate sophisticated reports, and write fourth-generation high-level programs to support application systems. IMPRS is designed to increase programming productivity through the use of a complete data manipulation language. IMPRS also supports several query language interface modules that allow

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nontechnical users to browse through the data base and quickly produce reports. IMPRS is fully documented and comes with a full complement of utility programs to support the data base and to provide additional flexibility to the user.

A version of this product is available for the VAX computer.

Price: \$1,000 – \$20,000

Contact: Elvin E. Smith or Forrest E. Weddle
(913) 782-8544

RUF CORP.

1533 E. Spruce

Olathe, KS 66061

INDENT (Initial Data Entry)

Operating System: RSTS, RSX, RT-11

Keywords: • Data base management • Data entry
• Forms management

INDENT is a set of FORTRAN computer programs designed to facilitate the initial entry of data from original documents. Data fields are entered from a user-defined form, in the order of their occurrence, and a record is produced with variables in any desired order to facilitate data processing. Fields common to all records in a file produced during a single session need be entered only once. Each variable field on the record may be independently right or left justified, and the remainder of the field is filled by a blank or character specified by the user.

INDENT runs in minimal space, allowing numerous data entry terminals to operate in the space usually required by a single editor. For example, on a PDP-11 computer with 64K memory running RT-11, INDENT will run in the foreground while the keypad editor (KED) runs or FORTRAN program development takes place in the background. INDENT is of additional value when large amounts of numeric data must be entered but the system editor requires the keypad for editing functions. INDENT frees the keypad for numeric input.

INDENT programs define output record format, allow format review prior to initiating a session, and accept and display data from the resulting files in their order of entry.

A version of this product is available for the VAX computer.

Price: \$600

Contact: Mark Troy
(808) 842-8641

INDENT

1290-d Maunakea Street, Suite 133

Honolulu, HI 96817

informix™**Operating System:** ULTRIX, UNITY, UNIX**Keywords:** • Data base management • Forms management
• Query facilities • Report writer

This relational data base management system provides the powerful utilities needed to easily create, optimize, use, and maintain data bases. The system provides for flexible and virtually unrestricted data base design. The data base and file sizes are limited only by physical storage constraints. Logical file placement is unrestricted, as is data base access from anywhere within the file system.

The system performs data management functions quickly and efficiently through the c-isam B+ tree-based access method. The system contains informer, an interactive query language for extracting information; creating and storing the results of arithmetic, logical, or aggregate operations; and performing global data management functions.

A nonprocedural report-writing language, ace™ is available for non-technical personnel to extract, manipulate, and display data in a customized format.

Custom screen generation, data entry facilities, and query by forms capabilities are added by the facility perform.™

A version of this product is available for the VAX computer.

Price: \$3,000 – \$12,000**Contact:** Robert J. Macdonald
(415) 424-1300RELATIONAL DATABASE SYSTEMS, INC.
2471 E. Bayshore Road, Suite 600
Palo Alto, CA 94303**INMAGIC®****Operating System:** RSTS, RSX, RT-11, TSX-PLUS**Keywords:** • Engineering • Law • Library science

INMAGIC, a text retrieval and indexing program featuring a built-in report generator, allows multiple users fast direct access to variable-length records. Developed by Warner-Eddison Associates, Inc., information management consultants, INMAGIC manages text and bibliographic records. Written in FORTRAN, INMAGIC operates in both batch and interactive modes on systems for both minicomputers and micros. INMAGIC and related applications are easily learned by non-technical users, who may create individual data bases on line. User-friendly prompts and help screens are available on line to assist the new user.

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Data base records can contain numeric, textual, or calendar data in variable-length fields. Fields may have any number of subfields. Both full-term and individual keywords may be indexed for each indexed field. Unindexed fields may also be searched. Seven collating sequences, including Library of Congress classification, are available, and up to five sorts may be merged.

INMAGIC allows users to change their data whenever they want and to design their own data structures and report formats. On-line updating and addition of new records are standard features. INMAGIC offers sophisticated search capabilities via Boolean commands (AND, OR, NOT), ranges (from.. to.., equals, less than), truncation, exact or inexact matches, and text retrieval on words and wordstems. The user may combine several separate requests in one line, using INMAGIC's nested Boolean capabilities; on-line display of indexes and data structure help target searches. Search results may be printed, displayed, or written to a system file, using standard or custom formats, stored and repeated at the user's request. Specially designed record models and reports packages are available:

- BIBLIO™ — information center and library management
- INCASE™ — law office management, including litigation support
- INDUSTRY™ — engineering office management

A version of this product is available for the VAX computer.

Price: \$7,500 – \$13,500

Contact: Madeline F. Miele
(617) 661-8124
INMAGIC INC.
238 Broadway
Cambridge, MA 02139

Inventory

Operating System: RT-11, TSX-PLUS

Keywords: • Inventory • Warehousing

Bar-Coded Inventory eliminates errors and allows fast and easy stocking, receiving, disbursing, and inventory reporting and control. Applications are for wholesale and resale. Physical inventory can be handled quickly and easily by bar-coded scanners and can be verified and variances provided by the system. This system can be customized easily to fit your particular inventory system.

Price: Available upon request

Contact: John Logan
(503) 297-1627
DENNISON EASTMAN CORP.
6400 S.W. Canyon Court
Portland, OR 97221

INVSIM (Inventory Simulation)

Operating System: RSTS

Keywords: • Inventory • Simulation

Memory required: 8K.

INVSIM simulates inventory systems in a time-sharing environment. The program's options include heuristic rules for guiding the selection of decision variables; simulation of TZ, SQ, and SZ inventory policies; and the ability to find the sensitivity of costs and availability to unit costs, lead time, demands, randomness, and various decisions. DECUS number 11-182.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

ISAM Subroutines Library

Operating System: RT-11

Keywords: • Data base management • File management

Memory required: 22KB.

The ISAM Library provides a full ISAM file capability by providing basic file and record management FORTRAN subroutine calls. The system features file and key creation, record and key addition, pointer and record extraction, multiple key intersection, and extraction through unique keys and key ranges. DECUS number 11-459.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Job Cost Accounting

Operating System: RSX

Keywords: • Cost accounting • Payroll • Project management
• Report writer

The Job Cost Accounting module tracks costs, open purchase orders, accounts receivable, work in process, and client payments. The module is designed primarily for professional services firms, government contractors, and manufacturers who need to track job costs. A detailed report with a line item for each charge, job summary, labor allocation and productivity, daily hours (certified payroll), and customer-designed reports is provided.

Job Cost Accounting features up to 1,000 subdivisions for each job to report costs by department, job phase, and so on; multiple methods for computing overhead and for determining billing rates; a variety of report versions, with multiple selection criteria for determining report contents; table-driven report formats that can, in many cases, be changed with no reprogramming; and a multiple hierarchy for subtotals.

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Job Cost Accounting is available separately or as a part of an integrated package with payroll, accounts receivable, accounts payable, purchase order, and general ledger. Custom tailoring is available. Complete maintenance and support are available under contract. On-site installation and training, a bill of materials processor, and inventory control are optional.

A version of this product is available for the VAX computer.

Price: \$8,000 +

Contact: Janna McMillan
(617) 275-5810
BREUER & CO.
54 Middlesex Turnpike
Bedford, MA 01730

KBM (Keyboard Monitor)

Operating System: RSTS

Keywords: • File management • Security

KBM Version II is a system security and user instruction tool that allows the user to monitor, interact, and optionally log any terminal session. The program can be used as a function of the log-in sequence or at the user's discretion. KBM optionally creates a log of all user activity.

KBM may be used to detect illegal or improper activity by system users and to provide a log of such activity. The monitoring terminal displays all information as it occurs on the user's terminal. The monitor's keyboard is used as if it were the user's keyboard. KBM may also be used to support local or remote users with on-line interactive help sessions.

Price: \$500

Contact: Neal J. Anderson
(414) 784-8250
MCHUGH, FREEMAN AND ASSOCIATES, INC.
1135 Legion Drive, P.O. Box 454
Elm Grove, WI 53122

KDSS (Key-to-Disk Data Entry System)

Operating System: RSTS, RSX

Keywords: • Data entry • Office systems

KDSS is a set of programs that permit a portion of the resources of a PDP-11 or a VAX to be used as a data entry system comparable in capabilities to the most advanced stand-alone multiterminal key-to-disk data entry systems. KDSS can run concurrently with other applications on the system and thus may be of particular interest to present or prospective RSTS/E, RSX-11M, or VMS users who have such key-to-disk data entry requirements in addition to the other applications they wish to run. KDSS data entry and verification take place under

control of formats, written in a high-level declarative language, specifying screen layout, cursor positioning, field edits (an extensive set of intrafield, interfield, and interrecord edit capabilities is available), balancing and totaling, dup and autoincrement fields, and so on. KDSS also has output reformatting facilities, as well as facilities permitting a supervisor to monitor the data entry process through batch status and operator status displays. The performance-critical portions of KDSS are implemented in assembly language as shared code.

A version of this product is available for the VAX computer.

Price: \$9,000

Contact: Martha Schriefer
(617) 861-0670
EVANS GRIFFITHS & HART
55 Waltham Street
Lexington, MA 02173

Keyword Information Manager

Operating System: RSX

Keywords: • Data base management • Data dictionary
• Personnel • Report writer

The Keyword Information Manager performs commonly needed information storage and retrieval functions. The package is oriented toward groups of information that can be accessed in any of several ways.

Keyword can be used in prospect management to maintain detailed information on customers and prospects and to retrieve data on only the prospects of interest at a particular time. Keyword can keep a variety of information on each of a number of current projects, along with historical data for past projects. Keyword can also maintain comprehensive personnel records.

Each Keyword information group can have various data fields — numeric, alphabetic, and others. Those fields may be defined and changed by the user. The user may use up to 1,800 characters to describe each group, along with a file text for each group of unlimited size. In addition, each information group may have several groups of up to 100 user-defined keywords, each of which can be used to access the group. Each information group may have up to several hundred numeric fields that can be used to access the group.

Reports, like the data base, can be tailored to your needs. You get only the information you want, in the format you want.

A version of this product is available for the VAX computer.

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Price: \$4,000 +

Contact: Janna McMillan
(617) 275-5810
BREUER & CO.
54 Middlesex Turnpike
Bedford, MA 01730

KYLIST

Operating System: RT-11

Keywords: • Documentation • Query facilities
• Sales and marketing • Text management

KYLIST is a list-structured text-access program that aids the manager, engineer, or salesperson in the frequent text “look up” and “write up” of the desk-top environment. KYLIST allows the user to create and efficiently access variable-length blocks of text within an RT-11 disk file. By design, the primary output of KYLIST is the display of text at the CRT; however, hard copy of individual text entries may be pulled during CRT review sessions.

The access method is built around a doubly linked, named list structure; text blocks are linked as entries on a named list, and the reviewer need only search the named list to find the desired text block.

Baseline KYLIST functions include adding and deleting entries, sequential review of entries on a list, and a search-by-keyword mode of review.

Specialized search/display interfaces can easily be developed for individual users.

Price: \$250

Contact: Hollis D. Paul, President
(206) 252-9755
COMPUWARE DESIGN, INC.
2911½ Hewitt Avenue
Everett, WA 98201

LEDGR

Operating System: RT-11

Keywords: • Data base management • Inventory
• Query facilities • Warehousing

This collection of four programs, written in FORTRAN and MACRO, is used for creating, maintaining, and using a data base management system that will operate under RT-11 V4 (SJ or FB) on a minimal system consisting of at least a PDP-11/03 with RXO1 (H-11 and H-27), optional printer, and terminal with direct cursor positioning ability (H-19, VT52, VT100, and so on). Although extensive use is made of the reverse video, it is not necessary for operation. Versions are available for use with and without the EIS/FIS chip. Versions will be available

for operation under HT-11 (Heath H-11 system), as well as being customized for other terminals. Any number of LEDGR files may be created and operated on.

The records may contain as many as 20 fields (given unique 8-character names), in which the data may be character (a maximum of 80), integer (a maximum of 8 decimal digits), or fixed-point number (a maximum of 9 characters). The only constraint is that the data record length (sum of data fields + 8) be no greater than 512 bytes. The maximum number of data records in a LEDGR file is 999.

All programs are menu driven, with explanations and information provided internal to each option (11 in Main Menu and 7 in Report Menu of LEDGR). The data entered, as well as the required instructions to LEDGR, are extensively error checked at entry time by prompting with error messages, then giving you overs. After the first data record has been entered, data for the current field may be taken from the same field of the previously entered record.

All statistics describing the structure of the data base and its data fields can be displayed on either the terminal or the printer.

Records can be searched (for viewing or printing) for specified contents of specified fields: if alphanumeric, for containing the provided search string; if numeric, being <, =, or > the provided value. Up to four conditions can be "AND"ed, "IOR"ed, or "XOR"ed. After being located, the record can have the data in any field modified, deleted, or printed. Data fields may be printed or displayed for all or only selected records, based on the supplied criteria.

A utility program allows file characteristics to be altered after creation. The data file may be sorted on as many as six keys, using the specified fields, in ascending or descending order.

Capability is provided for report analysis by performing the arithmetic operations of sum, average, and median for either all numeric fields over all records or for only specified fields over selected records. Additionally, data from all records may be printed or displayed with only specified fields in any specified order. Optional features include form letter and mailing label generation. A demonstration package is also available.

Price: \$150 – \$200

Contact: Donald D. Miller
(816) 747-6824

GEMSTONE COMPUTER SERVICE
303 West Gay
Warrensburg, MO 64093

Linwood (Linear Least-Squares Curve-Fitting Program)

Operating System: IAS, RSX

Keywords: • Data conversion • Graphics • Mapping
• Statistics

Memory required: 32K for 32K user partition.

The program has many options that allow the user to transform data into an appropriate form. The program fits specified equations to the transformed data by linear least-squares and provides both statistics and plots to aid in evaluating the fit. A C_p -statistic search technique determines if smaller sets of the variables will represent the data equally well. The transformations available to the user include reciprocals, sums, differences, products, quotients, logarithms, and exponentials.

In addition to the usual statistics, the program calculates the maximum and minimum value of each variable as well as its range, the relative influence of each variable, and the weighted squared standardized distance of each observation from the centroid of all observations.

The program, as dimensioned, handles up to 35 before transformations, 10 after, and 200 observations. Program change cards are included to allow a computer center to also offer two other programs — one that handles up to 105 variables before transformations, 80 after, and 1,000 observations; and the other that handles up to 65 variables before transformations, 40 after, and 1,000 observations. Multiple dependent variables are fitted one at a time, and multiple forms of specified linear equations can be fitted with one data loading. DECUS number 11-419.

Note: A DECsystem-10 version is available as DECUS number 10-257.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

LOCK

Operating System: RSTS

Keywords: • Production control • Project management
• Security

LOCK, a restricted menu facility, permits the security manager to limit each of a selected set of users to a menu of authorized programs.

A version of this product is available for the VAX computer.

Price: \$850

Contact: Muriel King
(801) 224-5306
CLYDE DIGITAL SYSTEMS, INC.
3707 N. Canyon Road, Suite 3-E
Provo, UT 84604

Lock-11

Operating System: RSTS

Keywords: • Security

Lock-11 provides multiple levels of security for a RSTS system. Access to the system is controlled by a hardened security file.

Privileged passwords are no longer readily available. User id's can be given for dial-in or other multiply accessed ports. Specific ports or user id's can restrict access to certain accounts only and within day/time restrictions. A list of user-defined alarm keyboards receives all violation information. Ports can be disabled when a probe is detected.

Safe-11, a menu environment, is included. Once logged in, a nonprivileged user can be contained within that space, with no possible exit save logout. LCKDPY.TSK, the system manager's observation platform and ultimate macro systat, and DYNPRI.TSK, a priority tuner and independent system verification tool, round out the package.

Price: \$1,250

Contact: R. D. Mallery, President
(215) 364-2800
NATIONWIDE DATA DIALOG
70 James Way
Southampton, PA 18966

Log and Lumber Inventory Systems

Operating System: RT-11, TSX-PLUS

Keywords: • Inventory • Natural resources • Statistics
• Warehousing

This system keeps track of multiple yards, bundles, rafts or docks, and ships of logs by individual bar code or non-bar code log tags. The system has all information about logs stored by tag number. Information includes species grade, measurements, total footage (gross and net, automatically calculated), split-log information, bureau certificate number, and many other fields. Outputs are available with subtotals by species, grade, bundle, and/or dock/raft. Lumber Systems keeps track of inventory and allows the user to make up orders from open stock or from ticketed stacks. Restacking is allowed and done automatically. The system can be easily bar coded, allowing quick and easy physical inventory to be taken and a variance report received from the system. The system was designed under stringent Northwest requirements and conditions.

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Price: Available upon request

Contact: John Logan

(503) 297-1627

DENNISON EASTMAN CORP.

6400 S.W. Canyon Court

Portland, OR 97221

Long-Distance Resellers Telephone Billing System

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts receivable • Billing • Report writer
• Telecommunications

This complete billing system offers everything from customer analysis to printing of statements. An entirely menu-driven system, it offers an easy-to-learn operating system with no memorizing of program names in order to receive a report or enter a new customer. All that is required is typing ability and being able to follow a logical sequence of events in order to make the system a valuable part of any long-distance resellers telephone system.

Some of the features incorporated in the system are:

- Total customer control by using credit limits, tax exemption, finance charge exemption, billing type, customer type, and so on
- Individualized access codes for each customer
- Record keeping for each area-code exchange and/or region, including number of calls, total time used, and total cost of time used (both monthly and yearly)
- Automatic generation of bank drafts for customers who wish it, as well as taxes, finance charges, and any special charges your company desires
- Statement printing on preprinted letterhead or statement-generated company headers
- Entry of calls from switching-generated diskettes (not available for all types of switching machines; will interface to SMDR)
- Numerous reports, such as region totals, rates breakdown report, customer detail, and so on

Price: \$8,000 – \$15,000

Contact: Chuck Trapp, Sales Representative

(701) 235-7799

PROFESSIONAL DATA PROCESSING, INC.

503 Broadway

Fargo, ND 58102

LPS (Loan Processing System)

Operating System: UNIX, XENIX

Keywords: • Accounting • Banking • Credit • Report writer

This complete, stand-alone system for loan processing is designed for use by mortgage bankers and savings and loan associations. The system includes mortgage loan application entry, processing, and tracking. Interface with credit bureau offices is supported, and certain loan-servicing interfaces are available. Loan closing reports, document preparation, and historical reporting of loan applications are part of the system. LPS was developed for use with the Informix™ data base management system. Many types of loans are supported. The report writer includes many advanced features, with user modification of the system very easy and straightforward.

The system is very fast. A loan application with all supporting documentation can be taken and printed in less than 30 minutes. A loan closing can be prepared and printed in less than 10 minutes. All pipeline and closed loan information is available for reporting at any time.

Informix™ is a trademark of Relational Database Systems, Inc.

A version of this product is available for the VAX computer.

Price: \$5,000 – \$24,000

Contact: Dan A. Lundy
(405) 324-6324

WALLUN DATA PROCESSING
211F South 4th Street
Yukon, OK 73099

Mail List/RSX

Operating System: RSX

Keywords: • Distribution • Mailing lists • Menu handlers
• Office systems

Mail List/RSX, running under the RSX-11M or RSX-11M PLUS operating system, is a total, multiuser, menu-driven mailing list package for companies and organizations searching for a comprehensive automated system for maintaining mailing list records and printing mailing labels. Mail List/RSX offers maximum efficiency and ease of use. Multiple users can simultaneously access the mailing list data to add, delete, inquire, or change names.

In addition, Mail List/RSX includes provisions to flag local companies for special mailings or to include competitors on the list without printing mailing labels for them. Users can be trained to use Mail List/RSX very quickly, avoiding costly training programs.

Mail List/RSX is distributed on RX02 floppy disks, with license and documentation included. Other media are available at an additional cost.

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Price: \$495

Contact: Sandra K. Graham, Operations Manager
(617) 894-3278

ADVANCED COMPUTER SYSTEMS, INC.
250 Prospect Street
Waltham, MA 02154

Manufacturing Systems

Operating System: RT-11, TSX-PLUS

Keywords: • Flow analysis • Manufacturing
• Natural resources • Report writer

Bar-coded tags or labels allow this system to be virtually error-free in input. This system will do tracking and report manufacturing information on a management or user level. Minor modifications to fit your exact manufacturing tracking needs are easily done.

Price: Available upon request

Contact: John Logan
(503) 297-1627

DENNISON EASTMAN CORP.
6400 S.W. Canyon Court
Portland, OR 97221

MAPS/DB

Operating System: RSTS

Keywords: • Data base management • Decision support
• Management • Report writer

MAPS/DB provides fully integrated data management and retrieval capabilities, based on a relational data design that allows users to manipulate, store, and link data as desired. The features allow a user to create a data base with interactive update and maintenance procedures. Other features allow interactive inquiry and ad hoc report generation to provide access to your data. All the features use English language commands that allow non-data processing managers to create systems on their own.

A version of this product is available for the VAX computer.

Price: \$12,000 - \$30,000

Contact: Kevin Walsh
(415) 856-1100

ROSS SYSTEMS, INC.
1860 Embarcadero Road
Palo Alto, CA 94303

MDBS III — DDL/DMS: Full RTL Form**Operating System:** UNIX**Keywords:** • Data base management • Data dictionary
• Language enhancers • Microprocessor development

This extended-network DBMS for minis and micros allows simultaneous multiple user access. The data description language (DDL) allows the developer to specify the structure and contents of the data base. As well as supporting hierarchical, relational, and CODASYL network structures, the system employs a more sophisticated extended-network design, eliminating data redundancy and allowing simple description of even the most complex data relationships.

The data management system (DMS) carries out data manipulation language (DML) commands stated by an application developer. The MDBS DML is more powerful and easier to use than traditional DMLs. It allows data to be entered, retrieved, or modified from within any of numerous host languages. Integrated into the DDL/DMS are extensive automatic recovery and transaction logging (RTL) mechanisms. Unique among microcomputer software, these RTL mechanisms prevent data loss from media failures, power failures, and other abnormal system interruptions. Page image posting and transaction logging support rollback and selective recovery.

A version of this product is available for the VAX computer.

Price: \$8,400 +

Contact: Micro Data Base Systems, Inc.
(312) 981-9200 or (800) 323-3629
MICRO DATA BASE SYSTEMS, INC.
Application Development Products
85 W. Algonquin Road, Suite 400
Arlington Heights, IL 60005

Memo**Operating System:** RSTS**Keywords:** • Data collection • Data entry

Memory required: 9KW.

Memo acts as a computerized note box, giving users a quick, convenient way of storing notes about good ideas and/or things to do. Features include listing memos by subject material, appending to previously entered memos, and output to a file. DECUS number 11-607.

Price: \$5 - \$225**Contact:** DECUS (see Introduction)

MEMSYS (Membership Management System)

Operating System: RSTS

Keywords: • Accounts receivable • Billing • Personnel
• Report writer

MEMSYS helps associations keep track of their members, legislators, executives, and convention attendees. It keeps an easily retrievable record and history of transactions with each member. This system also functions as an accounts receivable and billing system, handles mass mailings, keeps track of voting records, and generates reports and newsletters. MEMSYS was designed to provide association executives and staff with accurate and timely information.

A version of this product is available for the VAX computer.

Price: \$5,000 – \$10,000

Contact: Cheryl Hammelman
(606) 233-9958

DWC COMPUTER SOLUTIONS, INC.
1642 N. Broadway
Lexington, KY 40504

MINC BASIC/FORTRAN Support for HIPAD Digitizers

Operating System: RT-11

Keywords: • Data collection • Device drivers/handlers
• Mapping

Memory required: 30KW.

This software package consists of BASIC and FORTRAN support for the Houston Instrument HIPAD digitizers. The BASIC routines provide a means for acquiring data through an RS 232 interface, storing the data on disk, and plotting the data on a VT105 and a HILOT plotter. The FORTRAN support provides similar capabilities, interfaced through the RS 232 port. The main point of the routines is to demonstrate techniques for data acquisition through MINC/BASIC and FORTRAN. DECUS number 11-416.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

MinCAR (Minolta Computer-Assisted Retrieval)

Operating System: RSTS, RSX

Keywords: • Data entry • Documentation • File management
• Query facilities

MinCAR is a fully conversational screen-formatted data entry and computer-assisted retrieval system for the indexing and automatic retrieval of microfilm. The system includes a powerful search logic and a data entry subsystem that optionally allows documents to be indexed into the computer from microfilm reader/printers or optionally from

the document with the camera interface. Retrieval, accomplished through a simple fill-in-the-blanks screen, can be entirely automated, depending on the microfilm equipment used.

Retention schedules and management reports, including SEARCH statistics, are integral parts of the system. The software, designed to reduce keystrokes while providing powerful editing to ensure accuracy, can interface directly with DIGITAL's ALL-IN-1 Office Automation Package. No keying CAR is possible with this interface module. Existing files can be output to microfilm and retrieved automatically under software control.

The system connects to most Minolta reader/printers through our MARS Controller, including our RP 505 plain paper reader/printer, and to our Micro Auto 16 Planetary Camera.

A version of this product is available for the VAX computer.

Price: \$10,000 – \$25,000

Contact: Karen Voigt
(201) 934-9400
MINOLTA CORP.
200 Williams Drive
Ramsey, NJ 07446

Mistress “Plus”

Operating System: UNIX

Keywords: • Data base management • Programming tools
• Query facilities • Report writer

Mistress “Plus” offers all the power of the Mistress Relational Database Management System, along with the flexibility and convenience of M-Writer, the report generator with complete output flexibility, and M-Vision, the full-screen interface that allows data manipulation via single-key operation. With Mistress “Plus,” the end user and the DP professional are both guaranteed increased productivity through the use of a matched system.

A version of this product is available for the VAX computer.

Price: \$3,375 – \$13,500

Contact: Doran R. Foeller, Sales Representative
(416) 922-1743
RHODNIUS INC.
10 St. Mary Street, Suite 320
Toronto, Ontario M4Y 1P9
Canada

Mistress Relational Database Management System

Operating System: UNIX

Keywords: • Data base management • Graphics
• Query facilities • Text management

Mistress, the fully relational data base management system for UNIX*, features the Structured Query Language for the end user as well as standard programming interfaces to the C language for the DP professional. Advanced concepts include variable-length character fields, dynamic storage allocation, and B+ tree indexing. Mistress has been designed exclusively for the UNIX* environment and is written in C language.

Using SQL commands, the user can create or drop tables and indices, display data bases or tables, and select, delete, update, insert, and sort data in tables. Mistress classifies information, using a variety of data types, including date, character, dollar, integer, float, and text (variable-length character). Mistress provides easy-to-use commands, on-line help, meaningful error messages, and a built-in editor. The system asks for data interactively, prompting for each field value and checking for input errors.

Mistress has three interfaces to the C programming language, an interface to the UNIX* shell, and optional interfaces to other high-level languages. Multiple concurrent users are supported with complete data integrity. Mistress dynamically maintains B+ tree indices to ensure faster record retrieval. Efficient bulk loading and unloading of data from standard files provide compatibility with large main-frame installations.

Mistress's innovations provide the superior software solution for data base, information systems, office automation, local networking, color graphics, and CAD/CAM applications.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$850 – \$20,000

Contact: Doran R. Foeller, Sales Representative
(416) 922-1743

RHODNIUS INC.
10 St. Mary Street
Toronto, Ontario M4Y 1P9
Canada

Mistress/32

Operating System: UNIX

Keywords: • Data base management • File management
• Programming tools • Report writer

Mistress/32, the advanced relational data base management system for extended addressing UNIX* products, features enhanced capabilities for security, recovery, and data integrity, as well as a fully integrated report writer and screen interface.

The Mistress/32 product has a dynamic application generation tool, M-Builder. M-Builder is a full-screen, interactive editor designed to create screens for M-Vision. That editor allows users to create and to easily make major modifications to M-Vision screens by drawing on the terminal display, thereby eliminating the need to experiment with row and column numbers. Attractive displays can be made using line graphics and terminal video features such as reverse video, highlighting, and underlining. M-Builder screens created on one terminal can be reproduced on other terminal types, since M-Builder uses the "termcap" data base of terminal capabilities.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Doran R. Foeller, Sales Representative
(416) 922-1743

RHODNIUS INC.
10 St. Mary Street
Toronto, Ontario M4Y 1P9
Canada

MMS (Micrographics Management System)

Operating System: RSTS

Keywords: • Documentation • File management
• Forms management • Query facilities

MMS is a fully office-oriented, user-friendly, screen-formatted data entry and computer-assisted retrieval (CAR) system for indexing and automatic retrieval of microfilm. The system includes a complete data entry subsystem that optionally allows documents to be indexed into the computer directly from microfilm reader/printers or from cameras. Retrieval can be entirely automated, depending on the microfilm equipment used. Retrieval is accomplished through a sophisticated but easy-to-use query-by-example fill-in-the-blanks design that provides the ability to refine, sort, and transmit hit lists.

Retention schedules and management reports, including "Search" statistics, are an integral part of the system. The software is designed specifically to reduce keystrokes significantly, while providing powerful editing of all data to ensure accuracy. The software can interface directly with DIGITAL's ALL-IN-1 office automation package. No-keying CAR is possible with this interface module. Existing data files can be output to microfilm (COM) and retrieved, all automatically under software control.

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The software includes the interface software for almost all the leading microfilm reader/printer manufacturers (Minolta, Kodak, and so on). In addition to roll film, fiche, aperture cards, and hard copy can be retrieved automatically or semiautomatically, depending on the manufacturer selected.

A version of this product is available for the VAX computer.

Price: \$10,000 – \$25,000

Contact: John H. Wright
(305) 652-1710

FLORIDA COMPUTER, INC.
99 N.W. 183rd Street, Suite 126
N. Miami, FL 33169

NANOBIT Disk Sort

Operating System: CTS-300, RT-11

Keywords: • File management

This program, designed especially for systems with limited floppy or hard disk space, sorts fixed-length records without using work files. Users have the option of sorting records into separate output files so that the sort program reads only the unsorted input file. That allows the user to keep a copy of the input file in unsorted order for backup. When new records are added to a previously sorted file, the program sorts the new records and merges back to the previously sorted part.

There is no practical limit on the complexity of the sort key. In the case of duplicate sort keys, prior ordering is preserved.

A binary merge/sort algorithm does most of the work. An elevator algorithm does the last brief step.

Price: \$250

Contact: Richard Sherin
(305) 591-3716

NANOBIT CO.
7790 N.W. 55th Street
Miami, FL 33166

ORACLE® Relational Data Base Management System

Operating System: IAS, RSTS, RSX, UNIX

Keywords: • Data base management • Data dictionary
• Data entry • Report writer

ORACLE, available for mainframes, minis, and microcomputers, is currently installed at more than 350 sites worldwide. The system is implemented for a wide variety of DBMS applications, including medical research, government, education, financial management and accounting, project management and control in manufacturing, and engineering research and development.

ORACLE is designed for networking and distributed data base capability and is highly portable (source language is C) across computer systems. Features include the SQL PLUS nonprocedural data language, a fully integrated data dictionary, an interactive screen facility, a report writer, and other application development tools for all levels of users, as well as transaction journal and data base maintenance utilities.

A version of this product is available for the VAX computer.

Price: \$600 – \$96,000

Contact: Robin Tygh
(415) 854-7350
ORACLE CORP.
2710 Sand Hill Road
Menlo Park, CA 94025

P-STAT®

Operating System: UNIX

Keywords: • Data base management • Decision support
• File management • Statistics

P-STAT is a versatile, integrated software package used for data management, data display, cross-tabulation, and statistical analysis. P-STAT offers the user a fully interactive and user-friendly command language that is both powerful and easy to learn. An internal P-STAT editor enables the user to correct errors immediately and continue command execution. P-STAT may also be used in batch mode.

Double-precision numeric values are assumed unless single precision is specified. P-STAT supports alphanumeric data. Each character variable in a file may be up to 999 characters in length.

P-STAT has extensive capabilities, enabling the user to create new variables, recode existing variables, select cases, and aggregate across subgroups within a file. There is a comprehensive set of arithmetic functions, such as square root, log, and so forth. Character functions include CONTAINS, SUBSTRING, and LENGTH.

Many P-STAT files may be active during a P-STAT session. The commands include JOIN, CONCAT, COLLATE, RANK, SORT, UPDATE, SEPARATE, INTERLEAVE, and TRANSPOSE.

P-STAT offers a variety of statistical operations, including analysis of variance, correlation, discriminant and factor analysis, exploratory data analysis, matrix operations, regression analysis, and a number of descriptive statistics such as chi-square, measurements of skewness, and so forth.

The data display includes plots, histograms, cross-tabulation, and report writing. The new EDA command has box plots, stem and leaf plots, rootograms, and so on. Displays may be modified interactively without having to access the original data files.

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A macro facility that permits a series of commands to be executed within a single statement is supported. Macros can be nested, and character string substitution is permitted. Macros may call macros.

P-STAT is used internationally by government, commercial, and educational installations. Typical applications include market research, personnel administration, system performance analysis, quality assurance, and clinical trials.

A version of this product is available for the VAX computer.

Price: \$1,500 – \$8,000

Contact: Sebbie Buhler
(609) 924-9100

P-STAT, INC.
P.O. Box AH
Princeton, NJ 08542

personal informix™

Operating System: ULTRIX, UNIX

Keywords: • Data base management • Data entry
• File management • Forms management

This data base product is both friendly and designed to grow with you and your business. The system provides quick and meaningful access to phone lists, mailing lists, calendars, financial records — just about any information you need to manage.

When you begin using the system, orderly menus and friendly prompts lead you through all procedures. With more experience, however, you can bypass the menus, performing your work rapidly and with few keystrokes.

Commands to perform any function are always in full view, and help is only a keystroke away. You can quickly review reference information or step-by-step instructions whenever you need assistance; just press the help key on your terminal to display a help menu.

The system will design a screen for you, automatically. You can use the screen for data entry and inquiry immediately or tailor it to meet your requirements. Sometimes it's important that you see your information in a specific way. You can design screens that look like your existing, paper forms. Or you can be creative, developing new forms.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Robert J. Macdonald
(415) 424-1300

RELATIONAL DATABASE SYSTEMS, INC.
2471 East Bayshore Road, Suite 600
Palo Alto, CA 94303

PORTACALC: A 3-D Spreadsheet/Data Base Program

Operating System: IAS, RSTS, RSX

Keywords: • Calculation aids • Data base management
• Documentation • Spreadsheets

PORTACALC is a powerful 3-dimensional spreadsheet/data base and analysis system. PORTACALC runs on PDP-11 systems that support the F4P compiler or on VAX systems needing the VAX FORTRAN compiler to compile. The program is designed for portability to other FORTRAN systems. The PORTACALC manual is designed to be turned into a system HELP file so that the manual can be read on line. Tutorials are supplied as well.

A data management system interface is built in, permitting spreadsheets to access a potentially unlimited number of files and records or parts of records in those files for user-defined functions, numbers, formulas, and text.

Merging of multiple sheets, matrix algebra, general function solving, and easy document load/unload make this spreadsheet more powerful and easier to customize than all but the most elaborate mainframe packages. DECUS number 11-SP-47.

Note: Improvements are a smaller, faster, screen display; a new, improved version for the PDP-11, with full VAX version ability; new functionality in programming; and a fully dimensional spreadsheet for matrix math. The VAX version now permits DCL commands to be spawned, the data base-access facility from each cell has been debugged and improved, and numerous additions and bug fixes make those versions more capable.

A version of this product is available for the VAX computer.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

PORTACALC XL: Floppy Version

Operating System: IAS, RSX

Keywords: • Calculation aids • Mapping • Spreadsheets

Memory required: 70KW.

PORTACALC, a variant of the standard PORTACALC package for memory-mapping PDP-11s, differs from the standard VAX or PDP-11 version. PORTACALC keeps data in a virtual array, so that the package can handle larger spreadsheets on a PDP-11 with no special functions beyond memory-mapping support. PORTACALC supports a 60-by-64 sheet, but the size can be modified by changing the SVKLU GPRM.FTN file's PARAMETER statements, which define physical sheet sizes.

Only VT100 support is provided, although other terminals can be added using the standard version's routines. A modified copy of UVT52.FTN is provided, which may be used in place of UVT100.FTN and gives VT52 support. DECUS number 11-SP-56.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Production Control Systems

Operating System: RT-11, TSX-PLUS

Keywords: • Data entry • Natural resources
• Production control

Through data entry or automatic entry via bar-code tags or labels, the system can keep track of production while eliminating errors during input. This system is built around your specifications or is fitted to one of our existing production control packages. Existing production control packages keep track of location of items and their status at each location. Management reports are available on demand.

Price: Available upon request

Contact: John Logan

(503) 297-1627

DENNISON EASTMAN CORP.

6400 S.W. Canyon Court

Portland, OR 97221

QUILL, Version 2.0

Operating System: CTS-300

Keywords: • Data base management • Data dictionary
• Report writer • Text management

QUILL creates impromptu reports and terminal queries from existing data files. Through the use of English-like commands, a novice user can design the desired output without the need for programming.

QUILL has an additional output command that creates a list document (file) for the word processing application DECType-300. By issuing commands similar to making a query, QUILL creates the list document on disk, which can be accessed by DECType's list processing facility or editor.

QUILL uses dictionaries to describe data files. Logical field names assigned to each field are used with QUILL's various commands to extract the desired data. QUILL's dictionaries support CTS-300 fixed-length, sequential, and ISAM file structures.

Price: Available upon request

Contact: Consult your local DIGITAL sales office

(see Introduction).

RABBIT-4 Security System

Operating System: RSTS

Keywords: • File management • Security

RABBIT-4 provides your computer with maximum security. RABBIT-4 system intrusion prevention restricts user activity on your system at specific times and from particular terminals. Then, by using RABBIT-4 file intrusion prevention, you keep unauthorized personnel out of your classified or confidential data files and programs. Even your privileged users may be kept from seeing those files.

You can use this run-time system and keyboard monitor as the system default or as an auxiliary. Then secure all your system commands with RABBIT-4 SIP's local CCL feature. You can specify wildcard PPNs particular days of the week and time periods for each physical or logical keyboard — to stop unwanted users at port password time.

With logical keyboards, RABBIT-4 SIP gives you flexibility in a multiplexed or dial-up environment. One logical keyboard can be used by several operators simultaneously! For application-oriented users, there is a built-in menu system. Furthermore, you can choose to log every command typed onto the system with the day file logging system.

Your data processing department management can set a corporate policy for data security on every level with RABBIT-4 FIP. It secures your corporation's confidential and classified information. Thus, you rid your system of any theft or deliberate destruction of data — as well as system abuse.

Along with your normal system security steps, you can use RABBIT-4 FIP to alert you of any break-in attempts. If someone tries to break in, RABBIT-4 FIP "locks up" your secret files. That person's attempts are then automatically recorded by the system for your analysis. RABBIT-4 FIP's "security officer" lets your systems manager know of any attempted violations as they occur, in real time.

Ultimately, your applications analyst can design and build systems that let only authorized personnel use secured data. In order to view the data, users will have to use authorized programs. Those programs and user classifications give your applications analyst several ways to control access to secured data.

You get a complete RABBIT-4 log showing you all access and violation attempts. It includes date, time, job, program, project-programmer, and keyboard. That log is available to your security management at all times.

Price: \$1,995 – \$2,995

Contact: Joseph Musler
(301) 258-2620
RAXCO, INC.
1370 Piccard Drive
Rockville, MD 20850

/rdb™ (Relational Data Base Management System)

Operating System: ULTRIX, UNIX

Keywords: • Data base management • Data dictionary
• File management • Programming tools

This relational data base management system is easy to use and is inexpensive, portable, and powerful. It is a truly UNIX*-style system. You can create a table as a flat UNIX* ASCII file with a text editor. The table only needs tabs between columns and column names on the first line. Then all the 50+ shell-level and pipeable programs can manipulate the files without the overhead of schema, data dictionaries, or fixed-length records.

The /rdb system is fully relational. You can project columns, select rows, join tables, compute, sort, union, and so on, and do reports, mailing labels, form letters, cashflow, validate, and so forth.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$500

Contact: Rod Manis
(512) 346-9318
MULTINATIONAL SOFTWARE, INC.
P.O. Box 5344
Austin, TX 78763

REFLEX

Operating System: RSX

Keywords: • Data base management • Data dictionary
• Forms management

REFLEX is a relational processing system for data retrieval, manipulation, and display. One or several views of data may be presented on the screen. The system is based on natural, languagelike programming, handles simple and complex queries, is menu driven, and can be used on any terminal.

A version of this product is available for the VAX computer.

Price: \$6,500 – \$9,000

Contact: J. Milton, President
022 61 78 21 or 022 61 78 22
SOSY S. A.
5, rue Cesar-Soulie
1260 Nyon
Geneva
Switzerland

RGF (Report Generating Facility)

Operating System: RSTS

Keywords: • Decision support • Report writer

This general-purpose software package is designed to provide customized management information. RGF is table driven to achieve a broad range of inquiry and report capability specific to a given installation without program modification. The basic features are:

- Generation of reports from selected data contained in sets of list files of any given record format
- Inquiry against data contained in list files of varying record format

A version of this product is available for the VAX computer.

Price: \$2,400

Contact: Muriel King
(801) 224-5306

CLYDE DIGITAL SYSTEMS, INC.
3707 N. Canyon Road, Suite 3-E
Provo, UT 84604

RMF (Resource Management Facility)

Operating System: RSTS

Keywords: • Billing • Cost accounting
• Data base management • Statistics

RMF is a software package used by data processing management to bill time-sharing customers for system resources. Raw usage statistics are automatically converted into dollar units. Additional charges may be entered manually. RMF also monitors the system and performs an automatic file backup (optional).

RMF was designed for use by both commercial service bureaus and in-house, time-sharing installations that provide services to "customers" within the organization. In addition to providing overhead information and allocating operating costs to internal time-sharing users, RMS is used to ensure that computer resources are equitably distributed among competing departments.

A version of this product is available for the VAX computer.

Price: \$5,800

Contact: Muriel King
(801) 224-5306

CLYDE DIGITAL SYSTEMS, INC.
3707 N. Canyon Road, Suite 3-E
Provo, UT 84604

RMS-11 FORTRAN-Callable Subroutines

Operating System: RSX

Keywords: • File management • Real time

Memory required: Variable, depending on modules used.

The RMS-11 FORTRAN-callable subroutines permit RSX-11M applications tasks to use the RMS-11 file and record-processing routines to create and access RMS-11 sequential and relative files as well as RMS-11K indexed files. The subroutines operate as the interface between the user task and the RMS-11 MACRO calls, providing access to them from a FORTRAN program. Other subroutines allow the user to access and modify the fields of file access blocks, record access blocks, name blocks, and extended attribute blocks. The FORTRAN IV-PLUS user has the benefit of an include file defining RMS values for control block fields and error messages. The control blocks are built with the help of an RSX-11M indirect command file that, with long or short dialog, guides the user through the allocation of RMS-11 facilities.

A special OPEN by FILE-ID routine is provided for fast access to files in the real-time environment. Special subroutines are provided to aid in the processing of locked files or buckets. DECUS number 11-384.

Note: The subroutines, designed to be used with FORTRAN IV-PLUS, can be used with FORTRAN IV, subject to exclusion of FORTRAN IV-PLUS features. RMS-11K is optional.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

RMSREO (RMS Indexed File Reorganization Utility)

Operating System: RSTS

Keywords: • Disk utilities • File management

RMSREO solves the problem of user-unfriendly RMS file reorganizations. RMSREO evaluates the header portion of an RMS indexed file on RSTS/E systems, determines if reorganization is needed, and executes standard RMS utilities to reorganize the file without any need for the user to know or understand the RMS utilities. The only user prompts are filename and fill factor, which defaults to the previous fill factor. RMSREO thus makes it easy to keep RMS indexed files efficient without technical knowledge.

Price: \$500

Contact: Gary Vowels
(206) 285-3260

MANUS SERVICES CORP.
1700 Westlake Avenue North
Seattle, WA 98109

RT-11 File Conversion Program for Absolute Loader Paper Tapes with SA ≤ 1000

Operating System: RT-11

Keywords: • Data conversion

Memory required: 16K.

This program loads absolute binary formatted paper tapes of programs occupying and having starting addresses in low core (≤ 1000) and converts them to .SAV modules, which may be loaded and started from the RT-11 monitor. DECUS number 11-310.

Restrictions: This program is for loading tapes that do not require use of switch register in loading. The program is good for formatting or diagnostic tapes.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

RTFILE™

Operating System: RSTS, RSX, RT-11

Keywords: • Data base management • Data dictionary
• Programming tools • Query facilities

RTFILE is a menu-driven, forms-oriented data base management system that allows users to perform a variety of data processing tasks, including list processing, with a minimum of training. RTFILE also offers a high degree of flexibility throughout most of its functions, which enables users to add, delete, and/or modify fields, indexes, records, reports, sorts, queries, and calculations.

A version of this product is available for the VAX computer.

Price: \$1,500 - \$9,500

Contact: Judith C. Mangels
(301) 654-9120

CONTEL INFORMATION SYSTEMS
4330 East West Highway, Suite 200
Bethesda, MD 20814

R/W (Report Writer)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Report writer

This powerful and flexible executive tool offers state-of-the-art capabilities in terms of report selection and mathematical functions within a report. Even a user with little or no previous computer experience can quickly and easily construct, format, and print a wide variety of useful and visually pleasing reports. The program accesses up to six data files for any report; allows arithmetic on fields, including complex calculations; provides multikey cross-referencing, using up to three fields; generates no source code, since it is table driven and parameter driven;

permits fast turnaround time from concept to report; supports all MCBA files and non-MCBA files; opens data files in input mode so that data integrity is not threatened; provides comprehensive screen prompting for nontechnical users; handles many terminal types and allows the user to specify compiler, operating system, and sort, including RTSORT; supports true multiple keyed access to any physical file; easily defines report order by up to three fields (sorts are transparent to the user thereafter); allows cross-referencing of up to five secondary files by up to three fields each; accommodates multirecord types within the same physical file; allows multilevel control breaks up to three levels deep; allows the user to access data files residing on any device; sorts mm/dd/yy dates in their true date sequence; provides automatic wraparound if print lines exceed specified page width; provides powerful exception selection when running a report; allows the user to resequence data description files and report control files; and displays any report and supports up to three printers.

Price: \$1,500 – \$2,000

Contact: Sales Representative

(818) 957-2900

MCBA, INC.

2441 Honolulu Avenue

Montrose, CA 91020

Select

Operating System: RSTS

Keywords: • File management • Programming tools

Select is a general RSTS/E record-extraction package that is useful, for example, as the front end of a report-generating application. Select quickly extracts from an input file records meeting user-specified selection criteria. The extracted records are written to an output file after optional modification by key field deletion, rearrangement, and transformation via user-written MACRO-11 functions. Fields within an input record are named and described in a succinct notation that tells where they are; where to put them, if necessary, in a corresponding output record; and how to use them to sort the output file Select creates. Fields may be ASCII strings, integers, or floating-point numbers. For producing “tag” files, a field may be placed in each output record to point to the input record that generated it. Records are selected by Boolean combinations of comparisons of fields against constants. Input files contain fixed-size records. Output records are fixed-size, no more than 512 bytes long. The time-critical components of Select are written in MACRO-11.

Price: \$1,500

Contact: Martha Schriefer
(617) 861-0670

EVANS GRIFFITHS & HART
55 Waltham Street
Lexington, MA 02173

Shop Floor Control Systems

Operating System: RT-11, TSX-PLUS

Keywords: • Natural resources • Report writer
• Shop floor control • Statistics

Error-free tracking of items makes this package perform well for your system. Use of bar-coded tags or labels on each item eliminates errors and speeds up throughput. The system keeps track of when item came to station, when item left station, and statistical information (comments, dimensions, and so on). Management reports are available on a daily, weekly, monthly, yearly, or on-demand basis.

Price: Available upon request

Contact: John Logan
(503) 297-1627

DENNISON EASTMAN CORP.
6400 S.W. Canyon Court
Portland, OR 97221

SIMILE™ Data Base Management System

Operating System: CTS-300, RT-11

Keywords: • Data base management • Data entry
• Programming tools • Security

Developed by ZA-TRO Corporation, this software tool enables non-programmers to develop complete self-contained application systems based on information retrieval. SIMILE's English-like commands allow a nontechnical user to rapidly build extensive data management applications. Conventional business systems, status and tracking systems, and medical information systems are some typical applications.

Data bases are built by means of an interactive dialog. Data can be entered or displayed by user-defined screen formats. A full-featured report generator produces reports to either a printer or a CRT. Procedure file and menu capabilities allow entire applications to be predefined and used by persons unfamiliar with SIMILE.

SIMILE provides the user with data base definitions that are interactively created and modified; data security that uses a password system to restrict access to data bases and screens; flexible data operations for entry, modification, and display; selection criteria for specifying complex selection conditions and rapidly accessing only those records that qualify; arithmetic definition to define arithmetic relationships between other data base items; data base hierarchy, with items defined

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as “pointers” to another data base, thus providing a 2-level hierarchy; error handling and conditional branching that allow the systems builder to control and direct the course of operations; and interactions outside of SIMILE that create external data files that can be accessed by other user programs. SIMILE can also use data files created by user programs.

DIGITAL distributes this software product under license from ZA-TRO Corporation, 421 Seventh Ave., Suite 607, New York, NY 10001.

Refer to SPD #A0.09.02 when requesting further information on this product from your local DIGITAL sales office.

SIMILE™ is a trademark of ZA-TRO Corporation.

Price: Available upon request

Contact: Consult your local DIGITAL sales office
(see Introduction).

SLIB (Software Librarian Facility)

Operating System: RSTS

Keywords: • Data dictionary • Documentation
• Project management

SLIB is a software package that assists organizations that produce and maintain a medium to large number of programs and related documents. SLIB is used to organize, document, maintain, and control the software library.

SLIB provides the basic structure for organizing a group of BASIC-PLUS programs into a library. Four levels of categorization are used. The highest-level category is called a system. The next level is called a facility; the third, a function; and the fourth, a part or program.

SLIB provides the following management information: contents of the software library, current status of all library programs (assigned/completed/withdrawn), development and maintenance history of programs, level of library activity over time periods (by programmer or project), and library consistency reports.

A version of this product is available for the VAX computer.

Price: \$4,300

Contact: Muriel King
(801) 224-5306

CLYDE DIGITAL SYSTEMS, INC.
3707 N. Canyon Road, Suite 3-E
Provo, UT 84604

SOLUTIONS DECK Design

Operating System: RSTS

Keywords: • Data base management • Pre- and postprocessors
• Query facilities

SOLUTIONS DECK Design provides the system designer with a simple and quick methodology to lay out files and to define menus, screens, master and transaction processing, and report-inquiry programs. The interactive process runs from the user's terminal and is driven by the user's replies to simple English prompts. No in-depth knowledge of programming or data storage mechanics is required.

SOLUTIONS DECK Design is menu driven and makes extensive use of self-explanatory prompts to guide the user with maximum use of defaults and display of available answers when appropriate. The system contains modules designed to handle each separate requirement normally found in on-line, menu-driven commercial data processing applications.

SOLUTIONS DECK Design includes modules for both designing and documenting. SOLUTIONS DECK Design produces full documentation of all files, screens, and report layouts. In addition, program narrative and program outlines detailed to the code section level are produced. The program outlines include necessary code for standard routines and section headers indicating location and detail of additional code required as indicated by the design effort.

All products are created as ASCII disk files and are available for printing, editing, and so on.

Price: \$795

Contact: W. R. Hallam
(506) 455-1008

SOLUTIONS DECK
P.O. Box 684, Station A
Fredericton, NB E3B 5B4
Canada

SOLUTIONS DECK Dictionary

Operating System: RSTS

Keywords: • Data base management • Data dictionary
• Query facilities

SOLUTIONS DECK Dictionary is designed to interactively produce complete file descriptions and open statements in a matter of minutes. The dictionary is driven by the user's replies to an on-line interactive dialog. The user is guided in describing any file with maximum use of defaults. The open statement and file description are created from user replies or defaults.

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The dictionary quickly and accurately describes any RMS-11 file type and ensures consistent file descriptions and the existence of only one named version. Through use of channel assignments, all files have unique line numbers to prevent later line number problems when several dictionaries are used in one program.

SOLUTIONS Dictionary belongs to the family of SOLUTIONS DECK preprocessors, designed to support all program types found in an on-line commercial environment, and should provide a 100% productivity improvement, even in casual use.

Price: \$250

Contact: W. R. Hallam
(506) 455-1008
SOLUTIONS DECK
P.O. Box 684, Station A
Fredericton, NB E3B 5B4
Canada

SOLUTIONS DECK DMS

Operating System: RSTS

Keywords: • Data base management • Pre- and postprocessors

The SOLUTIONS DECK family of preprocessors greatly speed the creation of programs normally found in an interactive commercial data processing system. These low-cost tools should provide at least a 100% productivity improvement, even in casual use, over traditional methods. The preprocessors' objective is to quickly and accurately produce more than 90% to 95% of the code required for each type of program — free of errors and bugs.

All SOLUTIONS DECK preprocessors are driven by the user's replies to an interactive dialog conducted from a terminal. From the user's replies to simple questions, a program is tailored for the specific situations, including "painting" screen and report layouts.

The family includes the following program-type preprocessors:

- Dictionary — Produces a complete dictionary file from user replies to simple questions, provides recommended system defaults, and uses channel assignment to ensure unique line numbers.
- Master — Meets most master file program requirements, including logic to support additions, changes, deletions, and inquiry; and creates code required for file and screen handling, beginning and end of job, and error handling.
- Transaction — Produces most of the code required for most transaction programs; supports up to 12 files; creates code required for file and screen handling, matching, breaks, secondary file(s) handling, error codes, and beginning and end of job routines; and supports user-directed special handling.

- Report — Meets most report program requirements; supports up to three files in one report; and creates code required for file and report handling, run totals, matching, breaks, error handling, and beginning and end of job routines.
- Inquiry — Meets most inquiry programs requirements; supports up to three files in one inquiry; and creates code required for file and screen handling, matching, breaks, totals, error handling, and beginning and end of job routines.
- Merge-extract and reformat — Completely or selectively selects, merges, and/or reformats existing files into one or more additional or changed files.

In all cases, SOLUTIONS DECK produces documentation of all screen and report layouts as well as program narratives.

Price: \$250 – \$1,495

Contact: W. R. Hallam
 (506) 455-1008
 SOLUTIONS DECK
 P.O. Box 684, Station A
 Fredericton, NB E3B 5B4
 Canada

SOLUTIONS DECK Extract

Operating System: RSTS

Keywords: • Data base management • Pre- and postprocessors

SOLUTIONS DECK Extract-Merge-Reformat Preprocessor is designed to interactively produce more than 95% of the code required for most extract-merge-reformat program requirements in a matter of minutes. Use of the preprocessor should provide a 100% productivity improvement, even in casual use.

SOLUTIONS Extract-Merge-Reformat is driven by the user's replies to an on-line interactive dialog. The user specifies up to three files for inclusion and indicates their relationships. The user is then guided for optional inclusions. SOLUTIONS Extract-Merge-Reformat then produces the program.

SOLUTIONS Extract-Merge-Reformat is one of a family of SOLUTIONS DECK preprocessors designed to support all program types found in an on-line commercial environment.

Price: \$495 – \$595

Contact: W. R. Hallam
 (506) 455-1008
 SOLUTIONS DECK
 P.O. Box 684, Station A
 Fredericton, NB E3B 5B4
 Canada

SOLUTIONS DECK Master

Operating System: RSTS

Keywords: • Data base management • Graphics
• Pre- and postprocessors

SOLUTIONS DECK Master preprocessor is designed to interactively produce more than 95% of the code required for most of the master file programs in a matter of minutes. Use of the preprocessor should provide a 100% productivity improvement, even in casual use.

SOLUTIONS Master is driven by the user's replies to an on-line interactive dialog. The master file description is specified for inclusion. The user is then guided through screen layout — headings, prompts and replies — to quickly and easily “paint” the desired screen for master file maintenance, including edit for data type and lengths. The user can indicate any special data handling required for each data item. SOLUTIONS Master prepares section headers indicating required code and includes them in the program being produced. The output program is then completed by the addition of the user's (optional) own code.

SOLUTIONS Master uses any file description. The program created includes all code for file and screen handling. Logic to support master file additions, changes, deletions, and inquiries is included. Also included are beginning of job, end of job, and error routines.

The user can add code for data input/output and any special handling to complete the program.

Price: \$495 – \$695

Contact: W. R. Hallam
(506) 455-1008

SOLUTIONS DECK
P.O. Box 684, Station A
Fredericton, NB E3B 5B4
Canada

SOLUTIONS DECK Report Writer

Operating System: RSTS

Keywords: • Data base management • Report writer

The SOLUTIONS DECK Report Writer preprocessor is designed to interactively produce more than 95% of the code required for most of report program requirements in a matter of minutes.

SOLUTIONS Report is driven by the user's replies to an interactive dialog from a terminal of almost any type. The user specifies up to three files for inclusion and indicates their relationships. The user is then guided to heading and report layout(s). Solutions Report then produces the program ready for inclusions of the user's (optional) own

code. The program created includes all code for file and report handling, run totals, matching, breaks, and beginning and end of job routines. The output report can be sent to any system printer.

SOLUTIONS DECK Report is one of a family of SOLUTIONS DECK preprocessors designed to support all program types found in an on-line commercial environment and should provide 100% productivity improvement, even in casual use.

Price: \$595

Contact: W. R. Hallam
 (506) 455-1008
 SOLUTIONS DECK
 P.O. Box 684, Station A
 Fredericton, NB E3B 5B4
 Canada

SOLUTIONS DECK Transaction

Operating System: RSTS

Keywords: • Data base management • Graphics
 • Pre- and postprocessors • Query facilities

SOLUTIONS DECK Transaction Program Processor is designed to interactively produce more than 90% of the code required for most transaction processing program requirements in a matter of minutes. Use of the SOLUTIONS Transaction should provide a 100% productivity improvement, even in casual use.

SOLUTIONS Transaction is driven by the user's replies to an on-line interactive dialog. The user specifies up to 12 files for inclusion. The user is then guided through screen layout, including heading, input prompts, and replies. Logic for edit of input data type and lengths is included here. The user can indicate any special data handling required for each data item. SOLUTIONS Transaction prepares section headers indicating required code and includes them in the program being produced. The output program is then completed by the addition of the user's (optional) own code.

Price: \$795

Contact: W. R. Hallam
 (506) 455-1008
 SOLUTIONS DECK
 P.O. Box 684, Station A
 Fredericton, NB E3B 5B4
 Canada

SORT-11, Version 2.0

Operating System: RSX

Keywords: • Data base management • File management

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SORT-11 is an optional sort utility supported under any **RSX-11M** or **RSX-11M-PLUS** operating system that includes the **RMS-11** data management system. **SORT-11** is packaged with the **IAS**, **RSTS/E**, and **CTS-500** operating systems. **SORT-11** accepts as input one **RMS** file and creates a second, reordered **RMS** file. The input file can contain data stored in binary or **ASCII** format. The file organization can be sequential, relative, or indexed, and the record format can be fixed length, variable length, or stream. Output records are sequenced by the user-specified key fields in ascending or descending order.

SORT-11 contains the following four sorting processes:

- **Record** — Manipulates the records in their entirety.
- **Tag** — Produces a reordered file by manipulating only the key position of each record. It then randomly reaccesses the input file to write out a newly sequenced file.
- **Address routing** — Creates a file for the data and for multiple address files that are used to access the data in the desired sequences.
- **Index** — Generates a separate index file that contains the record **SORT** key field and a pointer to the record's location in the data file.

SORT-11 also includes a set of subroutines, callable from programs written in one of the languages that use **RMS**. **SORT-11** does not provide a file merge capability.

Refer to **SPD #12.07.06** when requesting further information on this product from your local **DIGITAL** sales office.

Price: Available upon request

Contact: Consult your local **DIGITAL** sales office
(see Introduction).

SPSS-11™

Operating System: **RSTS**, **RSX**, **RT-11**

Keywords: • Data collection • Quality control • Scientific
• Statistics

SPSS-11 is an applications software package for tabulation, statistical analysis, and general-purpose data management. Although **SPSS-11** is tailored to run on microcomputer architecture, it retains the powerful yet easy-to-use command structure and the data and file-handling features of its parent version. Highlights of its statistical capabilities include frequency distributions; breakdown analysis; cross-tabulation; Pearson, Spearman, and Kendall correlations; *t*-tests; scattergrams; multiple regression; analysis of variance; and survival and discriminant analysis. Data management facilities permit simplified handling of large files and subfile structures, as well as recoding of existing variables, creation of new variables, and selection, sampling, and weighting of specific cases. The **SPSS-11** editor checks for **SPSS** command syntax as well as command order, without requiring job execution. Release 4.0 of **SPSS-11** adds a report generator to customize formatted reports.

Price: \$3,000 – \$6,000

Contact: Susan Phelan
(312) 329-2400

SPSS INC.
444 North Michigan Avenue
Chicago, IL 60611

SPY: RSX Accounting System

Operating System: RSX

Keywords: • Accounting • Statistics

Memory required: About 1K.

SPY is a group of tasks that provides accounting functions for RSX-11M Version 3.1. Information is logged on use of the system by task, UIC, and terminal; CPU usage is logged by user tasks and by the system. The SPY system is designed to work on the system regardless of the multiuser protection feature of RSX. DECUS number 11-372.

Restrictions: SPY needs modification to run without EIS.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

SRF (System Reporting Facility)

Operating System: RSX

Keywords: • Statistics

SRF maximizes PDP-11 performance and capacity by identifying bottlenecks, measuring system and peripheral usage, evaluating new and existing software, and accurately predicting future computer requirements. Performance is monitored for PDP computers ranging from single-user real-time systems to multiuser time-sharing systems.

SRF automatically logs statistics for both user and task utilization as well as for the global system. User and task statistics indicate the computer resources consumed by each user and task; the global statistics show amount of usage of the entire system and how much capacity is available.

Precise, easy-to-read activity logs enable users to identify data center problems and relate them to a specific program, time of day, application, user, or critical hardware or software.

SRF's reports summarize the level of usage for such major components as CPU, memory, I/O, printer, terminals, and tasks. Those reports aid in selecting and justifying equipment for upgrade by showing current equipment usage levels. Historical-activity logs are used to determine usage trends and to plan for future computer capacity requirements. The report formats are compatible between the RSX-11M-PLUS systems.

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Computer centers gain maximum efficiency and performance from the PDP-11 when SRF is installed. SRF takes only minutes to install, and there is no sysgen.

A version of this product is available for the VAX computer.

Price: \$3,995 – \$4,495

Contact: Lewis L. Lovett, Sales Manager
(301) 864-3700
GEJAC, INC.
P.O. Box 188
Riverdale, MD 20737

STAT-11: Statistical Package

Operating System: RSTS

Keywords: • Statistics

Memory required: 16K user space.

STAT-11 is a statistical package that can be used by anyone, with or without computer experience and computer programming. The information needed to perform statistical analyses with STAT-11 is contained in Chapter 2 of the manual, including examples of STAT-11 programs.

The STAT-11 program and manual use certain conventions with which the user may not be familiar:

- In the sample programs in the manual, information typed in by the user at the keyboard has been underlined to differentiate it from computer output.
- In arithmetic expressions, an asterisk (*) denotes multiplication, and an upward-pointing arrow (↑) denotes exponentiation.
- A percent sign (%) before a number in STAT-11 output indicates only that the number has exceeded the normal output format in length. The value of the number is still correct.

DECUS number 11-271.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

TAM (Terminal Access Module)

Operating System: RSTS, RSX

Keywords: • Data entry • Forms management
• Programming tools

TAM, a transaction processing front end, provides a wide range of capabilities for handling data entry, inquiry, and update at CRT terminals. The details of the interaction (screen layout, prompting text, field edits, cursor positioning, and so on) at the CRT are specified by formats, which are sets of statements in a high-level, declarative language. The formats are compiled into a library and are then executed under application program control. TAM contains an extensive set of support facilities for creating, modifying, and testing formats.

Applications communicate with TAM via the large-message, send/receive facilities of RSTS/E or with the send/receive and dynamically mapped shared-region facilities of RSX-11M. A transaction-processing application program would, as required, send messages to TAM saying, in effect, "execute format *x* at terminal *n* and return the record of data collected." The critical-performance portions of TAM are implemented in PDP-11 assembly language as shared code.

Under VMS, the TAM format-execution code consists of a set of procedures, called using standard VAX/VMS conventions, which are linked with the user program image. The TAM VAX-11 MACRO procedures are position-independent and are supplied as a shareable image.

A version of this product is available for the VAX computer.

Price: \$6,000

Contact: Martha Schriefer
(617) 861-0670

EVANS GRIFFITHS & HART
55 Waltham Street
Lexington, MA 02173

TELEP.BAS (Address Manipulator)

Operating System: RT-11

Keywords: • Presentation aids • Telecommunications

TELEP.BAS is a useful, enjoyable program that orders, saves, edits, deletes, searches, and prints names, addresses, telephone numbers, and birthdays. TELEP.BAS lets your computer replace your "little black book." DECUS number 11-255.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

TOPMAN (Total Planning and Management)

Operating System: RSX

Keywords: • Graphics • Project management • Report writer
• Scheduling

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TOPMAN is a project management system designed to relieve project and functional managers of time-consuming planning and record-keeping tasks. Calendar-based graphic and printed reports help managers control projects. Great flexibility and a variety of reports are available for project, division, subdivision, or multiproject networking.

- **Initial planning:** Project staff sets up a plan including an activity list, start dates or dependence on other activities, span times, estimated resources required, milestones, and department or individual responsibility assignments.
- **TOPMAN generates Gantt (bar) chart plots** to show activity descriptions, span times, critical path, dependencies, milestones, and responsibility assignments. Budgeted resource data is displayed in distributed or cumulative graphic plots and printer reports.
- **Updating:** Work progress, resource expenditures, exception reporting criteria, and/or plan amendments are entered by the user.

TOPMAN generates bar charts, graphic plots, and printer reports to reflect work achieved in activities, probable complete dates, recalculated critical path, resources expended, dollars required to complete, earned value, cost trend, cost variance, and exception report. Straight-forward and easily understood reports relieve managers from distracting details that interfere with their primary task of managing.

Combined with our Interactive TOPMAN Preprocessor (ITP), TOPMAN is very user-friendly. ITP displays a series of prompts or questions to step the user through the process of building the project into a planned schedule and budget. As work proceeds and costs are incurred, the prompts lead the user through updating and replanning cycles so that the project managers can always be on top of the project.

A version of this product is available for the VAX computer.

Price: \$15,000 – \$25,000

Contact: G. H. Marlow, President
(215) 348-1200

APPLIED MANAGEMENT METHODS, INC.
201 N. Broad Street
Doylestown, PA 18901

Trouble Ticket Reporting System

Operating System: RSTS

Keywords: • Maintenance • Statistics • Telecommunications

The Trouble Ticket Reporting System allows complete control and monitoring of troubles from the time they are reported, as they are tested and dispatched, until they are cleared. This system maintains statistics and provides reports for repairs that have been completed. Each company can determine how many months of information to retain in history for reporting purposes, using its own acronyms, codes, and customer setup. Most criteria and display fields are user defined.

The trouble report can be printed at any location determined by the operator during dispatching. Statistics, including indexes, percentages, and elapsed time to clear, are updated monthly.

Uncleared trouble reports in the system can be accessed through an inquiry function for monitoring status. Access to information can be through any field on the trouble ticket, including equipment assignment, dispatch information, status, and the trouble, found, and cause descriptions for the trouble.

Reports can be set up to run on request or automatically with changes to standard reports or new reports developed easily on line.

Each customer or premise trouble history is kept in summary and in detail in both this system and Customer Service Inquiry.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Bob Morse
(206) 456-3535
ALLIED DATA
P.O. Box 2406
Olympia, WA 98507

ULIB

Operating System: CTS-300, RSTS, RT-11

Keywords: • Data entry • File management • Security

This utility library, a collection of DIBOL subroutines, has the uniqueness and flexibility to run under both CTS-300 and CTS-500. The subroutines range from simple redundant screen-formatting techniques to complex data file I/O procedures that include run-time error trapping. ULIB's routines were developed in conjunction with business-oriented software packages. This application serves primarily data processing projects that apply to commercial development.

ULIB features a 5-level password security system; data entry rules consistent and compatible with DECFORM; data file I/O routines using DIGITAL's ISAM file storage system, including automatic file reorganizations; program error trapping; "device-independent" screen routines and "system-dependent" print/report routines; CTS-300 to CTS-500 compatibility; and standard data division common area. Those ULIB features can provide the customer with an innovative and quality software product, plus additional flexibility with software components and/or operating systems.

Price: \$500

Contact: Larry L. Alexander
(214) 934-0031
FULTON BUSINESS SYSTEMS
4950 Keller Springs Road #280
Dallas, TX 75248

Unibase Relational Network Database

Operating System: UNIX

Keywords: • Data base management • Data entry
• Query facilities • Report writer

Incorporating the latest in software generation tools and relational data base hardware, Unibase Relational Database is the ideal data base for companies with more than one UNIX*-based VAX computer that should draw information from a reliable data base. The special relational processor relieves the host computer from burdensome DBMS tasks and provides exceptional relational DBMS transaction throughout. Unibase includes a large collection of application generation programs: a data entry package, a menu handler, query by forms, an interactive query language, and a report writer. The screens and help available make this powerful data base approachable to new or naive users.

Networking capabilities allow 64 computers and up to 4,096 users to access a single data base. Transactions may be logged for audit, and backups may be performed while the system is active.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Sam Bishop, Vice President, Sales
(312) 879-1008

UNIQU DIGITAL TECHNOLOGIES

28 S. Water Street
Batavia, IL 60510

UNIFY

Operating System: UNIX

Keywords: • Data base management • Data entry
• File management • Query facilities

UNIFY is a multiuser, menu-driven, and fully interactive UNIX* relational data base management system. It supports large data bases — up to two billion records over eight physical devices.

UNIFY provides a complete range of application development tools, including a menu handler, automatic data entry, query by forms, a report generator, and structured query language (SQL) based on IBM's SEQUEL 2 relational query language. A host language interface, compatible with C and RM-COBOL, is also provided.

UNIFY offers multiple data access and raw file I/O capability for fast performance while requiring a minimum memory configuration of only 256K bytes and two megabytes of disk space.

*UNIX is a trademark of AT&T Bell Laboratories.

Price: \$1,995 +

Contact: Dean Westbrook
(503) 245-6585

UNIFY CORP.

9570 SW Barbur Boulevard, Suite 303
Portland, OR 97219

Unify Relational Database Management System

Operating System: UNIX

Keywords: • Data base management • Data dictionary
• Programming tools • Query facilities

The Unify Relational Database System provides a complete spectrum of powerful fourth-generation application development facilities. Its UNIX* operation results in outstanding performance. Nonprocedural software tools allow simplified development and maintenance of effective, efficient applications. Users can also create their own applications.

Included in Unify are the SQL relational query language, query by forms, an interactive data entry package, an interactive data dictionary, a report writer, and a menu handler.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Sam Bishop, Vice President, Sales
(312) 879-1008

UNIQU DIGITAL TECHNOLOGIES

28 S. Water Street
Batavia, IL 60510

Warehousing Systems

Operating System: RT-11, TSX-PLUS

Keywords: • Inventory • Natural resources • Warehousing

Inventory control through bar-coded tags or labels makes this system virtually eliminate human errors. The system keeps track of inventory — when and where received, when and where to be shipped — costs associated with the inventory item, and information fields (weight, dimensions, and so on). Management and daily reports are available. The system is designed for wholesale or retail.

Price: Available upon request

Contact: John Logan
(503) 297-1627

DENNISON EASTMAN CORP.

6400 S.W. Canyon Court
Portland, OR 97221

Wolf Form Driver

Operating System: RSX, RT-11

Keywords: • Forms management • Graphics • Menu handlers
• Utilities

This set of system-independent subroutines permits the development of application programs using formatted video screens on a VT100 video terminal and thus facilitates rapid application programming. Use of this form driver can reduce program development time by up to 60% and result in programs that require less memory and that are easier to modify and read. As the Form Driver is written in MACRO, it is very fast.

All VT100 video terminal features are used — various line sizes, reverse video, bold, underline, blink, 132-column lines, scrolling capabilities, reverse screen, line-drawing character set, and so forth.

The Form Driver is callable from MACRO, FORTRAN, BASIC, or Pascal programs and can also be used for existing applications. It requires only 3.3K words additional memory linked to the application program. The Wolf Form Driver is supplied on various distribution media and comes with complete documentation.

Price: \$700 – \$1,900

Contact: R. Wolf or T. Engel
061 88 29 50

WOLF ELECTRONIC
Im Baumgarten 6
CH-4313 Moehlin
Switzerland

X-CELL

Operating System: RT-11

Keywords: • Data base management • Documentation
• Report writer

X-CELL is a user-friendly data base management system designed to run on DIGITAL's LSI-11 and PDP-11 family of mini- and microcomputers. X-CELL allows the user to define and allocate field space for any combination of alphanumeric and numeric entries. Each field is given a title up to 30 characters in length. The user may define up to 30 fields per record. The number of records is limited to the available disk space. Records may be defined to be from 1 to 256 bytes in length. Numerical fields can be mathematically defined by equations that are functions of the values of other numeric fields.

X-CELL comes with search and sort capabilities that allow for inclusive and exclusive retrievals and sorts by as many as 15 fields at the same time. The retrieved and/or sorted data may be displayed on the video or the line printer, using any format defined by the X-CELL report generator.

X-CELL comes with a report generator that allows the user to define and build report formats that can be saved and modified as needed. The two basic format types are MEMO, which is used for form letters and other fill-in-the-blank-style reports, and HEADER, which is a column-oriented report. The HEADER-style format also does summations and averages of numerical columns.

X-CELL comes with an input and modify editor that allows for new records to be defined from existing records. The editor also allows for quick modifies and inputs via a direct field pointer that allows users to go directly to any field that they wish to edit and to leave editing anywhere within the record.

X-CELL allows for easy switching from one data base to another. An unlimited number of data bases can be accessed via X-CELL.

X-CELL generates documentation for each data base, defining the fields, their titles and lengths, and examples of all report formats defined for the data base. The documentation gives all equations used to define numerical entries.

X-CELL requires RT-11 with BASIC, a VT100 or compatible terminal, either an RX02 or an RX01 disk drive for software distribution, and 64KB of memory.

A version of this product is available for the VAX computer.

Price: \$250

Contact: Phyllis Collins, President
(617) 822-3173

INDECS SERVICES
9 Pinecrest Drive
Taunton, MA 02780

XDE (Data Entry and Edit System)

Operating System: UNIX

Keywords: • Data entry • Data base management
• Forms management • Text management

The XDE data entry and edit system is comprised of two major programs that are selectable from the XED menu processor: the XFG form generator program for creating forms and the XDE data entry/edit program for building a data base. Pure data entry is done key to disk in a manner conceptually similar to standard keypunch operations. The package is further enhanced with printing utilities that allow formatted data to be printed with or without background text.

XFG allows the user to create a form template and to define the parameters for its use. Definitions include operator entry, computer entry, entry from a list, entry from calculations — cross-field, numerical, or character string — format masking, character masking, key field, key field prompt, blanked fields, operator or supervisor override, and verification by dual-entry, sight, range, or list matching.

510 Information Management

XDE allows record creation, update, modification, and printing and provides spreadsheet capabilities. Each record may contain up to 500 fields, and each field may contain up to 50 characters of data; there is no limit to the number of records per file. The XDE system provides a bridge for passing information between large data base management systems and the XED word processor. The system can also be used as a user-friendly front end for the data base manager by creating data entry forms that are easily understood.

XED office system programs are designed and coded for UNIX* Version 7, System III, System V, and Berkeley 4.1 and 4.2 to provide maximum installation flexibility and efficiency in a multiuser environment.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Ted Ferguson
(818) 884-2000
COMPUTER METHODS, LTD.
P.O. Box 709
Chatsworth, CA 91311

XPlan Plus

Operating System: RSTS

Keywords: • Data base management • Decision support
• Financial planning • Spreadsheets

This spreadsheet program, far more powerful than other spreadsheet products, is used in all markets for spreadsheet applications. XPlan can handle from 350 items to 50,000 items and can produce typed reports. It is limited to BASIC-PLUS and VAX/VMS BASIC.

A version of this product is available for the VAX computer.

Price: \$399 - \$499

Contact: M. Stewart
(441) 942-2282
XPLAN CORP.
P.O. Box 327
London, W44QD
England

XREF (Source/File Cross-Reference)

Operating System: RSTS, RSX

Keywords: • Programming tools • Project management
• Source code control

XREF produces cross-reference listings of program modules, data, and task images. Those listings detail the relationship among source files, callable routines, data files, and task image (binary relocatable) files. Files are selected by device and account for inclusion or exclusion from the cross-reference process. XREF produces four reports that list programs and all the external references made by each program.

Price: \$450

Contact: Neal J. Anderson
(414) 784-8250

MCHUGH, FREEMAN AND ASSOCIATES, INC.
1135 Legion Drive, P.O. Box 454
Elm Grove, WI 53122

XSH (Menu Processor/User Interface)

Operating System: UNIX

Keywords: • Development tools • File management
• Programming tools

The XSH menu processing system provides a menu-driven shell-like interface between the user and the UNIX* operating system. XSH is tree-structured and recursive, with no restrictions on the number of menu levels. The menu processor allows the creation, deletion, and manipulation of UNIX* directories and files, provides for vertical market integration of other program modules, and can be installed as the log-in shell to assist the inexperienced UNIX* user in using the power of the system.

Standard interfaces included are hooks into all the XED office system modules, including the XED word processing system, the programmer's editor, forms generator, data entry and financial analysis, printer/spooler system, electronic mail, and document assembly. The menu processor also permits interactive UNIX* shell commands.

XED office system programs are designed and coded for UNIX* Version 7, System III, System V, and Berkeley 4.1 and 4.2. Care has been taken to provide maximum installation flexibility and efficiency in a multiuser environment.

*UNIX is a trademark of AT&T Bell Laboratories.

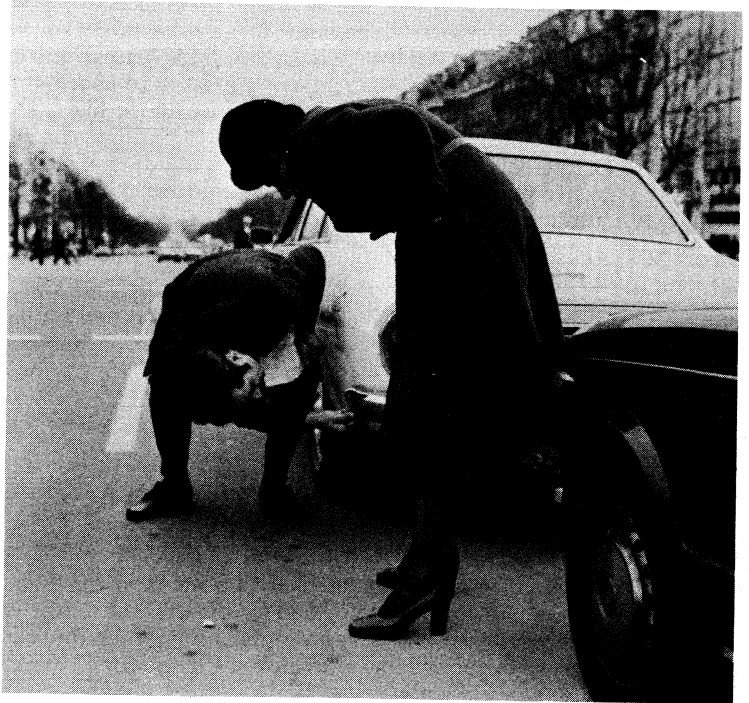
A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Ted Ferguson
(818) 884-2000

COMPUTER METHODS, LTD.
P.O. Box 709
Chatsworth, CA 91311

Insurance



Owen Franken/Stock, Boston

Dynamic Systems Account Manager

Operating System: RSTS

Keywords: • Data collection • Security

Memory required: 16K.

When the REACT system program creates an account, the data for that account is appended to the end of the \$ACCT.SYS file. Thus, REACT does not maintain \$ACCT.SYS in sorted order. Further, changes to accounts made by REACT and UTILTY are not reflected in \$ACCT.SYS.

The ACMAN package, which replaces the REACT program, creates and deletes accounts; changes passwords, quotas, and account names; maintains the \$ACCT.SYS file in sorted order; updates \$ACCT.SYS when changes are made; creates all accounts on any specified disk; and dumps a formatted copy of \$ACCT.SYS to LP:. ACMAN runs detached to maximize system security. Management requests are checked for correct syntax and valid operands by several utilities; MANAGE allows the privileged user to do all the above. CHGPAS allows the non-privileged user to create/delete accounts on a private disk. CHGALL changes the passwords of all accounts with the same project number at once. DECUS number 11-283.

Restrictions: As is, the programs only manage SY: and must reside in (1,2). The file ACMAN.INS tells how to change that.

Note: In this version, execution is about four times faster; two utilities and two options have been added; and the documentation has been improved and bugs fixed.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Group Health and Life Insurance

Operating System: RSTS

Keywords: • Dental • Medical

This single, integrated on-line computer system automates the administration and claims processing of group health and life insurance. The system is used by agencies, third-party administrators, insurance companies, and other organizations that provide health and life insurance benefits to groups of individuals. The system has two modules: GBAS (Group Benefits Administration System) and CPS (Claims Processing System), both of which use the same data base for interface purposes.

The Group Benefits Administration module provides enrollment and maintenance of groups and individuals, automatic rating, premium calculation (including prorating) and billing, cash application, commission processing, carrier reporting, certificate and I.D. card issuance, and claims verification. The Claims Processing module provides

eligibility determination, benefits calculation, production of checks and worksheets, on-line access to claim and payment history, and analysis of payment and premium history.

The system interfaces with word processing (DECword/DP) software, which is included in the price of the package.

Price: \$81,500

Contact: Erna Arnesen
(713) 496-0771
SPARTIN SYSTEMS
14925-A Memorial Drive
Houston, TX 77079

Insurance Agency Accounting

Operating System: CTS-300, RT-11, TSX-PLUS

Keywords: • Accounts payable • Accounts receivable • Billing
• General ledger

This complete insurance agency accounting system, comparable to DAP-8 and DAP-11, includes all daily accounting functions, aged accounts receivable, trial balance, custom statements, and producer receivables reports. It also produces company account current reports, accounts payable reports, and expiration lists. Optionally it prints premium and commission statistics by company, by producer, or by class of business. A complete financial system prints balance sheet and operating statements with comprehensive audit trails. This program has been in use on DIGITAL equipment since 1977.

Price: \$5,000

Contact: Sam Wingate, Vice President
(813) 935-8844
AUTOMATION RESOURCES CORP.
2901 W. Busch Boulevard, Suite 309
Tampa, FL 33618

Insurance Agency (Casualty)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Billing • Sales and marketing • Statistics

The Insurance Agency (Casualty) package is structured for single-agency or multicompany operations and is built for customer service representative marketing concepts. The package uses an expansive policy file, permitting a large array of reports, advices, and letters. Invoices for current, prerenewal, installment, and advance bill are generated. The system also prepares sales statistics, accounts receivable statements and related reporting, accounts current, commissions, expirations, claim processings, customer profiles, insurance binders, cancellation requests, requests for policy changes and renewals, loss notices, certification of insurance, history ledger call-out, book of business, new business, and so forth.

516 Insurance

Price: \$3,000 – \$12,000

Contact: R. Bud Brummer
(605) 343-7800

CUSTOM COMPUTER SERVICES, INC.
P.O. Box 1738
Rapid City, SD 57709

Insurance Agency Package

Operating System: CTS-300, RT-11

Keywords: • Accounting • Accounts payable
• Accounts receivable • General ledger

This comprehensive system is designed specifically for the small- to medium-size insurance agency. The package handles the complete accounts receivable, accounts payable, and general ledger requirements of the agent, together with premium, commission, and sales analysis reports.

A version of this product is available for the VAX computer.

Price: \$5,000

Contact: Nigel Harris
(613) 829-8888

HARRIS COMPUTER SYSTEMS
16 Credit Union Way
Nepean, Ontario K2H 8R6
Canada

IRI/CRIS

Operating System: RT-11

Keywords: • File management • Health care • Report writer

The IRI/Credit Insurance System provides the insurance company with an on-line consolidated system that completely supports the administration of Credit Life and Health Insurance. The system is comprised of five subsystems:

- Support File Maintenance includes the creation and updating of the Creditor, Audit, Situation, Reserve Factor, and Premium/Benefits files.
- Certificate File Maintenance includes the creation and updating of certificate information.
- Experience and Creditor Reporting.
- Alpha Edit.
- Actuarial Reporting creates the detail reserve records for each certificate and generates supporting detail for the N.A.I.C. convention blank.

Price: Available upon request

Contact: Bill Leroy, President
(404) 231-3117

RESOURCEFUL SOLUTIONS
470 E. Paces Ferry Road, Suite 1020
Atlanta, GA 30305

IRI/Ordinary

Operating System: RT-11

Keywords: • Billing • Health care • Report writer
• Statistics

The IRI/Ordinary Life Insurance System supports the administration of Individual Life and Accident and Health policies from policy inception through termination. Support systems include policy administration, agents compensation, policy exhibit, valuation, and plan values.

Price: Available upon request

Contact: Bill Leroy, President
(404) 231-3117

RESOURCEFUL SOLUTIONS
470 E. Paces Ferry Road, Suite 1020
Atlanta, GA 30305

Property and Casualty Insurance System

Operating System: RSTS

Keywords: • Accounts payable • Accounts receivable
• Property management

This computer system is designed for a surplus-line company that provides service to a series of agencies or brokers. The system automatically prepares daily invoices and a sales journal. Accounts payable and accounts receivable are also automatically maintained. A renewal report automatically selects policies that will expire within a given time period for your use in obtaining renewal business for those policies. The availability of an aged receivables report by broker and invoice is an invaluable collection tool. Detailed listings of cash receipts and disbursements provide a complete record of all transactions processed by the system.

Price: \$3,000 - \$5,000

Contact: Robert Davidson
(215) 836-1406

TIME SHARING CONSULTANTS OF
PENNSYLVANIA, INC.
6107 West Mill Road
Flourtown, PA 19031

UDS-IAS (Insurance Accounting System)

Operating System: RT-11

Keywords: • Accounting • General ledger
• Property management • Word processing

This complete system for the multioffice company provides such general accounting functions as monthly P&L for each office and consolidated, with prior-year and budget comparison; A/R; A/P with vendor 1099; payroll; construction investment; and schedules for fixed assets, notes payable, notes receivable, and other schedules as needed by the customer.

The system also provides insurance functions: equal detail reporting for agency and direct bill; customer file retrieval of all accounting and policy coverage on CRT; automatic worksheet to reduce effort to renew policy; accounts current; exception report when correct commission is not received; X-date system; ACCORD forms; evaluation of producers; summary management reports for company, producer, and class of business, showing year-to-date premiums and commissions and comparison to prior year. The system generates detail transaction ledgers for customer, company, and producer.

The UDS Insurance Accounting System may be integrated with the UDS systems for real estate and property management. All UDS systems are delivered with word processing capability.

Price: \$7,000 – \$12,000


Contact: William P. Irwin, Jr., Director of Marketing
(404) 724-7761 or (800) 241-2404

UNITED DATA SYSTEMS
501 Greene Street, Suite 220
Augusta, GA 30901

Law



RULES FOR TEACHERS — 1915

1. Not to get married.
 2. Not to keep company with men.
 3. To be home between the hours of 8 P.M. and 6 A.M. unless in attendance at a school function.
 4. Not to loiter downtown in ice cream stores.
 5. Not to leave town at any time without permission of the chairman of the board.
 6. Not to smoke cigarettes.
 7. Not to get in a carriage or automobile with any man, except her father or brother.
 8. Not to dress in bright colors.
 9. Not to dye her hair.
 10. To wear at least two petticoats.
 11. Not to wear dresses more than two inches above the ankle.
 12. To keep the schoolroom neat and clean: (a) sweep the floor at least once daily; (b) scrub the floor at least once weekly with hot water and soap; (c) clean the blackboards at least once daily; (d) start the fire at 7 A.M. so the room will be warm by 8 A.M.
- 

AIMS (Attorneys Interactive Management System)

Operating System: RSTS

Keywords: • Accounts receivable • Billing
• Information management

AIMS is an application software product designed to manage time and expense billing for law firms of all sizes and is available as part of a time-share service or an in-house system. AIMS is a multiuser system, allowing simultaneous access to all application programs from any of the on-line terminals. Timely and complete information is always available and is continually being updated.

The four major elements of AIMS are time and expense billing, type-writer-quality statements, interactive accounts receivable, and management information reports. An option is OCR entry of timesheets.

Additional applications are interactive general ledger, accounts payable, payroll, and telephone management.

Price: \$15,000 +

Contact: Larry L. Alexander
(214) 934-0031

FULTON BUSINESS SYSTEMS
4950 Keller Springs Road #280
Dallas, TX 75248

Attorney's Time and Billing

Operating System: RT-11

Keywords: • Billing • Scheduling

Designed to increase the profitability of a law firm, this menu-driven system allows on-line editing and updating of master files, data entry, and data inquiry. The system can add considerable efficiency to a law office operation. Some key features of the system are:

- Up to 999 user-defined billing codes are available to describe a service or an expense activity.
- Three hourly billing rates are provided for each attorney.
- Billing frequency and degree of statement detail may be selected for each case.
- The system prints an activity report for contingency cases (without billing amounts).
- Transactions for billing can be selected by deferral or selection or by a combination of the two.
- Month-to-date and year-to-date time and dollars billed are accumulated for productivity reports by attorney, case, case category, and billing code.
- Nonbillable time may be reported.
- A complete audit trail of all transactions is provided.
- The system interfaces to a general ledger system.

Price: \$3,500 – \$7,500

Contact: Larry Lawrence, Vice President, Marketing
(309) 828-6031
BEAR COMPUTERS
102 No. Center Street
Bloomington, IL 61701

bcsADMINSYSTEM™

Operating System: CTS-300

Keywords: • Accounting • Billing • General ledger
• Scheduling

This program handles fee schedule billing at both the client and file levels. From one to seven hourly rates can be set up for each file. For any file, timekeepers may charge a special rate different from the normal rate charged to the client.

The program also has automatic cycle billing for each file (quarterly, annually, and so on) plus minimum dollar billing. Minimum dollar billing allows you to enter any dollar amount so that the system will automatically include for billing all files with unbilled fees that exceed this dollar amount. The on-demand billing feature allows the automatic printing of bills for selected files or for all files of a selected file type, client, or billing attorney.

The software automatically processes rate changes for selected matters, clients, and timekeepers. The effective date of the change is entered to determine which entries are to be charged at the old and new rates.

The program also has unlimited billing narrative and more than 20 billing statement formats. A summary can be printed on each bill, including the names of each person on the bill, the total hours, and the hourly rate charged by each person.

A reversal feature allows quick and easy corrections and the reprinting of bills. Statistics are automatically updated to reflect changes made to a bill. Each bill has three optional sections, which are used to print needed information on a bill — for example, claim number, policy number, name of insured, date of loss, and so on.

A client adjuster diary is used to track the contact dates, entertainment dollars spent, and the number of files received from each adjuster of a carrier. The information is printed on the Client Adjuster Report.

Comprehensive management and productivity reports with divisions by office and department can be generated. Along with billing statistics, the billing register indicates if a file was billed out of cycle and prints the total dollars that should have been billed for a file but were not.

All client-related reports group the offices of multiple-office clients together. The reports offer separate totals for each office of a client plus combined totals for all offices.

The software offers screen display of the most recent administrative and financial data for selected files, timekeepers, and clients.

Calendar reports, including activities by office, timekeeper, and activity type (depositions, vacations, and so on) may be generated. Any date range can be chosen. The day (Monday, Tuesday, and so on) is printed along with the calendar date.

A version of this product is available for the VAX computer.

Price: \$6,000 – \$10,000

Contact: Richard Bosler, Partner
(213) 956-3214

BOSLER-CLINE SYSTEMS
741 South Street
Glendale, CA 91202

Conflict of Interest

Operating System: CTS-300, RSTS, RT-11

Keywords: • Decision support • Information management
• Query facilities

The Conflict of Interest package allows law firms to quickly and easily determine if a conflict of interest would exist if a potential new client were brought into the firm. The software allows law firms to create and maintain files containing names of all clients and related parties of interest to the firm and to search easily and quickly through those files.

Price: \$3,500

Contact: Suzanne Gunnells
(215) 825-7500

COMPUTE-R-SYSTEMS, INC.
5165 Campus Drive
Plymouth Meeting, PA 19462

CRSLINESM

Operating System: CTS-300, RT-11

Keywords: • Billing • Financial analysis
• Telecommunications

The CRSLINE system for automating the timekeeping and billing process in law firms involves linking an intelligent terminal/processor to CRS's host computer. CRSLINE can provide law firms with continuing access to their financial data.

The CRSLINE system functions independently from the host computer in the data entry mode and offers instant error detection. On a regular basis, the firm's data is transmitted over telecommunication lines to the host computer for update into the data base. The firm may receive back over the same telecommunication line client bills, client status reports, and other management reports.

This approach provides flexibility and access to information not possible in the traditional monthly batch processing service, yet does not require the investment for acquiring an in-house system.

Price: \$1,300 – \$3,500/mo

Contact: Suzanne Gunnells

(215) 825-7500

COMPUTE-R-SYSTEMS, INC.

5165 Campus Drive

Plymouth Meeting, PA 19462

DDM-11 (Due-Date Monitor)

Operating System: CTS-300, RT-11

Keywords: • Personnel • Project management • Scheduling

This is a multilevel approach to the management of a work load as it is distributed over a staff. The closed-loop DDM-11 system allows the assignment of tasks to individuals along with the due or critical date associated with the event. DDM-11 allows the creation of cataloged and noncataloged descriptions of repetitive or recurring tasks and permits entries to be entered as permanent or nonpermanent. Year-end rollover and mass loading are supported. Assigning and responsible producers, coded tasks as well as manually input task descriptions, client/manager maintenance, including telephone numbers, and specific date calculations are supported. The loop is closed by using the event reconciliation feature — marking the event as having been accomplished, by whom, and on what date. Complete historical and archival storage capabilities, along with historical reporting for tracking and audit purposes, are also supported. Many types of reporting are available, including by producer, by client, and by task. Multiple restrictions can be placed on report generation, allowing the user to tailor a report to his/her requirements. Late reports and elapsed-time-to-completion reporting are also supported.

Although developed by a CPA firm for public accounting and legal firms, the DDM-11 can be used effectively for project management, controlling service contracts for equipment, and for any other type of management setting in which events must be performed by individuals by specific dates.

A version of this product is available for the VAX computer.

Price: \$995 – \$1,995

Contact: C. Lee Cates
(615) 523-0553

DORROUGH & PARKS
530 Gay Street, Suite 204
Knoxville, TN 37902

Docket/Calendar System

Operating System: CTS-300, RSTS, RT-11

Keywords: • Information management • Scheduling

The Docket/Calendar System enables law firms to track dates and specific actions that are critical in complying with governing laws and regulations. The system permits files to be created and maintained that contain dates and specific actions that must be performed by those dates, in compliance with laws and regulations. Listings in various sequences are printed so that the responsible people can be notified.

The Docket/Calendar System is another aid to law firms wishing to computerize records keeping. The system builds a file of dates, along with actions to be performed by those dates, then generates reports to notify those who are responsible.

Price: \$4,000

Contact: Suzanne Gunnells
(215) 825-7500
COMPUTE-R-SYSTEMS, INC.
5165 Campus Drive
Plymouth Meeting, PA 19462

Fedder Legal Time and Billing System

Operating System: ULTRIX, UNIX

Keywords: • Accounts receivable • Billing
• Financial analysis • General ledger

The Fedder Legal Time and Billing System, a complete professional practice management system for law firms, provides for the entry of time and expenses, billing, cash receipts, writeups, and writedowns and includes multiple billing rates. Reports contain work in process by partner, staff productivity analysis, invoices, statements, aging by partner, and analysis by type of service.

A companion docket control system is available to monitor filings and so forth. The Fedder Accounts Payable and General Ledger systems combine to provide escrow account control and schedules.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: David E. Fedder
(301) 539-2121
FEDDER SOFTWARE, INC.
P.O. Box 27149
Baltimore, MD 212300149

General Ledger

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounting • General ledger

The General Ledger package enables law firms to computerize the necessary accounting books and records normally prepared manually. The system provides all financial statements, such as a trial balance sheet, general ledger, comparative balance sheet, income statements, expense statements, and statements of partners' capital expenses.

The General Ledger package interfaces to the Management Program 1000 timekeeping and billing system. That integration between the two systems allows the general ledger to be easily maintained, with little duplication of effort.

A version of this product is available for the VAX computer.

Price: \$5,000

Contact: Suzanne Gunnells
(215) 825-7500
COMPUTE-R-SYSTEMS, INC.
5165 Campus Drive
Plymouth Meeting, PA 19462

INCASE™ (Information Management System)

Operating System: RSTS

Keywords: • Decision support • Information management

INCASE is designed to automate control of information that is too laborious to maintain manually. The system allows the user to custom-design the data base — and make system changes even after the data has been entered — and to create and modify specialized report formats. INCASE enables the user to search any field of the data base easily and quickly, via powerful retrieval commands.

INCASE is used in the law firm environment in areas such as litigation support, work product retrieval, docket control, and library management.

A version of this product is available for the VAX computer.

Price: \$11,500 – \$26,000

Contact: Suzanne Gunnells
(215) 825-7500

COMPUTE-R-SYSTEMS, INC.

5165 Campus Drive
Plymouth Meeting, PA 19462

Law Office Management System

Operating System: CTS-300

Keywords: • Accounting • Billing • Financial management
• Recruiting

This fully integrated accounting system provides client billing and expense accounting, accounts receivable, accounts payable, automatic checkwriter, general ledger, trust and fiduciary accounting, and personal account statements. Other DP applications for the law office include docket control, a search and retrieval system, fixed asset control, personnel leave, and associate recruiting.

A version of this product is available for the VAX computer.

Price: \$5,000 – \$25,000

Contact: Carolyn Burneston, Marketing Manager
(301) 652-2802

BEERS & ASSOCIATES, INC.

7910 Woodmont Avenue
Bethesda, MD 20814

Legal and Accounting System

Operating System: RSTS

Keywords: • Accounts payable • Billing • Scheduling
• Word processing

This system, designed for a single or multigroup firm of lawyers, records and accumulates the lawyer's time on a case-by-case basis for billing and reporting purposes. Some functions include:

- Input time from lawyers' time slips. Entry includes the lawyer, client, case, time involved, type case (probate, tax, and so forth), and free-text description of service rendered. Each lawyer's standard fee is built in but can be overridden on each entry.
- Client billings, produced on a case-by-case basis, include lawyers' time and expenses.
- Complete word processing capability and accounting, including general ledger, accounts payable, and payroll.

Available reports are Current Month Billing, Accounts Receivable Aged Account, Billings in Suspense, Average Rate per Hour Billed versus Hours Incurred, and Billings by Case Type.

A version of this product is available for the VAX computer.

Price: \$1,500 – \$20,000
Contact: William R. Paschal, Jr.
 (405) 843-7323
 DATATEK CORP.
 818 N.W. 63rd
 Oklahoma City, OK 73116

Legal Data LOFT System (Law Office of the Future — Today)

Operating System: DSM (MUMPS)

Keywords: • Accounts receivable • General ledger
 • Project management • Word processing

The LOFT system has programs for the following functions:

- Time and disbursement recording allows for unlimited narrative as well as a dictionary of abbreviations that can be used anywhere in the text for “shorthand typing”; but when a prebill or final bill is printed, abbreviations are translated. An abbreviation may be from one to four characters long and may represent a phrase up to 240 characters long.
- Various formats for final bills with unlimited narrative, complete detail entry by entry, or paragraph format.
- Ability to transfer time/disbursement entries from one client/case to another, with complete audit trails — transfer cases from one client to another, as well as the ability to merge cases.
- Maintain complete historic accounts receivable with all detail.
- Ability to “unbill” bills, edit, and rebill, leaving audit trail.
- Integrated accounts/payable, client accounting, and general ledger, with automatic check writing. The general ledger has complete narrative.
- Conflict-of-interest checking maintains regular alpha look-up file as well as a compacted alpha file, stripping out the vowels.
- Payroll system, presently with more than 500 users.
- Word processing — OEM for MASS-11 (MicroSystems Engineering)

A version of this product is available for the VAX computer.

Price: \$5,000 – \$35,000
Contact: Leon M. Padell
 (617) 426-1040
 LEGAL DATA SYSTEMS, INC.
 50 Franklin Street
 Boston, MA 02110

Legal Management System

Operating System: CTS-300, RSTS, UNIX

Keywords: • Accounts payable • Accounts receivable • Billing
 • Management

The Legal Management System offers specialized legal time billing, accounts receivable, and management report programs designed for small- and medium-size law firms. Features include unlimited time-slip narrative, multiple statement formats, trust and/or retainer modules, and optional finance charge. This table-driven package is tailored to specific needs of firms. The PDP-11 system also tracks receipts by lawyer and area of practice, as well as the associated billings.

The system contains an annual enhancement program that responds to the changing requirements of firms and their clients. An outstanding training program for the administrator as well as the operator is offered along with the annual user meetings.

A version of this product is available for the VAX computer.

Price: \$2,500 – \$19,000

Contact: Marc Alexander, National Sales Manager
(503) 641-8100

ALPINE DATASYSTEMS, INC.
8043 SW Cirrus Drive
Beaverton, OR 97005

Legal Time Analysis

Operating System: RSTS

Keywords: • Accounting • Payroll • Word processing

The Legal Time Analysis program handles accounts receivable; billing and order processing; and client, attorney, and matter file maintenance. The program features a legal time and expense system, provides work in process by attorney, analysis reports, past-due notices, accounts payable, payroll, general ledger, and word and list processing.

A version of this product is available for the VAX computer.

Price: \$2,000 – \$20,000

Contact: Andrew Yasenchak
(201) 231-9400

UNITRONIX CORP.
197 Meister Avenue
Somerville, NJ 08876

Legal Time and Billing System

Operating System: RSTS

Keywords: • Accounts receivable • Billing
• Financial analysis • Report writer

This system applies reported time and expenses to appropriate client matters and monitors accounts receivable. The system provides comprehensive financial and management reports, including productivity analyses; revenue reports by attorney, client, and matter type; aged accounts receivable; and value of unbilled time and unbilled advanced costs.

As many as five rates are stored for each attorney. Further, special rates can be applied for any client or matter.

The billing process is highly flexible, flagging statements due by frequency, threshold dollar amount, or by discretion. Bills can be generated by attorney, by client, or by matter. Inquiry, edit, and final bills are produced by the system. The bill format will display as many as 1,200 characters of explanatory notes for each time and expense entry. The system calculates tax for those states that tax personal services.

Complete audit trails are created. In addition to the integral accounts receivable function, the system will interface with other accounting modules, such as general ledger.

A version of this product is available for the VAX computer.

Price: \$20,000

Contact: Ralph S. Trigg, Jr.
(505) 842-1247

AUTOMATED OFFICE SYSTEMS, INC.
P.O. Box 100
Albuquerque, NM 87103

Management Program 1000[®]

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounting • Billing

Management Program 1000 is a set of programs offering efficiency, flexibility, and convenience to law firms in the area of financial accounting. The software tracks unbilled time, unbilled disbursements, and accounts receivable information. A comprehensive set of reports, in a wide variety of formats and sequences, is designed to manage unbilled inventory and accounts receivable and to automate the billing process. Management reports show profitability by type of law, attorney performance and utilization, analysis of billing efficiency and provide exception reporting.

Additional features of the package include a bill formatter program, which produces customized client bills, and a ReportWriter program, which generates customized reports. In addition, an automatic transfer routine for unbilled time and disbursements and a Status Inquiry program enhance system flexibility.

Other options to the in-house system include word processing, litigation support, docket control, conflict-of-interest check, and general ledger.

A version of this product is available for the VAX computer.

Price: \$32,000

Contact: Suzanne Gunnells
(215) 825-7500
COMPUTE-R-SYSTEMS, INC.
5165 Campus Drive
Plymouth Meeting, PA 19462

PICALC: Lifetime Earnings Estimation

Operating System: RT-11

Keywords: • Calculation aids • Documentation
• Financial analysis • Simulation

PICALC estimates the present value of an individual's lost lifetime earnings, for use in personal injury, wrongful death, and medical malpractice arbitration and litigation. Options include gross income and after-tax income estimates, single- and multiple-salary persons, retraining and alternative employment allowances, valuation of working and home-oriented housewife's services, allowances for personal-consumption expenditures, estimation of in-kind contributions, and federal civil service, seamen, longshoremen, and other "special cases."

The program uses age/sex life expectancy and work-life expectancy look-up tables to determine the time span of regular and retirement pay earnings losses. A subroutine estimates federal tax liability for single and married persons.

Inputs include injured party's dates of birth, injury, or death; expected trial date; preaccident income and fringe benefits; start-year retirement pay; proposed discount rate; and expected inflation rates. Outputs include present value and disbursement tables by year.

Customized special programs of this kind are available on three days' notice.

A version of this product is available for the VAX computer.

Price: \$500 - \$800

Contact: David Bradwell, Ph.D., President
(415) 479-4980
DAVID BRADWELL AND ASSOCIATES, INC.
Economic Consultants
880 Las Gallinas Avenue
San Rafael, CA 94903

Police Records System

Operating System: RSTS

Keywords: • Data base management • Information management
• Statistics

This comprehensive police records system tracks criminal records, fingerprints, physical characteristics, crime statistics, demographics, and other useful and readily available information for use in crime prevention, apprehension, and reporting.

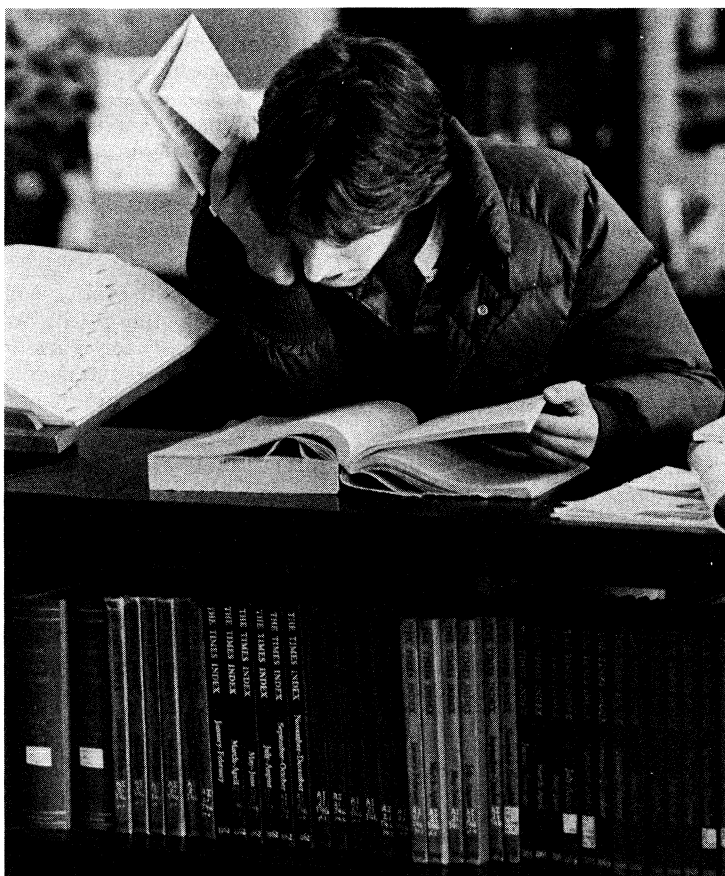
A version of this product is available for the VAX computer.

Price: \$8,000 +

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.
1010 S. Weinbach Avenue, P.O. Box 2469
Evansville, IN 47714

Library Science



Peter Southwick/Stock, Boston

BiblioTech Library Software System

Operating System: RSX

Keywords: • Data base management • Forms management
• Information management • Report writer

This family of computer software modules designed for the company library or information center supports the management, clerical, and intellectual efforts that are part of operating a vital research library. BiblioTech is based on DRS (Data Retrieval System). Librarians use DRS, a mature and reliable data base management system, with BiblioTech for information retrieval and management.

The BiblioTech Library Software System, a complete and fully integrated library system, is modular, and most modules can be used alone or in conjunction with other modules — a benefit for the library that has limited needs now but may expand later. The modules interact using a single data base. Data entered in any one of the modules updates the files and data in the other modules. The full set of modules eliminates the need for redundancy in capturing and in storing the information that may be needed for any acquisition, storage, or retrieval operation. Basic BiblioTech consists of three modules: catalog update, authority update, and a browsing module serving as an on-line catalog. Additional modules for circulation and periodicals control are available.

The basic BiblioTech system allows the user to enter bibliographic information when material is being ordered. The system prints order forms, and items on order are automatically available for searching, with the status displayed in the Browsing module. The system tracks department charges, cost of material, and the person requesting the material.

The library data base can be updated interactively or in batch mode. BiblioTech Browsing, an on-line full-text search and retrieval system including full Boolean searching techniques and powerful ad hoc reporting capability using 19 basic commands, provides an easy search capability for the library user. Through menu options, the user scans indexes, eliminating the need for a card catalog.

BiblioTech provides support for the on-line catalog, quality indexing and abstracting for better retrieval, a more timely catalog and indexes, better current awareness services, a better-managed collection, and full Boolean search capabilities to information resources and to fields of data in the data base. For the technical or company library with diverse and unique information resources that need to be in a single data base, this system provides a simple and cost-effective solution.

A version of this product is available for the VAX computer.

Price: \$15,000 – \$31,000

Contact: Lynda W. Moulton
(617) 897-7163

COMSTOW INFORMATION SERVICES
302 Boxboro Road
Stow, MA 01775

DocuSearch Full Text-Retrieval System

Operating System: RSTS

Keywords: • Data base management • Query facilities
• Report writer • Research

DocuSearch is a rapid text-retrieval system that stores the full text of any length document. As many as 33,000 documents per data base can be stored on the PDP-11 series; VAX storage is virtually unlimited. When the data base is built by DocuSearch, a dictionary is automatically created. The dictionary is used to quickly complete searches without the need to process the actual text of the documents.

DocuSearch accurately performs searches on occurrences of a single word or complex strings, such as “word A and/or word B,” root word inquiries, phrase, and proximity searches. In addition to free-form text, DocuSearch allows fixed-format fields that can be used for selection, sorting, and tabular reports.

DocuSearch produces a list of the documents meeting search criteria. The user decides which documents to review. DocuSearch browses smoothly through the documents, both forward and backward, traveling from one document to another on command. DocuSearch highlights search words as they appear in the document. Selected documents can be reviewed on the CRT screen, then printed if a hard copy is required.

A version of this product is available for the VAX computer.

Price: \$14,500

Contact: Ralph S. Trigg, Jr.
(505) 842-1274

AUTOMATED OFFICE SYSTEMS, INC.
P.O. Box 100
Albuquerque, NM 87103

Everhart/Hoffing RSX Collection

Operating System: IAS, RSX

Keywords: • Disk utilities • Presentation aids
• Programming tools

This is a collection of useful and interesting utilities, subroutines, and games for use with RSX-11M. The software is generally documented in README and .HLP files and is intended for use by experienced programmers.

The collection includes a utility to list BRU tapes (BRUDIR), a high-speed magtape to disk/disk to magtape reproduction program that uses disk container files (BIGTPC), an updated version of DDT22, multifile virtual disk support, a maze game, and assorted other software.

No guarantees are made as to the completeness, usability, or quality of the programs on this tape. The material has not been checked or reviewed by DECUS, and documentation may or may not be included.

Documentation is on magnetic media. DECUS number 11-SP-34.

A version of this product is available for the VAX computer.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Grom Hayes Library Automation Systems

Operating System: RSTS

Keywords: • Data base management • File management
• Inventory

The Grom Hayes Library Automation Systems include some 60 programs that catalog material, control inventory, and maintain circulation records. Cataloging may be by printed cards (CATCAR-CARDS) or printout (SIMCAT-SEARCH). Circulation control includes automated overdue notices and reminder notices and has a daily report program. Inventory includes library equipment, AV equipment and software, books, magazines, and pamphlets.

Price: No charge

Contact: Larry W. Yother
(203) 527-4111

HARTFORD STATE TECHNICAL COLLEGE
401 Flatbush Avenue
Hartford, CT 06105

GS-2000 Circulation Control System

Operating System: RSX

Keywords: • Data collection • Information management
• Statistics

Gaylord's distributed-processing approach to circulation offers libraries the benefits of an automated system without the need for on-site programmers or operators. The GS-2000 eliminates the tedious repetitive tasks of carding returned items and overdue-notice production. A light pen attached to a terminal is used to scan item and patron labels. File updating automatically generates daily, monthly, and yearly circulation and patron reports. Overdue notices and interlibrary loan statistics are produced weekly. Libraries sharing the same DIGITAL minicomputer can take advantage of a sophisticated ILL system. The computer searches for ILL requests and alerts the owning library of the request, eliminating multiple forms and endless delays.

Management reports and statistics provide a detailed view of activity within specific locations. Circulation and usage reports are broken down by material type, call number group, and patron type as detailed as the library requires.

The GS-2000 offers libraries circulation control, reduced clerical effort, and improved resource sharing.

Price: Available upon request

Contact: Margaret A. Trinca
 (315) 457-5070 ext. 211 or (800) 448-6160
 GAYLORD BROS., INC.
 P.O. Box 4901
 Syracuse, NY 13221

REF-11

Operating System: MS/DOS, RSX, RT-11, TSX-PLUS

Keywords: • Data base management • Data entry • Research
 • Text management

REF-11 is a data base management system for references. A data base of references can be created, searched, updated, and output in various forms. The operation is selected from a menu that appears when the "REF" program is run.

Many advanced features normally found in highly priced software have been included in REF-11 to make the system as user friendly as possible. All major defaults can be set by the user and changed at any time. A menu-driven dialog makes REF-11 easy to use even for inexperienced computer users.

The data base of references may be distributed among any number of references volumes (data files). Variable-length direct-access records are used within a reference volume to store the reference information. That format is as fast as fixed-length direct-access storage and uses less space than a text file would to store the same information.

REF-11 uses full-screen data entry to create new references or to update existing ones. The user uses the cursor keys to move between data fields. If the terminal does not have cursor keys, any character sequences can be defined to be the cursor keys.

References can be located within a reference volume by searching for any combination of authors, years of publication, reference title (or any words in the title), and topics covered by the reference. Wildcards may be included in any of the search parameters. In addition, a reference may be located by a unique ID number assigned by the REF-11 system when the reference is created.

REF-11 can produce many different listings of the references in a reference volume. They may be sent to any device or file on the computer system. The references included in the listing may be all of the references in a volume, just user-specified ID numbers, or just the references that meet search parameters. Optionally, the references can be alphabetized in the listing.

One of the most powerful and unique features of the REF-11 system is the formatted bibliographic listing. The bibliography is formatted exactly as the user wants it. The page size, line spacing, punctuation, and format of the bibliography are controlled by the user. References can be alphabetized. Journal titles can be abbreviated from user-defined tables.

An optional utility program can read a paper, insert reference citations in the paper, and prepare a bibliography of the references cited. The bibliography may be included at the end of the paper. Another utility program can read references from text files and store them in REF-11 reference volumes.

REF-11 will run on any 80-column 24-line video terminal with direct cursor addressing and with any printer. Up to 10 terminal types can simultaneously be supported on a computer system.

A version of this product is available for the VAX computer.

Price: \$175 - \$230

Contact: Robert Parker
(203) 247-8500
DG SYSTEMS
322 Prospect Avenue
Hartford, CT 06106

ULISYS

Operating System: RSTS

Keywords: • Data base management • Purchasing
• Report writer

ULISYS, a turnkey management information system for libraries, consists of a set of complex computer programs and computer hardware. The program includes all relevant software for the creation, maintenance, backup, and recovery of all files, which combine to form the ULISYS data base.

Circulation control consists of the following functions: check out/check in, fines management, holds (reserves) management, message storage and retrieval, interbranch/interlibrary loans, activity status reporting, reserve book room, search, subject and name authority files, recall, and information and referral.

ULISYS includes on-line public access, with comprehensive instructions to assist inexperienced users in locating sought-after material.

The system is also available on a "software-only" basis.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: J. A. Speight, President
(604) 926-7421

UNIVERSAL LIBRARY SYSTEMS

205-1571 Bellevue

West Vancouver, British Columbia V7V 1A6

Canada

Management



POSITIVE IMAGES/Jerry Howard

AIM Benchmark — Suite I

Operating System: ULTRIX, UNIX

Keywords: • Decision support • Diagnostics • Research

Suite I provides nine distinct tests consisting of shell scripts with C programs for portability to a wide range of hardware configurations. AIM Benchmark Suite I measures the various aspects of UNIX* system multiuser performance and end user throughput, including evaluation of command completeness and C compiler efficiency, evaluation of performance under simulated multiprocess editing and sorting tests, CPU looping speed, and throughput measurements of system components vital to the performance level of the multiuser environment.

With more than 150 major corporations licensing AIM Benchmarks, Suite I has become the industry standard for comparing UNIX* systems performance, evaluating UNIX* systems before purchase, providing a progress monitor/management aid during UNIX* system development/integration phase, and examining system tuning effects.

AIM Benchmark Suite I is provided on a 9-track, 1,600 bpi, "TAR" formatted tape, with user documentation and sample benchmark results from VAX/750, VAX/780, and PDP 11/70 for comparison. Suite I runs in approximately 45 minutes on an unloaded VAX/750 and produces about 15 pages of report output. Summaries from previous runs can be replotted for comparison. Output is suitable for line printer or screen. Additional tests can easily be created, using similar report formats.

The minimum system configuration for running Suite I requires a track tape drive, UNIX* operating system, 200K bytes memory, and shell, awk, sed, and join system calls.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer

Price: \$1,650

Contact: Jamie Mendez
(408) 727-3711

AIM TECHNOLOGY, INC.
4655 Old Ironsides Drive, Suite 390
Santa Clara, CA 95050

AIM Benchmark — Suite II

Operating System: UNIX

Keywords: • Data collection • Decision support • Purchasing

The two Suite II C programs, QBENCH and SELECT, perform measurement tests and generate reports. Additionally, 10 text files define useful evaluation criteria, a make file, and a shell script for generating executive summaries.

QBENCH steps through 36 extensive tests measuring various important hardware/system functions. Each test is run for 2 to 20 seconds until a stable time is measured, and three repetitions of each test are averaged for final reading. As QBENCH progresses, the results of each performance test are displayed on the console screen. Typically, QBENCH takes 10 to 20 minutes of single-user time to compile and develop all measurements and then prints the raw data obtained in report form.

After printing the performance report, QBENCH automatically appends the results to a cumulative data base "qoutput." Data in "qoutput" can be evaluated immediately, or the user can run QBENCH on additional systems to augment the data base before comparison.

The Suite II report generator (Select) evaluates up to 20 systems simultaneously from the data base. Evaluation is controlled by specifying "application mixes to consider." Ten predefined mix files are supplied with Suite II, reflecting typical vendor procurement considerations.

For each mix considered, two supporting reports can be printed: a system-by-system point ranking, and a test-by-test Kiviat diagram. The executive report generator (View) encapsulates everything into a single printer plot displaying for each named system its projected performance range.

AIM Benchmark Suite II is provided on a 9-track, 16 bpi TAR formatted magnetic tape. The tape is a System III, System V, Version 7, and Berkeley 4.1, 4.2 compatible. All source is written in plain, portable C; scripts are written for the Bourne shell. Systems to be tested need as a minimum a C-compiler with floating point; the fork, getpid, and umask system calls; 72K bytes memory; a 60 Hz system clock, and 1,500 blocks of temporary disk space. The system used to generate evaluation reports additionally needs C-library with sine and cos, Bourne shell and sed command, and a character or line printer.

A version of this product is available for the VAX computer.

Price: \$3,450

Contact: Jamie Mendez
(408) 727-3711

AIM TECHNOLOGY, INC.
4655 Old Ironsides Drive, Suite 390
Santa Clara, CA 95050

Apartment Management System

Operating System: RSTS

Keywords: • Property management

This system provides full and accurate management of apartment complexes. It allows the entering, updating, and listing of property, tenant, and apartment data. The program posts accounts receivable and payment and facilitates the distribution of delinquency letters.

Price: \$3,000 – \$5,000

Contact: Robert Davidson
(215) 836-1406

TIME SHARING CONSULTANTS OF
PENNSYLVANIA, INC.
6107 West Mill Road
Flourtown, PA 19031

ASAPMS Project Management System

Operating System: RSTS, RSX, RT-11

Keywords: • Decision support • Project management
• Scheduling • Simulation

ASAPMS is a comprehensive, state-of-the-art project management system designed to be used from project inception to completion. The system plans schedules, compares the project plan with job performance, and forecasts the schedule of work remaining. ASAPMS offers four independent scheduling systems: Critical Path Method (CPM), Precedence Method (PDM), Statistical Analysis (PERT), and Progress Chart (nonnetworking system).

ASAPMS provides invaluable assistance to system developers, scheduling engineers, researchers, and others. ASAPMS adapts to diverse corporate procedures, project structures, and reporting requirements.

ASAPMS can be used on all PDP-11 and VAX computer systems and most of DIGITAL's PDP-11 and all VMS operating systems. ASAPMS efficiently uses computer resources and works in a stand-alone, remote, batch, or networking environment. Programs are multiuser and multifunctional. Output devices, including CRT terminals and printers, are supported.

Each PDP-11 system contains three programs: the Time Analysis program and the optional Cost and Resource programs. Each VAX system contains five programs: the mandatory Time Analysis program and the optional Cost, Resource, Graphics, and Multiproject programs.

The user describes the work via the on-line editor, and the Time Analysis program stores project data on disk, calculates the project schedule, and displays the work schedule on terminal, printer, or (for VAX) plotter. The Time Analysis program contains an on-line editor, an invisible data base management routine, a schedule computation processor, and a report generator that produces project schedules, bar charts, and target (variance) reports.

ASAPMS integrates time, resource, and cost analysis into a single system. All programs are modular, separate, and compatible. The system allows the user to select modules based on current needs. The system can be later expanded. Inexpensive modifications, based on customer specifications, are available.

Each system can be enhanced with expansion routines.

A field-proven package, ASAPMS has been used for more than 15 years on projects worth billions of dollars. ASAPMS can be installed and made fully operational in less than one day.

Sales of ASAPMS are backed up by thorough documentation and educational support, both pre- and postpurchase. User support includes a well-trained, knowledgeable technical force; self-teaching tutorial manuals, and continued efforts to educate the users via seminars. Each ASAPMS includes a 1-year free consulting and maintenance contract.

A version of this product is available for the VAX computer.

Price: \$9,000 – \$27,000

Contact: Andrew Sipos, Manager
(212) 321-2408

ASA-ANDREW SIPOS ASSOCIATES
355 South End Avenue
26B Gateway Plaza
New York, NY 10280

EQUUS-11

Operating System: CTS-300

Keywords: • Agriculture • Biology • Medical

EQUUS-11 is a complete ranch management system designed and developed specifically for horse breeding ranches. EQUUS-11 includes the following features and capabilities:

- **Horse Information:** Complete information, such as sire, dam, dam's sire, date of birth, horse type, color, tag number, location, covering stallion, foal information, and so on is maintained for use throughout the system.
- **Breeding Activity Scheduling:** All future activity is entered and maintained by the system. The system will automatically report on the daily schedule at the proper time.
- **Daily Activity Maintenance:** On a daily basis, all breeding activity is entered as performed, nonperformed, or rescheduled. The daily schedule is automatically prepared, based on the future activity file and any previous activities that were rescheduled. Billing information may be entered at this time or maintained separately.
- **Breeding Activity History:** All detail activity is maintained for each horse for as long as desired (providing there is enough disk space). History reports by individual horse or grouped by owner can be printed at request.
- **Owner Acknowledgments:** Any breeding activity that is marked for acknowledgment during data entry will cause a written notification to be automatically generated for the horse owner.
- **Invoicing:** Invoices are printed monthly, upon request, or at horse departure. Daily charges are automatically calculated.
- **Annual Breeding Reports:** A general breeding report is provided, as well as certain custom reports for the major horse associations.

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- **Futurity Payables:** A complete subsystem is provided to keep track of individual horse entries into the different futurities. This system will remind the owner of futurity payments and save expensive penalties. Actual check generation can be accomplished by interfacing with Accounts Payable.
- **Horse Earnings Report:** This report allows profit analysis of each horse by comparing the lifetime earnings against cost.
- **Interface to Accounting Systems:** EQUUS-11 interfaces with OMS's General Ledger, Accounts Receivable, and Accounts Payable systems. Payroll is also available for the ranch's expanded needs.

Price: \$4,500 – \$9,000

Contact: David Darter, V.P., Programming and Customer Support
(405) 282-1528

OKLAHOMA MANAGEMENT SYSTEMS
8404 Blackberry Ridge
Edmond, OK 73034

FINAR (Financial Analysis and Reporting System)

Operating System: RSTS, RSX

Keywords: • Financial analysis • Financial planning
• Simulation • Spreadsheets

FINAR is a financial modeling system designed for use by business professionals to perform financial analysis and planning. FINAR is as simple to use as an electronic spreadsheet yet contains many advanced features. FINAR is especially efficient and easy to use in automating budgets in which the detail is maintained at cost center level, then consolidated to several levels for reporting and analysis. FINAR includes the standard financial functions such as discounted cash flow, net present value, the full range of depreciation routines, internal rate of return, and so on. Data may be accessed from an existing data base or another model. FINAR includes an on-line tutor that includes 10 terminal learning sessions. Telephone support is available.

A version of this product is available for the VAX computer.

Price: \$995 – \$9,800

Contact: Jim Hotze
(713) 664-1172

FINAR SYSTEMS LTD.
6101 Southwest Freeway, Suite 406
Houston, TX 77057

FINGRAPH

Operating System: CTS-300, RSTS, RSX

Keywords: • Decision support • Financial analysis • Graphics
• Manufacturing

FINGRAPH, a visual management support system, provides instant graphic pictures of your business performance. With FINGRAPH, key business trends and relationships can be communicated companywide in visual forms understandable by people at all levels of the organization. The FINGRAPH system lets you define and present financial statements, schedules, and operational data in standardized graphic formats. Using FINGRAPH's sequence of charts, you can search deep into your data and acquire a better understanding of your ongoing business opportunities and problems. As data changes over time, FINGRAPH generates new information as you update your data base, in the same standard style and scale for direct one-to-one comparison.

The graphic formats produced by the system are based on the research of Irwin M. Jarett, Ph.D., C.P.A. Standard computer graphic techniques use the mind's ability to remember visual patterns and to recognize changes in those patterns as they occur. The consistent presentation of patterns permits the busy executive to review massive amounts of information quickly, accurately, and with a better understanding of the relative importance of each business activity. Trends and relationships can be quickly seen and communicated with FINGRAPH.

FINGRAPH applications are numerous. The system presents financial results, quality-control data, spreadsheet analysis data, manufacturing data, marketing data, or any other performance data. With the use of DIGITAL's DATATRIEVE or other report writers and FINGRAPH's linkage module, virtually any type of data can be easily extracted from user application files and formatted for FINGRAPH's immediate use.

A version of this product is available for the VAX computer.

Price: \$2,200 – \$11,300

Contact: Mark Hoffman, Vice President
(217) 793-0884

FINGRAPH CORP.
960 Clock Tower Drive
Springfield, IL 62704

FLIP: A Computer Program for Fuzzy Reasoning

Operating System: RT-11

Keywords: • Computer-aided instruction • Mental health
• Statistics

Memory required: 42K.

This interactive computer program for use at a screen terminal implements the procedure proposed in "A Formal System for Fuzzy Reasoning" (*Fuzzy Sets and Systems*, to appear). The problem is to decide what conclusions may be drawn in the presence of possibly conflicting evidence. Conclusions are drawn with associated partial degrees of belief, by several sources of differing reliability. Each piece of evidence is entered as a sentence (using the terms NOT, AND, OR, IMPLIES as

necessary), with an associated “degree of belief” and “weight,” followed by a tentative conclusion. The program provides the degree of belief and weight that rationally may be attached to the conclusion.

The program is written in FORTRAN (868 lines, compatible with FORTRAN IV and FORTRAN V). FLIP has been used on the PDP-11/03, RT-11 version. The program is described in “A Computer Program for Fuzzy Reasoning” (submitted to *Fuzzy Sets and Systems*). DECUS number 11-409.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

GBMS (General Business Management System)

Operating System: RT-11, TSX-PLUS

Keywords: • Accounting • Inventory • Order entry
• Purchasing

This software interactively manages order entry, inventory control, billing, purchasing, accounts receivable, accounts payable, payroll, general ledger, financial reporting, and word processing.

Price: \$6,000 – \$12,000

Contact: Harmon Houghton, Director of Marketing
(201) 348-6688

UNEX COMPUTER DIVISION
1023 Boulevard East
Weehawken, NJ 07087

GENSIM-IMPRS Financial Simulator

Operating System: RSTS, RSX, RT-11

Keywords: • Calculation aids • Financial analysis
• Report writer • Simulation

GENSIM-IMPRS is a general simulation package that utilizes the relational data base, provides hierarchical independence and freedom in establishing the model, and provides total interactive model calculation and maintenance. GENSIM features a full set of amortization and depreciation commands, flexible graphic display and multiple plot commands, growth and factor commands, year-to-date and period-to-date commands, flexible model initiation commands, flexible model updating, discounted rate of return command, and correlation of historical data and forecasting with the use of resulting regression equations. Reporting features include multiple report and format capability, unlimited report comments, multiple cross-totals and reporting, flexible report heading and descriptions, and report outlining capability.

Price: \$3,500

Contact: Elvin E. Smith or Forrest E. Weddle
(913) 782-8544

RUF CORP.
1533 E. Spruce
Olathe, KS 66061

Key Conversational Planning System

Operating System: CTS-300, RSX, RT-11

Keywords: • Inventory • Process control • Scheduling
• Simulation

This system embodies linear programming, simulation, and nonlinear programming. Key is completely interactive, letting the user project time forward, optimize based on future conditions, make conditional changes, and reoptimize.

Key is the only interactive simulating and optimizing system in the industry. Major areas of application are logistics, scheduling, blending, raw material selection, process optimization, purchase and sales option selection, and inventory tracking.

The Inventory Exploitation options allow a user to track tank compositions, volumes, and costs through time to compute best inventory allocation for blending, shipping, receiving, and processing.

Key has 100- to 500-row LP solving capability, a matrix generator, and a report writer, as well as the ability to simulate process change impacts on downstream inventory through time. Scrolling of data tables and reports is standard. Interactive data changing and data entry speed the solution process.

A version of this product is available for the VAX computer.

Price: \$23,750 - \$32,000

Contact: W. G. Welter
(713) 373-1905

ADVANCED MANAGEMENT TECHNOLOGIES
Box 71
Cypress, TX 77429

L/P (Labor Performance)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Data entry • Employment • Payroll • Statistics

L/P is a vital tool for identifying productivity problems and improving labor utilization. The program permits easy, efficient entry, tracking, editing, and reporting of employee labor performance statistics and earnings. The accuracy of data posted to MCBA's Payroll package is effectively monitored through L/P.

550 Management

The package accesses all features through convenient menus, allows reports to be optionally spooled for display or later printing, provides for multiple companies, and controls access to data with a security system. L/P provides for centralized data entry of labor transactions. Labor can be broken out into direct and indirect status. The program generates payroll attendance records for use in calculating payroll and provides for incentive pay. L/P supports clock card entry and editing and prints the Labor Performance Report, showing an analysis of each employee's and foreman's performance and productivity. The program reports on salaried employees as well as on incentive earnings, supports crew labor reporting, and provides for the entry of regular, overtime, and doubletime wages.

L/P interfaces with MCBA's Payroll (PR), Shop Floor Control (SFC), Job Costing (J/C), Standard Product Routing (SPR), and Inventory Management (I/M) packages.

A version of this product is available for the VAX computer.

Price: \$2,500 – \$4,000

Contact: Sales Representative
(818) 957-2900

MCBA, INC.
2441 Honolulu Avenue
Montrose, CA 91020

LP (Linear Programming)

Operating System: RSTS, RSX, RT-11

Keywords: • Decision support • Distribution • Mathematics
• Simulation

LP performs a mathematical programming function (analysis) on a given matrix of data. LP allows the use of $<$, $=$, $>$ constraints and outputs a message to the user of a feasible, infeasible, or unbounded solution. LP permits a matrix of up to 5,000 variables and solves a wide range of business and engineering problems, including product mix, scheduling, distribution, forecasting, marketing, government efficiency, and production planning.

A version of this product is available for the VAX computer.

Price: \$4,200

Contact: Jon Prescott
(707) 446-8139

J & S ASSOCIATES
130 Palisades Court
Vacaville, CA 95688

Management Case Studies

Operating System: RSTS

Keywords: • Project management • Simulation

Memory required: 8K.

These 12 BASIC-PLUS programs illustrate business management operations and are based on examples from the book *Computer Augmented Cases in Operations and Logistics Management* by William L. Berry and D. Clay Whyback, published by South-Western Publishing Company. The programs included simulate the operations of seven companies. DECUS number 11-56.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

MANEX (Manpower Expenditure Recording)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Billing • Cost accounting • Employment
• Personnel

MANEX provides control and analysis of manhours booked to projects and overheads within a company or department. This project management computer system can be applied in any project- or cost center-oriented organization.

The principal input document is a weekly timesheet prepared by each person. A range of reports can be generated, giving the weekly and cumulative manhour totals by project, overhead, section, activity, and staff agency. In addition, project billing and department costing reports can be produced.

MANEX is an easy-to-use interactive system containing many on-line data checks to minimize errors. It contains an integral backup program to provide file security and passwords to restrict access to sensitive information.

The MANEX coding scheme can be tailored to codes already in use as part of an implementation charge.

A version of this product is available for the VAX computer.

Price: £1,500 - £3,000

Contact: Martin Barnes, Director
061-439 6639 or Telex: 666650
PROJECT SOFTWARE LTD.
Foden Lane, Woodford
Stockport, Cheshire SK7 1PT
United Kingdom

MAPPS (Management and Project Planning System)

Operating System: RSX, UNIX

Keywords: • Construction • Engineering
• Facilities management • Project management

MAPPS is a management and planning control tool. Input has been simplified for user ease, and output is extensive and user controlled. The program features user-friendly operating procedures. A central feature of the system is the extensive control that the user has over the output reports. A unique Select-Sort-Report procedure gives the manager total flexibility with respect to both the content and the format of all reports.

The program permits use of more than 27 attributes for selecting data and sorts output in more than 26 ways for use in more than 28 report formats. Complete user control over the selection and structuring of reports gives this program unlimited flexibility for the decision-making manager. Great success in both use and reporting has been achieved by users with little prior networking experience.

The user can specify problem size and variables to permit efficient utilization of disk storage space. The program analyzes any arrow or precedence network of up to 32,000 activities. Activities can be scheduled for any number of work days per week (1 to 7); the day of the week that the activity starts and stops can also be specified. Multiple calendars are permitted. The use of precedence networking permits lag scheduling, which simplifies event scheduling. The system also features event data constraints of "Not Later Than," "Not Earlier Than," or "On" user-specified dates. The program can schedule up to 8,000 project days. The user may specify an unlimited number of holidays.

The program permits cost specification per activity, with reports on both estimated and actual values. With field reports based on updated information, the system can be used to provide a variety of management reports comparing initial information to upgraded actual information. A full audit trail of all changes and up to 14 pages of text are part of every update.

The system has an optional utility with complete screen and plotter graphics. Cash flow plots, resource usage plots, and network logic can be displayed on the screen, on the printer, or on the plotter. The plotter produces multicolored plots.

A version of this product is available for the VAX computer.

Price: \$65,000

Contact: Neal B. Mitchell III
(617) 366-0800

STRUCTURAL PROGRAMMING, INC.
2000 West Park Drive
Westboro, MA 01581

MARK III Management System

Operating System: RSX

Keywords: • Financial planning • Graphics
• Project management • Scheduling

MARK III is a comprehensive project management planning, scheduling, and cost control system. Principal outputs include MARK III Schedule Charts and MARK III Resource Graphs, both of which are computer-generated and plotter-produced. Each output is easy to read and may be custom-tailored to meet practically any customer need. Comprehensive and complete project planning is simplified, timely, and accurate. Detailed or summary schedules, resource allocations, and financial requirements are quickly developed and automatically interrelated. Schedule progress, resource consumption, cost commitment or expenditure, earned value, and variance from plan are computer-tracked and automatically highlighted. Schedule inputs and plotter outputs are highly flexible. Through MARK III "direct use," managers are able to work dynamically with all key program variables.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: F. Kavanagh
(818) 782-2900

PROGRAM CONTROL CORP.
7120 Hayvenhurst Avenue
Van Nuys, CA 91406

Membership

Operating System: RSTS

Keywords: • Data base management • Query facilities
• Recruiting • Report writer

This highly flexible membership system permits each organization to develop a system appropriate to its own needs. The system combines routine membership requirements with the latest word and data processing technologies, permitting easy access to data and providing for the dynamic data processing needs of the organization. Because of the variations among membership organizations, the tools provided quickly customize features needed for membership. The system includes data base management, membership mailing lists, dues accounting, conferences and annual meetings, exhibition management, and word processing.

No longer do you have to ignore entry and display screens planned for other requirements. Furthermore, if new requirements occur after system installation, it is not necessary to call for programming assistance. The system can be expanded by adding new data elements to the data dictionary.

Each time new data elements are added or changed, the data base management system automatically adjusts the files. Existing data entry and display screens are edited in minutes, permitting immediate access to new information. Similarly, existing reports can be edited quickly.

A version of this product is available for the VAX computer.

Price: \$3,000 – \$5,000

Contact: Charles Calvert
(301) 296-9032

SMITH, ABBOTT, AND COMPANY, INC.
300 E. Joppa Road
Baltimore, MD 21204

Mini-DYNAMO

Operating System: IAS, RSTS, RSX, RT-11, ULTRIX, UNIX

Keywords: • Compilers • Decision support • Energy
• Simulation

DYNAMO is a continuous simulation language that has been extensively used in the modeling of industrial, social, economic, and engineering systems. Mini-DYNAMO is designed to provide all the basic DYNAMO features. The language is easy to learn and therefore quite useful in educational environments.

Model construction is simplified through several DYNAMO features. Equations may appear in any order to facilitate documentation; commonly used functions are built in; debugging is simplified through extensive error checking with clear error messages; and the RERUN capability permits repeated simulations, each with different parameters, without recompiling.

Mini-DYNAMO is available on magnetic tape or, for PDP-11V03s, MINCs, or similar LSI-11-based systems, on floppy disks.

Educators interested in applications of DYNAMO at the high school or college level may be interested in related publications available from the vendor.

A version of this product is available for the VAX computer.

Price: \$1,500 – \$3,000

Contact: D. Ross Hunter
(617) 864-8880

PUGH-ROBERTS ASSOCIATES, INC.
Five Lee Street
Cambridge, MA 02139

MIS (Management Information System)

Operating System: RSTS

Keywords: • Data conversion • File management

Memory required: 11K (may be made smaller).

MIS takes a file of fixed-length records and produces another file of fixed-length records, which is the first with subsets and/or sorts. DECUS number 11-89.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

PAC I®

Operating System: RSTS, RSX

Keywords: • Project management • Scheduling • Simulation

PAC I is an interactive, PERT/CPM-oriented system. The two main functions of this system are planning (simulation) and management (control). The planning function permits the planner to simulate new situations, changes, and updates rapidly and without altering the master project file. The management function permits rapid updating with progress, cost, and scheduling information. With PAC I, the project manager can analyze various courses of action before work begins and as work proceeds, respond to unexpected developments with new schedules. The system can be used to plan an entire project, activities of the project in a certain category or department, activities within a specified time window, and in other ways. Progress information can be reported in any cycle. The system is easy to use; a planner has total flexibility, and information can be gathered and adjusted at any time. The first year of maintenance is included in the purchase or lease. PAC I can be installed in ten minutes, and the user can start product planning after one day's training. PAC I requires 32K minimum memory.

A version of this product is available for the VAX computer.

Price: \$9,750

Contact: Lawrence M. Light
(215) 265-1550

AGS MANAGEMENT SYSTEMS, INC.
320 Walnut Street
Philadelphia, PA 19106

Parts Inventory System

Operating System: RSX, RT-11

Keywords: • Inventory • Maintenance • Materials handling
• Purchasing

This system provides a tool for controlling quantities of parts that may be used in equipment maintenance and repair. The system provides reports of current inventory, low-stock items, and low-stock items by vendor. The system also supports many other useful functions.

A version of this product is available for the VAX computer.

Price: \$3,000 – \$5,000

Contact: Ralph M. Flanders, President
(615) 966-6832

CUSTOM COMPUTER SOFTWARE, INC.
1108 Woodshire Drive
Knoxville, TN 37922

PROFITKEY® Job Shop System

Operating System: RSX, ULTRIX, UNIX

Keywords: • Employment • Personnel • Production control
• Scheduling

The PROFITKEY Job Shop System is a proven management tool that provides the user with the up-to-date information needed to more effectively plan, schedule, and control the manufacturing resources to achieve better efficiency and higher profits.

PROFITKEY is a highly interactive, easy-to-use system that is designed to be installed and used by a job shop without requiring additional personnel. No computer expertise is required to implement and operate the system. From small job shops to major machine shops, PROFITKEY has provided the solution to delivery problems, shop floor control, and company productivity.

PROFITKEY is designed in modular fashion to meet the unique requirements of each user. The modular design brings a complete information system within economic reach of smaller companies and allows the user to expand in a planned and orderly fashion.

A version of this product is available for the VAX computer.

Price: \$6,000 – \$24,000

Contact: W. W. Dockins
(305) 743-7400

KEY SYSTEMS, INC.
Box 1319
Marathon, FL 33050

Purchase and Supply Control

Operating System: RSTS

Keywords: • Distribution • Inventory • Manufacturing
• Purchasing

This system controls the purchasing and stock replenishment for manufacturing and distribution companies. The largest military aircraft manufacturer in Europe uses the system to control an annual spend in excess of \$2 billion. PDP-11 and VAX versions are available to suit a wide range of companies.

A version of this product is available for the VAX computer.

Price: \$20,000 – \$100,000

Contact: Dr. E. A. Haworth
01 248 7100

M.C.S.

3, Wynnsly Grove
Fallowfield, Manchester
United Kingdom

QDMS (Quodata Data Management System)

Operating System: RSTS

Keywords: • Data base management • Education
• Information management • Report writer

QDMS allows instant access to vital information by anyone, at minimal cost. Not so much a solution as a tool, QDMS is the result of many years of experience integrating the needs of users with computer power to produce solutions that are efficient and easy to use. New insights on data manipulation and programming techniques produce a comprehensive information management system that is flexible and reliable. Features include minimum hardware cost, instant reports, generalized report generator, multikey and update, English-language dialog, video screen creation, global updating, on-line or batch control, flexible data entry, fast sort, validity checking, linked file data structure, field-by-field protection, and multiple data types.

A version of this product is available for the VAX computer.

Price: \$19,500

Contact: NancyLou Rapp
(203) 728-6777

QUODATA CORP.
266 Pearl Street
Hartford, CT 06103

RISKAN1/RISKAN2

Operating System: RSTS, RSX, RT-11

Keywords: • Decision support • Financial planning
• Simulation • Statistics

RISKAN1 provides a business executive with simulation capabilities and analytical information about strategic planning and/or inventory planning. Specifically, the program allows the business executive to analyze and/or compute the expected risk of a proposed product line diversification or company acquisition in terms of the size of the market, the size of the company's investment commitment, and a perceived level of competition — either none or an estimated market share of each competitor — before and after the proposed business venture. The decision maker can also look at manufacturing concerns such as material planning or machining operations in a quality-control sense. The output of the analysis may include an estimate of the numerical risk

involved, accompanied by an appropriate recommendation about whether to diversify, and various risk profiles for additional information.

Using this business planning tool, the executive can input a data file and simulate different what-if hypotheses concerning, for example, the chances of a successful new-product introduction in a highly competitive marketplace or how the chance of success in a specific market varies with the number of competitors or market share. Graphical output is available to illustrate in an analytical fashion some such relationships. RISKAN1 allows the business executive to simulate the decision-making process under conditions of uncertainty.

In addition, RISKAN2 provides detailed risk analyses for standard spreadsheet-type accounting (financial analyses), including risk profiles.

A version of this product is available for the VAX computer.

Price: \$5,000 – \$7,500

Contact: Jon Prescott
(707) 446-8139

J & S ASSOCIATES
130 Palisades Court
Vacaville, CA 95688

SDBM (Stand-Alone Data Base Management)

Operating System: RSTS

Keywords: • Data base management • Diagnostics

SDBM is a simple, economical data base management package that is flexible in application and sound in design. SDBM is composed of basic, powerful programs and is capable of everything from data base construction to specialized maintenance function. SDBM also has an extensive error detection and recovery capability.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Muriel King
(801) 224-5306

CLYDE DIGITAL SYSTEMS, INC.
3707 N. Canyon Road, Suite 3-E
Provo, UT 84604

SIBYL/RUNNER Interactive Forecasting System

Operating System: RSTS

Keywords: • Decision support • Financial planning
• Query facilities • Statistics

This comprehensive package of programs for time-series analysis and forecasting consists of 20 time-series techniques and provides these essential forecasting functions: screening of alternative forecasting techniques and identification of methodologies most appropriate for a given situation and application of individual methodologies to a specific forecasting problem.

SIBYL/RUNNER reads raw data from a file or from data typed in at a terminal and performs a preliminary analysis of the data. Available analytical techniques include autocorrelation analysis, cyclical identification, and moving average transformations.

The user can, however, override the suggestions and apply any of the 20 available forecasting techniques. Those include Box-Jenkins; classical and Census II Seasonal Decomposition; generalized adaptive filtering; Harrison's harmonic smoothing; time-series multiple regression; exponential smoothing; comparison and combination of the results obtained from the application of different forecasting methods; data management, such as file creation, file editing, transformation of variables, and graphing; single and linear moving averages; curve fitting; and trend analysis.

The results obtained from applying those forecasting methods are summarized and reported to aid the forecaster in evaluating alternative techniques. The user can review and correct for cyclical patterns in the data with manual overrides to the final forecast.

A version of this product is available for the VAX computer.

Price: \$1,000 – \$15,000

Contact: Tim Davidson
(617) 861-7580

TEMPLE, BARKER & SLOANE INC.
Applied Decision Systems
33 Hayden Avenue
Lexington, MA 02173

VUE

Operating System: RSTS, RSX, RT-11

Keywords: • Cost accounting • Data entry • Graphics
• Project management

VUE is an interactive project management system that provides a convenient tool for planning and managing complex projects. VUE performs critical path analysis for projects with up to 3,000 activities and tracks scheduled resources and costs. VUE performs very well in environments where multiple on-and/or off-site users need program access. The menu-driven user interface allows easy data entry, modification, and report selection. Reporting is done on CRTs, printers, or optional graphics plotters.

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The VUE system is self-teaching and easy to install. Reports include schedules, progress to date, current work to be accomplished, bar charts, cost and resource accounting, network precedence diagrams, activity time analysis, predecessors, and calendar specifications. The network precedence diagram is clearly, graphically visualized. The VUE Bar Chart and Precedence Network Diagram reports can be printed on a line printer or 132-column terminal or directed to plotter devices such as CalComp. Extra-cost options include plotter graphics output and multiproject capability. VUE can be used in construction, engineering, research, computer systems planning, custom manufacturing, and so on.

A version of this product is available for the VAX computer.

Price: \$5,000 – \$23,500

Contact: Scott Carpenter
(408) 257-7700

NATIONAL INFORMATION SYSTEMS, INC.
20370 Town Center Lane, Suite 130
Cupertino, CA 95014

Manufacturing



Janice Fullman/The Picture Cube

AIM (Automated Industrial Monitoring)

Operating System: RSX

Keywords: • Data collection • Energy
• Facilities management • Process control

AIM is a set of real-time data acquisition and control programs used for automating industrial processes. AIM is a supervisory and control system that scans, alarms, logs, and provides closed-loop control of the industrial process.

The system is defined by using a fill-in-the-blanks language that specifies plant inputs, control outputs, and any special calculations and logic procedures. The package uses color graphic displays and operator keyboard consoles to allow plant operator control and easy access to plant data. Optional software packages are available to further enhance AIM's capabilities.

For users requiring special applications, AIM provides FORTRAN subroutines to access the complete data base, thus allowing interaction with standard processing. Since AIM makes no modification to the operating systems, benefits are realized by its upward compatibility to DIGITAL's current operating system level.

A version of this product is available for the VAX computer.

Price: \$36,000 – \$40,000

Contact: G. D. Newman
(713) 789-8880

BILES & ASSOCIATES
7207 Regency Square, Suite 250
Houston, TX 77036

AIM Batch (Automated Industrial Monitoring)

Operating System: RSX

Keywords: • Chemical • Data collection • Process control
• Real time

AIM Batch is a real-time logic processor used to monitor and control batch or semicontinuous industrial processes. AIM Batch is a supervisory and control system that scans, alarms, logs, and provides closed-loop control of the process.

AIM Batch uses a simple fill-in-the-blanks language and CRT-prompted communications to allow nonprogrammer process engineers to easily define and modify batch sequences and recipes. The system uses color graphic displays and operator keyboard consoles to allow plant operator control and access to plant data. Optional software packages are available to further enhance AIM Batch's capabilities.

For users requiring special applications, AIM Batch provides FORTRAN subroutines to access the complete data base, thus allowing interaction with standard processing. Since AIM Batch makes no modification to the operating systems, benefits are realized by its upward compatibility to DIGITAL's current operating system level.

A version of this product is available for the VAX computer.

Price: \$45,000 – \$50,000

Contact: G. D. Newman
(713) 789-8880

BILES & ASSOCIATES
7207 Regency Square, Suite 250
Houston, TX 77036

AIMS (Advanced Integrated Manufacturing Systems)

Operating System: UNIX

Keywords: • Bill of materials • Inventory • Scheduling
• Shop floor control

AIMS is a manufacturing management information system. The package is designed in modules and can be installed as a total system or piecemeal; other modules may be added as and when required.

Originally designed to run on microcomputers (PDP-11 micro and Rainbow, for example) in small- to medium-size operations, the software is available for a variety of operating systems.

Free updates, a toll-free support line, on-site installation and training, and limited customization are provided.

Price: \$6,000 – \$26,000

Contact: Ram Todatry
(312) 850-7244 or (800) 323-6885

MARTEK, INC.
825 N. Cass Avenue
Westmont, IL 60559

Allen-Bradley Translator Software

Operating System: RSX

Keywords: • Programming tools • Translators

Allen-Bradley Translator Software provides users of Allen-Bradley programmable controllers with a means of documenting programmable controller logic by merging explanatory text comments with ladder diagram displays. Complete cross-reference listings, identification of data table contents, alphanumeric sortings of mnemonics, and graphic representations of I/O usage are also included with each product. When used with NET Communication Software, the user can upload and download programmable controller programs over the Allen-Bradley Data Highway.

A version of this product is available for the VAX computer.

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Price: \$5,000 – \$12,000

Contact: Jim Shanley, Senior Product Engineer
(216) 449-6700 ext. 3866
ALLEN-BRADLEY CO.
747 Alpha Drive
Highland Heights, OH 44143

AMS (Apparel Manufacturing System)

Operating System: RSX, RT-11

Keywords: • Accounting • Order entry • Production control
• Word processing

AMS is an integrated system that manages apparel manufacturing activity, including order entry, cut and sold planning, inventory control, sales analysis, and manufacturing cut control. AMS also manages accounting functions, including billing, accounts receivable, purchasing, accounts payable, general ledger, financial reporting, and word processing.

Price: \$9,000 – \$18,000

Contact: Harmon Houghton, Director of Marketing
(201) 348-6688
UNEX COMPUTER DIVISION
1023 Boulevard East
Weehawken, NJ 07087

APPS/2 (Automatic Part Programming System, Version 2)

Operating System: RSX, RT-11

Keywords: • CAD/CAM • Data entry • Programming tools
• Shop floor control

APPS/2 is designed to greatly simplify the preparation of part programs for NC and CNC machine tools. The core system uses input from a digitizer to define the geometry of complex contour shapes. That set of basic geometric data is then smoothed and analyzed by the system software to determine the arc and straight-line components of the shape. A postprocessor translates the arcs and straight lines into the command format that will drive the desired machine tool. Any 2-dimensional cutting operation is a potential application.

Although developed primarily to deal efficiently with contoured nondimensioned shapes, APPS/2 also digitizes straight lines, arcs, and skips by specifying endpoints rather than by tracing. That form of entry is called point-to-point mode. A third mode provides for the direct keyboard entry of data when dimensions are well defined. All three entry modes may be used interchangeably on a single piece.

Software (\$15,000) includes one postprocessor and is maintained free for one year, including updates. In general, the digitizer and the digitizer interface board are purchased with the software package.

A version of this product is available for the VAX computer.

Price: \$15,000 – \$31,500

Contact: Robert P. Whitten, President
(617) 655-6610

ALDEN COMPUTER SYSTEMS CORP.
27 Strathmore Road
Natick, MA 01760

AUTO-BOP

Operating System: RSX

Keywords: • Data collection • Inventory • Metals
• Process control

AUTO-BOP is a complete oxygen control system. Application functions contained in the AUTO-BOP package are charge design, alloy additions, optimum heat assignment, heat summary log, data communications, operating data analysis, programmable controllers, monitor and alarming, and terminal manager.

A version of this product is available for the VAX computer.

Price: \$25,000 – \$50,000

Contact: David L. Schroeder
(412) 776-3130

PROCESS CORP.
163 Thorn Hill Road
Warrendale, PA 15086

AUTO-MET and Q-VAR

Operating System: RSX

Keywords: • Data collection • Electrical • Metals
• Process control

AUTO-MET Materials Management and Q-VAR Energy Management application packages for electric furnace control systems contain the following application functions: alloy addition calculation with properties correlations, charge design, purchasing model, optimum heat assignment, heat summary log, pellet feed, power input control, bath temperature, power demand, secondary metallurgical process, inventory control, monitor and alarming, data communications, operating data analysis, programmable controllers, gas demand, and terminal manager.

A version of this product is available for the VAX computer.

Price: \$50,000 – \$75,000

Contact: David L. Schroeder
(412) 776-3130

PROCESS CORP.
163 Thorn Hill Road
Warrendale, PA 15086

AWRAP (Automatic Wire Wrapping)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • CAD/CAM • Electrical

AWRAP is an interactive program for the preparation of control tapes for use on the Gardner Denver 14FV and 14FS Fully Automatic Wire Wrapping Machines. AWRAP is menu-driven and easy to use, and an individual needs no prior experience with computers to achieve successful results.

The storing of standard board geometry in a master file and the format of data entry are compatible with the program WWRAP for semiautomatic wire wrapping machines. Powerful editing facilities are also available. Data may be entered via the VDU keyboard or, alternatively, interfaced with existing CAD programs.

The program's special features include level assign; programmable dressing fingers; automatic and manual pallet shift; wire routing using routing points, channels, or "nogo" areas; wire grouping and sorting; inch/metric conversion; wrap count; and wire usage.

The programming language is FORTRAN.

A version of this product is available for the VAX computer.

Price: £15,000

Contact: K. E. Cole

(0905) 53335

STAVELEY COMPUTING

Blackpole Road

Worcester WR3 8TH

England

Base MRP (Base Material Requirements Planning)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Materials handling • Production control
• Scheduling

Base MRP is an "introductory" MRP incorporating the essentials, leaving the advanced functions to MCBA's Full MRP. Base MRP was designed by users but coded, tested, and documented by MCBA. The system is simple to use and understand, so that the user can be accountable for its results, and it integrates fully with MCBA's manufacturing packages, which themselves fully integrate to MCBA's latest state-of-the-art accounting packages.

Until now, small manufacturers could not afford MRP because of the large computer system required to run it. Base MRP provides the functions required by a small- to medium-size manufacturer on an affordable computer configuration.

Base MRP with Master Production Scheduling provides the vehicle to answer such questions as: What products should be produced? In what quantity? By what date? The system maintains the results in the form of production schedules for all end items. Quantities of all raw materials, components, and subassemblies below the end-item level and the timing required to support the master production schedule are determined by the Material Requirements Planning portion of Base MRP.

Base MRP requires MCBA's Inventory Management (I/M) and Bill of Material Processor (BOMP). Customer Order Processing (COP) is not required but is highly recommended. The bucketless Base MRP system includes the following capabilities:

- Provides master production scheduling, a daily calendar, and an extremely fast regeneration algorithm
- Supports time-phased requirements generation for all levels of the user's product structures
- Computes when and in what quantities component parts are required
- Predicts component part shortages/overages
- Supports min/multi/max order modifications
- Allows on-line initiation and report selection
- Interfaces to other MCBA application packages
- Supports multicompanies and password security

A version of this product is available for the VAX computer.

Price: \$2,500 – \$4,000

Contact: Sales Representative
 (818) 957-2900
 MCBA, INC.
 2441 Honolulu Avenue
 Montrose, CA 91020

BEDAT-11 Factory/Shop Data Collection

Operating System: RSX

Keywords: • Data collection • Process control
 • Production control • Shop floor control

BEDAT-11, a unique data acquisition system, is designed to fill the human interface demands of widely dispersed control and communication in machine and process control, energy management, inventory control, factory data collection in serial production, and order production systems. The heart of the system is the multifunction industrial terminal TB-21. Because of the interface flexibility, appearance, size, and functionality, the TB-21 can be used as a terminal as well as a console or control center for instrument and small systems.

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The industrial terminal TB-21 is part of a new generation of terminals using 16-bit microprocessor technology. Full utilization of modern technology occurs in decentralizing functions to the terminal. Therefore, integration into existing shop floor and manufacturing control systems may be done with minimal organizational changes.

A version of this product is available for the VAX computer.

Price: \$2,050 – \$2,850

Contact: Robert L. Hirtle, Office Manager
(904) 433-7578

ATS DATA PROCESSING, INC.
1101 North 9th Avenue
Pensacola, FL 32501

BOMP-11 (Bill of Material Processor)

Operating System: CTS-300, RSX, RT-11

Keywords: • Bill of materials • Inventory • Maintenance
• Project management

The BOMP-11 system organizes and maintains a central information system linking product structure records with master (inventory-type) records. Single and multilevel explosion and implosion options are provided, enabling the operator to produce listings that may be directed to the CRT or the line printer. BOMP-11 provides for full file maintenance of master and product structure records, along with audit trails of all maintenance transactions.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: John T. Rasted
(203) 265-2226

SOFTWARE DYNAMICS, INC.
1000 Yale Avenue, P.O. Box 500
Wallingford, CT 06492

BOMP (Bill of Material Processor)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Bill of materials • Materials handling

BOMP is a multilevel bill of materials processor and one of the key elements to a successful manufacturing system. BOMP includes the following capabilities:

- Allows full product structure maintenance and fast sort of the product structure file
- Provides for user-controlled product structure file reorganization
- Allows user-assigned sequence of components and permits specification of components' attaching operation
- Supports quantity per parent to four decimals
- Permits specification of scrap/shrinkage

- Supports obsolete bills, forecasted/planning bills, and modular bills
- Prints/displays the following reports: single-level bill of materials, single-level where-used, indented bill of materials, indented where-used, and summarized bill of materials
- Interfaces to six other MCBA application packages
- Supports security system and multicompany capabilities

A version of this product is available for the VAX computer.

Price: \$3,000 – \$4,500

Contact: Sales Representative
(818) 957-2900

MCBA, INC.
2441 Honolulu Avenue
Montrose, CA 91020

BOMS (Bill of Materials System)

Operating System: RSTS

Keywords: • Bill of materials • Inventory
• Materials handling

BOMS is one of several modules developed by White Hat to assist firms in accurately controlling the manufacturing process. BOMS is a comprehensive multilevel bill of material system designed as an optional feature of the White Hat Inventory Management and Control System (IMCS). Parent and component items are referenced by their item keys as identified in Inventory's Item Master File. Operating in a conversational, interactive mode, the user maintains bill of material component lists from which BOMS automatically structures the where-used component lists.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: John M. Montgomery
(617) 933-3780

WHITE HAT SYSTEMS, INC.
331 Montvale Avenue
Woburn, MA 01801

C-DASS (Computer Distribution and Storage System)

Operating System: RSX

Keywords: • CAD/CAM • Networking • Production control
• Programming tools

C-DASS is a system to store part programs for a group of CNC machine tools and to distribute those programs to individual machine tools, as required. A terminal is placed at each machine tool. Each terminal has access to the C-DASS and can transfer data between the C-DASS and the machine tool memories. Thus, program preparation

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and editing can be done from the individual terminals, as well as program loading. With optional communication software, the entire system can be linked to a larger computer. As a further option, one can add management and control functions.

Price: \$20,000 – \$100,000

Contact: Robert P. Whitten
(617) 655-6610

ALDEN COMPUTER SYSTEMS CORP.
27 Strathmore Road
Natick, MA 01760

CADBIRD II

Operating System: RSX

Keywords: • CAD/CAM • Graphics • Mechanical engineering

CADBIRD II is an extremely versatile 2-D drafting and engineering design package that fully utilizes the facilities offered by the PDP-11 series of computers running under RSX-11M. The package meets the requirement of mechanical drawing offices and with its ease of operation, enables draftsmen to quickly exploit its powerful features to speed up the production of drawings and designs.

Suitable graphics stations and plotters are required to use the system's full capability. The standard system comprises a PDP-11/23+ computer, a Westward terminal, and a Benson A0 plotter.

Price: Available upon request

Contact: A. Murrell
0632 650451

INTERNATIONAL RESEARCH & DEVELOPMENT
COMPANY, LTD.
Fossway
Newcastle upon Tyne NE6 2YD
England

CBS (Cut-Bun-Sew Garment Manufacturing System)

Operating System: CTS-300, RSTS, RSX

Keywords: • Inventory • Process control • Production control
• Shop floor control

CBS is a multiterminal multitasking garment manufacturing system consisting of five major systems interfaced to provide production control and fabric status for the cut and sew operator. The five systems, designed to be installed individually and as a totally integrated package, interface with other accounting, order entry, inventory, and payroll systems.

- The Cut System module is designed for fast, accurate entry of a cutting order. The design of the system, allowing both menu inquiry and printed reports of cuts entered by cut number and cut status, will satisfy the intent of the cutting order. This system also provides your production control with timely and accurate data, leading to more efficient use of plant capacity.
- The Fabric System module maintains a constant status of fabric received, issued, cut, on order, available to issue, and on hand by manufacturer, description, design, and color. Information is available through menu inquiry.
- The Style Standardization System module, the heart of the procedure, provides the manufacturer with a standard method of manufacturing a particular item. The module allows the entry and formulation of time study and engineering data for each operation necessary to manufacture an item. Menu inquiry of the style master file and various reports provide you with data allowing you to control costs. One of the most useful reports generated by this system is the Direct Labor Report by Style.
- The Marker System module allows you to keep an active inventory of each marker in house by style and model.
- The Bundle System module allows your production control to input the request from the spread and cut department for bundle tickets by category and special instruction.

Options for CBS include:

- Piece Pay System
- Standard to Actual Production
- Actual Salary Paid vs Production Salary Achieved
- Machine Down Time
- Quality Control vs Production Efficiency
- Marker Efficiency

Other optional modules are General Ledger, Accounts Payable, Accounts Receivable, Inventory Control, Order Entry/Invoicing, and Payroll.

A version of this product is available for the VAX computer.

Price: \$10,000 – \$12,500

Contact: Jim Baker, President
(404) 256-3067

AMERICAN DIGITAL PRODUCTS CORP.
5775B Glenridge Drive, Suite 320
Atlanta, GA 30083

CGS (Color Graphics System)

Operating System: RSX

Keywords: • Compilers • Graphics • Interpreters
• Real time

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CGS is a color graphics system that allows the user to create, edit, compile, and display complex schematics that reflect the real-time environment. Building displays is based on predefined symbols that can be incorporated into an image with a single keystroke. CGS enables the user to create bar charts, show container levels, and display values. All information displayed can be refreshed rapidly, and all dynamic points can be displayed with attributes of color, video, size, intensity, and blink status. Interface to the user's data base is made easily through a single subroutine interface. CGS can be incorporated into an existing system or can become part of a new system.

Price: \$19,500

Contact: W. Patrick Huff, Director of Sales
(305) 725-1300

SCIENTIFIC SYSTEMS SERVICES, INC.
P.O. Box 610
Melbourne, FL 32901

CHROMA-PAC

Operating System: RSX, RT-11

Keywords: • Chemical • Process control • Shop floor control

CHROMA PAC is a full color control package for the textile, paint, ink, color compounding, plastic, and cooling industries.

Price: \$35,000 - \$40,000

Contact: Norman Uress
(609) 924-2189

APPLIED COLOR SYSTEMS, INC.
P.O. Box 5800
Princeton, NJ 08540

CMI Profit

Operating System: RSTS

Keywords: • Financial planning • Inventory
• Production control • Shop floor control

CMI Profit is a complete, user-friendly on-line interactive closed-loop MRP II manufacturing system as described by APICS. The program is fully integrated with its own accounting/distribution system and is in use at more than 350 firms in a wide variety of manufacturing disciplines. The package features:

- Financial planning for budgeting, production planning, and sales forecasting
- Manufacturing planning for master scheduling, material requirements planning (regenerative or net change), capacity requirements planning, and rough-cut capacity planning
- Manufacturing control for work orders, labor reporting, material reporting, routings, and net material requirements

- Engineering control for single and multilevel bill of materials, same-as-except-for bill of materials, and new-product estimating
- Inventory control (multilocation) for purchase order processing, inventory average costing, inventory analysis, and physical inventory
- Sales control for sales order processing, sales analysis, and customer service
- Manufacturing costing for work order costing and work order budget reporting
- Accounting control for customer billing, accounts receivable, accounts payable, payroll, and general ledger.

Price: \$20,000 – \$60,000

Contact: Linda Knapkiewicz
(414) 327-4471

COMPUTER METHODS, INC.
10335 W. Oklahoma Avenue
Milwaukee, WI 53227

CMR21 Host Utility, Version 1.0

Operating System: RSX

Keywords: • Communications • Device drivers/handlers
• Programming tools • Project management

The CMR21 Host Utility is a library of RSX-11/VMS utility programs that serve as tools to assist users of CMR21 distributed industrial control processors in configuring and supporting networks of CMR21 units.

Use of the utility is optional and is not a requirement for operation of the CMR21. However, in applications in which large numbers of CMR21 processors are distributed over a wide area, the utility provides a convenient set of nonprivileged executable tasks to determine network configuration and to access individual processors in the network.

The CMR21 Host Utility is VAX/VMS and PDP-11/RSX-11 compatible. It supports both mapped and unmapped memory configurations and is distributed in Files-11 format.

Refer to SPD #30.39.00 when requesting further information on this product from your local DIGITAL sales office.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Consult your local DIGITAL sales office
(see Introduction).

COMPACT II — Series 300 and 400

Operating System: RSX, RT-11

Keywords: • CAD/CAM • Graphics • Pre- and postprocessors
• Programming tools

COMPACT II provides minicomputer-based, universal numerical control (NC) programming systems for point-to-point and multi-axis contouring applications on mills, machining centers (3-, 4-, or 5-axis), drills, lathes (including 4-axis), punches, flame cutters, and EDM machines. Machine links are available from a library of more than 4,000 links to convert COMPACT II programs to the unique codes used by specific machine tools and controls. Part program processing is performed on an interactive basis, enabling the programmer to process and debug programs conversationally while on line. Optional interactive graphics capabilities aid part program development and proofout. COMPACT II interfaces with all popular CAD/CAM systems.

Series 400 offers capabilities for more sophisticated programming applications and allows simultaneous COMPACT II programming and processing by several users.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Ronnie L. Barnes, Director of Marketing
(313) 995-6000

MANUFACTURING DATA SYSTEMS INC.
4251 Plymouth Road, P.O. Box 986
Ann Arbor, MI 48106

COP (Customer Order Processing)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Billing • Distribution • Order entry
• Warehousing

COP provides 2-pass customer order entry with separate billing, can integrate with MCBA's manufacturing system, and has many features that will interest a distributor. COP includes the following capabilities:

- Allows on-line entry and editing of customer orders and/or credit memos, allocation of line items at entry time, and credit check and availability check at entry time
- Accepts order and/or line-item discounts at entry time
- Handles back orders automatically
- Supports distribution from multiple warehouse locations
- Allows selective and partial billing
- Supports a 10-character zip code
- Accepts multiple prices per line item and mass price change
- Allows product category account maintenance
- Collects sales history automatically and prints sales history reports on request

- Prints the Products Sold by Customer and Customers by Products Sold reports
- Accepts multiple discounts per customer on a product line basis as well as trade discounts per product
- Interfaces to five other MCBA application packages
- Supports security system and multicompany capabilities

A version of this product is available for the VAX computer.

Price: \$3,000 – \$4,500

Contact: Sales Representative
(818) 957-2900

MCBA, INC.
2441 Honolulu Avenue
Montrose, CA 91020

DNC-11 (Direct Numerical Control Package)

Operating System: RSX

Keywords: • CAD/CAM • Materials handling
• Process control • Shop floor control

DNC-11 is a part program distribution system for the manufacturing market, providing a direct link between the CAD/CAM environment and numerically controlled (NC/CNC) machines on the shop floor. DNC-11 does away with the current method of generating NC programs on paper tapes that are then manually transported to the NC/CNC machine level. The result is faster design to production and elimination of most problems encountered with paper tapes.

The system runs under RSX-11M and VMS and can comprise two or three levels:

- Host system: For part program storage, command interpretation, logging, communication with remote mainframes, and optionally for CAD/CAM or program development.
- Subsystem: For program distribution; in smaller applications, this software can run on the host system.
- Machine connection level: Three methods are possible.

BTR technique (Behind Tape Reader): The paper tape reader on the NC/CNC machine is replaced by a microprocessor-based BTR interface available from DIGITAL. Firmware emulates the tape reader to control the machine. Connection is via optically isolated parallel port and utilizes an error-free communication protocol.

CTE Terminal: Based on the VT103 or RT103, this terminal provides for local storage and editing of part programs as well as machine feed-in control. Connection is via serial line to the BTR interface.

Direct communication: For CNC machines that have an error-free protocol implemented.

A version of this product is available for the VAX computer.

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Price: \$15,000

Contact: Consult your local European DIGITAL sales office
or call 49-89-95910.

DNC (Distributed Numerical Control)

Operating System: IAS, RSX

Keywords: • CAD/CAM • Networking • Production control
• Shop floor control

This program, distributing NC part programs to machine tool controllers, serves in the middle level of a 3-level hierarchy. NC program files are exchanged with a large (mainframe) computer on the top level, while individual jobs are scheduled and their corresponding NC programs are down-loaded to machine tool controllers at the bottom level. The system also allows for development of new NC programs or modifying existing NC programs. Files of active NC programs are maintained within the DNC system.

The DNC system provides substantial improvements in productivity for machine shops using NC and/or CNC controllers by eliminating paper tapes and their problems from the shop floor, as well as paper tape readers and punches from normal operations; reducing set-up time between jobs by the use of job queues for part programs on disk, which are quickly down-loaded upon operator request; automatically collecting job statistics, such as run times, down times, efficiencies, piece counts, and tool changes; automatically updating of NC part programs after changes have been made by the operator and/or part programmer, with passwords for security; simultaneously part programming on the DNC minicomputer and other operations, if no mainframe computer is available; supervising large numbers of machine tools by a single DNC minicomputer via simple (twisted-pair) wiring; completing of current jobs, using buffer memories in the CNC, starting new jobs with the paper tape readers; and automatically checking all file transfers for errors.

A version of this product is available for the VAX computer.

Price: \$20,000 - \$50,000

Contact: William P. Jenney, President
(716) 668-1606

JENNEY SYSTEMS ASSOCIATES, LTD.
2618 Union Road
Buffalo, NY 14227

Fedder Bill of Materials and Materials Requirements Planning Systems

Operating System: ULTRIX, UNIX

Keywords: • Bill of materials • Financial analysis
• Materials handling • Purchasing

The Fedder Bill of Materials processor can operate stand alone or as part of the Integrated Fedder Manufacturing Management System. The system has nine levels of explosion and provides for materials requirements planning for 24 future periods.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: David E. Fedder
(301) 539-2121
FEDDER SOFTWARE, INC.
P.O. Box 27149
Baltimore, MD 212300149

FINCON (Financial Control System)

Operating System: RSTS, RSX

Keywords: • Accounting • Inventory • Order entry
• Real time

FINCON is a real-time system designed to be fully integrated into any of the modules of IMPCON (Production Control/Manufacturing), if desired. FINCON contains sales, purchase, and nominal ledgers, as well as optional sales order entry and stock control modules. FINCON can be installed on a modular basis. Additionally, interfacing to PAYSOLVE (Payroll) will be available.

A version of this product is available for the VAX computer.

Price: £3,000 – £12,000

Contact: M. J. Bradley, Sales and Marketing Manager
0905 53335
STAVELEY COMPUTING
Blackpole Road
Worcester WR3 8TH
United Kingdom

FMIS (Foundry Management Information System)

Operating System: CTS-300, RT-11

Keywords: • Cost accounting • Information management
• Materials handling • Production control

This package is a comprehensive cost accounting system. Either direct or full absorption costing may be used.

The principal function of the system is to provide management with variance reports encompassing labor efficiency, material usage, scrap, and overhead allocation (both variable and fixed). For example, labor efficiency reports are available for cost centers, shifts, specific labor operations, or specific employees.

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Complete bill of material processing is included. Production and scrap allowance standards are defined by building structures (bills of material and labor operations) for cores, core assemblies, and castings as required.

Data entered to report labor operations is captured for processing by the Payroll and Inventory Control subsystems. Hourly rates, piece rates, or a combination may be used. General ledger posting is automatic.

Detailed production information is retained, and analytical routines are provided to evaluate pricing and profit margin and to assist in cost reduction efforts.

Price: \$10,000 – \$20,000

Contact: R. A. Evanson
(507) 452-8833

PARAGON DATA SYSTEMS
927 East King Street
Winona, MN 55987

FMRP (Full Material Requirements Planning)

Operating System: CTS-300, RSTS, RT-11, ULTRIX, UNIX

Keywords: • Materials handling

MCBA's Full Material Requirements Planning provides all the features of Base MRP, as well as highlights exceptions, recommends shop order releases, supports multiple-order policies, provides pegging, recommends purchase order releases, accommodates what-if operations, and is the key to successfully implementing manufacturing resource planning.

Application Development and Enhancements, Inc., is a New England distributor of software products manufactured by Mini-Computer Business Applications, Inc. (MCBA), in Montrose, California.

A version of this product is available for the VAX computer.

Price: \$2,000 – \$6,000

Contact: Douglas Souza
(617) 893-0333

APPLICATION DEVELOPMENT AND
ENHANCEMENTS, INC.
130 Overland Road
Waltham, MA 02154

H-BOMM

Operating System: ULTRIX, UNIX

Keywords: • Bill of materials • Engineering
• Materials handling • Report writer

H-BOMM, Helmsman's bills of material management system, provides a product structure management tool for planning, control, and decision making. Its features and spreadsheet capabilities make H-BOMM the ideal what-if planning tool. H-BOMM integrates with other Helmsman products to form a material requirements planning package, H-MRP.

As the nucleus of Helmsman's material requirements planning system, H-BOMM supports a complete and classic dependent-demand MRP system, a system for small manufacturers.

As a desktop computer tool linked to a large-scale computer, H-BOMM can receive and operate on portions of a company's product structure data base. H-BOMM users can perform complex operations not available on a large computer system, and no programming skills are required.

Operating on a micro, H-BOMM exceeds the features and functions of mainframe and minicomputer software. With the support of H-CHAMP and operating in a work station connected with a mainframe, H-BOMM is the manufacturing and engineering manager's equivalent of the financial manager's spreadsheet tool.

A version of this product is available for the VAX computer.

Price: \$1,495

Contact: Lew Silverstein
(408) 246-8300

HELMSMAN SYSTEMS, INC.
1030 So. Winchester #205
San Jose, CA 95128

H-BUY

Operating System: ULTRIX, UNIX

Keywords: • Financial analysis • Process control • Purchasing
• Report writer

H-BUY, an on-line interactive system, provides purchasing and receiving management for manufacturing operations. H-BUY integrates with other Helmsman products to form a material requirements planning package, H-MRP.

H-BUY's Purchasing function group enters, tracks, and controls open purchase orders and provides on-line status and historical information. Reducing your buyer's clerical effort gives him or her more time to control the cost and adverse variance of material and to evaluate the delivery performance of the vendor. By treating purchased material as "good parts on hand" only when it has passed inspection and is in stores, the Purchasing group more accurately monitors the arrival and quality of vendor items. A user-controlled report generator is included in the function group.

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The Vendor function group establishes and controls the vendor-to-part relationship. By tracking the vendor's history and commitments, the group of programs establishes which vendors best meet your organization's needs.

A well-run Receiving function immediately increases the cash flow because it more efficiently controls vendors, regulates the flow of material, and raises the level of service.

The Receiving function group tracks and controls material and provides on-line status and historical information. By matching purchase order and receiving information, the system ensures that you pay only for good material in the quantity you want. Because the system flags back-ordered material, expedition begins as soon as needed material arrives.

A version of this product is available for the VAX computer.

Price: \$2,495

Contact: Lew Silverstein
(408) 246-8300

HELMSMAN SYSTEMS, INC.
1030 So. Winchester #205
San Jose, CA 95128

H-MAKE

Operating System: ULTRIX, UNIX

Keywords: • Process control • Production control
• Project management • Shop floor control

H-MAKE, an on-line interactive system, provides work-in-process management for manufacturing operations. It integrates with other Helmsman products to form a material requirements planning package, H-MRP.

Work-in-process tracking is the cornerstone of closed-loop MRP. H-MAKE allows production and production control to make the decisions, to set the priorities, and to meet the order schedules. Reliable, consistent performance to schedules directly influences lower investment in finished goods inventory and better customer service.

The Work Order function group enters, tracks, and updates work orders; provides on-line work-in-process status information; and includes a user-controlled report generator, tied to work order number or part number. Paperwork packets are generated, including kit pull lists, for each job. The system ties back-order item detail to work order and makes the information available on line. Delays and splits are possible. Work orders are tied to and controlled by due date.

The Work Center and Route function groups establish and update work center and routing information. The Route group provides a report generator that ties work center to work order information. Those reports give the shop supervisor an information base for close-in scheduling and dispatching.

Flexible, quick-reaction production control planning requires you to perform what-if simulated kit pulls. The Kitting function group has two what-if simulated kit pull tools that let you answer the question "Can this kit or set of kits be pulled now?"

A version of this product is available for the VAX computer.

Price: \$2,495

Contact: Lew Silverstein
(408) 246-8300

HELMSMAN SYSTEMS, INC.
1030 So. Winchester #205
San Jose, CA 95128

H-MRP

Operating System: ULTRIX, UNIX

Keywords: • Bill of materials • Inventory • Purchasing
• Shop floor control

H-MRP, a material requirements planning package, incorporates the classic MRP concepts. H-MRP is an on-line, dependent-demand, transaction-driven, net-change system. The H-MRP package includes H-CHAMP, applications environment; H-BOMM, bills of material manager; H-STORE, inventory management and stores; H-MAKE, work-in-process management; H-BUY, purchasing and receiving; H-PLAN, master schedule and planner controls; and MRP. The operational speed and the human interface of the H-MRP package are especially impressive.

H-MRP integrates with other suppliers' application software packages supporting the needs of manufacturing company users. For instance, the H-CHAMP tools can be used to integrate the H-MRP modules with presently installed accounting or sales and forecasting packages.

H-MRP runs on the de facto standard operating systems for 8080/8085/Z80, 8086/8088, Z8000, and 68000 families of hardware.

A version of this product is available for the VAX computer.

Price: \$9,995

Contact: Lew Silverstein
(408) 246-8300

HELMSMAN SYSTEMS, INC.
1030 So. Winchester #205
San Jose, CA 95128

H-PLAN

Operating System: ULTRIX, UNIX

Keywords: • Materials handling • Process control
• Production control • Scheduling

H-PLAN is an on-line interactive system providing master schedule and planner controls and MRP for manufacturing operations. The system integrates with other Helmsman products to form a material requirements planning package, H-MRP.

The manufacturing organization's objective is to work as a team, implementing management's strategic plan. H-PLAN helps communicate the company's plan to all levels of the organization. Everyone operates from the same information base, with the same priorities.

The Material Requirements Planning function group provides the time-phased, net requirements for each item; it compares independent demand from the master schedule and dependent demand from the BOM explosion to the on-hand inventories and open purchase and work order status. This group also enables you to control MRP rules. Choose between regenerative or true transaction-driven net change rules. An on-line MRP inquiry initiates a single-level MRP updated display for that item for current information. The MRP is "full-pegging." The MRP function group also includes what-if simulation, a powerful tool for making management decisions.

The Master Schedule is management's strategic statement of future product requirements; it affects customer order service and inventory investment levels. This group drives the MRP System with product requirements by date, quantity, and configuration. The group compares forecast and sales order information to the production plan and recommends where to adjust the master schedule. Included is a rapid-response, rough-cut capacity planning tool, in addition to top-down, what-if simulation.

The Planner Control function group enhances system effectiveness by apportioning and delegating system activities to designated individuals for appropriate action. This group enables you to control all aspects of the inventory rules that affect each of the parts in the system data base. You can choose order point or MRP control, internal and safety lead time, safety stock, and order quantity rules. The group includes an extensive user-controlled report generator.

A version of this product is available for the VAX computer.

Price: \$3,495

Contact: Lew Silverstein
(408) 246-8300

HELMSMAN SYSTEMS, INC.
1030 So. Winchester #205
San Jose, CA 95128

H-STORE

Operating System: ULTRIX, UNIX

Keywords: • Accounting • Inventory • Materials handling
• Report writer

H-STORE, an on-line interactive system, provides inventory and stores management for manufacturing operations. The system integrates with other Helmsman products to form a material requirements planning package, H-MRP.

The Stores group provides a perpetual on-line inventory record, maintained by those individuals responsible for the items. You can trace data base transactions to the source document and to the responsible operator. The system includes a user-controlled report generator.

The Charge Number and Month-End function groups provide inventory and WIP transaction interfaces to the financial and accounting functions and detail and summarize the current month's system transactions. The references to source documents and operators help management review and edit this information before transferring it to the general ledger accounts. Dual tracking and a user-controlled report generator are included.

The Back Order function group tracks and reports back-order status and issues and includes a user-controlled report generator. By flagging relevant inquiries and reports, the system helps to expedite back orders, both at the vendor's plant and in house.

The Cycle Count function group statistically measures stores accuracy and continually adjusts physical to book inventory.

The Physical Inventory function group controls the source documents for the classic, audited, and physical inventories and processes the approved physical-to-book inventory adjustments that follow.

The Planner Control group provides history-oriented inventory control, item classification, lot size, EOQ, safety stock, and order point. Those functions do not depend on bills of material or material requirements planning. The function group also includes a user-controlled report generator.

A version of this product is available for the VAX computer.

Price: \$3,495

Contact: Lew Silverstein
(408) 246-8300

HELMSMAN SYSTEMS, INC.
1030 So. Winchester #205
San Jose, CA 95128

HYBRIDLO (CAD/CAM Software Package for Hybrid Circuit Layout)

Operating System: DSM (MUMPS), RSX, RT-11, UNIX

Keywords: • CAD/CAM • Electrical • Electronic • Graphics

HYBRIDLO is a CAD/CAM software package for designing and manufacturing masks for integrated circuits. The package features extensive on-line design and editing capability; parametric cells; built-in pick a menu; user-definable fill density; total number of definable points equal to 10^{14} ; true zoom/pan to any magnification; user definition of named cells and their subsequent manipulation as single entities; automatic documentation files creation in which session dialog is preserved in instruction files and graphics information is saved in drawing files; continuous display when desired of digitizing grid points, center coordinates, resolution, and scale; built-in arc and alphanumerics; on-line CAM check; and true display of final artwork.

Built-in BASIC-like commands allow the user to define his/her design rule. For example, the commands multiple step and repeat, rotation, mirror reflection, and others allow the user to add, modify, and measure features. Plus, a powerful cut command removes features within specified boundaries that belong to a subset chosen from 28 levels or colors.

Options include a hard-copy unit to dump graphics/text information from screen, a data tablet, a modem, a drum plotter, color graphics/text display, a digitizer, a color printer/plotter, and a camera.

A version of this product is available for the VAX computer.

Price: \$4,000 – \$40,000

Contact: Park Y. Lee, President
(617) 891-8961
CTEX, INC.
366-5 Elliot Street
Newton, MA 02164

ILS-11 (Interactive Layout Software)

Operating System: RSX

Keywords: • CAD/CAM • Graphics • Metals
• Shop floor control

This CAD/CAM interactive graphics design system is for fabricated metal products on all machine tools and machining centers, both CAM controlled and N/C controlled on DNC to remote machine tools with I-CAM capability for Group Technology networking.

A version of this product is available for the VAX computer.

Price: \$10,000 – \$50,000
Contact: John A. Villano
 (203) 575-9300
 CAM-APT, INC.
 166 Railroad Hill Street
 Waterbury, CT 06708

I/M (Inventory Management)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Distribution • Inventory • Report writer

This comprehensive, stand-alone inventory management tool is applicable to both manufacturing and distribution inventories. The application does the following:

- Allows multiple inventory locations, stocked and nonstocked items, warehouse transfers and issues and receipts, and purchase order entry, editing, and tracking
- Prints the ABC Analysis Report with optional update and the Usage Exceptions Report, comparing actual to forecast
- Provides physical inventory tag support and cycle counting support
- Prints the Inventory Stock Status and the Reordering Advice reports
- Interfaces to seven other MCBA application packages
- Supports security system and multicompany capabilities

The special functions of I/M allow the user to clear item month-to-date fields and recalculate several averaged fields, clear item month-to-date fields only, clear item year-to-date fields, or evaluate LIFO inventory and cost roll over.

A version of this product is available for the VAX computer.

Price: \$3,000 – \$4,500
Contact: Sales Representative
 (818) 957-2900
 MCBA, INC.
 2441 Honolulu Avenue
 Montrose, CA 91029

IMCS (Interactive Manufacturing Control Systems)

Operating System: RSTS

Keywords: • Facilities management • Inventory • Scheduling
 • Shop floor control

IMCS is an interactive manufacturing control system offering current status, planning, and inventory control information: IMCS consists of six integrated systems:

- Interactive Inventory Management System, which maintains current information on inventory, manufacturing orders, purchase orders, and material allocations

- Interactive Manufacturing Standards System, which supports the creation, maintenance, and reporting requirements for bills of material and routings
- Interactive Material Requirements Planning System, which explodes the master schedule into its component requirements and calculates net available inventory and open orders
- Interactive Shop Floor Control System, which gathers necessary information for control of work flow over a short period of time
- Interactive Purchasing System, which provides the control for purchasing, receiving, and inspection, as well as the interface to the accounts payable system
- Interactive Capacity Planning System, which provides a planning facility for long-range capacity needs

A version of this product is available for the VAX computer.

Price: \$30,000 +

Contact: David C. Lang, CPIM
(513) 761-0132

INTERACTIVE INFORMATION SYSTEMS
10 Knollcrest Drive
Cincinnati, OH 45237

IMCS (Inventory Management and Control System)

Operating System: RSTS

Keywords: • Cost accounting • Distribution • Inventory
• Materials handling

IMCS, one of several modules developed by White Hat to assist firms in accurately controlling the manufacturing process, concentrates on the proper accounting of inventory. IMCS identifies all raw material, work in process, and finished-goods items. A 21-character alphanumeric item number is supported. In addition, secondary part numbers and a 35-character descriptive field are maintained. Transactions are processed via multiple on-line terminals with operator prompting or through interfaces from other systems (for example, order processing, purchasing management, or shop floor control).

Standard reporting capabilities also include inventory master lists, stock status, ABC analysis, reorder exceptions, cost impact analysis, and cycle count lists. An optional Bill of Material subsystem is available and allows for extensive parent and component accounting, as well as complete costing capability.

IMCS also interfaces with the White Hat general ledger system.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: John M. Montgomery
(617) 933-3780

WHITE HAT SYSTEMS, INC.
331 Montvale Avenue
Woburn, MA 01801

IMPCON (Inventory Management and Production Control System)

Operating System: RSTS, RSX

Keywords: • Bill of materials • Inventory • Production control
• Purchasing

This completely integrated real-time inventory management and production control system offers full facilities for manufacturers. The system can be integrated into any of the modules of FINCON (Financial Control), if desired. IMPCON offers parts control, stock location control, movements inwards/outwards, purchase ordering and control, work orders, costing, bills of material, material requirements planning, work in progress, and production planning/forecasting. The system can be installed on a modular basis. Additionally, interfacing to PAYSOLVE (Payroll) will be available.

A version of this product is available for the VAX computer.

Price: £5,000 – £20,000

Contact: M. J. Bradley, Sales and Marketing Manager
0905 53335

STAVELEY COMPUTING
Blackpole Road
Worcester WR3 8TH
United Kingdom

INFOR/LABCAL

Operating System: RSX

Keywords: • Chemical • Inventory • Printing
• Production control

INFOR/LABCAL is an inventory and production control package for batch processing. The program serves the textile dyeing and printing, paint and coatings, plastics compounding, ink and printing, cosmetics, and specialty chemicals industries.

Price: \$10,000 – \$50,000

Contact: Norman Uress
(609) 924-2189

APPLIED COLOR SYSTEMS, INC.
P.O. Box 5800
Princeton, NJ 08858

INFOR/PAC

Operating System: RSX

Keywords: • Chemical • Inventory • Printing
• Production control

INFOR/PAC is an inventory and production control package for batch processing. The program serves the textile dyeing and printing, paint and coatings, plastics compounding, ink and printing, cosmetics, and specialty chemicals industries.

A version of this product is available for the VAX computer.

Price: \$10,000 – \$50,000

Contact: Norman Uress
(609) 924-2189

APPLIED COLOR SYSTEMS, INC.
P.O. Box 5800
Princeton, NJ 08858

INFOR/TEX

Operating System: RSX

Keywords: • Chemical • Inventory • Printing
• Production control

INFOR/TEX is an inventory and production control package for batch processing. The program serves the textile dyeing and printing, paint and coatings, plastics compounding, ink and printing, cosmetics, and specialty chemicals industries.

Price: \$10,000 – \$50,000

Contact: Norman Uress
(609) 924-2189

APPLIED COLOR SYSTEMS, INC.
P.O. Box 5800
Princeton, NJ 08858

INVENT (Inventory for Manufacturing Companies)

Operating System: RT-11

Keywords: • Inventory • Report writer • Taxes

These inventory programs for manufacturing companies can handle up to 10,000 types of parts. All user programs are accessed through a master program called INVENT.

Options include adding new parts, looking up parts, adjusting quantities, deleting parts, and correcting any item. The programs can print inventory reports, reorder reports, inventory value reports, complete inventory listings, and inventory labels. The inventory listing includes part number, description of part, quantity on hand, reorder point, reorder quantity, estimated annual use, unit cost, vendor number, and date of last use.

Additional features include automatic computation of estimated annual usage and automatic computation of the lower of cost or average for tax purposes. The system even produces an inventory audit trail for a cross-check of your entries.

All programs are written in BASIC-11 and are supplied on an RX02 8" diskette, dimensioned to handle 3,000 part numbers. A disk can be used to handle 10,000 part numbers. A user's manual is included with the system.

Price: \$1,850

Contact: Raymond H. Green, President
(813) 360-1967

RAY GREEN AND ASSOCIATES
603 55th Avenue
St. Petersburg Beach, FL 33706

Inventory Control

Operating System: RSX

Keywords: • Inventory • Materials handling
• Production control • Report writer

This inventory control module may be operated as part of the integrated Business Information System to track material from production forecast through purchasing, receiving, incoming test and inspection, multiple stockrooms, multiple stages of work in process, test and inspection, finished products, and shipment to customers. The module may be integrated to one or more other Breuer & Co. modules — Purchasing, Sales Order Processing, Bill-of-Materials, Job Cost Accounting, and General Ledger. Alternatively, it may be operated independently of other software.

Integrated with Bill-of-Materials, the production forecast capability can be used to generate purchase requisitions. Reports include inventory status, stockout/pending shortages, material requirements based on production forecast, product commitments based on customer sales orders, receiving and "on order" reports, inventory valuation, shipping reports, and transaction reports with receipts, issues, transfers, adjustments, and so on.

A version of this product is available for the VAX computer.

Price: \$6,000

Contact: Janna McMillan
(617) 275-5810
BREUER & CO.
54 Middlesex Turnpike
Bedford, MA 01730

Inventory Control

Operating System: ULTRIX, UNIX

Keywords: • Inventory • Materials handling • Order entry
• Report writer

The Inventory Control system tracks materials through three stages — raw materials, subassemblies, and finished goods. A vendor file and vendor costs are maintained for each raw material. Subassembly and finished goods costs are updated when prices of related raw materials change. Minimum reorder points are used to print a report for ordering raw materials. Production of subassemblies and finished goods relieves raw materials for the proper amounts. When inventory items are ordered, another report tells when raw materials orders are due and which orders are late.

The system is written in C language and uses the public domain Ingres data base written by the University of California at Berkeley. Binary and source codes are available for UNIX* Berkeley 4.1 and 4.2. The source code is available for all others.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$1,500 – \$10,000

Contact: Fred Potthoff
(612) 941-9470

FARGO ELECTRONIC SERVICES, INC.
7150 Shady Oak Road
Eden Prairie, MN 55344

Inventory Management

Operating System: MS/DOS, PICK, UNIX, XENIX

Keywords: • Inventory • Order entry • Purchasing
• Warehousing

This program provides the following:

- Automatic interface to the Accounts Receivable system
- Invoices, credit memos, and picking tickets generated as needed
- Inventory quantity on-hand figures updated as stock is increased or depleted
- Multiwarehouse and companywide tracking
- Automatic recalculation of average cost of inventory items when new receivings entered
- Comprehensive inventory master file: quantity on hand, receipts, transfers in and out, returns, sales quantity, physical adjustments, committed quantity, on-order, and dollar sales and cost of sales
- Automatic rollover on effective date for new pricing
- Virtually unlimited price class coding at both inventory-item level and customer-classing level
- On-demand printing of multiple price lists

- Back-order information by item and customer
- On-demand report of cash value of present inventory
- On-demand sales analysis by product category, customer name or type, salesperson, or state
- Purchasing advice reports based on reorder level and quantity, including lead times and cycle turnover data
- Stock status and history report and stock status inquiry
- Same-as, alternate, and complementary items
- Packing lists by picking sequence

A version of this product is available for the VAX computer.

Price: \$600

Contact: Steve Thomas

(713) 270-5218 or (800) 231-0062

THE SOFTWARE EXPRESS, INC.

10103 Fondren, Suite 220

Houston, TX 77096

J/C (Job Costing)

Operating System: CTS-300, RSTS, RT-11, UNIX

Keywords: • Accounts payable • Cost accounting
• Project management • Security

This stand-alone package is a complete job costing system providing accurate cost reporting and comprehensive variance analysis. J/C includes interactive entry and editing of labor and material tickets. In addition, J/C:

- Supports standards or estimates for variance analysis
- Provides a job cost analysis report by job, department, work center, part, and operation
- Prints a variance analysis report — including rate, yield, performance, and quantity breakdowns for labor, material, and subcontracting
- Allocates fixed and variable overhead
- Provides security and multicompany support
- Interfaces to five other MCBA packages

The following special functions are provided: job copy, job cost master file, general ledger interface, accounts payable interface, and cost table defaults maintenance.

A version of this product is available for the VAX computer.

Price: \$2,500 – \$4,000

Contact: Sales Representative

(818) 957-2900

MCBA, INC.

2441 Honolulu Avenue

Montrose, CA 91020

J/PICS (Process Information and Control System)

Operating System: RSX

Keywords: • Data conversion • Graphics • Process control
• Report writer

J/PICS is a fill-in-the-blanks process control software package that allows the user to define a process in engineering units and in English. The system supports the functions of scanning, conversion, limit checking, alarming, control, historical data collection, operator interface with color graphics, logging, trending, and averaging. J/PICS supports both batch and continuous-type processes, as well as DDC, supervisory, cascade, and adaptive control loops. J/PICS allows the user to take points in and out of scan, substitute values, set or reset digital points, and generate reports. The generation of the data base can be done off line or on line to perform addition, deletion, and modification without impacting the execution of the real-time system. J/PICS can be entirely memory resident or can utilize a disk for display and low-priority file storage. J/PICS can exist in a stand-alone configuration or can support many CPUs in a network or distributed environment. J/PICS has as an option, a batch scheduler, a recipe builder, and a report generator.

Price: \$30,000

Contact: W. Patrick Huff, Director of Sales
(305) 725-1300

SCIENTIFIC SYSTEMS SERVICES, INC.
P.O. Box 610
Melbourne, FL 32901

Keane's Factory Information System

Operating System: RSTS, RSX

Keywords: • Bill of materials • Inventory
• Materials handling • Production control

Keane's Factory Information System is a fully integrated manufacturing system providing on-line updates and access to the data via easy-to-use screens as well as complete security controls and error validation. The system is also fully integrated with the Financial Accounting System.

Keane's Factory Information System consists of nine modules: Inventory Control, Factory Order and Pick List, Bills of Material, Shop Floor Control, Costing, Material Requirements Planning, Master Production Scheduling, Purchasing and Receiving, and Process Flow Sheet and Routing System.

The software is compatible with DIGITAL DATATRIEVE.

A version of this product is available for the VAX computer.

Price: \$35,000 – \$60,000
Contact: Robert Clifford
(617) 863-0330
KEANE, INC.
420 Bedford Street
Lexington, MA 02173

LDAT (Logic Design Automation Terminal)

Operating System: CTS-300, RT-11

Keywords: • CAD/CAM • Electronic • Process control
• Simulation

This software package, used with a semiautomatic wire wrap machine, provides a powerful method for defining, capturing, and controlling complex logic network designs from conception through large-scale manufacture and test. The system can improve engineering productivity as much as two or three times, and overall project development time can be vastly reduced.

LDAT maintains a complete library of design elements (ICs) and their associated parametric data. New ICs may be added with ease with the data base editor. The input logic network is analyzed for electrical interconnection rule violations, loading errors, and signal transmission length. After evaluation of the printed LDAT network documentation package and analysis, the particular revision level is frozen, and build or rework tapes can be generated.

With LDAT, incorporating an ECO to a prototype board is a matter of editing the input description captured directly from schematic pages. LDAT's revision and change control system will automatically compute what wires to remove, what ICs to change, and what wires to add back and will punch out a "rework" tape for semiautomatic rework of the board on the wire wrap machine. Once the LDAT-controlled wire wrap prototype works, the logic network data can be passed on via direct LDAT interface to other larger and more specialized CAD, CAM, and CAT systems for PC artwork and test pattern development. A full interactive graphics front end (Symbolic Drawing Machine) is available.

LDAT is a proven system for supporting digital design tasks. Features for wire wrap prototype and production include electrical network analysis; powerful near-optimal path router for routing signals for minimum lengths; fixed, via, and twisted pair strings; automatic change order and revision control; channel or airline routing; direct interfaces for fabrication of discrete or printed wiring boards; and direct interfaces for logic simulation and test pattern development.

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Price: \$15,000

Contact: John Thorne
(818) 884-8957
CADMATICS
21907 San Miguel Street
Woodland Hills, CA 91364

M-Net™ (Manufacturing Network)

Operating System: RSX

Keywords: • Data collection • Networking
• Production control • Shop floor control

M-Net is a layered network designed for the manufacturing environment. Sales to date have been in the IC or integrated circuit manufacturing area, including IC test houses and volume IC consumers. M-Net enables the user to interconnect makes and types of production and test equipment into a comprehensive network without the need to purchase and to maintain levels of proprietary, noncompatible networks. The equipment need not be in the same location to use M-Net.

The need to collect data from different design, fabrication, and test equipment is paramount in the integrated circuit industry. Valuable engineering labor and turnaround time are saved, ultimately leading to greater productivity, higher yields, greater quality control, and lower cost.

M-Net has been designed and developed to provide real-time data collection, analysis, control, and display, rather than trying to adapt an existing business system to meet production needs.

The key features provide:

- Support for a variety of equipment from many vendors
- Centralized test program control and updating
- Flexible, easy, nondisruptive modification of network configuration
- In-house expertise to modify and to customize the system
- Field upgradable to interface with new shop floor systems as older equipment is phased out

A version of this product is available for the VAX computer.

Price: \$25,000 – \$45,000

Contact: Girish Shah
(602) 622-7707
INTERNATIONAL ELECTRONICS
1518 E. Broadway
Tucson, AZ 85719

Machinery Monitoring Software System

Operating System: RSX

Keywords: • A/D, D/A • Data collection
• Device drivers/handlers • Mechanical engineering

The HERCO Machinery Monitoring Software System provides for collecting operating vibration and acoustic emission data at up to six satellite PDP-11 machines, transmitting the information to a host through a DECnet network, and analyzing and reporting the data to the plant operators and machinery engineers.

A dual-channel high-speed vibration unit is available that allows the machinery engineer to perform either a single-channel or simultaneous dual-channel spectral analysis. The satellites scan the transducers and process the information for transmission to the host. The software package includes a subroutine library, drivers for various input units, and applications software.

Price: \$20,000 – \$50,000

Contact: Robert C. McGill
(713) 869-9371

HOUSTON ENGINEERING RESEARCH CORP.
7250 Wynnwood Houston, TX 77008
P.O. Box 3246 Houston, TX 77001

MCS-3 (Manufacturing Control System)

Operating System: UNIX, XENIX

Keywords: • Bill of materials • Inventory
• Materials handling • Order entry

MCS-3 is a completely integrated inventory control, material requirements planning system designed to run on both 8- and 16-bit microcomputers. MCS-3, a redesigned and enhanced version of the MCS-2 system released in 1980, is written in Ryan McFarland COBOL and will run on most microcomputers and operating systems.

A version of this product is available for the VAX computer.

Price: \$750 – \$2,900

Contact: Rick L. Jeffrey
(614) 895-0738

MICRO MANUFACTURING SYSTEMS
2550 Corporate Exchange Drive, Suite 109
Columbus, OH 43229

MDT (Multiwire Design Technology)

Operating System: RSX, UNIX

Keywords: • CAD/CAM • Electronic
• Mechanical engineering

Multiwire is a high-density, easily modifiable wired interconnection technology used extensively for complex and high-speed circuit boards. MDT is a software package for designing multiwire circuit boards and is available under license from PCK Technology.

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MDT provides CAD tools for design input data preparation from a schematic and a component layout, controlled automatic interconnection routing, and manufacturing data verification for new designs. The system also provides CAD tools for rapid modification of existing designs. Manufacturing (design output) data can be sent to one of the licensed manufacturing centers throughout the world, or the associated manufacturing technology can be licensed from PCK. The design turnaround time, from schematic to production-ready data, can be on the order of days.

The distribution package comprises 232 FORTRAN source modules and 20 MACRO-11 source modules. The design system is generated from this package and provides 73 executable tasks and 14 general batch procedures and utilities. The system requires 3.5 megabytes of on-line disk storage. An additional 1.5 megabytes are required if the distribution source is to be maintained on line.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Bernard Hayduk

(516) 454-4466

PCK TECHNOLOGY DIVISION

322 South Service Road L.I.E.

Melville, NY 11747

MINI-PCAP (Process Characterization Analysis Package)

Operating System: Independent

Keywords: • Management • Process control
• Production control • Statistics

MINI-PCAP is an integrated collection of statistical techniques designed to assist in obtaining a thorough characterization of a manufacturing process. Using data collected during the normal course of production and testing or from experimental runs, MINI-PCAP assists users in identifying significant process variables, their interactions, and operating regions for maximum yields. Additionally, MINI-PCAP can be used to develop process models and to determine in-process screening limits to help minimize product costs.

MINI-PCAP can also be used to analyze types of data not associated with manufacturing processes. For example, it helps management prepare a corporate planning policy, to analyze personnel data, to identify trends and relationships relative to various organizational operations — in short, to analyze any data that contains identifiable variables that impact on other variables.

MINI-PCAP is used in the interactive mode and has been designed with portability as a major requirement.

Price: Available upon request

Contact: AT&T Technologies, Inc., Account Executive
(919) 697-6530

AT&T TECHNOLOGIES, INC.
Software Sales and Marketing
P.O. Box 25000
Greensboro, NC 27420

MMM (Manufacturing Material Management System)

Operating System: CTS-300, RSTS

Keywords: • Bill of materials • Inventory
• Materials handling • Purchasing

This system allows you to balance customer service, inventory levels, and production costs. This comprehensive manufacturing information and control system can be installed quickly and economically for a wide variety of manufacturing environments. A series of on-line interactive programs provide control of purchase parts, subassemblies, and finished goods used in the manufacturing process, as well as a multilevel bill of materials required to manufacture a product. Also included is a where-used capability to aid in tracking parts.

The system also processes work orders. Work orders provide summary requirements for purchase parts and subassemblies, spot shortages relating to a group of loaded work orders, time-phased kit shortages, perpetual inventory control on a gross requirements basis, and time-phased purchase order control.

Standard material, labor, and burden costs can be maintained for each item. Changes in costs can be reflected throughout the structure through simple transaction input during the maintenance routine. A major advantage of the data base structure is the ability to install the system without the cost information and to add cost data at a later date.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Jerry Baker, President
(312) 956-1053

BAKCO DATA, INC.
85 W. Algonquin Road, Suite 190
Arlington Heights, IL 60005

MMS (Materials Management System)

Operating System: Micro/RSX, RSX, UNIX,

Keywords: • Inventory • Materials handling • Metals
• Purchasing

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MMS is a fully integrated linear programming software package for the metals industry and includes least-cost charge design, final alloy additions, inventory control, purchasing optimization, and management reporting.

The Least Cost Charge Design program reduces metal mix cost, produces a more consistent product, and allows higher quality control and fewer off-analysis heats. This program optimizes on natural elements as well as complex relationships between elements.

The Least Cost Final Additions program produces final addition calculations with computer speed, reducing tap time and unnecessary alloy additions.

The Inventory program maintains an up-to-date materials inventory and provides accurate reports on material receipts and material usage on a heat-by-heat, month-to-date, and year-to-date basis.

The Purchase Optimization program calculates the maximum purchase price for each material under consideration. Thus, effective purchases are made by evaluating your current inventory against current market conditions.

The Management Reporting program allows management personnel access to recent, accurate information from a common data base. Customized reports give the information needed to track production, productivity, and costs involved in the metals industry.

Pyromet Systems provides an optional annual software-maintenance agreement. The programs may be leased or purchased and are available in separate pieces or as a complete package. Other standard and custom-designed packages are also available. All software is fully documented and supported.

A version of this product is available for the VAX computer.

Price: \$10,000 – \$50,000

Contact: Donald Eckley
(412) 486-8384

PYROMET SYSTEMS, INC.
Craighead Building, 4361 Route 8
Allison Park, PA 15101

MOST Computer Systems

Operating System: RSTS, RSX

Keywords: • Data base management • Production control
• Shop floor control

These systems provide work measurement and standards-setting programs for manual labor in manufacturing. The five operating levels are methods and workplace data development, filing and retrieval for data management, application of time standards, data update and

maintenance, and documentation. The standards generated by the program can be easily interfaced to other CAM modules. Optional modules are available in machining, welding, line balancing, routing, and labor reporting.

A version of this product is available for the VAX computer.

Price: \$55,000 – \$82,500

Contact: Mary T. Coughlin or Kjell B. Zandin
(412) 963-8100

H. B. MAYNARD & CO.

235 Alpha Drive
Pittsburgh, PA 15238

MRP (Material Requirements Planning System)

Operating System: RSTS

Keywords: • Distribution • Materials handling • Purchasing

MRP can perform as both a net change and a regenerative material requirements planning system. The time-phased logic of the system is designed to assist management in determining manufactured and purchase material requirements. Both net change and regenerative functions are designed to satisfy product demands, expressed as master schedule items, customer orders, or other user-defined requirements. System logic will determine the proper component to end-item levels. MRP will provide a simulation of what effect the manufacturing plan has on current inventory supply. The system projects what shortages will occur and provides recommended or "planned" order suggestions to prevent their occurrence. As part of a modular manufacturing system, the White Hat MRP System is designed to be installed with the White Hat Inventory Management and Control System (IMCS), Purchasing Management System (PMS), Order Processing and Sales Analysis (OPSA), Shop Floor Control (SFC), and Bill of Materials System (BOMS). Reporting output can be either in user-defined, horizontal bucket format or displayed in a vertical, bucketless approach. On-line pegging and exception message display features provide powerful tools in materials problem resolution.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: John M. Montgomery
(617) 933-3780

WHITE HAT SYSTEMS, INC.

331 Montvale Avenue
Woburn, MA 01801

MTS 100

Operating System: RSX, RT-11

Keywords: • Process control • Production control
• Quality control • Shop floor control

MTS 100 is an engineering and manufacturing evaluation and control system for industries that manufacture semiconductors, printed circuit boards, and complete integrated electronic products. The system assists in all phases of engineering and manufacturing in the process, cost, equipment, production, and factory control and in yield improvement.

The features of this relational data base system include:

- Complete production scheduling, planning, and control capabilities, with plan-variance reporting and action recommendations
- Floor inventory tied to direct usage and material movement and bottlenecks reported for people and equipment, based on generated standards and real-time situations
- Complete cost planning and control capabilities for direct and indirect labor and material
- Extremely powerful process control and engineering capabilities and handling of several levels of data: in-wafer, wafer-to-wafer, lot to lot, or components, boards, subassemblies, and so on
- The ability to define all data, units, scale multiplier, and valid and specification limits plus the provision for performing calculations on data and treating the calculated values as original data
- Comparisons of data against internally generated standards for cycle times, costs, equipment uptimes, scrap and rework rate, and yields and reporting on any out-of-control or out-of-specification situations, with material disposition feedback
- Easy selection and reporting of data plus powerful statistical analysis capabilities
- Provision for machine interfaces for data gathering and equipment control
- The ability to easily define and install custom versions of the system and ease of user modification and expansion

A version of this product is available for the VAX computer.

Price: \$35,000 – \$175,000

Contact: Brian Taylor
(617) 263-3408

MICROPRODUCT TECHNOLOGY SOFTWARE, INC.
945 Concord Street
Framingham, MA 01701

Multicapp Process Planning/Classification and Coding

Operating System: RSX

Keywords: • Bill of materials • CAD/CAM • Electronic
• Inventory

Multicapp is a production-proven computer-assisted process planning system, designed for easy use by process planners and others involved in manufacturing. This on-line system for retrieval, maintenance, and standardization of process planning information includes detailed part information, routing information, and manufacturing instructions. Multicapp can be integrated with a company's existing MRP system or other CAD/CAM applications.

Included within the standard Multicapp package is the Multiclass Classification and Coding system, a flexible software system that allows the user to create and use multiple group technology classification and coding structures. Multiclass comes with a code for machined and sheet metal parts; other applications include tooling, assemblies, electronics, and electromechanical parts, as well as in-house or preexisting code structures. Multiclass makes the Multicapp Process Planning system useable by a wide variety of functions in the manufacturing environment.

The Multiclass Code Number is the key that allows the process planner to retrieve process plans for parts that are the same as or similar to the one on which the process planner is working. This code number can also provide the information necessary for a group technology approach to manufacturing standardization.

Additional modules that expand the usefulness of Multicapp include Automated Time Standards (ATS), Tool Tracking and Inventory, Mass Update, and Cost Calculation.

A version of this product is available for the VAX computer.

Price: \$85,125 – \$110,125

Contact: Luann Ebert
(617) 890-4030

ORGANIZATION FOR INDUSTRIAL RESEARCH, INC.
240 Bear Hill Road
Waltham, MA 02154

Multiclass Design Retrieval System

Operating System: RSX

Keywords: • CAD/CAM • Electronic • Graphics
• Purchasing

This system provides an interface among classification and coding, group technology, and computer graphics. The system expands the usefulness of computer graphics systems by making it possible to quickly and easily retrieve design and manufacturing information on a computer graphics terminal.

More specifically, the Multiclass Design Retrieval System provides a means of identifying and retrieving existing parts that are the same as or similar to new parts in design, based on shape and manufacturing characteristics. Key to the system is the Multiclass Classification and

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Coding module, a highly flexible software system that allows the user to build and use up to nine code structures, including codes for machined and sheet metal parts, assemblies, electronics, purchased parts, and tooling. Thus, the Multiclass Design Retrieval System can be used by many functions in the design and manufacturing environment.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Luann Ebert
(617) 890-4030

ORGANIZATION FOR INDUSTRIAL RESEARCH, INC.
240 Bear Hill Road
Waltham, MA 02154

Multigroup Group Technology Analysis

Operating System: RSX

Keywords: • CAD/CAM • Electronic • Engineering
• Process control

The Multigroup series of analytical and reporting programs provide the information necessary to standardize and optimize a user's CAD/CAM operations. Multigroup also provides a means of realizing mass-production economies and efficiencies in batch environments. The system groups similar parts into families for more efficient treatment in design and production. Specific benefits of Multigroup analysis include standardized routings, optimal machine tool usage and arrangement, manufacturing and design standards, reduced rework and scrap rates, and minimized throughput time.

Included within the Multigroup package is the Multiclass Classification and Coding system, which provides the structure that enables Multigroup to work with multiple code structures, such as for machined and sheet metal parts, tooling, assemblies, electronics, and electromechanical parts, as well as in-house or preexisting code systems.

A version of this product is available for the VAX computer.

Price: \$91,600 – \$146,000

Contact: Luann Ebert
(617) 890-4030

ORGANIZATION FOR INDUSTRIAL RESEARCH, INC.
240 Bear Hill Road
Waltham, MA 02154

NC Tape Verification for Manufacturing Operations

Operating System: CTS-300, RSX, RT-11

Keywords: • CAD/CAM • Pre- and postprocessors
• Production control

The numerical control (NC) tape verification and production drawing system provides production drawings for use in checking and verifying the dimensioning of the part to be stamped and for correcting tooling setup and machine operations before punching operations are initiated. The program saves production down time and set-up time, thereby increasing the utilization of the NC equipment. The man/machine interface provided uses prompting questions to aid the operator in data entry. The system has features for providing drawing annotation and legends, scaling, part development dimensions, and a description of the turret tooling to make the part, which then verifies the NC tapes by generating a finished drawing to the resolution of .005".

The system uses the standard tape generated by the tape-preparation system. Use of that tape eliminates any intermediary tapes or tape-handling operations. No errors occur in producing and verifying the final tape. The tape used by the NC machine will be drawn by the NC verification drawing system.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Joseph F. deSpautz
(609) 234-3666

APPLIED DIGITAL COMMUNICATIONS
214 Flynn Avenue
Moorestown, NJ 08057

NCPRO™

Operating System: RSX, RT-11

Keywords: • CAD/CAM • Computer-aided instruction
• Shop floor control

NCPRO is a menu-driven, interactive graphics part programming system. NCPRO's system features:

- NCPRO's powerful ability to read and use existing tapes.
- Brief user responses that eliminate detailed statements and automatically generate NC tape blocks.
- User-defined NC formats that eliminate the need for postprocessors.
- Embedded mathematics that eliminate manual calculations.
- Reformatting of existing tapes, including circular interpolation, leading and trailing zeros, and absolute to incremental.
- Automatic generation of lathe roughing cuts.
- Pocketing routines, including islands.
- Define Toolpath, which allows creation of several NC tape blocks at one time, with minimal user responses, as well as reverse Toolpath from existing tapes.
- Digitizing, which allows graphic determination of coordinates on existing tapes.
- The ability to adjust tool radius compensation.

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- Drilling, boring, and tapping cycles for machines without those canned cycles or the ability to maximize available cycle use.
- Macro capability for fast programming of repetitive sequences.
- Networking with NCNET, a field-tested DNC that eliminates the need for punched tape.

NCPRO features include full-function editor and menu-oriented graphics; graphic program display and verification of tool motion; backplotting — permits use of existing tape library without reprogramming; descriptive error messages and help prompts; single or multiuser capability; remote location and communications capability; support for complex multiaxis machine tools, as well as for popular routines for lathes, mills, machining centers, EDMs, punches, and other machine tools; full plotter capabilities; and a dot matrix printer and a tape reader punch.

NCPRO is easy to learn and fast to use, thereby improving NC/CNC productivity. With more than 2,000 RWT installations worldwide, NCPRO offers field-proven reliability.

A version of this product is available for the VAX computer.

Price: \$20,000 – \$40,000

Contact: Cole Oehler
(312) 952-1710

RWT CORP.
415 West Golf Road, Suite 28
Arlington Heights, IL 60005

NCTAPE (Numerical Control Tape Processing System)

Operating System: RSX

Keywords: • CAD/CAM • Data collection • Graphics

NCTAPE allows an NC programmer to create or modify NC programs quickly and easily. NC programs are created from computer-controlled measurement of a part, using a coordinate measuring machine and digitizer. Programs using linear and circular interpolation or linear interpolation may be created. Sequence numbers are generated automatically. Paper tape copies of a program may be punched in either RS244 or ASCII character code. An NC program may be modified to produce a part either larger or smaller than the original part. An NC program may also be modified so that one program produces several parts. The inspection capability included allows the dimensions of a part to be compared with the dimensions of a previously digitized part.

A version of this product is available for the VAX computer.

Price: \$6,000
Contact: Kenny Purcell/Jim Levie
(205) 536-8581
REMTECH, INC.
2603 Artie Street
Huntsville, AL 35805

NICAM III (Numeridex Integrated Computer-Aided Manufacturing)

Operating System: RSX, RT-11

Keywords: • CAD/CAM • Engineering • Graphics • Metals

NICAM III is an advanced NC/CNC programming system containing an automated formatter, advanced machine define capability, automatic tooling, motion, and other advanced control logic. NICAM III applies to the computer-aided manufacturing metalworking industry.

The system is easy to use and flexible to accommodate first-time NC programmers with the help file of 44 fixed definitions. More advanced NC programmers will appreciate the free-formatting option of the Numerical Control System (NCTS) geometry. Both methods of programming provide rapid response time combined with immediate graphics verification. Both color and monochrome interactive graphics are offered with the system, along with optional business software.

The system is supported through software maintenance and comprehensive easy-to-read user-oriented manuals. NICAM III can interface with most CAD/CAM systems to provide manufacturing engineers with a system that can accept a design data base file and process the information into NC machine-usable data (punched tape) or Direct Numerical Control (DNC) interface.

A version of this product is available for the VAX computer.

Price: \$20,000 – \$35,000
Contact: Mike Donnelly
(312) 541-8840
NUMERIDEX INC.
P.O. Box 11000
Wheeling, IL 60090

NMI Specialty Manufacturer's Package

Operating System: UNIX

Keywords: • Billing • Cost accounting • Materials handling
• Production control

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This package is designed for use by industrial manufacturers whose production requires strict use of detailed engineering specifications. This complete system is designed to keep track of production, from original quotes through raw material acquisition, to production, to final shipping and invoicing. The package is also compatible with most UNIX*-based word processors and all Version 7 utilities.

*UNIX is a trademark of AT&T Bell Laboratories.

Price: \$1,495

Contact: Mac McLaughlin, Inside Sales
(201) 953-9223

NORTON-MURPHY INTERNATIONAL, INC.
123 Claremont
Bernardsville, NJ 07924

NUFORM Level I

Operating System: RSX

Keywords: • CAD/CAM • Pre- and postprocessors
• Shop floor control

NUFORM Level I is a comprehensive system for preparing tapes and control data for N/C tools used in the 2½-axis mode. This mode is generally used for 3-, 4-, and 5-axis machining centers with two axes in continuous and simultaneous motion and all other axes in a positioning mode only, except for ramp cuts, and so on. The same philosophy and the same input handle 3-, 4-, and 5-axis machining centers, 2- and 4-axis lathes, point-to-point, punch presses, grinders, wire elox, flame cutters, and lasers. For example, the user does not have to learn a different system for lathes or punch presses, and so on.

The input to the NUFORM system is brief parameterized all-numeric input, which eliminates the heavy syntax and other troublesome characteristics of the alphanumeric systems and drastically reduces programming time and computer running time. The NUFORM system handles the full spectrum of geometrics, methods, and machining operations.

The system consists of a universal processor and postprocessors.

Available with NUFORM Level I are the following plot programs:

- Plot of coordinates used in defining the part
- Cutter center line plots in XY, XZ, YZ, including tool size and position plot for drill cycles
- Isometric and perspective plots
- Lathe and punch press plots
- Unfolding plot for machining centers with rotary tables

A version of this product is available for the VAX computer.

Price: \$6,000

Contact: A. S. Thomas
(617) 329-9200
A. S. THOMAS, INC.
355 Providence Highway
Westwood, MA 02090

NUFORM Level II

Operating System: RSX

Keywords: • CAD/CAM • Pre- and postprocessors
• Shop floor control • Simulation

NUFORM Level II provides the user with an interactive design tool for complex geometries. The system handles 3-dimensional contouring where three, four, or five axes may move simultaneously and continuously. The 3-dimensional plot capability permits the user to view the object at any desired orientation. The system is applicable to sculptured surfaces, such as airfoils, swarfing, and all 3-dimensional complex geometries (dies, molds, patterns, and so forth). The system has the full capability of blending surfaces and orienting the tool axis to any desired attitude with respect to the surface or surfaces.

The system consists of a universal processor and a postprocessor.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: A. S. Thomas
(617) 329-9200
A. S. THOMAS, INC.
355 Providence Highway
Westwood, MA 02090

OMNICONTR[®] and OMNIPREP[®]

Operating System: Independent

Keywords: • CAD/CAM • Data collection • Process control
• Shop floor control

OMNICONTR[®] is the ultimate CAD system for large and small facilities alike. It is designed to distribute tape code data to machines and to collect shop floor information. OMNICONTR[®] is well balanced, with hardware and software working together to solve machine tool application problems. The system's major components are the host module, behind-the-tape-reader interface, data display terminal, DNC increment, and program call-up box.

OMNIPREP tape preparation systems eliminate the costly process of manual tape preparation. OMNIPREP systems use SPLIT[®] programming language and are designed as flexible, low-cost disk-based systems that will reduce the time required to generate an NC part

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program. The system's major components are a line printer, plotter, tape/reader punch, data display terminal, and either a hard or a floppy disk drive.

A version of this product is available for the VAX computer.

Price: \$10,000 – \$100,000

Contact: Robert J. Samson, Vice President, Sales and Marketing
(815) 547-5321

CONTROLS AND DATA SYSTEMS
3615 Newburg Road
Belvidere, IL 61008

OPSA (Order Processing and Sales Analysis System)

Operating System: RSTS

Keywords: • Billing • Distribution • Order entry
• Sales and marketing

This comprehensive interactive order processing system is designed to satisfy the majority of on-line order processing requirements. It is integrated with White Hat's Inventory Management and Accounts Receivable systems, thereby allowing on-line customer verification and credit checking. Billing and shipping information is retrieved, along with customer cash discount terms, applicable product-line discounts, and sales tax information, to be used in pricing order line items. Orders may be released, modified, rescheduled, or canceled through on-line updating procedures. The system supports full or partial shipments, with multiple-order releases based on line-item shipment dates. Line information is provided to sales analysis for product and customer reporting. During order preparation, product and price data is accessed to provide pertinent ordering information for each product. Standard reporting capabilities include order status reporting, invoices, customer sales and product sales reports, product/price master list, picking sheets, and a backlog reporting module.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: John M. Montgomery
(617) 933-3780

WHITE HAT SYSTEMS, INC.
331 Montvale Avenue
Woburn, MA 01801

PC/DBS (Process Control Data Base System)

Operating System: RSX

Keywords: • A/D, D/A • Instrumentation • Process control
• Signal processing

PC/DBS simplifies the design, implementation, and documentation of process automation systems for both industrial plant and laboratory systems. The package focuses on developing control strategies. The user defines and names process elements in simple input statements that PC/DBS uses to create a data base. Process elements are sorted and stored in a name table accessible to all PC/DBS programs. User-defined alarms and control strategies are subsequently added to the data base.

Specifically designed for DIGITAL computers, PC/DBS is compatible with both PDP-11 and LSI-11 CPUs (running under RSX-11M Version 4.1), as well as with the KineticSystems LSI-11/23-based microcomputer system and full line of standard CAMAC (IEEE-583) process interface modules. Use PC/DBS to control, alarm, display, simulate, report, monitor, trend, document, scan, and log. The system features English-like control statements, self-generated documentation, high/low limits checking, multiple CRT/multiple access, conversion to engineering units, and remote debugging/diagnostics.

Price: \$14,000 – \$25,000

Contact: Roderick H. Wischermann
(815) 838-0005

KINETICSYSTEMS CORP.
11 Maryknoll Drive
Lockport, IL 60441

PENQUIN™

Operating System: CTS-300, RT-11

Keywords: • Inventory • Materials handling • Robotics
• Warehousing

PENQUIN is a complete fourth-generation software system providing a completely automated warehouse facility. PENQUIN combines the new technological areas of business automation and materials handling automation (robots), producing the totally automated warehouse. The system allows a huge storage facility to be run completely by one person.

On the business automation side, PENQUIN produces all paperwork required in any public warehouse, as well as keeps track of warehouse contents. Warehouse customers are provided with total inventory control, either by reports generated at the warehouse or by accessing the warehouse computer remotely via telephone lines. More than 100 warehouse office automation functions are included. Modern data base management techniques support a completely integrated information management facility.

On the automated materials handling side, PENQUIN monitors and commands both conveyors and stacker cranes (robots), which move pallets of material around the warehouse, in and out of storage. PENQUIN provides high-level control of all materials handling equipment.

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For example, one can withdraw different commodities from the warehouse at different rates of speed, depending on the priority of the shipment to be loaded onto waiting trucks or railcars.

The entire system can be operated successfully with minimal training by anyone with marginal typewriter keyboard skills. The computer system is so intelligent that it prevents personnel from creating errors or introducing ambiguities but gently aids PENQUIN users in clarifying their requests.

The PENQUIN host system runs on DIGITAL PDP-11 minicomputers and LSI-11 microcomputers. PENQUIN can be run in any frozen, refrigerated, or dry storage.

Price: Available upon request

Contact: Peter McWha, General Manager
(613) 820-1517

LOGICAID LTD.
97 Craig Henry Drive
Nepean, Ontario K2G 3S8
Canada

Perspective/500 Bill of Materials System

Operating System: RSTS

Keywords: • Bill of materials • Cost accounting • Inventory
• Order entry

The Bill of Materials System allows the user to define the components of a finished-good item. The components may be raw materials, labor operations, or special components (such as selling price) to allow computations of expected selling margins.

When a new bill is entered into the system, the raw material item number is verified against the Inventory Master File. Once a bill has been established for a finished good, components may be added or deleted, and quantities may be adjusted.

Usage quantity is entered for each raw material. Scrap amounts may be entered if desired. Labor is entered in units of time and costed at standard labor rates. Special components are entered with their actual cost (for example, royalty expense, die cost, and overhead).

On a demand basis, the BOM file may be exploded for one finished good, a range of items, or the complete file. As each bill is accessed, the current cost and the standard cost are retrieved from the Raw Materials Inventory File. The total material cost is added to labor and special components (if any), to arrive at a total standard and total current cost figure for each bill.

As finished goods complete the manufacturing process, the following data is entered into the production explosion program: finished-good item number, job ticket number, and quantity produced. This data is submitted to a batch processor that posts finished-good inventory (adds to on hand and receipts), relieves raw material inventory (subtracts from on hand), and prints an audit trail of production posted.

The system accepts raw material item numbers from the operator. When all have been entered, a batch process develops a report that shows which finished good(s) each raw material is used in, along with the usage quantity.

A version of this product is available for the VAX computer.

Price: \$15,000 – \$50,000

Contact: Michael B. Andelman, President
(312) 953-2220

LIOCS CORP.
246 E. Janata Boulevard
Lombard, IL 60148

Perspective/500 Manufacturing

Operating System: RSTS

Keywords: • Bill of materials • Cost accounting
• Financial analysis • Inventory

Liocs has developed formula or single-level costing and bill of material, raw material, and work-in-process inventory control, purchase ordering for nonstock items, job scheduling, job costing, optimum stock material usage for manufacturing component items from raw material, and a cost/price estimating system. An "off the shelf" single-level bill of material system can be used with our inventory control module. This system allows end item numbers to be entered and verified along with acceptance of component items and quantities, which are also verified against the inventory file (warehouse "R"). This data is used to perform explosions showing the component item number, description, quantity, and standard and current costs. The system allows entry of production receipts by finished-goods item numbers, which are then used to be exploded by the BOM processor, with subsequent relief of component on-hand quantities. Implosions are also permitted whereby component items may be entered, with the system printing a where-used report showing all finished goods using the specified component item.

A version of this product is available for the VAX computer.

Price: \$15,000 – \$50,000

Contact: Michael B. Andelman, President
(312) 953-2220

LIOCS CORP.
246 E. Janata Boulevard
Lombard, IL 60148

PICAM

Operating System: RSX

Keywords: • Management • Production control
• Shop floor control

PICAM is Pine Instrument Company's new MRP package designed for use by smaller manufacturing firms. It is extremely flexible and can be installed easily by personnel who have little or no data processing experience. PICAM's design ensures that no special data processing skills are required. Current personnel, with proper education in the use of MRP methods, will be able to operate PICAM.

PICAM's capabilities include MRP processing, master scheduling, rough-cut capacity planning, maintenance of item master records, bill of material maintenance, order entry and shipping dispatch, shop order processing with manufacturing text capability, capacity-requirements planning, shop floor control (including job time collection), and cycle counting.

Basic capabilities are the same on any of the compatible PDP-11 models. Companies having larger operations or greater numbers of users can be accommodated with one of the larger PDP-11s. Smaller firms will benefit from the low initial investment required to support the full capabilities of PICAM.

Price: \$25,000

Contact: Allen Duberstein
(412) 831-8870

PINE INSTRUMENT CO.
3345 Industrial Boulevard
Bethel Park, PA 15102

PMC-11 (Real-Time Process Monitoring and Control System)

Operating System: RSX

Keywords: • A/D, D/A • Graphics • Process control
• Production control

PMC-11 maintains an image of an external continuous process and recognizes and reacts to significant changes according to strategies defined by the process engineer. Message generation and alarm handling are provided. PMC-11 displays the process in any number of pictures on graphics color monitors. The operator can control the process via an operator interface to enter set point values, on/off switching, select pictures, and others. Closed-loop supervisory control as well as historical data collection are part of PMC-11.

The user need only describe the process data to obtain a running system by an automatic generation procedure. If unusual monitoring and control procedures are required, the process engineer can implement them as special user-programmed actions, since PMC-11 also has an external FORTRAN interface.

Descriptions and programming are based on external process names, that is, customer name. PMC-11 can run on distributed systems and supports up to thousands of digital and analog channels, using DIGITAL's standard I/O systems MIOS or CMR.

Price: \$36,000

Contact: Bodo Klawitter
089/9591-1197

DIGITAL EQUIPMENT GMBH
Freischutzstrasse 91
8000 Munchen 81
West Germany

PMIS (Plant Management Information System)

Operating System: RSTS

Keywords: • Accounting • Maintenance
• Property management • Purchasing

PMIS is an on-line system that provides all plant responsibility areas with the information necessary to improve productivity. The information now available is as follows:

- Maintenance — bill of material, work order histories, equipment histories, preventive maintenance and repair work order scheduling, and materials and manpower availability for planning
- Purchasing and inventory control — reorder messages and information, stock-out messages, lead times/vendors, expediting, perpetual counting, and issue histories
- Stores — issues and receipts, identification by class/subclass and by manufacturer's part number, inquiry by where used, and picking slips
- Accounting — complete costing of materials and labor assets budgeting; cost reports for operations, administration, and maintenance; fixed assets and capital project control; control of payment of invoices; preissue of material and spare parts; preventive maintenance work orders; reorder, stock-out, and expedite messages; and requests for perpetual counting of inventory

PMIS can be adapted to circumstances prevailing in a particular plant. Since PMIS is modular, a client need not purchase all the functions.

PMIS is available as a turnkey system consisting of operating system software, application software, installation, training and documentation, ongoing system support, and computer hardware.

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A license to run PMIS software may also be purchased. This option includes application software, installation, training, and documentation.

A version of this product is available for the VAX computer.

Price: \$105,000

Contact: George K. Fleming, President
(807) 622-5480

G. K. FLEMING & ASSOCIATES LTD.
1118 Roland Street
Thunder Bay, Ontario P7B 5M4
Canada

PMST (Preventive Maintenance Scheduling and Tracking System)

Operating System: RSX, RT-11

Keywords: • Maintenance • Scheduling

PMST provides a tool to ensure that preventive maintenance is scheduled for a large number of pieces of equipment at correct time intervals. The system also provides status reports of preventive maintenance currently scheduled and documentation of completed preventive maintenance. The system also supports many other useful functions.

A version of this product is available for the VAX computer.

Price: \$4,000 – \$7,000

Contact: Ralph M. Flanders, President
(615) 966-6832

CUSTOM COMPUTER SOFTWARE, INC.
1108 Woodshire Drive
Knoxville, TN 37922

P/O (Purchase Order and Receiving)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Distribution • Purchasing

P/O is a vital function to distribution companies as well as to many manufacturing companies, as some production problems are created by late deliveries from vendors and by rejection of critical deliveries due to poor quality.

P/O helps ensure that the correct quantity and quality of material are available when needed and wanted. Improved methods of vendor analysis help reduce shortages as well as the delivery of off-standard material.

One of P/O's major benefits is better use of the buyer's time. The semiclerical activities that often consume much time — searching for a copy of an order, trying to discover if a delivery was received, for example — are reduced or eliminated. The buyer thus spends more time

seeking a better price while maintaining reliable sources of supply. From purchase orders placed, the cash requirements for accounts payable can be developed.

The coordination function performed by Receiving significantly reduces the overall time from receiving to stores. Critical material can be delivered to the correct designation much more quickly. Where documents or information is missing, P/O provides extensive information to help identify the receipt.

P/O, which requires MCBA's Inventory Management (I/M) and Accounts Payable (A/P), includes the following capabilities:

- Allows on-line entry and editing of purchase orders and entry of receipts
- Supports blanket purchase orders and scheduled receipts reporting
- Prints purchase orders
- Provides powerful vendor analysis and on-line cash requirements inquiry
- Allows the user to report rejects at receipt time
- Notifies the user when early shipments and over/under shipments occur
- Supports multiple vendors per item
- Allows for preentered table-driven notes and manually entered notes for each purchase order and/or line item
- Interfaces to three other MCBA application packages
- Supports multicompanies and password security

A version of this product is available for the VAX computer.

Price: \$3,000 – \$4,500

Contact: Sales Representative
(818) 957-2900

MCBA, INC.
2441 Honolulu Avenue
Montrose, CA 91020

PRO (Process-Oriented Software)

Operating System: Independent

Keywords: • Data collection • Process control

PRO, a self-contained package for real-time data acquisition and process control, contains its own incremental compiler, on-line editor, operating system, run-time library, and I/O drivers in less than 16K words. Scanning, alarming, and either direct digital or supervisory control are readily invoked on-line, by entering only the required I/O specifications and control parameters, as are algorithms for such functions as digital filtering, lead-lag, and delay time. Special calculations, sequential control, log formatting, special displays, and other user-defined tasks are provided for using an English-based language similar to BASIC, thus enabling system tailoring to specific applications. All user interaction and editing may be done on line using PRO's high-

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level language. PRO combines ease of use of an interactive interpreter, such as BASIC, with the speed and efficiency of FORTRAN in a system small enough to use PDP-11 or LSI-11 hardware, without memory management or bulk memory, thus minimizing cost and increasing reliability for small systems.

Price: \$5,000 – \$7,500 +

Contact: Louis Benton, President
(619) 453-0303

STAFF COMPUTER TECHNOLOGY CORP.
10457-J Roselle Street
San Diego, CA 92121

PROFIT II

Operating System: RSTS, RSX

Keywords: • Accounting • Cost accounting • Inventory
• Payroll

The PROFIT manufacturing system is a modular, on-line, interactive, and completely integrated manufacturing control, costing, and planning system. The suggested sequence for installing the PROFIT system is as follows:

- Phase I: Control your manufacturing operation — inventory analysis, physical inventory, customer billing, work orders, labor reporting, material reporting, routings, net material requirements, multilevel bill of materials, and system control
- Phase II: Cost your manufacturing operation — sales order processing, sales analysis, customer service, purchase order processing, inventory average costing, payroll processing, work order costing, work order budget reporting, and same as except for routings
- PHASE III: Plan your manufacturing operation — financial planning, master scheduling, material requirements planning, capacity requirements planning, same as except for bill of materials, and new-product estimating

In most companies the accounting applications — accounts receivable, accounts payable, general ledger, asset accounting, statement printing, budget printing, and schedule printing — may be installed at any time and therefore are not included in any specific phase. Since the system is modular, you may choose different applications within a phase for your installation.

A version of this product is available for the VAX computer.

Price: \$10,000 – \$100,000

Contact: David E. Capel, Vice President
(415) 930-9932

COMPUTER SYSTEMS DEVELOPMENT, INC.
140 Mayhew Way, Suite 700
Pleasant Hill, CA 94523

PROFITKEY® Manufacturing Control System

Operating System: RSX, ULTRIX, UNIX

Keywords: • Inventory • Order entry • Production control
• Scheduling

PROFITKEY gives chief executive officers and their staffs the tools required to plan and control company efficiency, thus maximizing profits. This on-line interactive system will help your company reduce inventory and overtime and increase cash flow, customer service, and direct labor output. PROFITKEY provides the tools for master scheduling, materials requirements planning, shop floor control, and purchasing and the supporting financial and accounting functions.

PROFITKEY is a transaction-driven, user-oriented system that provides the following exclusive displays:

- The MASTER SCHEDULER'S WORKBENCH® display provides the tools to develop and change the master schedules, forecasts, and planning bills as required.
- The PLANNER'S WORKBENCH® display provides the tools to firm, release, and reschedule orders and to inquire for the status of any requirement, order, item, or bill of material.
- The DISPATCHER'S WORKBENCH® display provides the tools to inquire and update operations, routings, and work center loads.
- The PURCHASING WORKBENCH® display provides the tools to inquire and update purchasing and vendor information.

PROFITKEY will run on any hard disk system using Ryan McFarland COBOL, including microcomputers.

A version of this product is available for the VAX computer.

Price: \$6,000 – \$32,000

Contact: W. W. Dockins
(305) 743-7400

KEY SYSTEMS, INC.
P.O. Box 1319
Marathon, FL 33050

PROSCON (Process Control and Management System)

Operating System: RSX

Keywords: • Data collection • Metals • Process control

This system provides software for industrial data acquisition, monitoring, process control, and management and includes programs for process research and modeling. PROSCON runs in LSI-11 PDP-11 multiprocessor environment and has special programs for mineral concentrator control, submerged arc furnace modeling and control, hydro-metallurgy, blast furnace energy consumption optimization, and mine ventilation control.

618 Manufacturing

Price: Available upon request

Contact: Tom Pahlman
(90) - 4211

OUTOKUMPU OY
Engineering Division, P.O. Box 27
02201 Espoo 20
Finland

Purchase Order Processing

Operating System: RSX

Keywords: • Accounting • Information management
• Inventory • Purchasing

This module processes purchase orders for mailing, tracks open commitments, records material receipts, and prints a variety of reports, including open P.O. summary, expediting, receiving, and cash requirements. The module can be operated independently or as part of a fully integrated system, interfacing automatically with one or more of accounts payable (for matching invoices to purchase orders and reducing open commitments), inventory control (to increase inventory when material receipts are recorded and to show material on order on inventory reports), and job cost (to reflect open commitments and/or material receipts on job cost reports). Operation is fully interactive, with reports and video screen displays available on demand.

A version of this product is available for the VAX computer.

Price: \$4,000

Contact: Janna McMillan
(617) 275-5810
BREUER & CO.
54 Middlesex Turnpike
Bedford, MA 01730

QMS PROGRAMS™

Operating System: RSX

Keywords: • Quality control • Statistics

QMS PROGRAMS, an integrated set of computer program modules that manage quality-control information, provide for the on-line collection, documentation, storage, reporting, and analysis of quality test and inspection results. Unique features include the PROTOCOL dialog allowing users to custom tailor any number of QC applications within a single system; data entry from a variety of devices, including a compatible automatic screen generation module, EZDATA; interactive reporting and/or statistical analysis capabilities in a variety of user-controlled formats; on-line help messages; simulation capabilities that allow what-if games with new-product startups; and built-in graphics.

A version of this product is available for the VAX computer.

Price: \$8,000 – \$45,000

Contact: John Sivertson
(609) 924-7904

JOHN A. KEANE AND ASSOCIATES
20 Nassau Street
Princeton, NJ 08540

QUOTE (Manufacturing Cost Estimating)

Operating System: RT-11

Keywords: • Cost accounting • Financial planning
• Simulation

Making sure that you have the proper cost ratios will help ensure that your business will remain profitable. These 14 programs can be used by either sales or accounting departments.

The price quotation program QUEST produces a quote that looks like a financial statement. The user enters in the number of hours required in six labor categories plus the cost of the parts that will be used. The computer then adds engineering, production, sales and G&A overheads, plus estimated taxes and profit, to compute your selling price. Labor rates and overhead rates are stored in the program and can be changed by the user when needed. This program package is ideal for the job shop type of business.

Program QUOTE2 allows you to determine a standard discount rate for your product line by computing the production learning curve in your shop. The program then computes 17 price breaks covering 1 to 10,000 units. This program also allows you to estimate your competitor's discount schedule.

Other programs in the package compute and print out discount schedules and price breaks for various price curves in the quantities you specify.

The easy-to-use programs are written in BASIC-11 and are supplied on one RX02 8" diskette. You might be able to use them on RSX and RSTS operating systems via special utilities on those systems.

On-site support is available. A manual is included.

Price: \$350

Contact: Raymond H. Green, President
(813) 360-1967

RAY GREEN AND ASSOCIATES
603 55th Avenue
St. Petersburg Beach, FL 33706

Real-Time Production Monitoring System

Operating System: RT-11

Keywords: • CAD/CAM • Data collection • Production control
• Shop floor control

This system continuously and automatically monitors the performance of machines, jobs, and operators. Production count is obtained directly from the machine through sensors that indicate that a part has been produced. Unique terminals at each machine provide for communications and down-time control. Real-time VT displays include plant status (running or down and reason) and summaries of down time and production. Output data is provided for production reporting, daywork/incentive measurement, and inventory accounting.

Price: \$45,000 – \$90,000

Contact: R. Kissner

(914) 948-4300

INFORMATION AUTOMATION INC.

925 Westchester Avenue

White Plains, NY 10604

SCHED (Manufacturing Scheduling System)

Operating System: RT-11

Keywords: • Order entry • Production control • Scheduling
• Shop floor control

This sales tracking and production control system is designed to give you fast, accurate knowledge of the status of any job in your manufacturing process. The system, designed primarily for the job lot manufacturer, is ideal for handling up to 2,000 work orders or job lots per year but can be modified to handle many more.

All orders are entered when received, and a production work order that starts your process is printed. Due dates for material and three inter-plant departments are assigned. As your product moves through your plant, you enter, on your terminal, the dates work is completed in each department. When units are shipped, the accounting department enters those from their invoice, along with the value. When a job lot is completed, the value of the lot is checked against the lot value recorded on the original order entry.

Monthly reports can be run listing all orders received, all units shipped, the value of work in process for each month it is due, and the total value of work in process. You can also look up the status of any job in your plant or print out a listing of the status of all the jobs in your plant.

Other options allow you to look up by customer name the status of all jobs in the plant for that customer and to look up orders by customer purchase order number. You can also print a report of the percentage of on-time versus late shipments.

These programs are written in BASIC-11. You might be able to use them on RSX and RSTS operating systems via special utilities on those systems. The programs are supplied on one RX02 8" diskette. A user's manual is also provided, and on-site support is available.

Price: \$1,950

Contact: Raymond H. Green, President
(813) 360-1967

RAY GREEN AND ASSOCIATES
603 55th Avenue
St. Petersburg, FL 33706

SFC (Shop Floor Control)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Report writer • Scheduling • Security
• Shop floor control

This stand-alone application is a comprehensive and practical shop floor tool used for the creation and monitoring of shop orders and related shop floor activity. In addition to interactive entry and editing of shop orders, SFC:

- Supports "shop bills" and "shop routings"
- Provides operation-level controls; forward, backward, and manual scheduling of shop orders down to the operation level; capacity requirements planning; and exception reporting to highlight problem areas in the shop
- Records scrap and rejects
- Accommodates shop notes
- Records and accumulates actual material used and labor hours expended
- Prints a dispatch list
- Allows multiple shop orders to be directly connected to a job
- Supports a daily calendar in month-day-year format cross-referenced to shop days
- Interfaces to six other packages in MCBA's manufacturing system
- Supports security and multicompany capabilities

A version of this product is available for the VAX computer.

Price: \$4,000 - \$6,000

Contact: Sales Representative
(818) 957-2900

MCBA, INC.
2441 Honolulu Avenue
Montrose, CA 91020

SFC (Shop Floor Control and Job Costing System)

Operating System: RSTS

Keywords: • Cost accounting • Production control
• Scheduling • Shop floor control

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SFC is a comprehensive interactive system capable of routing, costing, and load determination. By maintaining files for customers, work centers, employees, and routings, the system enables the production department to record, analyze, and manage shop floor activity. Shop orders are entered via an on-line terminal with operator prompting. Transactions are entered against operations within a job, enabling the user to track the flow of the job through the shop floor.

A variety of transaction types permits distinguishing between setup and run operations and standard and rework activity. Variances from setup and run-time estimates are calculated and used to compute the efficiency of both employees and work centers. Rejects and rework transactions are reported. Job Shop Control determines the shop load for up to 13 weeks and provides information concerning load hours by work center to assist in scheduling. Reports are generated, including a full set of master file lists, open job listings, job cost analysis, shop load and work center schedule reports, and a weekly report package consisting of direct labor analysis, work center utilization, and reject/scrap analysis.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: John M. Montgomery
(617) 933-3780

WHITE HAT SYSTEMS, INC.
331 Montvale Avenue
Woburn, MA 01801

SPC (Standard Product Costing)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Cost accounting • Purchasing

SPC is an interactive, comprehensive tool that accurately maintains standard or estimated costs for both manufacturing and accounting management and keeps up-to-date current costs for all products, parts, and services provided by a company. Those costs are used by management for planning and budgeting to maximize profits. Deviations of current costs from planned objectives are identified for management attention. Since SPC is integrated with MCBA's Inventory Management and Standard Product Routing packages, labor and material figures are automatically kept consistent. SPC provides the following capabilities:

- Speeds installation by creating the initial cost master file automatically from the item master file
- Maintains two sets of costs: beginning-of-the-year cost projections (standard) and up-to-date (current) costs
- Maintains value-added costs at each level of the bill of material and accumulates costs from lower levels of the bill of material

- Separates both standard and current costs into material, labor, fixed burden, and variable burden
- Handles multiple departments and work centers with flexible, user-defined tables to define overhead, labor grades, locations, job and cost types, and various status codes
- Calculates labor for each operation for each item, using the standard routing
- Uses the current bill of material to build up costs for user-selected items
- Provides costed bill of material reports in single-level, indented, and summarized formats
- Provides critical ratios such as gross margin percentages and cost variances
- Facilitates what-if cost analysis
- Highlights current purchase prices deviating from the standard material costs on the Purchase Price Variance Report
- Replaces standard costs with current costs for all or selected items
- Interfaces to four other MCBA packages
- Supports multiple companies and password security

A version of this product is available for the VAX computer.

Price: \$2,500 – \$4,000

Contact: Sales Representative
(818) 957-2900
MCBA, INC.
2441 Honolulu Avenue
Montrose, CA 91020

Spider II Manufacturing Planning and Control System

Operating System: UNIX

Keywords: • Cost accounting • Inventory • Production control
• Shop floor control

Spider II is a fully interactive closed-loop manufacturing control system encompassing production planning, production control, material planning, material control, and cost control. The system's modular approach allows the user to purchase only the applications required. Spider II can also expand into a fully integrated accounting and manufacturing system.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Sam Bishop, Vice President, Sales
(312) 879-1008
UNIQU DIGITAL TECHNOLOGIES
143 First Street
Batavia, IL 60510

SPR (Standard Product Routing)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Maintenance • Process control
• Production control • Report writer

SPR, the MCBA Manufacturing System application package that handles the creation, maintenance, and reporting of data describing operations, tools, and notes used in standard product manufacturing, is sometimes referred to as the bills of labor package. SPR is oriented toward small- to medium-size repetitive manufacturers (make-to-stock/assemble-to-order); small- to medium-size job shops (make-to-order/engineer-to-order) will also find it useful for repetitive jobs.

SPR is efficiently designed, taking advantage of space-saving techniques, such as general routings and specific routings. General routings are subsets of operations, tools, and notes that are common to more than one product. Specific routings identify complete sets of operations, tools, and notes used in a product's manufacture. In SPR, several products or items can use the same routing. Specific routings are complete routings (the route or path a shop order travels when being manufactured) and can incorporate general routings.

SPR accesses all features easily, via menus, and includes the following capabilities:

- Allows interactive entry and editing of routing data — operations, tools, notes, and pointers to general routings — and provides for alternate routings
- Maintains labor standards at the operation level
- Supports “same-as-except” routings — a way of easily creating a new routing by copying another — and allows routings to be copied into a shop order in MCBA's shop floor control package
- Supports many operation types, including productive (most common), setup, move, rework, and so on
- Provides routings for multiple locations per item, tooling information control, and standardization of multiusage operations
- Facilitates higher accuracy of standards by allowing user-specified location of the decimal point in critical fields
- Supports the user in tailoring standard hours, allowing per piece, per 10 pieces, per 100 pieces, and so on, or n pieces per hour
- Stores notes by operation, which can be used for operational instructions
- Prints routing sheets, routing summary sheets, and the general routing usage report
- Interfaces to four other packages in MCBA's Manufacturing System
- Supports multicompanies and password security

A version of this product is available for the VAX computer.

Price: \$1,500 – \$2,500
Contact: Sales Representative
 (818) 957-2900
 MCBA, INC.
 2441 Honolulu Avenue
 Montrose, CA 91020

TEC Manufacturing Systems

Operating System: CTS-300, RSTS, RSX, RT-11, UNIX
Keywords: • Bill of materials • Financial management
 • Inventory • Production control

TEC supplies manufacturing and financial systems for discrete manufacturers and job shops. TEC's proprietary software automates the following functions: accounts payable, accounts receivable, bill of materials, general ledger, inventory control, material planning scheduling, materials requirements planning, order entry/invoicing, payroll, production control, purchasing, and sales analysis. The modular, on-line, and fully integrated TEC manufacturing system is sophisticated yet easy to use.

ENGLISH, TEC's data retrieval language, allows the user to ask questions of the system and to obtain instant answers either on a terminal display or on a printer. Also available is a prospect tracking system that maintains information on customers and prospects.

A version of this product is available for the VAX computer.

Price: \$3,000 – \$8,000
Contact: S. A. Levine
 (617) 964-3890
 TEC COMPUTER SYSTEMS, INC.
 30 Tower Road
 Newton, MA 02164

TIP (Tankage Inventory and Yields Programs)

Operating System: CTS-300, RSTS, RSX, RT-11
Keywords: • Chemical • Inventory • Petroleum
 • Report writer

TIP is an interactive inventory, transfer accounting, and yield system for refiners and petrochemical companies. TIP provides inventory, yields, and transfer accounting reports within minutes.

Data entry is error-checked at entry time to provide inventory reports at the rate of 3 seconds per tank and transfer reports at the rate of 13 seconds per transfer, entry time included.

For a 100-tank refinery, the total process takes about 25 minutes a day. Using the optional AID report writer, nonprogrammers can design and run custom reports with two hours of training.

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A version of this product is available for the VAX computer.

Price: \$10,000 – \$14,000

Contact: W. G. Welter
(713) 373-1905

ADVANCED MANAGEMENT TECHNOLOGIES
P.O. Box 71
Cypress, TX 77429

TRACS/2 Tool Management System

Operating System: RSX

Keywords: • Inventory • Materials handling • Metals
• Scheduling

TRACS/2 is an inventory management system for the metalworking industry and is designed specifically to control cutting tools and to process the issue, tracking, and return of cutting tools from the tool store-room. TRACS/2 issues packages of tools for specific manufacturing tasks, such as bill of tools. The bill of tools function allows planners to check the inventory status of all tools on the bill of tools prior to scheduling the job. Programs for allocation, issue, and return of the bill of tools make handling of BOTs easy and efficient.

TRACS/2 keeps a check on inventory levels in the tool crib; when inventory levels reach reorder point, the system generates a requisition of all tools to be ordered, by vendor. Once a purchase order number is assigned, TRACS/2 will track the purchase order until received.

A complete menu of management reports is available for tracking and management of inventory. DATATRIEVE is used as the report generator and to create additional reports.

A version of this product is available for the VAX computer.

Price: \$28,500 – \$68,500

Contact: Ronald C. Hutton, Sr., Systems Sales Manager
(215) 797-6600

STANLEY VIDMAR INC.
Division of The Stanley Works
11 Grammes Road, P.O. Box 1151
Allentown, PA 18105

UDS Job Costing/Work in Process

Operating System: CTS-300

Keywords: • Accounting • Inventory • Production control
• Project management

Sifting through the maze of records pertaining to an active job is simplified by this module, which uses a wide-ranging series of submodules and programs that place the important details at your disposal on a regular basis. Using the combined benefits of five separate submodules

— labor ticket processing, parts, list of materials, operation sheets, and parts inventory — this module offers a comprehensive selection of features:

- A work-in-process (WIP) record is created for each open order. The entry that creates that record references the list of materials (LOM) for the ordered item to build a record composed of labor, operations, and parts. Previous part costs and labor costs, based on standard operation times, are used to establish job cost estimates. An LOM, operations listing, and purchasing LOM (which combines like items) are printed. This program allows a list of materials with up to five levels of indention.
- The file is then sorted, and the WIP file is updated with new information.
- Input to the work in process is provided through the labor ticket, accounts payable, and inventory transactions. All updates occur after printing of a transaction register.
- Reports include WIP, job status, and exceptions (where actual exceeds estimate).
- Changes are permitted to individual work-in-process records.
- Also available are programs to calculate WIP month-end costing for both complete and partial shipments, with posting to the WIP header.
- A CRT display shows the status of any shop order.
- A labor efficiency report highlights the performance of employees against job standards.
- If job requirements change, the program permits the job to be updated through an “explosion” process that retains current cost data while allowing new or changed entry items to be added.

A version of this product is available for the VAX computer.

Price: \$2,500 – \$7,000

Contact: Zane R. Oaks, Marketing Manager
(513) 890-1800

PROJECTS UNLIMITED, INC.
P.O. Box 14538
Dayton, OH 45414

VTerm (Virtual Terminal Program)

Operating System: RSX

Keywords: • Communications • Networking • Translators

This program enables a user to communicate asynchronously over a serial line with another computer. The RSX user's terminal, which must be a VT100-type terminal, appears to be directly connected to the other system. All keystrokes from the RSX terminal are transmitted to the other computer, and all characters from the other computer are displayed on the RSX terminal. The program can also transmit and

receive files over the serial line. XON/XOFF is supported. The program can be used with a protocol converter to communicate synchronously with mainframe systems.

Price: \$500

Contact: Kenny Purcell
(205) 536-8581
REMTECH, INC.
2603 Artie Street
Huntsville, AL 35805

WWRAP (Wire Wrapping)

Operating System: CTS-300, IAS, RSTS, RSX, RT-11

Keywords: • CAD/CAM • Electrical

WWRAP is a general-purpose fully interactive program for the production of control tapes for semiautomatic wire wrapping machines. Wiring board geometry is entered via the VDU keyboard, and standard boards and individual connectors that are in constant use are stored in a master file and may be called up whenever required. Data in either string or from/to format can be input directly from a schematic drawing, thus permitting errors to be detected as they are entered. Alternatively, existing CAD programs can be interfaced directly with the wire wrapping program. Editing facilities are available that permit changes to data and wiring procedures to be effected quickly. New control tapes are then produced.

Special features include single- and twisted-pair wiring; level assign; point-to-point, right angle, or specially routed wiring, using routing points, channels or "nogo" areas; area routing; wire grouping and sorting; wrap count; inch/metric conversion; and wire usage.

A version of this product is available for the VAX computer.

Price: £12,500

Contact: K. E. Cole
(0905) 53335
STAVELEY COMPUTING
Blackpole Road
Worcester WR3 8TH
England

Media



Ken Robert Buck/The Picture Cube

BRLLP (Print-Out Braille Conversion Program)

Operating System: RSX

Keywords: • Documentation • Printing • Text management

Memory required: 14KW.

The cost of commercial Braille line printers can range up to \$20,000. Therefore, potential users who are blind or employers of the blind may be interested in the short FORTRAN Braille-Generating Program. Three-ply paper can be used on a DECwriter, or 2-ply paper can be used on an impact drum printer to receive the Braille output when the period character is embossed. The multiply paper provides enough cushioning to produce a light but readable Braille, without the need for expensive modifications to existing output equipment. DECUS number 11-509.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

CMS-11 (Circulation Management System)

Operating System: RSTS

Keywords: • Financial analysis • Recruiting

This complete subscription fulfillment software includes ABC/BPA reporting, financial reports, and promotion analysis.

A version of this product is available for the VAX computer.

Price: \$10,000 – \$20,000

Contact: Paul B. Webster, President
(213) 577-7433

ALCOR FINANCIAL SERVICES, INC.
1981 E. Locust Street
Pasadena, CA 91107

CMS (Cable Television Management System)

Operating System: CTS-300, RSTS, RT-11

Keywords: • Billing • Broadcasting • Data base management
• Telecommunications

This on-line interactive system for cable television system operators is built around a Subscriber Master File to which subscribers may be added, changed, deleted, or listed. A Subscriber List may be obtained in total or on a selected basis — type of service, installation date, paid-through date, method of payment, and geographic location.

The system capabilities include an alphabetical listing of subscribers, automatic assessment of monthly and yearly charges for any number of basic or pay TV services, bank draft preparation for each bank for bank draft subscribers, interactive entry and editing of new charges and payments, printing of past-due notices for delinquent subscribers, generation of statements for selected subscribers, account status on

video terminal and obtaining a printed copy upon request, printing of welcome letters and subscriber account cards upon request, and tracking converter serial numbers by subscriber.

The system generates reports and a charge/payment register by late charges, disconnect, street, daily cash receipts, weekly, and installer's productivity. The system also interfaces with addressable converters and taps manufactured by a number of major suppliers to the cable television industry, including Jerrold, Scientific-Atlanta, and Control Com.

A version of this product is available for the VAX computer.

Price: \$15,000 +

Contact: Larry Edwards, President
(803) 292-0840

BUSINESS SYSTEMS, INC.
2720 Wade Hampton Boulevard
Greenville, SC 29615

E*FACE

Operating System: RSX

Keywords: • Communications • Forms management
• Graphics • Printing

E*FACE is an on-line interactive system that manages document creation and updates by storing and controlling documents or forms created on electronic graphics workstations, managing communications to a mainframe, and sending outputs to a phototypesetter or nonimpact printer. E*FACE builds a data base of all input from an area network of graphics workstations. The centralized document storage eliminates multiple copies from multiple workstations. You can access the data base for standard repetitive information rather than entering the text on each workstation. You can also access any document from any workstation.

The user-friendly menus guide the technical novice through the system. A search-and-select feature allows you to access documents by name, date, or creator. E*FACE also assembles forms/documents for sequential printing and allows several job status options: HOLD, DELETE, and PRIORITY.

E*FACE not only transmits documents to the mainframe for storage but also retrieves them for edits and updates. Since E*FACE allows mass storage of forms/documents, you can virtually eliminate the need for multiple diskettes. Backup facilities and archiving take the worry out of losing valuable data.

An audit trail helps you manage operator activity by tracking creation, enhancements, and updates of documents. In addition, you can control system access with the security feature.

E*FACE interfaces with DOCUFLEX, the automated document production and management system, to handle all your electronic publishing needs.

Price: \$22,000 – \$40,000

Contact: Phyllis Purcell, Marketing Manager
(214) 369-7494

IMAGE SCIENCES
8350 N. Central Expressway
Dallas, TX 75206

FACS — Newspaper Circulation and Accounts Receivable

Operating System: RSTS

Keywords: • Accounts receivable • Billing • Printing

The FACS Circulation package is a comprehensive newspaper distribution system centering on the Total Market Coverage (TMC) concept. The software combined with the FACS Newspaper Accounts Receivable System and the rest of the FACS general accounting packages will give any small to medium-size newspaper a complete financial management system.

Features of the FACS Circulation System are as follows:

- All components are interactive and include subscriber, carrier, and district manager name and address files, full production reporting, draw calculation, carrier billing, and carrier promotions.
- The system conforms to Audit Bureau of Circulation (ABC) standards.
- Ten demographic codes are included in the subscriber master file.
- Automatic restarts for subscriber interrupts are included, as are automatic stops on expiration date.
- A mail subscriber capability is provided, as well as user-defined reporting capabilities with selectivity.
- Carrier A/R handling is included.

The FACS Newspaper Accounts Receivable package features generation and proofs for invoices, cash receipts, adjustments, month-end customer statements, and aged trial balance in addition to multiple sales analysis reports; multiple publication reporting (for example, daily, Sunday only, weekly); multiple ad types (display, classified, national, and so on); individual customer contract maintenance; customer earned rate computation and customer activity inquiry; and credit reporting and customer late notices.

All reports can be printed to the screen, queued to a print spooler, printed directly to a line printer, or printed to a printer linked to a CRT.

Price: \$7,500

Contact: Steven L. Buth
(509) 624-4248

SPOKANE COMPUTER SERVICES, INC.
West 915 Second Avenue
Spokane, WA 99204

Logbook Program for Radio Amateurs

Operating System: RT-11

Keywords: • Broadcasting • Documentation

Memory required: 48KB.

This program, developed to do the administration of a logbook for a radio amateur, is an interactive program. Included is a HELP command to show the list of commands and what those commands mean. The data is written on two files: BOOK.LOG, on the system diskette, and BOOK.LOG, on the working diskette. When the program is started, data is copied from the system diskette to the working diskette. DECUS number 11-630.

Note: This program was developed using a Heathkit H-11 computer and should run on any PDP-11/03 computer without modifications and on any other computer with only a few changes.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

MP System

Operating System: CTS-300, RSTS, RT-11

Keywords: • Data base management • Mailing lists

Minimum memory required: 64KB; language: DIBOL.

The MP System is a series of menu-driven computer programs that can easily be customized to meet the mailing, membership, and management needs of publishers, associations, or organizations. Flexibility begins with a choice of data processing method: batch mode, on-line interactive processing, or turnkey system. A well-designed master file form provides access to all the services offered and acts much like a data base, giving the user flexible coding fields plus event files to permit maintenance of extensive information in each record, which is available to all programs in the system.

Data processing needs of trade, professional, religious groups, associations, and organizations are fulfilled by the MP System. Important areas covered include membership record maintenance, renewal notices and billing, listings and labels, statistical reports, publication mailing lists, and personalized letters. Convention and seminar services of the MP System can handle registration details and produce name tags. Financial applications are also available.

The MP System is modular; the user pays only for services used. The fields can be interfaced to word processing applications and integrated with outside systems as required. No matter what service or equipment is used, Hartley Data is committed to a level of support and guidance that ensures a smooth operation.

Price: Available upon request

Contact: Ruth K. Koolish
(312) 724-9280

HARTLEY DATA SERVICE, INC.
1807 Glenview Road
Glenview, IL 60025

NMI Magazine Circulation Fulfillment System

Operating System: UNIX

Keywords: • Billing • Recruiting • Sales and marketing

This system is designed for use by magazines or other serial publications with circulations up to approximately 120,000. The system maintains large files containing subscriber rates and expiration dates and market research tracking information. A full series of reports is available, as well as complete invoice and statement generation. The system is compatible with most UNIX*-based word processors and all Version 7 utilities.

*UNIX is a trademark of AT&T Bell Laboratories.

Price: \$1,495

Contact: Mac McLaughlin, Inside Sales
(201) 953-9223

NORTON-MURPHY INTERNATIONAL, INC.
123 Claremont
Bernardsville, NJ 07924

Person System

Operating System: RT-11

Keywords: • Broadcasting • Data base management

Faced with the problem of keeping accurate records of the frequency of music survey participation, RCS designed the Person System as an aid to the radio station department head responsible for ongoing music research. This survey-responsive data base management system sorts by name, address, zip code, and phone exchange and keeps accurate records of last and next contact. The system also prints mailing labels and a number of indispensable reports. The system may be run with RCS's Sampler, the call-out survey analysis system.

Price: \$1,000

Contact: Joe Lane
(201) 567-3263

RADIO COMPUTING SERVICES
177 N. Dean Street, Penthouse Suite
Englewood, NJ 07631

PUBCOM

Operating System: RSX

Keywords: • Data base management • Data entry • Inventory
• Warehousing

PUBCOM provides a single data base for both products (books, periodicals, and other media) and addresses (customers, salespersons, vendors, and employees). Users may select modules to perform order entry, invoicing, inventory control, warehouse control, payroll, cost accounting, catalog preparation, standing-order and subscription processing, mail lists, accounts receivable, accounts payable, general ledger, royalty accounting, and customer service.

Access to the system is via cathode ray tube (CRT) or hard-copy printer terminals. Those devices may be in-house and/or remote from the central computer facility. In addition, the warehouse module uses on-line weigh scales to receive and identify products and to validate outgoing shipments.

Output from the system includes CRT, hard copy, or magnetic tape. Those devices can be in-house or remote.

A powerful advantage of PUBCOM is that at least two years of transaction history is on line at all times to answer customer service questions and to allow management analysis and reporting. Access to any transaction is nearly instantaneous.

One of the unique features of PUBCOM is that mnemonic abbreviations are used instead of traditional computer coding to represent products, names and addresses, and specifications such as shipping methods and customer classifications. The result is extremely brief, fast, and accurate order input. In addition, all requests for information by the terminal are backed up by two levels of explanation that can be summoned by typing ? or ??. Training is therefore easy and learner-paced. All documentation is kept current and at the user's fingertips.

A version of this product is available for the VAX computer.

Price: \$10,000 - \$100,000

Contact: Marc Comstock
(617) 685-3306

DEVICE DEVELOPMENT CORP.
5 South Union Street
Lawrence, MA 01843

Sampler

Operating System: RT-11

Keywords: • Broadcasting • Statistics

The RCS Sampler call-out survey system provides a reliable way of tracking your audience's views, preferences, and tastes in artists, cuts, and types of music. Sampler, designed for radio stations, improves survey productivity by keeping accurate, datable records, by watching sampling error, and by organizing the data-gathering and analyzing effort. Sampler can store up to 53 surveys, each with 50 queries and 200 respondents. Sampler generates random telephone numbers of legitimate form within a given area code and set of prefixes. Sampler keeps complete, tidy, timely records of your survey work and plans. Sampler may be run with the RCS Selector System.

Price: \$3,000

Contact: Joe Lane

(201) 567-3263

RADIO COMPUTING SERVICES

177 N. Dean Street, Penthouse Suite

Englewood, NJ 07631

Scribe Fulfillment System

Operating System: RSX

Keywords: • Data base management • Information management
• Inventory • Report writer

Scribe supplies software as part of a turnkey hardware/software package to perform in-house on-line subscription and merchandise fulfillment for periodical publishers. Scribe covers the entire spectrum of circulation management tasks: order entry, invoices and renewal notices, accounting and marketing analyses, ABC and BPA audit statements, label sorting and printing, customer correspondence, back issues and article reprints, second-class postal reports, and more.

The system has been in use since 1977 by publishers of magazines, journals, newsletters, reference series, and some newspapers. More than 30 publishers with more than 500 publications now use Scribe systems. File size typically ranges from 5,000 to 750,000 in an unlimited number of titles. The system is comprehensive, well supported, proven in the field, and easy to use.

A version of this product is available for the VAX computer.

Price: \$85,000 +

Contact: Kathleen Murphy

(617) 491-5553

SCRIBE DATA SYSTEMS, INC.

222 Third Street

Cambridge, MA 02142

Scribe II

Operating System: RSX

Keywords: • Data base management • Financial analysis
• Order entry • Report writer

This full-featured subscription fulfillment system (in-house, turnkey) for publishers of journals, magazines, and newsletters can handle from 5,000 to more than 500,000 subscribers and features on-line order processing; subscriber service; marketing, accounting, postal, and circulation audit (ABC.BPA) reports; automatic renewal notices and invoices; inventory control; back issue, reprint, and book order processing; promotional campaign tracking; list management; demographic and sales analyses; and mailing labels.

A version of this product is available for the VAX computer.

Price: \$75,000 – \$350,000

Contact: Daniel P. O'Brien
(617) 482-4866

SCRIBE DATA SYSTEMS, INC.
222 Third Street
Cambridge, MA 02142

Selector

Operating System: RT-11

Keywords: • Broadcasting • Scheduling

Selector applies your radio station's music policy to provide controlled variety, balance, and consistency. This music-selection system offers double-artist and title time protection, sound code time protection, and cart time protection. Scheduling is done by oldest last-play date within category. Selector provides directories by artist, title, category, or cut/album in addition to cross-tabulations and histograms of artists, titles, and cuts. Music can be scheduled for two stations with different play lists and formats, using a single machine.

Price: \$5,000

Contact: Joe Lane
(201) 567-3263

RADIO COMPUTING SERVICES
177 N. Dean Street, Penthouse Suite
Englewood, NJ 07631

Storm Center

Operating System: RT-11

Keywords: • Broadcasting • Report writer • Security

The RCS Storm Center System organizes your severe-weather announcements for school and business closings and can handle 4,000 organizations. Storm Center prints reports by geographical area, opening time, and type of school or business. Storm Center remembers the

“kill time” of each entry and ensures security by individual passwords. Storm Center prints mailing labels for your use in contacting the businesses and schools in your coverage area.

Whatever the cause — earthquake, flood, heatwave, or winter storm — Storm Center enables you to keep track of quick-breaking closing or late-opening announcements for schools, businesses, and public or private transportation services.

A version of this product is available for the VAX computer.

Price: \$2,000

Contact: Joe Lane
(201) 567-3263
RADIO COMPUTING SERVICES
177 N. Dean Street, Penthouse Suite
Englewood, NJ 07631

Subscription Control System

Operating System: RSTS

Keywords: • Billing • Data base management • Report writer

This system provides a comprehensive circulation fulfillment and management system for magazine publishers with circulations of 20,000 to 500,000.

The package is an interactive menu and form-driven system that allows the circulation department to maintain an up-to-date subscriber/subscription data base; prepare invoices, mailing labels, renewal notices, and special promotions; and obtain a variety of management reports.

A version of this product is available for the VAX computer.

Price: \$25,000

Contact: Douglas J. Ross, President
(613) 548-4355
ANDYNE COMPUTING LTD.
221 King Street East, P.O. Box 1496
Kingston, Ontario K7L 5C7
Canada

TPINS (Times Publishing Interactive Newsprint Inventory System)

Operating System: RSTS

Keywords: • Inventory • Text management

Memory required: 28K.

TPINS is a complete DIBOL/DECFORM system for newsprint inventory accounting, from processing freight car manifests through the month-end inventory report. The program was written for, but is not restricted to, use by a medium-size newspaper publishing company and is easily tailored. DECUS number 11-486.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

Traffic 2000

Operating System: RSX

Keywords: • Accounts receivable • Broadcasting • Inventory
• Sales and marketing

Reliable inventory control and competitive pricing are ways to increase your market share. Saving time and using timely, accurate, and reliable information are ways to make your radio station more profitable.

Traffic 2000, a real-time on-line traffic planning and control system, can increase the profitability of a radio station and improve management control. The system assigns commercial time and programming element clocks to each hour of the day, stores sales orders, and schedules commercial spots, PSAs, and promos automatically. The system reconciles the daily log, generates invoices and accounts receivables, and tracks/reports on a variety of financial data. Traffic 2000 maintains a 15-week inventory. The Audit System validates the consistency and relationships within the system's data base. Financial data is maintained for 24 months of history and 12 months of projection.

Price: \$15,000 +

Contact: Joe Lane
(201) 567-3263

RADIO COMPUTING SERVICES
177 N. Dean Street, Penthouse Suite
Englewood, NJ 07631

TYPSET — Digitized Character Subroutines

Operating System: RSX

Keywords: • Device drivers/handlers • Graphics
• Presentation aids

TYPSET is a collection of FORTRAN subroutines capable of producing characters on any Zeta plotter. Provisions have been made for subscripting, superscripting, backspacing, and variable spacing between letters. The characters may be skewed to any angle, and the height-to-width (aspect) ratio also may be varied.

A portion of the TYPSET software allows users to generate their own symbols and character sets.

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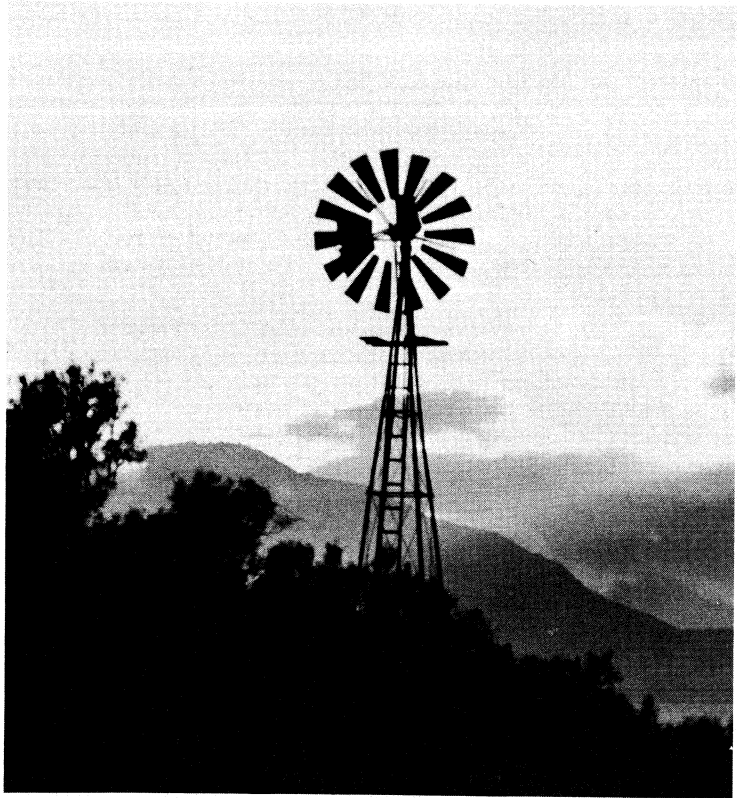
The characters are grouped into alphabets, the majority with both upper and lower cases. Punctuation; mathematical, map, music, weather, and electrical symbols; and astrological signs also are included.

A version of this product is available for the VAX computer.

Price: \$1,200

Contact: Bill Manos, Product Manager
(415) 671-0600
NICOLET ZETA CORP.
2300 Stanwell Drive
Concord, CA 94520

Natural Resources



POSITIVE IMAGES/Jerry Howard

APR (Automated Production Reporting) System

Operating System: RSX

Keywords: • Inventory • Production control • Scheduling
• Warehousing

The HERCO SYSTEM 76 Automated Production Reporting System is designed to meet the finishing and shipping needs of the modern paper mill. This flexible system is tailored to meet the particular scheduling and roll-handling procedures of each mill. Wherever mill operation allows it, the APR System gathers its information from data sources directly, bypassing operator entry to minimize costly data transcription errors. Features of the system allow direct data communication with mill business computers and paper machine computers, direct capture of lineal footage and scale weight, and automatic verification of roll conveyor sequencing.

The information stored in the APR System is available at operator terminals located throughout the mill. Typical installations include terminals in the operations and planning office, at the winders, on the finishing floor, and in the shipping office. At these terminals, simple operator entries cause the system to display the contents of a selected file, print a copy of the file, or print shift production reports, mill order copies, shipping tallies, and customer order production records. These reports may also be transmitted to a host computer system via direct link or diskette.

The APR System also manages dock and warehouse location. Through a few easy-to-use commands, a shipping clerk assigns rolls to and retrieves rolls from any inventory location. Rolls are stored in the system by grade, size, customer number, and warehouse location to allow easy retrieval to complete a particular order.

Price: \$20,000 – \$50,000

Contact: Robert C. McGill
(713) 869-9371

HOUSTON ENGINEERING RESEARCH CORP.
7250 Wynnwood Houston, TX 77008
P.O. Box 3246 Houston, TX 77001

HomeRange

Operating System: Independent

Keywords: • Agriculture • Calculation aids • Statistics

Memory required: 56K bytes.

This easy-to-use program calculates the home range size (area traversed by an animal in its normal activities of food gathering, mating, and caring for young) from a series of independent observations of the animal's location. Also calculated are the utilization distribution (the probability of the animal's being located at various positions on a plane) and other useful statistics. The program contains complete documentation and references to the literature explaining the method.

The program, written in a subset of “standard” Pascal, is designed to be portable and should run on a wide variety of computers. DECUS number 11-460.

Note: This program was developed on an LSI-11.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

IPAS/100

Operating System: CTS-300, RT-11

Keywords: • Accounting • Energy • General ledger
• Petroleum

The IPAS/100 is a thorough, yet easy-to-use set of computerized accounting tools designed for the growing single or multicompany oil producer. The system is designed to operate in batch and/or on-line mode and features journal entry, general ledger, budgeting, joint interest billing, vendor payables, purchaser input, revenue distribution, windfall profit tax, land management, asset reporting, and general-purpose subsystems.

The integration of the IPAS/100 allows data input only once to be accessed throughout the system, providing information required for effective processing and reporting to each subsystem.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Robert H. Black
(405) 636-1587

PETROLEUM SOFTWARE SYSTEMS, INC.
8265 S. Walker
Oklahoma City, OK 73139

MAPSS-MAGIC (Management and Analysis of Geographic Characteristics Information)

Operating System: RSX

Keywords: • Data base management • Graphics • Mapping
• Scientific

MAPSS-MAGIC organizes information by orthogonal patterns, a concept of location logic common in everyday life. The rectangular-block pattern of many city streets is a well-known example of orthogonal relations, as are many common games that use a grid-cell arrangement — chess, checkers, and crossword puzzles, for example. Each of those grids is clearly a data management system that organizes and presents information related to a particular series of attributes. Therefore, each data array is an orthogonal map or plan showing relationships of selected points at a specific time. As information changes through time or as new or different data is obtained, the patterns change but only in relation to the original orthogonal base.

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Attribute-coincidence mapping (ACM) is one of the more powerful tools used by geologists when they compare map data from diverse sources with a series of transparent overlays. On the other hand, computer-assisted ACM, particularly with MAPSS-MAGIC, enables the same geologists to consider, evaluate, and replot or store for later retrieval many more kinds of data with less effort, and line printer copy of ACM is readily available for preliminary editing, if desired.

Exploration for mineral, energy, and water resources requires the acquisition, compilation, and evaluation of many kinds of information from the earth-science disciplines: geology, geochemistry, and geophysics. Types of data that can be treated by MAPSS-MAGIC include geologic map patterns, specific resource information, airborne geophysical data, gravity data, drill-hole records, remote-sensing information, and geochemical analyses.

In addition to its use in a broad variety of geologic resource problems, MAPSS-MAGIC is effective in land-use planning, including the identification of problem areas in land-use conflict. MAPSS-MAGIC software programs are also applicable for environmental pollution studies, including the calculation and display of atmospheric-plume dispersion patterns and ground water percolation models. The versatility of MAPSS-MAGIC is demonstrated by the fact that recalculation, update, and redisplay of those models can be done in minutes.

A version of this product is available for the VAX computer.

Price: \$25,000 – \$35,000

Contact: Howard A. Price, Jr., President
(615) 584-3713 or (615) 457-6975

MAPSS, INC.
20 Argonne Plaza, Suite 123
Oak Ridge, TN 37830

Mastercontrol

Operating System: RSX

Keywords: • Data collection • Diagnostics • Process control
• Production control

Mastercontrol provides data acquisition, monitoring, and control facilities for industrial processes. Functions include display and logging of status, event messages, display of mimic diagrams, histograms and trends, alarm annunciation and acknowledgment, control initiation, diagnostics, and maintenance aids. Mastercontrol is suitable for flow-control applications such as water distribution and gas and oil pipeline controls.

A version of this product is available for the VAX computer.

Price: \$40,000 – \$80,000

Contact: Bob Wisniewski, Manager, Advanced Systems
(212) 599-0828

LOGICA INC.
666 Third Avenue
New York, NY 10017

Oil and Gas Accounting System

Operating System: COS-310, CTS-300, RSTS, RT-11, TSX-PLUS

Keywords: • Accounting • Accounts receivable
• General ledger • Petroleum

This library of programs for oil and gas producers provides clear, concise, and accurate information for accounts and activities of the various operating companies and/or drilling programs.

The oil and gas disbursement system is used for process production and expense date, producing disbursement checks and management reports. The system is also designed to handle lease acreage accounting and delay rental payments, along with lease management reports.

Those and the other systems available are running in 35 installations. No special personnel skills are required. Data preparation and entry are extremely easy, and all systems are interactive.

Price: \$1,000 – \$20,000

Contact: Greg Wingate
(813) 876-2032

PETROLEUM SOLUTIONS, INC.
4520 W. Kennedy Boulevard
Tampa, FL 33609

OMS (Oil Movement System)

Operating System: RSX

Keywords: • Data collection • Inventory • Petroleum
• Process control

The HERCO Oil Movement System represents an automated approach to “normal” supervisory data acquisition and control functions used in the monitoring and control of product movements within tank farms, refineries, and petrochemical plants. The basic philosophy is to acquire information concerning the various elements of an oil movement facility on a periodic high-speed basis, process (verify and limit check) the data, and present it to an operator, on demand, via an interactive CRT console.

Through the CRT, the system inputs data and control commands from the operator, performing the desired functions. Information flow is coordinated by a central processor capable of communicating with various types of peripherals, remote stations, and other computers. In addition to the data acquisition and open loop control processes, the

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OMS performs extensive data logging, calculates and maintains inventory information, performs and monitors product transfers, analyzes all new data for alarm conditions, and periodically executes diagnostics to ensure the integrity of the system, the validity of the data, and sources of data errors.

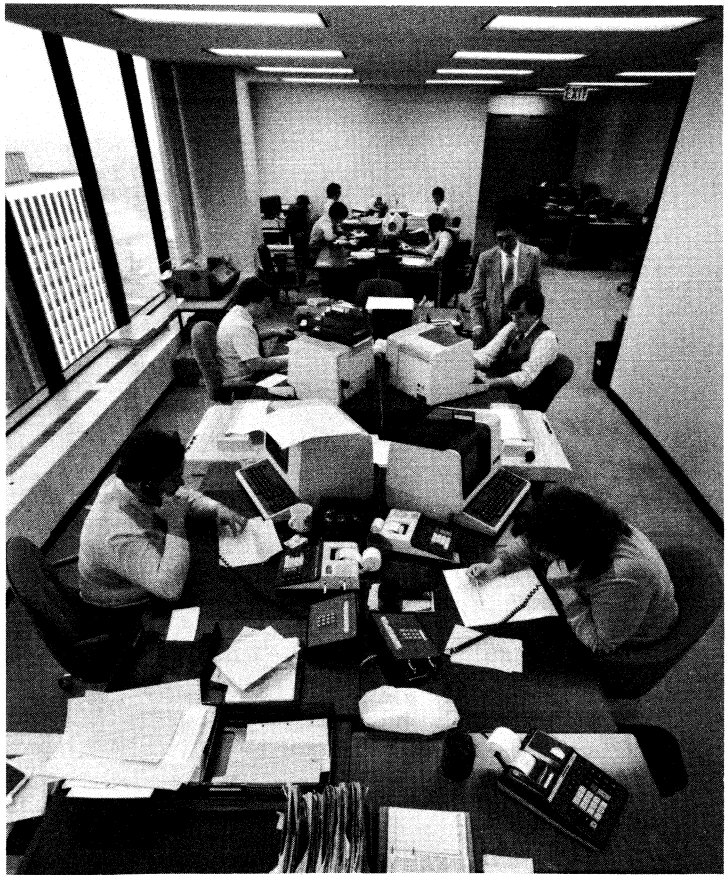
Price: \$20,000 – \$50,000

Contact: Eugene E. Chovanec
(713) 869-9371

HOUSTON ENGINEERING RESEARCH CORP.
(HERCO)

7250 Wynnwood Houston, TX 77008
P.O. Box 3246 Houston, TX 77001

Office Systems



Ellis Herwig/The Picture Cube

Abax Mailing Label System

Operating System: CTS-300, RSTS, RT-11, TSX-PLUS

Keywords: • Information management • Mailing lists
• Printing

The Abax Mailing Label System prints pressure-sensitive labels for mass mailing and internal controls. The system supports an unlimited number of lists. The labels are printed in accordance with postal standards and are presorted for the best postal rates. Those printed can be selected by number, name, street name, zip code, precinct number, or by a user-defined code.

A version of this product is available for the VAX computer.

Price: \$400 – \$600

Contact: Charles R. McKown, President
(316) 663-5041

ABAX COMPUTER SYSTEMS
P.O. Box 1097
Hutchinson, KS 67504

ABLEpayroll — Interactive

Operating System: RSTS

Keywords: • Payroll

ABLEpayroll is an on-line interactive system for the reliable and accurate computation, printing, and reporting of multioffice and multistate payroll. Screen-formatted entry encourages user acceptance and data integrity. A full complement of reports to meet both management and government requirements is generated, but the features that set ABLEpayroll apart from other payroll systems are those things that do not meet the eye. For example, payroll in a new quarter cannot be run until the 941 information from the previous quarter has been printed and cleared. Various tests are performed to ensure that all employees are reported on a state quarterly form. An employee with year-to-date earnings cannot be deleted. The user is given the option of controlling whether other earnings are taxable or nontaxable; if the earnings are taxable, the system will pay overtime due based on a “new” average hourly rate as is prescribed by the Federal Wage and Hour Law. The system allows an unlimited number of deductions. A menu selection is provided so the user can maintain FICA rates, U.C. rates, SDI rates, page size, form size, and check kind without programmer assistance.

A version of this product is available for the VAX computer.

Price: \$5,000

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.
1010 S. Weinbach Avenue, P.O. Box 2469
Evansville, IN 47714

AFMS (Automated Forms Management System)

Operating System: UNIX

Keywords: • Forms management • Inventory • Printing
• Purchasing

The AFMS system consists of five modules or subsystems, each designed to cover a specific forms management area. Although the modules are independent, they are also compatible with one another. Some users will group individual modules into larger systems to maximize the potential operating efficiencies and associated dollar savings. The modules share advanced forms management concepts and software technology; each one has been developed to deal with a particular business area.

The Forms Management Module collects specifications and characteristics on company forms, documents, and supplies and makes hitherto inaccessible data immediately available. This module also provides a standardized data base for identifying duplication and promoting consolidation, prevents miscommunication, promotes cost reductions through ordering efficiencies, tracks and monitors forms activity, and helps users understand total form requirements.

The Forms Control Module maintains inventory records for forms and supplies, accurately enforces proper form inventory levels, prevents out-of-stock situations, and limits premature ordering, excess storage costs, and so on. The module also identifies obsolete or superfluous forms, provides true current inventory values, and puts "teeth" into inventory management for forms.

The Forms Buying Module allows for the standardization of decision-making data and collection of vendor information. This module also generates requests for quotation, purchase requisitions, and/or purchase orders.

The In Plant Printshop Module controls and monitors in-house print shops on a cost basis equivalent to that of outside suppliers.

The Records Management Module provides a systematic approach to establishing and controlling the availability of storage space, retention schedules, and record access management for forms once they are used and thus become records.

Common to all modules is a flexible and sophisticated Report Generator (REPORTGEN), which presents accurate, clearly formatted information to management, based on data maintained by the system.

Price: \$15,000 – \$100,000

Contact: Steve Wallman, Vice President, Sales and Marketing
(312) 634-1120

FORMS MANAGEMENT SYSTEMS, INC.
350 Half Day Road
Prairie View, IL 60069

ALP (Address List Processor)

Operating System: RSTS, RSX

Keywords: • Data collection • Forms management
• Recruiting • Text management

ALP performs on-line screen entry list maintenance and envelope/label production and features list creation, address entry, duplicate-entry detection, and list extraction. Each list is created with an identifier and 12 data fields. Additional data fields and their edit characteristics can be defined for each list. ALP's benefits include easy maintenance of large mailing lists, automatic elimination of duplicates on command, and choice of subsets of list based on user-selected data fields.

Address records can be entered via keyboard to a formatted screen or from lists supplied on magtape. Individual field editing is performed, including state abbreviation and zip code validation checking. Canadian and foreign addresses are accepted.

Lists may be removed to tape or separate files for backup. Address records may be individually updated, deleted, or displayed.

Labels can be printed 1-, 2-, 3-, or 4-up Cheshire or self-adhesive on any width larger than three inches. Envelopes may also be printed.

ALP creates a word processing list file for production of personalized letters.

A version of this product is available for the VAX computer.

Price: \$1,995

Contact: Neal J. Anderson, Senior Product Specialist
(414) 784-8250

MCHUGH, FREEMAN AND ASSOCIATES, INC.
1135 Legion Drive, P.O. Box 454
Elm Grove, WI 53122

BDS (Bank Disbursements System)

Operating System: RSTS

Keywords: • Accounts payable • Banking • Billing
• Purchasing

BDS, written in BASIC, facilitates the payment of vendor invoices in a banking institution by providing improved efficiency over the bill payment operation. Information entered into the BDS System is edit checked for more accurate bill payment. Additionally, a complete audit trail is provided of all checks processed.

All checks are printed on continuous forms, using high-speed printers. The printed checks are designed to fit standard window envelopes.

Vendor names, addresses, and general ledger numbers are stored in files, allowing the operator to enter only a short code for the complete name, address, and G/L number. All data entered is checked for accuracy and displayed for a second visual check.

All accounting entries are produced on a journal report detailing each entry by G/L number. Additionally, accounting entries are coded with cost centers to allow for cost allocation.

Posting to the bank's general ledger can be in detail or in summary by G/L totals based on the accounting journal report. A complete audit trail is provided, indicating all data entered to the system.

All programs are controlled by two levels of passwords. Programs can be executed only from a menu.

A version of this product is available for the VAX computer.

Price: \$3,000 – \$5,000

Contact: Salvatore Cangialosi, President
(212) 449-4608

PRIME ASSOCIATES, INC.
38 Paerdegat 7 Street
Brooklyn, NY 11236

Bridge/86

Operating System: RSTS, RSX, ULTRIX, UNIX

Keywords: • File management • Personal computing
• Printing • Programming tools

The Bridge/86 system is used primarily in office automation projects and for software development.

Virtual microcomputing is available at every terminal attached to the mini. Thus, users may move to an LP/M, MSDOS, or p-System environment that is tightly linked to other users. File storage, printing backup, and so forth, are done at the host machine, yet the user sees a normal microcomputer environment. Thus, the system manager may provide personal computing as an option to current system users, without purchasing separate units.

A version of this product is available for the VAX computer.

Price: \$500 – \$7,500

Contact: Deryk Van Brundt
(415) 841-9594

VIRTUAL MICROSYSTEMS
2150 Shattuck Avenue #720
Berkeley, CA 94704

CORTEX Application Builder

Operating System: IAS, RSX

Keywords: • Data base management • Data entry
• Personal computing • Query facilities

Designed to handle the rapid pace of change in today's business data base environment, the CORTEX Application Builder contains the following major components: data base management and security, screen formatting and screen data entry, integrated data directory, application programming language, end-user facilities, sort/merge/consolidation, report generation, and data base journaling. The Builder also includes simple query, statistical, and report-writing commands. Those facilities provide data base access for ad hoc information requirements.

The optional CORTEX Application Accelerator produces multiuser, shared, reentrant task images for high-performance applications.

A version of this product is available for the VAX computer.

Price: \$6,000 – \$10,000/module

Contact: Lynn Hearl
(617) 237-2304
CORTEX CORP.
55 William Street
Wellesley, MA 02181

CORTEX HRM (Human Resource Management System)

Operating System: IAS, RSX

Keywords: • Information management • Personnel
• Query facilities • Report writer

CORTEX HRM is an on-line real-time information management system designed to make personnel departments more effective and timely. Invoking the report writing function, a user may generate 40 standard reports, which are available on demand via screen or high-speed printer. A powerful QUERY function can provide customized data and ad hoc reports for complete analysis of a company's resources. Six modules comprise the system: Administrative, Placement-Application, Benefits and Pensions, Government Compliance, Statistical Analysis, and Payroll Interface.

A version of this product is available for the VAX computer.

Price: \$5,000 – \$19,000/module

Contact: Lynn Hearl
(617) 237-2304
CORTEX CORP.
55 William Street
Wellesley, MA 02181

CPS Word Processing System

Operating System: RSTS

Keywords: • Text management • Word processing

The CPS Word Processing System consists of two stand-alone packages: a text editor (REVISE) and a text formatter.

REVISE has many special features. It is written in BASIC-PLUS and normally runs on about 10KW of memory. REVISE is line-oriented and thus is much less of a drain on system response time than are some character-oriented editors. Also, swapping is reduced because of the system's small, 10KW size.

REVISE is thoroughly debugged and is easy to use. A user needs less than an hour to learn and remember fewer than 10 simple commands. REVISE is documented in a user's manual that includes a tutorial session.

Among REVISE's special features are unlimited secondary input and output files, easy commands for duplicating and moving, the ability to make global changes within the buffer area, and the ability both to define a shift character so that upper-/lowercase may be input from an uppercase-only terminal and to insert or change nonprinting characters.

In addition, a backup file of the previous version of the text is always created in case the program should end abnormally. CTRL/C is disabled for total protection.

The text-formatting programs permit text to be entered and edited in an easy, unformatted way and then to be cleaned up. Text files may be edited into the system in a way that presents few problems to a secretary. Little attention need be given to where the right margin is. Even if a line has only one word in it, the program will clean it up. Many formatting and special options are available — automatic centering, underlining, page numbering, line spacing, super- and subscripting, right justification, and so forth. (However, not all features may be available for all printers.)

The program supports normal, nonletter-quality printers (such as the LA180 and LA120), the AJ832 letter-quality printer, and the DIABLO 630 letter-quality printer with word processing option. The programs are written in BASIC-PLUS and can be modified for other printers.

Price: \$500 – \$850

Contact: Robert Sendek, Computer Specialist
(212) 644-1749

POPULATION COUNCIL
One Dag Hammarskjold Plaza
New York, NY 10017

CSI Business System

Operating System: RSX, RT-11

Keywords: • Accounts payable • General ledger • Payroll

CSI Business System includes Payroll, Accounts Payable, and General Ledger, with all data posted to General Ledger. The user-oriented system is designed for small to medium-size businesses and is set up in house. Modules may be used stand-alone.

Price: Available upon request

Contact: Madelyn Scheer
(608) 258-8668

CREATIVE SOFTWARE INC.
P.O. Box 3493
Madison, WI 53704

CSI General Ledger

Operating System: RSX, RT-11

Keywords: • Accounting • General ledger • Spreadsheets

This system produces operating statements, budget statements, and balance sheets from a transactional journal. Up to 255 accounts and 100 departments can be defined. Transactions are limited to 600 a month, with up to 2,048 subtransactions. The package may be purchased on a stand-alone basis or as an integrated part of CSI's Business System.

Price: \$2,000

Contact: Madelyn Scheer
(608) 258-8668

CREATIVE SOFTWARE INC.
P.O. Box 3493
Madison, WI 53704

CSI Payroll

Operating System: RSX, RT-11

Keywords: • Payroll

This program prints checks, stubs and check registers, W-2 forms, and yearly and periodic reports. Hourly or salaried employees in separate departments can be handled. Governmental deductions are user-updated, with three extra user-defined deductions. The package may be purchased on a stand-alone basis or as an integrated part of CSI's Business System.

Price: \$2,000

Contact: Madelyn Scheer
(608) 258-8668

CREATIVE SOFTWARE INC.
P.O. Box 3493
Madison, WI 53704

CT*OS Spelling Corrector

Operating System: RSTS, RSX, RT-11, TSX-PLUS

Keywords: • Data dictionary • Personal computing
• Text management • Word processing

CT*OS Spelling Corrector is a high-performance, 100% accurate interactive spelling corrector. If a word is in the dictionary, CT*OS Spelling Corrector will find it; if not, the word will not be accepted without your consent. CT*OS is extremely fast, checking over 80 words per second on documents of several thousand words or more, interacting with you, and replacing misspelled words in the document, rather than simply marking them for later editing.

CT*OS Spelling Corrector is furnished with a main dictionary containing over 87,000 entries and may also be used with any dictionary that is properly formatted, using the supplied dictionary rebuilding utility. CT*OS Spelling Corrector automatically creates a personal dictionary containing a permanent record of all words that did not appear in the main dictionary but were accepted by you. This dictionary is then consulted, and CT*OS Spelling Corrector will not bother you with jargon terms and proper names that appear in your personal dictionary from previous sessions.

The CT*OS Spelling Corrector performs an affix analysis on words that are not found in the main dictionary or in your personal dictionary. At no time, however, will CT*OS Spelling Corrector accept a word as properly spelled unless it is found in a dictionary in its originally spelled form. Instead, the word along with a list options is displayed and made available to you. If affix analysis was performed, the path taken by affix analysis processing is displayed for verification.

A version of this product is available for the VAX computer.

Price: \$175 – \$500

Contact: Paul Harris
(818) 796-9374
COMPU-TOME, INC.
234 East Colorado Boulevard
Pasadena, CA 91101

CT*OS Utilities Package

Operating System: RSTS, RSX, RT-11, TSX-PLUS

Keywords: • Documentation • Personal computing
• Text management • Word processing

This set of utility programs for the CT*OS word processing system includes a list file sorter, an index restore utility, an index print utility, and a document repair utility.

The CT*OS list file sorter lets CT*OS list processing users collate their list files into ascending or descending order on any field or combination of fields in the list.

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The CT*OS index print utility generates a listing of all the CT*OS documents in any given directory or account. The listing may be sent directly to a printing device or to a file. A printed copy is especially useful when making a backup of a word processing directory. It allows the user to maintain a printed list of the documents with the backup media, for quick reference at a later date.

The CT*OS restore index utility restores or creates a new CT*OS index file in the event that the existing one becomes corrupt or is deleted.

The CT*OS document repair utility provides a best-effort attempt at restoring an improperly filed document or a document that has become corrupt.

A version of this product is available for the VAX computer.

Price: \$175 – \$500

Contact: Paul Harris
(818) 796-9374
COMPU-TOME, INC.
234 East Colorado Boulevard
Pasadena, CA 91101

CT*OS Word Processing

Operating System: RSTS, RSX, RT-11

Keywords: • Documentation • Menu handlers
• Text management • Word processing

This full-featured word processing software package that emulates DIGITAL's WPS78 software runs on PDP-11s, VAX-11s running VMS, P/OS on the Professional 300 Series, and under CP/M 86 on the Rainbow.

CT*OS is a menu-driven system that includes spelling correction, list processing, user-defined keys, ASCII file transfer, scientific character generation, and table of content-index generation. These features are supplemented with the more standard word processing functions such as cut and paste, auto-word wrap, glossaries, and so on. CT*OS is written in MACRO-11 resulting in a CPU efficiency not often found in word processing systems.

A version of this product is available for the VAX computer.

Price: \$950 – \$6,500

Contact: Paul Harris
(818) 796-9374
COMPU-TOME, INC.
234 East Colorado Boulevard
Pasadena, CA 91101

Date*Book**Operating System:** RSTS, RSX**Keywords:** • Scheduling

Date*Book, a time and calendar management system, maintains an appointment calendar for each user, automatically schedules meetings, and reminds each person, through the use of a tickler file, about upcoming events.

A version of this product is available for the VAX computer.

Price: \$500 – \$5,000**Contact:** Donald Rubin, President
(301) 982-1818

SYSTEMS ENGINEERING TECHNOLOGY INC.
10676 High Beam Court
Columbia, MD 21044

Datebook II™ Professional Appointment Scheduling**Operating System:** UCSD p-System**Keywords:** • Medical • Scheduling

Datebook II schedules appointments for up to 27 doctors, lawyers, or rooms. Three appointment schedules are displayed on the screen at one time. Datebook searches for openings to fit time of day, day of week, or day of year and schedules, modifies, or cancels appointments easily. Copies of daily appointments can be printed quickly, and conferences can be scheduled at times when all participants are free.

Datebook II™ is a trademark of Organic Software, Inc., and is published and manufactured by Digital Marketing Corporation. UCSD p-System™ is a trademark of University of California Regents.

Price: \$295**Contact:** Tim Clark
(800) 826-2222

DIGITAL MARKETING CORP.
2363 Boulevard Circle
Walnut Creek, CA 94595

DCPAC (Data Conversion Package)**Operating System:** RT-11**Keywords:** • Data conversion • Telecommunications
• Word processing

This series of programs provides:

- Direct reading and writing of diskettes and tapes from many word processing and microcomputer systems
- Format code translation, such as Wang to/from WordStar
- Native-mode Wang telecommunications (WPS)
- Generalized ASYNC and BISYNC support
- VT71 and VT72 word processing package

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A version of this product is available for the VAX computer.

Price: \$1,000 – \$50,000

Contact: Chris Muller
(212) 344-0474

MULLER-MUGNO CORP.
42 Broadway
New York, NY 10004

DECMail™ PLUS

Operating System: RSTS

Keywords: • Decision support • Electronic mail

DECMail/RSTS, an electronic mail package patterned after DECMail/VMS, is a way to integrate DECMail with WORD-11 on your RSTS/E system. DECMail/RSTS includes:

- WAFE — a WORD-11-like editor for DECMail so your mail users will see the same keyboard interface for message editing that they use now for WORD-11
- Patches — modifications for RSTS/E V7.1, 7.2, or 8.0 log in to notify users when they log in that they have pending mail
- Logging program — a system management program to help monitor DECMail usage
- WORD-11 Option — an option program for the WORD-11 main menu to permit sending a document, which will be converted to a text file and passed to DECMail

Price: \$1,000 – \$3,500

Contact: Eric L. Moothart, Software Marketing Director
(714) 970-1515

DATA PROCESSING DESIGN, INC.
1400 North Brasher Street
Anaheim, CA 92807

DECMail/RSTS, Version 1.0

Operating System: RSTS

Keywords: • Documentation • Electronic mail • Networking

DECMail/RSTS is an electronic message system that runs as a layered product on the RSTS/E operating system. On a single-node system, DECMail/RSTS features the ability to create, edit, send, and forward messages and to store, search for, and retrieve messages held in user folders.

When DECMail/RSTS is used with the optional DECnet/E product, the features above can be used in a multinode environment. In a multinode mode of operation, DECMail/RSTS provides network mail services to other DECMail/RSTS users anywhere in a DECnet network. VAX/VMS systems running the MAIL utility can also exchange messages with systems running DECMail/RSTS.

DECmail/RSTS includes an on-line help facility that provides the user with information that covers most normal situations. The user documentation provides in-depth information on those commands.

DECmail/RSTS provides flexible, easy-to-learn command options. Each user can define default settings for some command options that will allow easier use of the system.

DECmail/RSTS users may choose to call the standard EDT editor for preparation of text messages. The EDT option provides the power of the standard editor for RSTS/E systems to users without the need to learn a new set of editing commands.

DECmail features include on-line help for commands; message creation, with or without editing capability (user's option); message answering, with or without editing; message filing into folders; message listings displayed selectively by author or subject; distribution lists; message printing and deleting; ability to send, as a message, an ASCII text file (stream, variable, fixed, or sequential) created outside of the DECmail/RSTS environment; and ability to export message text into RSTS/E files.

Refer to SPD #13.19.02 when requesting further information on this product from your local DIGITAL sales office.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Consult your local DIGITAL sales office
(see Introduction).

DECWORD/DP, Version 1.2

Operating System: RSTS

Keywords: • Computer-aided instruction • Text management
• Word processing

DECWORD/DP supplements RSTS/E data processing capabilities with word processing capabilities and features menu-driven document processing, including word and list processing, communications, and computer-based user instruction (CBI). DECWORD/DP editing capabilities permit the user to input and correct text without retyping. List processing allows production of many identical or nearly identical documents, including reports, customized letters, and mailing lists. Math and sort utilities permit the user to manipulate data within the list processing documents.

CBI provides on-line self-paced instructions to teach basic word processing skills. The course is comprised of 11 basic word processing lessons, which allow the user to build confidence in the use of DECWORD/DP and the keyboard. CBI is task oriented rather than feature oriented. By following simple commands at the terminal, trainees can learn to perform straightforward tasks, such as writing and printing a letter.

DECWORD/DP should be managed and supported by RSTS/E data processing staff, who can manage system resources and ensure that users are adequately trained. System management is provided by a combination of RSTS/E utilities and DECWORD/DP utilities. Installation, user management, and document management are clearly described in the DECWORD/DP manager's manual set.

Refer to SPD #13.14.03 when requesting further information on this product from your local DIGITAL sales office.

Price: Available upon request

Contact: Consult your local DIGITAL sales office
(see Introduction).

DIGIttext Word Processing System

Operating System: RSX

Keywords: • Graphics • Spreadsheets • Text management
• Word processing

DIGIttext is a powerful word processing system available as a single-user version or as large multiuser systems. DIGIttext supports the creation and maintenance of address and hyphenation files; administration of documents and standard text; creation and modification of text, using the comprehensive text editor; list processings, including text from standard text and address files; and print modules for Qume, Diablo, Olivetti, and DIGITAL printers.

In addition, DIGIttext interfaces to the following program packages to support full implementation of an office automation strategy:

- DIGIsread, a fully integrated electronic spreadsheet calculator that facilitates combining textual data and tabular data in one document.
- DIGItrieve, a system for retrieving documents, memos, reports, and correspondence in a user-defined filing system.
- DIGImail, a message-switching and distribution package available in networks consisting of Professional 300s, PDP-11s, and/or VAXs. Features include password protection, transmission and receipt of messages, use of distribution lists, an electronic file system, and a message retrieval system.
- DIGIspell, a spelling checker and dictionary that is user expandable to learn user unique terminology.
- MEMO-11, a calendar system for appointment or conference scheduling in 15-, 30-, or 60-minute increments and automatic visual or audio reminder of approved schedules.
- TELTEX-11, a telex system for automatic transmission and receiving of telex messages. A document created by DIGIttext may be immediately used as a telex message; telex messages may be received around the clock in unattended mode; and automatic dialing and answering facilities are provided.

A version of this product is available for the VAX computer.

Price: \$3,500 – \$14,450
Contact: Robert L. Hirtle, Office Manager
(904) 433-7578
ATS DATA PROCESSING, INC.
1101 North 9th Avenue
Pensacola, FL 32501

Dreams

Operating System: RSTS

Keywords: • Documentation • Electronic • Networking
• Text management

Dreams is an electronic mail system that has been installed in a wide range of business and academic environments. Development of new capabilities is a continuing process, with support and updates available for the Dreams user community. Dreams has been one of the pilot project mail systems in the developing EDUCOM-sponsored Mailnet network linking college electronic mail systems. Thus, easy accessibility to the network is ensured with Dreams.

The current version of Dreams is compatible with DECnet for message transmission to distant nodes and with MAILNET. EDT, DECword, WORD-11, TECO, or other editors can be invoked, with a smooth transition to and from the editor. A flexible method for accessing and maintaining multiple mail files is provided. Subjects for mail files as well as individual messages are available. Unread messages can be retracted and recovery made of the last deleted message. Dreams can specify times as well as dates in relative or absolute form to control message appearance or expiration or to narrow selection criteria. Dreams is fully compatible with Batch, thereby opening up a world of possibilities for keeping abreast of unattended operations and for implementing a repetitive reminder system based on day of the week or other longer intervals. Dreams provides message acknowledgment of receipt or expiration of messages.

In addition, the system manager may assign defaults for accounts, projects, and the entire system, including the assignment of certain privileges. Messages may be sent to names, nicknames, or groups and may be scanned, replied to, forwarded, or stored for later appearance. New, old, priority, or suppressed messages are available for each mail file. Messages are automatically routed.

A version of this product is available for the VAX computer.

Price: \$1,500 – \$5,000
Contact: Thomas W. Burtnett, Director
(717) 245-1256
DCXX SOFTWARE SERVICES
Dickinson College Computer Center
Carlisle, PA 17013

Due Date Monitoring

Operating System: CTS-300, RSX, RT-11

Keywords: • Personnel • Report writer • Scheduling

The Due Date Monitoring System is designed to enable an accounting firm to track engagements on a client or employee basis. The system is designed to give a wide variety of free-formatted reports showing which engagements are coming due for any given client or responsible employee.

Highlights of this system are reports by office, client, or engagement of employee designation; user-definable sort codes; starting-date specification; estimated completion time; responsible-party designation; and automatic or user-defined report-formatting capability.

Price: \$750

Contact: Bob Spowls
(904) 434-2685

DIGITAL SYSTEMS OF FLORIDA, INC.
114 E. Gregory Street
Pensacola, FL 32501

Electrical Repair and Paging

Operating System: RSTS

Keywords: • Accounting • Electrical • Inventory • Payroll

This program provides accounts receivable, a data base of customers, personnel, contract billing, inventory sales and analysis, job scheduling, billing, job ticket repairs analysis, job installations control, quotation handling, department cost and analysis, sales analysis, job costing, word and list processing, accounts payable, general ledger, and payroll.

A version of this product is available for the VAX computer.

Price: \$2,000 – \$20,000

Contact: Andrew Yasenchak
(201) 231-9400

UNITRONIX CORP.
197 Meister Avenue
Somerville, NJ 08876

EXECmail

Operating System: RSTS, RSX

Keywords: • Electronic • Text management • Word processing

EXECmail is a high-performance electronic mail software package that encourages correct communication skills and helps the user complete each of his/her communication cycles. Communications in a series are linked, and earlier messages can be reviewed with a few simple keystrokes.

EXECmail is an easy-to-use menu-driven system with single-key commands, offering detailed help prompting. Written in native macro assembly language, using systems programming techniques, EXECmail is fast and efficient. Only one disk block per message is required, so the system will not be clogged.

Messages of any length, documents, and files are transferred at electronic speed. EXECmail can be used to relay text, graphics, binary programs, documents, and computer files.

Features include use of an in-basket, pending-basket, out-basket, and wastebasket. The user receives an alert of new mail when he/she logs on to the system. Message status can be seen at a glance. Messages can be sent to individuals or groups.

DECnet-compatible EXECmail is available with the full-featured, sophisticated CT*OS Word Processor built in for creating and reading documents.

A version of this product is available for the VAX computer.

Price: \$13,500 – \$18,000

Contact: Sally Jensen, Marketing Director
(213) 461-6688

EXECUTIVE SOFTWARE, INC.
5537 Tuxedo Terrace
Los Angeles, CA 90068

FASTRAN

Operating System: RSX

Keywords: • Accounts payable • Banking • Communications
• Telecommunications

FASTRAN automates funds transfer and wire-room processing for financial institutions. The system includes interfaces to FEDWIRE, BANKWIRE, CHIPS, SWIFT, Telex, and TWX. The functions are communications, message routing, test wording, risk control, payment processing, and advice generation.

A version of this product is available for the VAX computer.

Price: \$50,000 – \$100,000

Contact: Richard C. Thurber, Vice President, Finance Systems
(212) 943-4575

LOGICA INC.
20 Exchange Place
New York, NY 10005

FinalWord

Operating System: UNIX, VENIX

Keywords: • Documentation • Text management
• Word processing

FinalWord is a full-screen editor and text formatting package that runs on the VENIX operating system. The package runs on the Professional 350, PDP-11, and VAX computer systems.

As an editor, FinalWord is easy to learn for beginners but has extensive features for advanced users. Menus are available when needed but are transparent to speedy users. The user can define function keys — for example, delete and save or find a file. Several files can be edited and displayed at once. Global search and query keys allow for rapid movement and editing within the text.

With FinalWord formatting, chapter headings, footnotes, subsections, appendixes, and indexes are numbered and positioned automatically. The layout and formatting commands can be embedded in the text or in separate files. FinalWord can justify text with true proportional spacing, print boldface and underline text, and use special fonts if available on the user's printer. The formatted text can be previewed on the screen and saved in a file to be printed immediately or at a later time.

FinalWord supports a wide variety of terminals and printers.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Business Software
(617) 661-1230
VENTURCOM INC.
215 First Street
Cambridge, MA 02142

Handle Business Graphics

Operating System: ULTRIX, UNIX

Keywords: • Graphics • Presentation aids • Printing

Handle Business Graphics is a fully interactive package for generating powerful business graphic drawings. Drawings can be moved from page to page as documents are enlarged or shortened. Multiple drawings are allowed in any text document.

Pie, line, and bar charts (stacked or grouped) can be generated from either raw data or a Handle Calc model. Handle Business Graphics also allows for one to four plots within a drawing. Any graph can be displayed within a Handle writer document and printed with the document on a letter-quality or dot matrix printer. Or, the space can be saved and the graph plotted on the document with a color plotter. In every case, the correct size of the plot is “remembered” by Handle Writer and correctly drawn in.

A version of this product is available for the VAX computer.

Price: \$295

Contact: Karan Kauppila
(916) 583-7283
HANDLE CORP.
P.O. Box 7018
Tahoe City, CA 95730

Handle Calc

Operating System: ULTRIX, UNIX

Keywords: • Financial planning • Mathematics
• Spreadsheets • Statistics

Handle Calc/Math produces electronic spreadsheets and provides a comprehensive interactive math package. Users can produce virtual spreadsheets, user-defined columns, sorting, execute file, worksheet consolidation, and formatting.

Handle Calc can also generate pie and bar charts from any Handle Calc model by using Handle Graphics. Windowing and title locks are additional features.

Handle Calc/Math is fully interactive with Handle Writer, Handle Graphics, and Handle List. The package enables the user to insert and do mathematical calculations inside a Handle Writer document and is completely function key-driven.

A version of this product is available for the VAX computer.

Price: \$395

Contact: Karan Kauppila
(916) 583-7283
HANDLE CORP.
P.O. Box 7018
Tahoe City, CA 95730

Handle List

Operating System: ULTRIX, UNIX

Keywords: • File management • File transfer
• Forms management • Telecommunications

Handle List permits user-defined data bases of information. Simple forms fill-in templates are used to streamline information into the data bases. Information can be selectively sorted and merged within letters, lists, and so on. List processing, telemarketing, and any type of information management are quickly and easily generated with Handle List. As with all Handle products, Handle List is completely function key driven and fully integrated with other Handle products.

A version of this product is available for the VAX computer.

Price: \$240

Contact: Karan Kauppila
(916) 583-7283
HANDLE CORP.
P.O. Box 7018
Tahoe City, CA 95730

Handle Spell

Operating System: ULTRIX, UNIX

Keywords: • Text management • Word processing

Handle Spell offers automatic spelling checking and correction and features an 80,000-word dictionary and user-defined spelling dictionary with Handle's unique phrase-recall option. Handle Spell-Proofer allows the user to correct misspelled words with the correct word by using simple keystroke commands.

A version of this product is available for the VAX computer.

Price: \$125

Contact: Karan Kauppila
(916) 583-7283
HANDLE CORP.
P.O. Box 7018
Tahoe City, CA 95730

Handle Writer

Operating System: ULTRIX, UNIX

Keywords: • File management • Report writer
• Text management • Word processing

Handle Writer is a comprehensive word processor and filing system. In addition to word processing, the system supports mail merge, document indexing, cataloging, and archive cataloging.

Handle offers complete password security controls that limit access to the system entirely or only on selected documents. Mail boxes, inter-office memos, and corporate reading files offer the user office automation features in a word processor that can be accessed by single-keystroke commands.

Handle Writer maintains complete catalogs and archive catalogs of all documents created. Documents can be indexed (filed) under multiple subject titles. An operator can also selectively ask for only his or her documents to be displayed from the catalog or for all unsecured documents to be displayed.

Detailed user profiles are a step-by-step computer-prompted use or style sheet. Easy question-and-answer sessions prompt the user to configure the work being done at each terminal, define who is at that terminal, passwords, default printers, preferred formats, and menu selections.

In addition, Handle Writer's import/export capabilities allow it to read system files or UNIX* mail files and to create Handle documents. Handle Writer also can export any document to system files or to a UNIX* mail box.

When bundled with Handle Graphics, Handle Writer enables the user to include in text business graphics, printed either on a dot matrix printer or on a color graphics plotter. Drawings of any size can be placed inside a document and can be viewed in exact form, using Handle's proof mode.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$595

Contact: Karan Kauppila
(916) 583-7283
HANDLE CORP.
P.O. Box 7018
Tahoe City, CA 95730

Horizon Software System™

Operating System: UNIX

Keywords: • Decision support • Personal computing
• Spreadsheets • Word processing

The Horizon Software System is a fully integrated UNIX*-based office automation system encompassing Horizon WordProcessing™ and Horizon Spreadsheet.™ Horizon runs readily on various UNIX* and UNIX* look-alike systems. The Horizon user needs a UNIX* system, a visual display unit running at a minimum of 4,800 baud, and a system printer.

The Horizon system provides "what-you-see-is-what-you-get" word processing with many powerful editing and formatting features, including on-screen right justification, centering, indentation, alignment, and underlining. The results of commands are shown on the screen as the commands are executed.

Most business documents can be written with the formatting commands built into the full-screen text editor. Embedded dot commands provide simple access to more powerful formatting commands. Horizon dot commands may be displayed on screen before a document is printed.

Horizon WordProcessing is available in French, German, and Swiss language versions as well as in English.

The Horizon Spreadsheet employs virtual memory to allow full use of the 256-cell "electronic work surface." Powerful built-in functions include date arithmetic, complex scientific calculations, and complex financial calculations, precise to 17 digits.

668 Office Systems

The clear multiline menu makes it easy to consolidate spreadsheets or to extract data from subordinate spreadsheets. Formatting options, including left and right justification, dollars, dates, and decimal-place selection can be displayed in multiple windows with fixed fitting. The Horizon Spreadsheet works with any 24×80 , 24×132 , or 66×80 display and is fully integrated.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$595 – \$2,395

Contact: Alison Baker
(415) 543-1199

HORIZON SOFTWARE SYSTEMS, INC.
#4 China Basin Building
185 Berry Street, Suite 4825
San Francisco, CA 94107

IB Graph

Operating System: RSTS

Keywords: • Decision support • Documentation • Graphics
• Report writer

The IB Graph software system puts business graphics within reach of your entire staff. IB Graph is a menu-driven system that allows users to produce different types of pie, bar, and line graphs. For example, IB Graph can produce horizontal and vertical bar graphs, floating bars, and bars with depth. Users may explode any number of segments of a pie. Shaded line graphs are possible.

Data is easily captured. Data may be either entered by the operator or captured from your existing data bases through our menu-based system. Thus, no new code needs to be written to convert data for plotting.

IB Graph supports a wide range of plotting devices: VT125s, VT240, VT241, TEK4105s, LA34s, LA100s, Printronix Line Printers (LXY/11 and LXY/21), and Hewlett-Packard Plotters with an HPGL or HPIB interface.

A version of this product is available for the VAX computer.

Price: \$3,000 – \$9,500

Contact: Eric Moothart, Software Marketing Director
(714) 970-1515

DATA PROCESSING DESIGN, INC.
1400 North Brasher Street
Anaheim, CA 92807

ICT (International Cable Testing System)

Operating System: RSTS

Keywords: • Banking • Report writer • Security
• Telecommunications

ICT is a turnkey software package that completely automates the testing function while improving accuracy, control, security, and efficiency. The system can store all test key tables, fixed numbers, and incoming and outgoing consecutive numbers for all banks entered in the system; all transaction information is stored within the ICT System, thus eliminating the need for manual logs. To help eliminate errors and their penalty costs, the ICT System will alert the testing clerk of duplicated incoming consecutive numbers and incorrect tests. Additionally, a telex is prepared by the ICT System for all missing incoming consecutive numbers.

Reports are produced daily, indicating all test transactions, incorrect and duplicate tests, and missing consecutive numbers. That feature aids in the management of the testing area, which traditionally has had few management controls. As the calculation of all tests is automatic and operator input is both minimal and checked for errors, the accuracy of this system will far surpass other methods. In addition, the time required to test daily messages is substantially reduced. Storage space within a testing department will be increased by removing actual test key files.

Approximately 1,000 banks can be stored on the ICT System.

A version of this product is available for the VAX computer.

Price: \$5,000 – \$10,000

Contact: Salvatore Cangialosi, President
(212) 449-4608
PRIME ASSOCIATES, INC.
38 Paerdegat 7 Street
Brooklyn, NY 11236

INed

Operating System: IS/3, IS/WB

Keywords: • Documentation • Text management

This screen-oriented text editor provides capabilities for multiple windows and other advanced editing features.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Ted White
(213) 450-8363
INTERACTIVE SYSTEMS
1212 7th Street
Santa Monica, CA 90401

INmail

Operating System: IS/3, IS/WB

Keywords: • Electronic mail • Networking

This electronic mail sending and receiving facility is a flexible routing system, with “reply” and “forwarding” features and secondary mail-boxes. The program interfaces with remote UNIX* systems using INnet and/or uucp.

* UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Ted White

(213) 450-8363

INTERACTIVE SYSTEMS

1212 7th Street

Santa Monica, CA 90401

InterText™

Operating System: DSM (MUMPS)

Keywords: • Data entry • Pre- and postprocessors
• Text management • Word processing

InterText is a complete word and text processing system that has been designed for use on standard CRT terminals. For terminals with advanced video options, InterText can be used in a more sophisticated environment for full in-line, on-line screen editing, using its altermode option. InterText has been designed so that variable names can be embedded in the texts that are written. The user can fill in those variables when the texts are printed. Special preprocessors and scans can be defined that will derive the values to be printed from any data base that coexists on the same disks with InterText.

As with any word processing system, InterText may be considered to be a smart typewriter. The system can be used to write, edit, and print any type of text (letters, memoranda, and reports, for example). Typing in text for the first time is referred to as creating a text file. Once a text file has been created and edited, it may be printed in a formatted version. InterText accomplishes that by interpreting formatting controls that have been set in the text and those that are defined by the user at the time of printing.

Text creating and editing are accomplished on line. The features include print (display) existing text, insert lines of text, delete lines of text, change a line or all lines of text, duplicate lines of text within or from another text file, create (set) tabs for the text file, kill (delete) a complete text file, list all files, and quit (exit from) the edit mode.

Within a text file, formatting commands allow centering text, writing in formatted and unformatted modes, indenting, new-page definition, and new-line and/or paragraph spacing.

Using the altermode editing option, the user can display the text on the screen as it will print and can edit it completely as it is displayed. Editing in this mode is accomplished by moving the cursor to the place in the text where the change is to be made, typing the change, and indicating when the change is complete. The system then redisplayes the new or modified text. The altermode option contains most if not all of the features of the special word processing packages that require special input terminals, but does so using a standard CRT and direct cursor-addressing features.

The user may print text by itself, in a stream with other text files, or by using InterText's special processor option. At each printing, the user is requested to indicate the text file(s) to be printed, what spacing (between lines) is required, the number of copies to be printed, and the margins to be used. If the special processor option is used, the user also specifies which processor is to be used, and the system will select the output on the basis of that processor, filling in variable data as it proceeds.

A version of this product is available for the VAX computer.

Price: \$2,500

Contact: Alexander J. Phillips, President
(201) 256-7633

INTERACTIVE SYSTEMS AND MANAGEMENT CORP.
1500 Cardinal Drive
Little Falls, NJ 07424

LABELS (The Mailing List System)

Operating System: RSTS

Keywords: • Data base management • File management

LABELS is an on-line interactive system for developing, maintaining, and printing a mailing list and/or mailing labels. An individual master file record contains the customary fields for company name, first name, last name, two address lines, city, state, a 5- or 9-digit zip code, and phone number. A 2-character field for a geographic region code, five 2-character fields for category codes, and five 2-character fields for specialty codes are optional.

In creating a mailing list, the user has the option of choosing all, or up to nine, categories, and all, or up to nine, specialty codes, plus a specific geographic region or all regions. The system will then give a record count listed by the first three digits of the zip code and gives the user the option of deleting certain zip codes from the listing. The system then gives the user the option of creating multiple listings per addressee and produces a user-named output file. The system also contains a menu option exclusively for determining the record count per zip code of the entire master file.

The system offers three types of numbering systems. Output is on 3-across, 3½" × 1" labels.

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A version of this product is available for the VAX computer.

Price: \$2,250

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.
1010 S. Weinbach Avenue, P.O. Box 2469
Evansville, IN 47714

LEX-11

Operating System: CTS-300, IAS, MS/DOS, RSTS, RSX, RT-11,
TSX-PLUS, ULTRIX, UNIX,

Keywords: • Forms management • Report writer
• Text management • Word processing

LEX-11 is an integrated word and list processing software package with office automation and data management facilities.

LEX-11 offers full-screen editing, single-keystroke functions, menu customization, forms creation and recall, multiple-column text entry, cut-and-paste functions, a calculator, ASCII-formatted files, and no embedded codes.

Options include an on-line training guide, a 90,000-word spelling checker, and a desk diary.

A version of this product is available for the VAX computer.

Price: \$550 - \$7,500

Contact: Mercia Dickman, Marketing Director
(617) 443-5106

EEC SYSTEMS, INC.
327/E Boston Post Road
Sudbury, MA 01776

Mail Package

Operating System: RSTS

Keywords: • Electronic mail • Networking

Memory required: 16K.

The four Mail Package programs provide all the facilities necessary to create and maintain a sophisticated "postal" system for RSTS/E users. To use the system, a user must first register by entering his or her name into a Mail user data file ledger. That is done only once. From then on, the user's name is associated with his or her account number, and the user is allowed to send and receive mail. Mail bearing the sender's identification is sent directly into the recipient's account. DECUS number 11-326.

Note: Certain features necessary for proper operation of the programs are not implemented in previous versions of RSTS. The programs' data files require a minimum of 250 blocks; that figure could expand to 400 blocks if all possible system accounts are occupied by only one individual.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

Mail System

Operating System: ULTRIX, UNIX

Keywords: • Data collection • Management • Report writer
• Text management

Mail System, an easy-to-use name and address system, can code addresses to do selective mailings. Extensive search and retrieval capabilities exist on any field, and labels can be produced for mailings, in addition to a wide range of reports.

The system is written in C language and uses the public domain Ingres data base written by the University of California at Berkeley. Binary and source codes are available for UNIX* Berkeley 4.1 and 4.2. The source code is available for all others.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$1,000 – \$5,000

Contact: Fred Potthoff
(612) 941-9470

FARGO ELECTRONIC SERVICES, INC.
7150 Shady Oak Road
Eden Prairie, MN 55344

MAILER (Mailing List System)

Operating System: RT-11, TSX-PLUS

Keywords: • Retail • Sales and marketing • Wholesale

This software has nine programs for maintaining and using mailing lists. You can assign a group code name or number, an identification key name or number, and comments to each address. The address number and entry date are automatically entered by the computer.

Addresses can be sorted and printed by a person's last name, company name, or zip code. You can select only certain group codes, identification keys, address numbers, or dates to be printed. The programs print both address labels and address listings for your records. The Zip Code Sort is useful for bulk mailings.

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Additional options enable you to look up an address when only some information is known. For example, you can look up all persons named Sam in Maryland or all persons living on Evergreen Street. (Program options are accessed from the master program, MAIL.)

You can print a category report that lists all the group codes and identification keys used and the number of addresses in each code or key. One program compares addresses and prints out possible duplicates.

These mailing list programs are written in BASIC-11. Programs are supplied on RX01 or RX02 8" diskettes. The RX02 diskette holds up to 1,900 addresses and related information. You can store 6,000 addresses on a disk using about 1.5M bytes. A well-written, easy-to-use user's manual is included.

Price: \$450

Contact: Raymond H. Green
(813) 360-1967

RAY GREEN AND ASSOCIATES
603 55th Avenue
St. Petersburg Beach, FL 33706

Mail/Message System

Operating System: RSTS

Keywords: • Electronic mail • Networking

Memory required: 11K words.

The Mail System allows mail/messages to be sent to system users, whether or not they are using the system. Mail may be read, sent, deleted, and moved to or sent from existing files. Each member of the system has a "mail-box" file on his or her account. An append file for the LOGIN program is provided, as are utility programs for creating and initializing "mail-box" files and adding new users to the valid mail system users' list. A user's guide and technical specifications document are provided. DECUS number 11-287.

Restrictions: Current implementation is for a 24-hour, not A.M./P.M., clock.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

MATRIX Transaction Exchange

Operating System: RSTS, RSX, RT-11

Keywords: • Decision support • Education
• Telecommunications • Text management

MATRIX, which was awarded the 1983 Outstanding Information Technology Award by the Association of Information Managers, is an enhanced, friendly, menu-based computer conferencing system with advanced electronic communications features, such as sophisticated text conferencing with unlimited conferences, unlimited discussions,

and unlimited personal memo areas. MATRIX also provides on-line help and instruction, a bulletin board, a directory, and electronic mail. MATRIX is available for either purchase or timesharing.

MATRIX offers more than 200 user functions and more than 60 specific management functions for the system operator, conference manager, and discussion leader. Each of those menu-based functions is designed to fit within the management structure. In addition, a wide range of management reports and accounting functions is available to all levels, including the MATRIX user.

The following is a partial list of computer conferencing system features:

- On-line meeting and management conferencing features: Desk-to-desk access is provided to text (data) files simultaneously by different persons located in many locations, many-to-many communications with special areas for electronic meetings and discussions.
- Personal notepad and work areas: Each user has private secure (password-protected) files or memo areas that are kept on line for ease of use. Notes or memos can be sent to other conferees, to conference discussions, or to the bulletin board.
- On-line bulletin board: Systemwide access by all participants for company notices, policy procedures, and other activities.
- Status and tracking functions: Information about current mail, comments, and new items added to the system is provided.
- Management reports and directories: Reports about mail and conference activity are available to the user, such as a directory of conferences and members located throughout the system.
- Electronic mail/messaging: One-to-one messaging, including new-message announcements, filing, renaming, editing, and forwarding, is provided.

A version of this product is available for the VAX computer.

Price: \$10,000

Contact: W. Keith Evans, Vice President, Sales and Marketing
 (303) 444-8877
 ITC CORP.
 1877 Broadway
 Boulder, CO 80302

MUSE Word Processing Software

Operating System: RSX, UNIX

Keywords: • Mathematics • Text management
 • Word processing

MUSE, also known as WordMARC, provides office-grade word processing on all DIGITAL computers, including the DECsystem-10, DEC-SYSTEM-20, VAX, PDP-11, PRO 350, and Rainbow. Thus, MARC is the only word processing vendor to provide identical support for the

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entire DIGITAL family. Documents created on one computer can easily be sent over DECNET to another computer for further editing or printing.

The MUSE software package features all the functions commonly found in the most prominent word processing systems on the market today. MUSE Version 4 features a spelling checker that provides capabilities unmatched by any other word processing package. Documents are checked against four dictionaries: the most-common-word dictionary (300 words), a user directory dictionary, a site-specific dictionary, and the MARC main dictionary (57,000 words). After the spelling check, MUSE interactively presents the document with the errors identified for correction. The user directory dictionary can be automatically updated during that session.

Other features in MUSE Version 4 include improvements to allow interactive pagination, an abbreviation glossary, quick-skip cursor, boldface typing, column move, copy and erase, multiple-line headers and footers, and cursor-controlled document selection and deletion. All those features are directed at increasing productivity by improving ease of use.

Organizations engaged in heavy technical typing with the need for multilevel equations find MUSE very user-friendly. Each character line can be expanded to 13 levels on the screen, allowing the user to see up to 6 levels of superscript and 6 levels of subscript in addition to the base line. MUSE handles alternate character sets on the terminal screen, so Greek/math characters can easily be combined with standard characters to create complex equations.

A version of this product is available for the VAX computer.

Price: \$595 – \$12,500

Contact: Bob Brock
(415) 326-1971

MARC SOFTWARE INTERNATIONAL, INC.
260 Sheridan Avenue, Suite 200
Palo Alto, CA 94306

Net

Operating System: UNIX

Keywords: • Data base management • File management
• Information management • Scheduling

Net is a personal filing system that allows an individual to interactively create and manipulate a small data base of information ("small" precluding a large corporate data base). For example, within a Net data base, the user could keep names and addresses, lists of suppliers, appointment books, records of meetings or correspondence, haunt lists, and so on.

The program permits data to be organized in a simple list structure (sorted if requested). Data relations are expressed primarily by a hierarchical arrangement of the data. However, the hierarchical ordering can be augmented by "links" between nodes. Those links allow general networks of data nodes to be formed.

Searching the data base is possible in several modes, including browsing, literal match, and phonetic match. Searches can be limited in scope or can be made global on the data base. Repeat searches allow traversal of the data base to select the correct item without reentry of a complete search command.

A formatted dump of the data base may be sent to a printer or a file. The user controls the level of recursion within the data base. Subnodes may be moved within the data base and may be dumped and reloaded into other data bases.

A version of this product is available for the VAX computer.

Price: \$500

Contact: Douglas J. Ross, President
(613) 548-4355
ANDYNE COMPUTING LTD.
221 King Street East, P.O. Box 1496
Kingston, Ontario K7L 5C7
Canada

Office Supply/1000

Operating System: RSTS

Keywords: • Accounting • Inventory • Order entry • Payroll

Office Supply/1000 provides order processing, inventory control, sales analysis, accounts receivable, accounts payable, general ledger, payroll, word and list processing, and key customer system.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Andrew Yasenchak
(201) 231-9400
UNITRONIX CORP.
197 Meister Avenue
Somerville, NJ 08876

Officeman

Operating System: RSTS, RSX

Keywords: • File management • Forms management
• Scheduling • Word processing

This integrated electronic office system includes word processing, electronic mail, forms and memoranda generation, personal and corporate filing and retrieval, calendars, check lists, appointments and resource scheduling, and other key management, professional, and secretarial

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applications. The system can be interfaced with existing/planned data processing applications and with external systems such as telex, word processors, personal computers, and so on. Current installed systems include oil exploration and production, national telecommunications authority, manufacturing, and educational establishments.

A version of this product is available for the VAX computer.

Price: \$10,000 – \$75,000

Contact: Dr. C. V. D. Forrington
0242 42115

CORPORATE BUSINESS SYSTEMS LTD.
Jessop House, 30 Cambay Place
Cheltenham, Glos GL50 1JP
United Kingdom

Officeware®

Operating System: ULTRIX, UNIX

Keywords: • Forms management • Graphics • Spreadsheets
• Word processing

Officeware is an integrated office automation system that provides all the essential components for effective automation of the modern office. Implemented around highly intelligent workstations, Officeware provides the writing, planning, forms management, graphics display, personal, and networking requirements of executives, knowledge workers, and production personnel. The workstation may be linked to a UNIX*-based host processor and other Officeware workstations in a local area network.

Because all Officeware components were designed as an integral part of the entire system, the approach is consistent and comprehensive and provides continuity and ease of switching between functions. Self-explanatory function keys maintain the same meaning from function to function, and the ease of switching from one facility to another further enhances the product's operational strengths.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$1,200

Contact: Tony Parkhill
(415) 680-7800

CENTURY ANALYSIS, INC.
114 Center Avenue
Pacheco, CA 94553

PARS (Professional Accounts Receivable System)

Operating System: RSTS

Keywords: • Accounts receivable • Billing • Scheduling
• Taxes

ABLEPARS is an on-line interactive time analysis and billing system particularly useful in professional organizations such as CPA firms, law firms, and so on, where client billing is directly related to the time an individual spends performing a certain service. But because the system accumulates employees' hours under a certain work code, at a certain standard rate, and for a specific client/job, it is adaptable to a wide variety of purposes.

ABLEPARS supports the automatic billing of up to 999 standard, recurring charges as well as charges via an invoice. Comparison of the year-to-date billable charges and year-to-date billings reports can be an extremely valuable tool in decisions involving retainer fees and billing in general. ABLEPARS gives the professional the option of billing as the services are rendered or spreading the billing over several billing periods. ABLEPARS can be implemented by itself or integrated with other systems. The system has many user-controlled options and does not require a programmer for modification in a time-share environment. Screen-formatted entry encourages user acceptance, decreases operator training time, and ensures data integrity.

A version of this product is available for the VAX computer.

Price: \$5,000

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.
1010 S. Weinbach Avenue, P.O. Box 2469
Evansville, IN 47714

PER-FORM™ (Personalized Form Letters)

Operating System: RSTS

Keywords: • Documentation • Text management

PER-FORM, an on-line package used for the development of personalized form letters, interfaces a user's mailing list with a user's letter developed with the RSTS/E utility RUNOFF, creating a personalized letter. PER-FORM allows up to nine personalized fill-ins within the body of the letter and prints the personalized envelope.

PER-FORM will do nothing that a good word processing system could not do, and even less. But many individuals and firms find word processing impractical because of the size and frequency of their mailings. PER-FORM fills that niche. PER-FORM is an affordable, practical software complement for any company or firm with a RSTS/E-based system.

A version of this product is available for the VAX computer.

Price: \$800

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.
1010 S. Weinbach Avenue, P.O. Box 2469
Evansville, IN 47714

Plessey-CALC

Operating System: RSTS, RSX, RT-11, TSX-PLUS

Keywords: • Calculation aids • Decision support
• Financial analysis • Spreadsheets

The Plessey-CALC electronic worksheet provides the framework for performing a myriad of business and scientific operations. Plessey-CALC can simplify expense reporting, tighten inventory control, improve sales reporting and forecasting, develop sales quotations, and make business projections. Plessey-CALC is fully integrated with Plessey-WP and is ideal for either the minicomputer or the microcomputer environment. Plessey-CALC is programmed in assembly language. A graphics option features pie and bar charts.

A version of this product is available for the VAX computer.

Price: \$500 - \$2,500

Contact: Software Department
(714) 540-9945

PLESSEY PERIPHERAL SYSTEMS
17466 Daimler Avenue
Irvine, CA 92714

Plessey-WP (Plessey Word Processor)

Operating System: RSTS, RSX, RT-11, TSX-PLUS

Keywords: • Data base management • Documentation
• Report writer • Word processing

Plessey-WP is a word/list processing solution for PDP-11 and LSI-11 users. Plessey-WP, written in MACRO-11, is easy to use and takes advantage of the power and flexibility of the minicomputer. Besides the standard word processing functions, Plessey-WP provides a powerful office system that can create an input screen, generate a data base, allow the operator to enter whatever data is desired, sort the data on any field, and then list the data or merge it into any user-defined form or letter.

The word processing section consists of a full-screen editor that provides options such as cut, paste, search and replace, insert field from list processing file, on-line help menu, load all or part of another document, and so on. The output formatter supports multilevel subscripts and superscripts, centering, justification, overstrike, underlining, table protect, left or right tabs and automatic hyphenation, index, table of contents, date insertion, headers, footnotes, page numbering,

word wrapping, variable-character spacing, and multilists levels. Plessey-WP also provides a document directory, a spelling dictionary, and a math package.

The list processor contains facilities for forms generation, creating the input screen and data base, prompted data entry, multikey sort/select, and record search. Those functions may be performed by an operator with no programming knowledge.

Because Plessey-WP uses ASCII files, it is a very fast and efficient editor for all text and source files. Plessey-WP supports many different printers and terminals, including the VT52 and the VT100.

Plessey-WP is fully integrated with Plessey-CALC as an option.

A version of this product is available for the VAX computer.

Price: \$1,500 – \$2,500

Contact: Software Department
(714) 540-9945

PLESSEY PERIPHERAL SYSTEMS
17466 Daimler Avenue
Irvine, CA 92714

POMS (Professional Office Management System)

Operating System: RSTS, RSX

Keywords: • Accounts receivable • Billing • Report writer
• Scheduling

This series of programs for running a smooth, efficient office includes time entry/analysis, expense and disbursement reporting, work-in-process tracking, bill preparation, and many others. POMS is available for fast, efficient, trouble-free installation. POMS is a turnkey system, which means hassle-free transfer from your current system to POMS.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Roberta Routhe, Manager DP Operations
(612) 571-1249

CUSTOM DIGITAL SERVICES
999 50th Avenue Northeast
Minneapolis, MN 55421

Q-CALL

Operating System: MS/DOS, ULTRIX, UNIX

Keywords: • Data base management • Telecommunications

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Q-CALL can be used to create a data base of names, addresses, and phone numbers by alphabetical listing or category. Q-CALL also allows the user to store port configurations for various computer systems and to perform complete autodial functions using English-language menus.

A version of this product is available for the VAX computer.

Price: \$115 – \$695

Contact: Vanessa Abbe
(818) 789-8588

QUADRATRON SYSTEMS, INC.
15760 Ventura Boulevard, Suite 1032
Encino, CA 91436

Q-DATE

Operating System: MS/DOS, ULTRIX, UNIX

Keywords: • Scheduling

Q-DATE is an electronic calendar/scheduler consisting of a monthly, a weekly, and a daily display. Q-ONE word processor-compatible function keys allow the user to easily insert, move, replace, copy, delete, and search for appointments. Calendars may be set up with private appointment passwords, and any appointment can issue an alarm.

A version of this product is available for the VAX computer.

Price: \$155 – \$995

Contact: Vanessa Abbe
(818) 789-8588

QUADRATRON SYSTEMS, INC.
15760 Ventura Boulevard, Suite 1032
Encino, CA 91436

Q-FORM

Operating System: MS/DOS, ULTRIX, UNIX

Keywords: • Data collection • Forms management • Printing

Q-FORM is an interactive screen builder and forms manager that can be used for straight forms design or as a data collection vehicle for other programs, such as data bases or spreadsheets. Fields within a form may be defined as alphabetical, numeric, or both, and limits may be placed on the number of characters. Q-FORM also has complete print capability.

A version of this product is available for the VAX computer.

Price: \$395 – \$2,000

Contact: Vanessa Abbe
(818) 789-8588

QUADRATRON SYSTEMS, INC.
15760 Ventura Boulevard, Suite 1032
Encino, CA 91436

Q-MAIL**Operating System:** MS/DOS, ULTRIX, UNIX**Keywords:** • Electronic mail • File transfer

Q-MAIL, an electronic mail program, can be used for sending notes and documents to users on the same system or across systems automatically. Q-MAIL uses the Q-ONE word processor to create messages but easily interfaces with other types of editors as well. Features include an undelete "waste-basket" function, in/out baskets, and certified mail.

A version of this product is available for the VAX computer.

Price: \$155 – \$995**Contact:** Vanessa Abbe
(818) 789-8588

QUADRATRON SYSTEMS, INC.
15760 Ventura Boulevard, Suite 1032
Encino, CA 91436

Q-MATH**Operating System:** MS/DOS, ULTRIX, UNIX**Keywords:** • Calculation aids

Q-MATH works like a standard, full-function office calculator, complete with 24 memory storage locations and "tape." Numbers and alpha characters entered on the on-screen "tape" can be saved to an easily retrievable file. Function key definitions can be displayed on the screen at any time.

A version of this product is available for the VAX computer.

Price: \$115 – \$695**Contact:** Vanessa Abbe
(818) 789-8588

QUADRATRON SYSTEMS, INC.
15760 Ventura Boulevard, Suite 1032
Encino, CA 91436

Q-MENU**Operating System:** MS/DOS, ULTRIX, UNIX**Keywords:** • Menu handlers

Q-MENU is a multilevel menu utility program used for generating and maintaining menus. Menus can execute any resident programs on a system, regardless of the source language. Operating system commands can also be executed through Q-MENU menus, creating an English-language environment for all users of the system.

A version of this product is available for the VAX computer.

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Price: \$395 – \$2,000

Contact: Vanessa Abbe
(818) 789-8588

QUADRATRON SYSTEMS, INC.
15760 Ventura Boulevard, Suite 1032
Encino, CA 91436

Q-NOTE

Operating System: MS/DOS, ULTRIX, UNIX

Keywords: • Data base management • Data collection
• Text management

Q-NOTE is a writing program designed for collecting, indexing, and retrieving any type of information, using an index card editor format. Character strings entered on the first line of the "index card" may be used to sort and retrieve the information on the body of the card, which is contained in the data base.

A version of this product is available for the VAX computer.

Price: \$115 – \$695

Contact: Vanessa Abbe
(818) 789-8588

QUADRATRON SYSTEMS, INC.
15760 Ventura Boulevard, Suite 1032
Encino, CA 91436

Q-OFFICE

Operating System: MS/DOS, ULTRIX, UNIX

Keywords: • Data base management • Telecommunications
• Text management • Word processing

Q-OFFICE, an integrated office automation package designed for ease of use and hardware independence, consists of eight software modules: Q-ONE, word processing; Q-MENU, menu manager; Q-DATE, calendar; Q-MAIL, electronic mail; Q-CALL, phone directory; Q-FORM, forms designer; Q-MATH, full function calculator; and Q-NOTE, notepad/index program.

A version of this product is available for the VAX computer.

Price: \$1,860 – \$9,200

Contact: Vanessa Abbe
(818) 789-8588

QUADRATRON SYSTEMS, INC.
15760 Ventura Boulevard, Suite 1032
Encino, CA 91436

Q-ONE**Operating System:** MS/DOS, ULTRIX, UNIX**Keywords:** • File management • Printing • Text management
• Word processing

Q-ONE, a function key-oriented, menu-driven word processor, can be used to edit source code as well as to produce advanced, photocomposed documents, using virtually any terminal or printer. Records processing, complete with English-language menus for generating control files, is also included with the package.

Q-ONE allows for complete integration with other software via easy-to-use function keys and predefined glossary files. Sophisticated integration with spreadsheets and data bases can be accomplished by a few simple keystrokes.

Q-ONE also lets users manipulate and maintain files as well as move around in the operating system environment without leaving a system of user-friendly menus.

A version of this product is available for the VAX computer.

Price: \$595 – \$3,000**Contact:** Vanessa Abbe
(818) 789-8588

QUADRATRON SYSTEMS, INC.
15760 Ventura Boulevard, Suite 1032
Encino, CA 91436

QM (Quick-Mail)**Operating System:** RT-11, TSX-PLUS**Keywords:** • Communications • Electronic mail • Security

Quick-Mail is a fully featured electronic mail and filing system. Using disk-resident files called mailboxes, Quick-Mail supports in-house message exchange, desk calendars, to-do lists, annotated archives, and other office automation objects. Security features include encrypted mailbox files, password protection, and access controls. Special user aids include an integral editor, keyword mailbox searches, deferred (future) message delivery, chronological and random message access, and a full interface to local files and devices. Quick-Mail uses an easy-to-learn, English-like high-level command language.

Price: \$650**Contact:** Jack J. Peterson
(804) 740-9244

HORIZON DATA SYSTEMS
1901 Wildflower Terrace
Richmond, VA 23233

RNI (WRDPRO—Word Processing/Text Editing)

Operating System: RSTS, RSX, RT-11

Keywords: • Documentation • Text management

RNI is a utility designed to add the flexibility of IMPRS file handling to word processing. Text, format and control of pagination, titling, margin justification, and so on, are determined with simple commands. The user can prepare textual material using any/all data built with IMPRS.

A version of this product is available for the VAX computer.

Price: \$1,500

Contact: Elvin E. Smith or Forrest E. Weddle

(913) 782-8544

RUF CORP.

1533 E. Spruce

Olathe, KS 66061

ROSTER

Operating System: RT-11

Keywords: • Data base management • Distribution

• Mailing lists • Recruiting

ROSTER is for the maintenance of name and address lists and has two categories of printouts: directories that show names, addresses, telephone numbers, and so on, suitable for membership directories of organizations; and mailing labels. Multiple-person records may be associated with a given address record, which is useful for church or family-type organizations. Records may be organized into subgroups of a larger organization, such as local chapters of a nationwide organization. A person may be a member of one or more subgroups. Five codes are provided in each person record for sorting and grouping. Menu selections may be customized to be convenient for a particular organization. Several printout formats are available.

A special directory printout lists the entries that have been revised within any selected range of dates. Five types of revisions are flagged: new person, address change, other change, dropped, and reinstated. (Revision dates are saved in each record.)

Mailing labels may be printed in alphabetical or zip code order. Any subrange of zip codes may be specified.

The program is written in MACRO-11 assembly language to achieve rapid response and compact data storage. Variable-length records are used to minimize storage. Abbreviations for commonly used cities may be used to simplify entry and save storage.

Price: \$1,500 – \$2,000

Contact: Sam Liden
(602) 943-4341

ANALYTIC DATA CO.
548 W. State Avenue
Phoenix, AZ 85021

RSTS Smart Mailer, Version 1.0

Operating System: RSTS

Keywords: • Data collection • Documentation • Mailing lists
• Printing

The RSTS Smart Mailer software creates and maintains mailing lists of names and addresses and generates address labels. Mailing lists can be created and maintained by adding, removing, and changing individual address entries. Any or all addresses, category definitions, or sublist definitions can be displayed on a video screen. Full addresses, category definitions, and sublist definitions can be printed or written to a disk file. Any mailing list or sublist can be printed on a variety of labels. A standard list document file can be generated for use with DIGITAL word processing systems to produce personalized letters.

Mailing lists contain packed addresses with up to 327 characters, each composed of a name, three address lines, two separate identifiers, a counter, a comment, and up to six user-defined categories.

Category information is user-defined and can be different for each mailing list. Each category can have a separate descriptive label and data type (alphanumeric, numeric, date, yes/no).

Each mailing list can be associated sublists. A sublist is defined as all addresses from a mailing list that meet user-defined requirements.

Each mailing list can be set up differently. For example, a list can be publicly accessible or privately owned. It can also have different types of address identifiers and have different validations performed on address entry.

Refer to SPD #13.23.01 when requesting further information on this product from your local DIGITAL sales office.

A version of this product is available for the VAX computer.

Price: \$500 – \$750

Contact: Consult your local DIGITAL sales office
(see Introduction).

Saturn Word Processing

Operating System: CTS-300, RSTS, RT-11, ULTRIX, UNIX

Keywords: • Documentation • Text management
• Word processing

688 Office Systems

This program creates and edits documents, creates forms and mailing lists, and performs list processing.

Application Development & Enhancements, Inc., is a New England distributor of Saturn Systems in Minneapolis, MN.

A version of this product is available for the VAX computer.

Price: \$2,000 – \$6,000

Contact: Douglas Souza
(617) 893-0333

APPLICATION DEVELOPMENT AND
ENHANCEMENTS, INC.
130 Overland Road
Waltham, MA 02154

SCRIPTORIUM II (Word/List Processing)

Operating System: CTS-300, RT-11

Keywords: • Government • Mailing lists • Text management
• Word processing

This 2-module multiuser information processing system for use in any business or government environment consists of the Word/List Processing and Mailing/Response Tracking modules:

- Word/List Processing is an industry-standard system with automatic spelling check, subscripting, boldface type, underlining, footnotes, and so on. The system interfaces with several types of letter-quality printers. Operating instructions are accessed either on the system disk or in a printed manual.
- Mailing/Response Tracking was developed for use by organizations that maintain voluminous lists (for example, membership, prospects), with the need for predetermined selection criteria. The highlight of this module includes the tracking of monetary contributions by members. The proven system is ideal for charitable organizations, such as churches and alumni groups, that desire year-end reporting to members for individual income tax.

The two modules may be acquired individually or as a complete set. Dealer inquiries encouraged.

Price: \$975 – \$1,300

Contact: Robert L. Metzger, President
(504) 542-1479

DIGITAL COMPUTER SYSTEMS, INC.
31 Darrell Drive
Hammond, LA 70401

SIMS (Supplies Inventory Management System)

Operating System: RT-11, TSX-PLUS

Keywords: • Decision support • Inventory • Purchasing
• Warehousing

The consumption of pens, pencils, and tablets in institutions often seems to skyrocket just before school starts in September. You don't have to simply take those losses. Your supplies inventory is one of the most manageable resources you have. Proper management of your supplies inventory can help you save money by helping you determine when to obsolete items (when stocks of those items are low), assisting you in determining purchase quantities and delivery schedules in order to take advantage of volume discounts, eliminating waste (by watching who gets what), keeping the value of your inventory low (so you have more cash and less of a nonliquid asset), and evaluating department heads (by recording usage levels for each department).

SIMS can provide you with all those management tools. It has facilities for receiving items from up to 200 vendors, issuing items to up to 200 cost centers, and generating users' catalogs and warehouse listings of line items; an inventory valuation report (calculated two ways); stock check by month and year; transaction file reports by vendor number, part number, date, and end-of-month reports (also by cost center, part number, date, and end-of-month report); and monthly usage and average monthly usage reports.

SIMS also maintains files and makes interwarehouse transfers. (The data base can handle identical items stored at multiple locations with multiple prices.)

Price: \$2,500 – \$5,500

Contact: Leland T. (Tom) Smith, President
(512) 692-0953

DATA PROCESSING SERVICES, INC.
8746 Wurzbach Road, Suite 203
San Antonio, TX 78240

SofGram

Operating System: IDRIS, ULTRIX, UNIX

Keywords: • Government • Manufacturing
• Service industries • Telecommunications

SofGram, a total electronic mail package, is a menu-driven system that allows a user to create, send, and receive messages over the Telex, TWX, and DDD networks. The system organizes and files your messages, gives you access to on-line data bases, and informs you when you receive messages. SofGram maintains a data base of everyone to whom you send messages. That data base can be easily organized for mass mailings.

A version of this product is available for the VAX computer.

690 Office Systems

Price: \$500

Contact: Mike Heffler
(201) 447-3901
SOFTEST
555 Goffle Road
Ridgewood, NJ 07450

TC (Total Communicator)

Operating System: Independent

Keywords: • Electronic mail • Telecommunications

The TC is a store-and-forward message switch/information distributor for transmitting information to or from any terminal or computer device to any other, including Telex, TWX, or dial-up units, regardless of location or distance. The TC can automatically send messages or data to another location, selecting available communications channels, addresses, and formats, as well as providing verification of delivery. The TC will batch messages, when applicable, to increase line efficiency and reduce costs. For incoming messages, the TC accepts, stores, logs, and routes the data. Records are kept on all activity, and any transmission may be retrieved for audit or review.

The heart of the TC is a fully programmed store-and-forward message-switching system, including disk storage, printing capability, and communications multiplexers.

Price: \$20,000 +

Contact: Mitch Maloof
(201) 567-3125
SYSTEMS & PROGRAMMING INT'L, INC.
177 N. Dean Street
Englewood, NJ 07631

TXTSYS (Text System for Technical Manuscript Preparation)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Documentation • Pre- and postprocessors
• Programming tools • Text management

This collection of software tools combines with DECUS RUNOFF (RNO) to form a comprehensive text processing system for technical manuscript preparation on PDP-11 and VAX-11 computers with NEC Spinwriters and Technical Math type thimbles. The tools consist of the following:

- TXT, an RNO technical manuscript preprocessor to facilitate use of the super-/subscripting and alternate character set features of the Spinwriter/TM/TR thimble combination
- RNO, DECUS RUNOFF, now modified to pass TXT control sequences transparently to its fill/justification computations (this is Version M02.4, DECUS No. 11-530)

- MP, a macro preprocessor, and TXTSYS.H, Text System macros, to define sequences of TXT/RNO commands as new commands to make document entry easier and to selectively include portions of text from other files within a document
- EQU, a utility to extract just the equations from a document, into a file that will yield an annotated, formatted text, to speed debugging of equations
- QIO (RSX-11M/VMS)/SP: (RT-11), programs to handle output of the often very long sequences of control characters to the Spinwriter
- DOC, the Text System control program, to coordinate and automate processing by the Text System components EQU, MP, TXT, RNO, and QIO/SP:

DOC provides a uniform command interface to the Text System components for RT-11, RSX-11M, and VMS.

All sources and full documentation on each component are provided, including a detailed manual on TXT, which is written in MACRO-11 (as are RNO, QIO, and SP:) and is commented to be easily adapted to other output devices. DOC, EQU, and MP are written in DECUS C; task/save images are provided in case DECUS C is not available.

A version of this product is available for the VAX computer.

Price: \$200

Contact: Dan Dill
(617) 353-4277
BOSTON UNIVERSITY
Chemistry Department
675 Commonwealth Avenue
Boston, MA 02215

Typist

Operating System: RSTS

Keywords: • Text management

Memory required: 8K user area.

This series of programs is designed to emulate the Typist program from Dartmouth College. Typist takes an input file of ASCII text and realigns typed lines where necessary. Output from Typist can be edited and used as input to Typist. DECUS number 11-87.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

Uniplex™ Word Processing System

Operating System: ULTRIX, UNIX

Keywords: • Personal computing • Text management
• Word processing

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Uniplex, a comprehensive, easy-to-use, menu-driven word processing system, is the cornerstone of an automated office. The user interface can be easily tailored to meet user requirements. This reconfigurability includes the menu system, the keystrokes used to edit documents, and the messages displayed. The menu system can provide full access to UNIX* commands and utilities or to user application programs.

A multilevel help facility assists both the novice and the experienced user, and the Interactive Spell Checker can be used to check for spelling errors. Powerful document editing commands and versatile document formatting are also provided, along with a facility to merge text from other files into a document. Fully formatted documents can be previewed on line before printing. Uniplex documents are standard UNIX* ASCII files and can be accessed by other editors or programs. Using the UNIX* TERMCAP capability, Uniplex can operate with almost any standard terminal and take advantage of special function and cursor keys. Uniplex is backed by SCO's comprehensive software warranty and product support services.

Uniplex™ is a trademark of Redwood Bureau Services, Ltd. *UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$595 – \$2,000

Contact: Marketing Department
(408) 425-7222

THE SANTA CRUZ OPERATION, INC.
500 Chestnut Street
Santa Cruz, CA 95060

VC

Operating System: ULTRIX, UNIX

Keywords: • Cost accounting • Decision support
• Financial analysis • Spreadsheets

VC is a spreadsheet package that provides a worksheet of 1,000 rows by 32,000 columns. Calculations may use the normal math operators plus a set of extended functions. All calculations are ordered, ensuring correct recalculation when any data value is changed. Data values can be fetched from external processes. Spreadsheets may be saved in either text or binary form, and multiple sheets may be merged. The package uses TERMCAP for complete terminal independence.

Also included is extensive on-line help, an interactive tutorial to introduce the new user to VC, and a quick-reference guide.

A version of this product is available for the VAX computer.

Price: \$149

Contact: William J. Ezell
(603) 883-9300
SOFTWARE INNOVATIONS, INC.
440 Amherst Street
Nashua, NH 03063

VF

Operating System: ULTRIX, UNIX

Keywords: • Data entry • Forms management
• Query facilities

VF is a forms-oriented screen management package for use under the UNIX* operating system. The package allows entry, retrieval, and modification of data organized in standard UNIX* record format. VF provides access to UNIX* for forms so that external programs may be used to validate or provide data.

Data files are simple UNIX* files and can be processed by standard UNIX* commands. Form definition files, which can also be processed by VF, define record presentation on a display screen and validation criteria for data fields.

By use of the TERMCAP package from the University of California at Berkeley, more than 150 kinds of CRT terminals are supported.

VF offers both an informative user interface for novices or casual users and a concise interface for experienced users.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$249

Contact: David R. Dick
(603) 883-9300
SOFTWARE INNOVATIONS, INC.
440 Amherst Street
Nashua, NH 03063

WORD-11

Operating System: RSTS, RSX

Keywords: • Data dictionary • Diagnostics • Documentation
• Word processing

WORD-11 is a multiuser word processing system designed specifically to run on a wide family of DIGITAL operating systems, including RSTS/E, RSX-11M, RSX-11M+, VAX/VMS, and P/OS. WORD-11 has acquired a proven record of effectiveness and reliability, with more than 1,000 installations worldwide.

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WORD-11's hierarchical menu structure facilitates ease of use, and the labeled keys make it easy to learn. WORD-11 enables users to create and edit documents on line, print those documents on hard-copy output devices, and maintain an index of documents on disk. Advanced features include queued printing system, list processing, and spelling error detection.

The WORD-11 Editor allows users to display a document on the screen, including bolding and underlining, and to use editing keys to move through the text — deleting, underlining, bolding, paging, and changing margins quickly and easily. Additional editing features include automatic footnoting, table of contents and index generation, and column features.

List Processing permits the user to mass-produce a document but still include personalized information. Spelling Error Detection includes a dictionary provided by Data Processing Design, as well as the capability to add words or create multiple user-defined dictionaries.

A version of this product is available for the VAX computer.

Price: \$595 – \$9,500

Contact: Eric L. Moothart, Software Marketing Director
(714) 970-1515

DATA PROCESSING DESIGN, INC.
1400 North Brasher Street
Anaheim, CA 92807

Word List Processing

Operating System: CTS-300, RT-11, TSX-PLUS

Keywords: • Documentation • Text management
• Word processing

This user-friendly, simple word and list processor is relatively more efficient than many others that have basic required functions. It follows closely the capabilities of WPS-78 and can be easily installed and operated under CTS-300 and TSX-PLUS. Using TSX-PLUS, customers have as many as seven CRT units on a PDP-11/23-PLUS computer.

Price: \$995

Contact: Sam Wingate, Vice President
(813) 935-8844

AUTOMATION RESOURCES CORP.
2901 W. Bush Boulevard, Suite 309
Tampa, FL 33618

XED Word Processing System

Operating System: UNIX

Keywords: • Information management • Text management
• Word processing

The XED Word Processing System is a sophisticated general-purpose word processor designed for maximum flexibility and operator convenience. Minimum memorization of commands is required, and all commands may be accessed by either function keys or optional menus. The word processor also features a tree-structured, recursive menu processor that can access related XED office system software for form generation, data entry, document management, and user-defined programs. Complete file management utilities are provided by menu selections.

Features include multiple spooler drivers and printer daemons for either draft printers or fully proportional letter-quality printers, balance sheet mathematic functions with decimal tab editing functions, an embedded interactive spelling checker with a systemwide dictionary and user-defined local dictionaries, and automatic paragraph numbering and outlining, automatic footnoting, phrase glossary, paragraph glossary, and a floating text-variable form letter merge program.

The word processor is completely interfaced with other office systems manufactured by Computer Methods, Ltd. For example, the XSP spreadsheet program can be invoked while editing a document; the results of the spreadsheet calculations on the screen will be saved as part of the document.

XED office system programs are designed and coded for UNIX* Version 7, System III, System V, and Berkeley 4.1 and 4.2 and contain a terminal description file and a printer definition and proportional spacing increment table (both user definable) to provide maximum installation flexibility and efficiency in a multiuser environment. XED is loaded in the UNIX* multitasking operating system as a shared text file.

Computer Methods, Ltd., provides training, an operator's reference and installation manuals, as well as a command summary and a manual for the XED menu processor.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Ted Ferguson
(818) 884-2000
COMPUTER METHODS, LTD.
P.O. Box 709
Chatsworth, CA 91311

ZCHART — Business Graphics

Operating System: RSX

Keywords: • Device drivers/handlers • Graphics
• Presentation aids

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ZCHART is a versatile business graphics package. This portion of the Zeta plotter software produces multicolor line, bar, variance bar, and pie charts created in an interactive session by the user's response to simple, English-language questions. Plot description and data files are stored separately, allowing the user to run new data with an existing chart design or the same data with a different chart design.

ZCHART is a FORTRAN program that makes use of Zeta's Fundamental Plotting Subroutines. The program is designed for easy use by non-programmers. Attractive charts can be produced quickly and accurately by answering the simple questions asked by ZCHART.

A version of this product is available for the VAX computer.

Price: \$1,500

Contact: Bill Manos, Product Manager

(415) 671-0600

NICOLET ZETA CORP.

2300 Stanwell Drive

Concord, CA 94520

Personal Computing



ADE (Applications Development Environment)/RSTS, Version 2.2

Operating System: RSTS

Keywords: • Accounting • Inventory • Programming tools
• Scheduling

PDP-11 ADE/RSTS is a nonprogrammer's development software package for small applications requiring processing of character, numeric, and/or date-oriented information. The product is designed specifically as a productivity tool for use by nontechnical personnel and runs under the RSTS/E operating system.

PDP-11 ADE/RSTS allows users to create their own information base; add, change, or delete data; perform calculations on data; produce simple bar graphs; and write/print reports.

Refer to SPD #13.11.04 when requesting further information on this product from your local DIGITAL sales office.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Consult your local DIGITAL sales office
(see Introduction).

ADE/RSX, Version 2.2

Operating System: RSX

Keywords: • Accounting • Inventory • Programming tools
• Scheduling

PDP-11 ADE/RSX is a nonprogrammer's development software package for small applications requiring processing of character, numeric, and/or date-oriented information. The product is designed specifically as a productivity tool for use by nontechnical personnel and runs under the RSX-11M and RSX-11M-PLUS operating systems.

PDP-11 ADE/RSX allows users to create their own information base; add, change, or delete data; perform calculations on data; produce simple bar graphs; and write/print reports.

ADE/RSX allows personnel to automate simple applications without requiring knowledge of programming techniques or languages and to use the product's more complex facilities and functions; uses English words for commands, such as MAKE, SAVE, SORT, and has full screen-handling capabilities; provides prompting to the user after each input, as well as extensive "HELP" messages to explain all commands or input required; allows multiple users to copy PDP-11 ADE/RSX developed data but also allows for user protection of data; allows transfer of data to and from other applications software that use RMS sequential files — COBOL, BASIC-PLUS-2, and DATATRIEVE; allows transfer of data to and from list processing format files used in word processing software; and performs simple arithmetic calculations.

Refer to SPD #14.27.01 when requesting further information on this product from your local DIGITAL sales office.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Consult your local DIGITAL sales office
(see Introduction).

THE BRIDGE™

Operating System: RSX

Keywords: • Data conversion • Microprocessor development
• Programming tools • Simulation

THE BRIDGE, developed by Virtual Microsystems Inc., provides emulation of a standard CP/M® environment. THE BRIDGE, a task running under the host VAX/VMS and RSX operating systems, appears to the user to build a virtual microcomputer. That virtual microcomputer may then be used to run standard CP/M software or to provide a CP/M software development environment. THE BRIDGE is a true simulator and includes a license for the CP/M Version 2.2 operating system.

Files used with THE BRIDGE are stored on hard disk in CP/M format. To take advantage of the larger disk environment, these virtual floppies may range in size from one-quarter megabyte to four megabytes.

Utilities are provided with THE BRIDGE to:

- Transfer data from 8" standard CP/M diskettes (3740 IBM single density with CP/M directory structure) to virtual floppies and from virtual floppies to diskette
- Convert CP/M format files to and from Files-11 format

THE BRIDGE emulates the operation of the Intel 8080 executing CP/M and therefore cannot be expected to run as quickly as the actual microprocessor. Depending on system configuration and loading, the VAX/VMS version will execute an instruction some 7 to 10 times more slowly than a dedicated microprocessor, with apparent speed to the user resembling 1,200 baud communication. The RSX-11M and RSX-11M-PLUS implementation will execute an instruction some 10 to 15 times more slowly, with speed resembling 800 baud communication.

THE BRIDGE supports the full 8080 instruction set and all CP/M calls except IN, OUT, LIST STATUS, PUNCH, and READER. Most CP/M application software may be run on THE BRIDGE, with the exception of software designed to run only on specific machines, such as cursor control keys. CP/M communications software requiring specific port assignments or graphics requiring memory mapped video hardware cannot be used with THE BRIDGE.

DIGITAL distributes this software product under license from Virtual Microsystems Inc., 2150 Shattuck Ave., Suite 720, Berkeley, CA 44704.

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Refer to SPD #A0.48.00 when requesting further information on this product from your local DIGITAL sales office.

THE BRIDGE™ is a trademark of Virtual Microsystems, Inc. CP/M® is a registered trademark of Digital Research, Inc.

A version of this product is available for the VAX computer.

Price: \$2,500 – \$3,500

Contact: Consult your local DIGITAL sales office
(see Introduction).

IBM XT Upgrade Kit for the p-System™ Operating System

Operating System: p-System

Keywords: • Device drivers/handlers

The IBM XT Upgrade Kit allows you to access IBM PC XT fixed disk and other non-IBM standard peripheral devices using the p-System.

Price: \$20

Contact: Paula Johnson
(619) 451-1230
SOFTECH MICROSYSTEMS, INC.
16885 W. Bernardo Drive
San Diego, CA 92127

LOAD PDT

Operating System: RT-11

Keywords: • Assemblers • Communications • File transfer

The PDT11/110s is a memory-only computer. Bootstrap ROMS in the PDT allow a user to down-line load from a host. Two bootstraps are available in the PDT11/110. This program is the host loader protocol to down-line load the PDT, using what is known as the "TERMINAL BOOT." Satellite images can be assembled and linked on an RT-11 host and then loaded to the PDT by running this program, with the PDT acting as console. DECUS number 11-390.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

poly-XFR™ CP/M® Communications

Operating System: RSTS, RSX, RT-11

Keywords: • Data conversion • Diagnostics
• File management • File transfer

The package, developed by Polygon Associates, Inc., features binary/ASCII file transfers between DIGITAL's VT180 CP/M local system or a PC100 (Rainbow) CP/M-86/80 local system and a host system. Host systems include PC100 (Rainbow) CP/M-86/80, VT180 CP/M, RT-11, RSTS/E, RSX-11M, RSX-11M-PLUS, and VAX/VMS systems.

The package has time-out and error-detection features that ensure the integrity of the transferred data. The software runs up to 9,600 bps in a local environment and uses full-duplex modems for remote data transfer.

The poly-XFR CP/M Communications package enables the user to transfer, store, and retrieve files, use host peripherals, and act as terminal to the host. With either system, the user can do program development, transfer data between systems, or toggle the local printer on or off.

The CP/M Communications package has two main components — software that runs on the host and software that runs on the local system. The local software is composed of a file transfer program and a terminal emulator. The transfer program sends and receives files from the host. The terminal emulator converts the local PC100 or VT180 to a terminal so the user can have access to all the resources of the host computer. The host software interprets and executes the local programs file transfer requests. The poly-XFR CP/M Communications command language is executed at the personal computer.

The package is ideal for environments that employ distributed development and/or personal computing systems and that need to share data, programs, or peripherals among those systems.

DIGITAL distributes this software under license from Polygon Associates, Inc., St. Louis, MO.

Refer to SPD #A0.50.02 when requesting further information on this product from your local DIGITAL sales office.

poly-XFR™ is a trademark of Polygon Associates, Inc. CP/M® is a registered trademark of Digital Research, Inc.

A version of this product is available for the VAX computer.

Price: \$600 – \$850

Contact: Consult your local DIGITAL sales office
(see Introduction).

Professional Tool Kit BASIC-PLUS-2, Version 2.0

Operating System: RSX

Keywords: • Debugging • Development tools
• Forms management • Programming tools

The Professional Tool Kit BASIC-PLUS-2 is a significantly extended BASIC compiler that takes full advantage of the floating-point and integer instructions, as well as capabilities of the Professional operating system.

Generating threaded code instructions, BASIC-PLUS-2 provides a high-performance program execution environment for applications development. This product combines interactive program debugging with the power of a structured programming language.

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An application is compiled on systems running RSX-11M, RSX-11M-PLUS, or VAX/VMS as part of the Professional Tool Kit and subsequently linked and moved to the Professional 300 for debugging and execution.

Refer to SPD #30.27.0 when requesting further information on this product from your local DIGITAL sales office.

A version of this product is available for the VAX computer.

Price: \$140 – \$1,755

Contact: Consult your local DIGITAL sales office
(see Introduction).

Supercomp-Twenty

Operating System: UNIX

Keywords: • Calculation aids • Decision support
• Financial planning • Spreadsheets

Supercomp-Twenty is the electronic spreadsheet that incorporates the capabilities of most packages available today with a number of new, highly sophisticated features, including goal seeking, print wrapping, formatting, and a sort command that permits alpha or numeric sorting. Other features include cell naming, a 1,000 × 1,000 matrix, iterative calculation option, and a wide range of global and local formats.

Expanded file handling capabilities permit model-to-model cut and paste activity, as well as the ability to combine models or sections of models with mathematical and logical operators.

The command file facility automates any routine procedures, such as consolidations and data transfers between models; the branching capability allows one command file to invoke another, based on worksheet calculations. Menus can be established from within the program, giving relatively inexperienced users the full power of the program.

Supercomp-Twenty reads and writes ASCII files, allowing the program to easily interface with most data base and word processing packages.

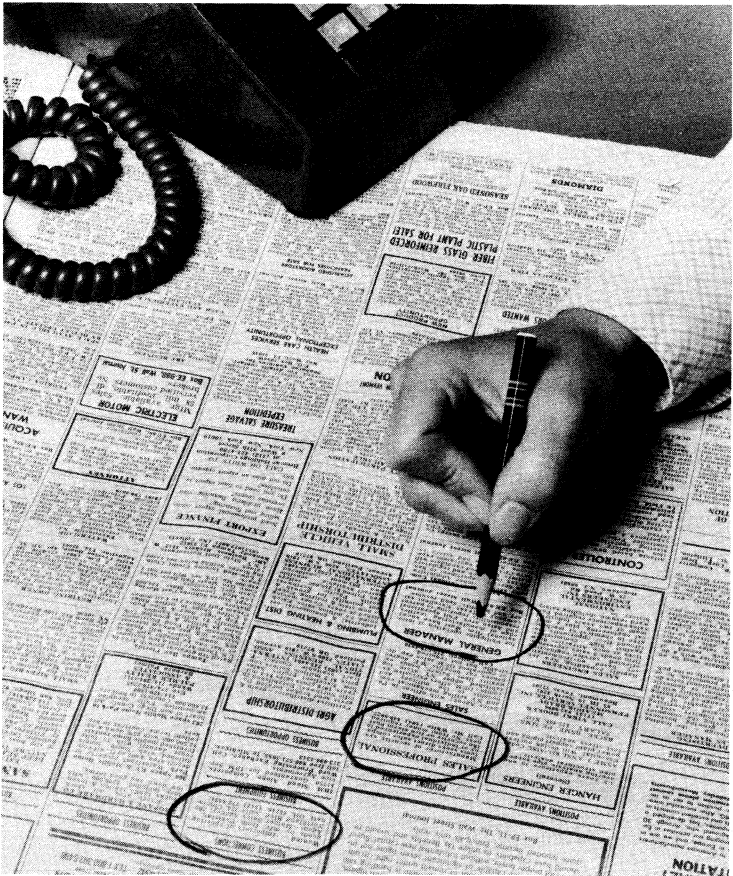
A version of this product is available for the VAX computer.

Price: \$3,800 – \$4,800

Contact: Janice M. Barry
(617) 655-9191

ACCESS TECHNOLOGY, INC.
6 Pleasant Street
So. Natick, MA 01760

Personnel



APS (Applicant Placement System)

Operating System: CTS-300, RSTS, RT-11, TSX-PLUS

Keywords: • Data base management • Employment
• Query facilities • Recruiting

APS is a time-sharing system that helps employment agencies match applicants with jobs. APS interfaces with word processing systems for the preparation of resumes and mailing lists. APS maintains a data base of applicants, jobs, and clients and handles mass mailing for general-interest categories. The system provides free-form keyword searches, special handling for location preference, and multiple agencies with special programs to aid in transfer of data from one system to another.

A version of this product is available for the VAX computer.

Price: \$500 – \$5,000

Contact: Ed Kelleher, President
(803) 796-8858

MACRO, INC.
121 Professional Avenue
West Columbia, SC 29169

ARCHON: PAY

Operating System: RSTS

Keywords: • Education • Payroll • Taxes

The ARCHON: PAY (payroll) and personnel system is a set of program modules, integrated with a data management system, that automates many phases of a payroll operation for educational institutions and other nonprofit organizations. The system supports on-line payroll entry and retrieval, employee payroll data records organized by department or location, and generation of special reports. Variable pay periods and assorted user-defined deductions are built-in features. An interface exists to the ARCHON: FRS Financial Reporting System. The system produces, in addition to control reports, the checks and registers necessary for payroll records, plus prelists (transmittal sheets) for timecard and salary, and exception control. Other features are the management and personnel reporting facilities of the system.

A version of this product is available for the VAX computer.

Price: \$7,650

Contact: NancyLou Rapp
(203) 728-6777

QUODATA CORP.
266 Pearl Street
Hartford, CT 06103

Employment Agency

Operating System: RSTS

Keywords: • Accounting • Employment • Project management
• Word processing

The Employment Agency package generates payroll and invoice and handles employee scheduling, accounts receivable, accounts payable, general ledger, checks and balances, client account activity, resume searching, project tracking, complete file maintenance, and word and list processing. The package can be departmentalized and provides management summary reports and labor distribution analysis.

A version of this product is available for the VAX computer.

Price: \$2,000 – \$20,000

Contact: Andrew Yasenchak
(201) 231-9400
UNITRONIX CORP.
197 Meister Avenue
Somerville, NJ 08876

Fedder Payroll Checkwriting and Personnel Information System

Operating System: ULTRIX, UNIX

Keywords: • Financial planning • General ledger • Payroll
• Taxes

This system features tracking of sick and vacation pay and entitlement, integration with Fedder General Ledger/Financial Reporting and Job/Product Costing — Manufacturing Management, Property Management, and other systems. The system handles multiple states/provinces, multiple pay rates, union reports, certified P/R for contractors — meals and tips, quarterly reports and annual W-2s, garnishments, advances, and multiple standard deductions. As in all Fedder software, the Fedder P/R System is multicompany, password-protected, and menu driven.

The system is suitable for branch offices/divisions of Fortune 1000 companies; small retail, wholesale, service, and manufacturing companies; and also for contractors who require certified P/R reports and job cost systems.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: David E. Fedder
(301) 539-2121
FEDDER SOFTWARE, INC.
P.O. Box 27149
Baltimore, MD 212300149

MATCHUP

Operating System: RSTS, RSX, RT-11

Keywords: • Employment • Operations • Simulation
• Statistics

MATCHUP matches or assigns prospective job applicants (skills, years of experience, education, and so on) to available jobs in a company (preferably a larger one). The company does so by considering the prospective employee's reliability and cost to the company, based on its investment of salary in and any necessary training of the prospect. That is accomplished by using numerical ratings in the matchup or assignment process. The output is a message of excellent, good, possible, or no match at all, accompanied by a numerical score corresponding to the total matches between all attributes of an employee's personnel profile and the requirements of the available position. Again, numerical weights can be attached to any characteristics of the applicant — for example, highest degree obtained, number of years of experience in commercial data processing or defense, minority group member, war veteran, number of years of real-time software development, or speaks French or German.

A version of this product is available for the VAX computer.

Price: \$5,000

Contact: Jon Prescott
(707) 446-8139
J & S ASSOCIATES
130 Palisades Court
Vacaville, CA 95688

NMI Personnel Searcher

Operating System: UNIX

Keywords: • Data entry • Office systems • Word processing

The NMI Personnel Searcher maintains large files of information about current job applicants and job orders. Those files are easily entered, updated, or deleted. The extremely flexible "Search" function allows the user to define parameters to use in comparing one set of files with another in order to match the perfect applicant to the perfect job. A complete mailing list module is included in the package.

The NMI Complete Accounting Package contains a Temporary Payroll/Integrated Billing interface for use with this package. The package is also compatible with most UNIX*-based word processors and all Version 7 utilities.

*UNIX is a trademark of AT&T Bell Laboratories.

Price: \$1,495

Contact: Mac McLaughlin, Inside Sales
(201) 953-9223

NORTON-MURPHY INTERNATIONAL, INC.
123 Claremont
Bernardsville, NJ 07924

PAYROL-IMPRS Payroll P/R System

Operating System: RSTS, RSX, RT-11

Keywords: • Payroll • Security • Taxes

PAYROL-IMPRS is a total payroll system that:

- Records pay period hours, pay, and taxes
- Allows for weekly, biweekly, semimonthly, and monthly pay frequencies and for hourly, salary, and salary with overtime pay types
- Provides for calculation of taxes — federal, state, and local — tax exceptions, and up to 18 authorized deductions
- Provides for overrides at entry time of rate, salary, and department
- Has menu-driven entry and maintenance systems
- Provides for security passwords to control access, complete reporting and audit trail, and automatic master file backups
- Performs extensive on-line editing and easy interactive reporting of all files

A version of this product is available for the VAX computer.

Price: \$3,000

Contact: Elvin E. Smith or Forrest E. Weddle
(913) 782-8544

RUF CORP.
1533 E. Spruce
Olathe, KS 66061

Payroll

Operating System: RSTS

Keywords: • General ledger • Payroll • Taxes

Deductions, attachments, and vacation pay are simple matters on this system. Allowance is made for 5 different taxes and 11 different deductions (fixed and/or miscellaneous). Totals are carried on both a fiscal year-to-date and calendar year-to-date basis. Paychecks may be produced weekly, monthly, semimonthly, every two weeks, or any number of days. Complete payroll reporting includes W-2 and 941 forms, as well as a detailed user-defined analysis of payroll distributions by department and type of work. Payroll automatically produces payroll checks and a check register. The distribution of earnings automatically interfaces with ADD's General Ledger system.

A version of this product is available for the VAX computer.

708 Personnel

Price: \$2,000 – \$4,000

Contact: Bruce A. Bott, President
(201) 584-4026

ADVANCED DIGITAL DATA, INC.
354 Route 206
Flanders, NJ 07836

Payroll

Operating System: RSTS

Keywords: • Banking • Employment • Payroll • Taxes

The multiple-user Payroll System provides:

- Handling of daily, weekly, biweekly, semimonthly, and monthly pay frequencies and exempt or nonexempt employees
- Allowance for nine kinds of pay
- Any combination of tax withholding profiles
- Fourteen user-defined deduction codes
- Four types of accruals, as well as federal types of accruals
- Employee earnings records
- Complete month-to-date, quarter-to-date, and year-to-date history for each employee
- Allowance for multiple banks
- Manually written or precalculated checks for a single employee

The reporting features are report writer facility, time sheet, payroll register, earnings report, tax summaries, W-2s, 941s, checks, and a deduction report.

A version of this product is available for the VAX computer.

Price: \$2,500 – \$3,000

Contact: Linda Wingfield, Software Support Manager
(919) 766-0571

RESOURCE SYSTEMS CORP.
P.O. Box 1546
Clemmons, NC 27012

Payroll

Operating System: MS/DOS, PICK, UNIX, XENIX

Keywords: • Employment • Payroll • Report writer • Taxes

The Payroll program provides the following:

- Complete payroll time entry, editing, and updating capability for salaried, hourly, and contract personnel.
- Calculation and printing of payroll checks.
- Allowance of virtually unlimited deduction/earning codes, including advance earned income credit, as well as temporary ad hoc deductions and earnings.

- No restrictions on number of deductions per employee. Deductions may be computed by percent or fixed-dollar amounts, with not-to-exceed limits, for any pay period frequency.
- Summarized data for government reporting (local, state, and federal), including quarterly report and W-2s.
- Flexible table-driven tax calculations handle virtually any tax computation/deduction method.
- Pay period frequencies daily through yearly.
- Allowance of different pay periods for salaried and hourly employees.
- Accommodation of manually written checks.
- Multiple G/L distributions (no limit) per employee.
- Payroll distribution, payroll history, employee history and review, and overtime and sick-pay reports.
- Job cost distributions.
- Data-input accuracy — transaction entries may be edited and corrected prior to posting.
- Transaction entry screens match the format of original documents.
- Audit trails — posting programs automatically produce journals.

A version of this product is available for the VAX computer.

Price: \$600

Contact: Steve Thomas
(713) 270-5218 or (800) 231-0062
THE SOFTWARE EXPRESS, INC.
10103 Fondren, Suite 220
Houston, TX 77096

Payroll

Operating System: RSTS

Keywords: • Payroll

This is a complete payroll package.

A version of this product is available for the VAX computer.

Price: \$3,500

Contact: Andrew Yasenchak
(201) 231-9400
UNITRONIX CORP.
197 Meister Avenue
Somerville, NJ 08876

Payroll (Canadian)

Operating System: RSTS, RSX

Keywords: • Accounting • Construction • Government
• Payroll

710 Personnel

This system, designed to work in conjunction with the Computer Management System, is table driven, with all files processed by data dictionaries. The system can be adapted to cover a wide range of requirements and provides a base of programs and file designs that can be used to meet the needs of any Canadian organization.

The Payroll and Personnel Master files are maintained in both numeric and alphabetic sequence for easy access and inquiry. The system is self-verifying, with audit trails of all processing, and may be used as is. However, it is assumed that the input and/or the output reports will be modified to meet the exact needs or the standards of the user.

A base of more than 100 programs is included to draw from in building a customized set of payroll programs.

The Payroll system is used in construction, entertainment, government, manufacturing, processing, and sales.

A version of this product is available for the VAX computer.

Price: \$8,000

Contact: Bill Hay

(204) 888-5253 or 832-3680

BILL HAY & CO.

1164 Crestview Park Drive

Winnipeg, Manitoba R2Y 0W6

Canada

Payroll System

Operating System: CTS-300, RSX, RT-11

Keywords: • Payroll • Report writer • Taxes

The Payroll System provides operational efficiency and reliability with maximum system flexibility and responsiveness. The system requires minimum maintenance and program intervention but still provides a package for a wide range of application situations. From check writing to form printing to report generating, DSF's Payroll System simplifies the total payroll function.

The system provides:

- Employee master file
- Restaurant payroll for proper handling of tips and meals
- Hourly and salary payrolls, which can be run separately
- Weekly, biweekly, semimonthly, and monthly payrolls
- Automatic calculation of gross pay, withholding, and deductions
- Entry of payroll attendance transactions
- Payroll attendance list printing
- Payroll and payroll check registers
- Computer-printed checks
- Attendance distribution report
- Computer-printed 941-A and W-2 forms
- Departmental breakdown for labor analysis

- Multistate capability
- Payroll tax deposit

A version of this product is available for the VAX computer.

Price: \$2,750

Contact: Bob Sprowls
(904) 434-2685

DIGITAL SYSTEMS OF FLORIDA, INC.
114 E. Gregory Street
Pensacola, FL 32501

Permanent Placement Personnel System

Operating System: RSTS

Keywords: • Employment • Information management
• Recruiting

This complete information management system for placement, search, and recruiting firms is designed for on-line single- or multiterminal interactive use with PDP-11s and can handle from 1 to 60 terminals. Originally developed in house for a professional employment firm, the software package has since been modified to satisfy office support (clerical) placement firms, search firms, and now corporate personnel departments.

The software features maintenance and retrieval of candidates, companies, and job openings. One can record and update interview activity in all three files. Some of the other features include variable information on candidates and companies, unlimited record sizes, management reporting, and phonetic search capabilities. Electronic mail, referral activity, and interface to word processing are optional modules.

The software incorporates the standard operational aspects and terminology of a placement agency or search firm. Current users include both single-office and multilocation agencies. The system operates in a RSTS/E environment and is ideally suited for multiple terminals and remote location tie-ins. The system was written around a data base management system and uses many features of a VT100-series terminal, including split screens, reverse video, and alternate wide or narrow screens.

Price: \$13,000 – \$20,000

Contact: Murray Stinson or Erna Arnesen
(713) 496-0771

SPARTIN SYSTEMS
14925-A Memorial Drive
Houston, TX 77079

PHENIX Payroll

Operating System: CTS-300, RSTS, RT-11, UNIX

Keywords: • Financial analysis • Information management
• Payroll

This system provides for the total payroll function. Facilities include:

- Company parameter file — pensions, allowances, rates
- Employee file maintenance, including log of all changes
- Payment basis, ranging from hourly to quarterly
- Payslips, checks, credit transfers, and coinage analysis
- Payroll summary at departmental, paypoint, and company level
- Exception report, attendance register
- Analyses by deduction, holiday pay, sick pay, and so on
- SSP scheme is catered for

Price: Available upon request

Contact: L. McCloskey

(44) 232-247433

SOFTWARE IRELAND LTD.

26 Linenhall Street

Belfast BT2 8PJ

Ireland

Placement Agency (Applicant Retrieval and Order/ Billing System)

Operating System: CTS-300, RT-11

Keywords: • Billing • Employment • Payroll

This system records data on each applicant who has been interviewed. With this data base in place, the retrieval system will select a range of applicants based on specific selection criteria — for example, permanent or temporary, job category, skill code, and industry background. The system provides both a summary and a detail list of the applicants retrieved.

The Order/Billing system will allow for orders of permanent and temporary applicants. Permanent orders are billed as a flat fee or a percentage; temporary orders are billed on time spent on site. All temporary billings are automatically fed into the payroll system for weekly checks.

All billings interface automatically with the Accounts Receivable, Sales Analysis, and General Ledger systems.

A version of this product is available for the VAX computer.

Price: \$5,000

Contact: Nigel Harris
(613) 829-8888

HARRIS COMPUTER SYSTEMS
16 Credit Union Way
Nepean, Ontario K2H 8R6
Canada

PST (Payroll + State Tax)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Government • Payroll • Taxes

With Plus State Tax, the end user may have employees working in multiple states during the same pay period and still generate only one payroll check per employee, with correct deductions for each state withholding tax. This ability to handle single checks for multiple states also includes the printing of one federal W-2 totaling the employee's earnings from all states for the year for that employee and also printing the appropriate number of state W-2 forms showing that state's earnings.

Plus State Tax will simultaneously support all 50 states, although at present only 40 states have a withholding tax. This multistate support is interfaced with the DIBS-11 Payroll Package and is completely transparent to the user. A 2-character printed state code before the deducted amount will appear on each employee's payroll check, indicating which state's tax(es) was withheld. An Edit Report may be printed, showing the amount deducted from each employee, subtotaled by state.

A version of this product is available for the VAX computer.

Price: \$1,500 - \$2,000

Contact: Nick Culbreth
(404) 256-3067

AMERICAN DIGITAL PRODUCTS CORP.
5775-B Glenridge Drive N.E., Suite 320
Atlanta, GA 30328

RealWorld™ Payroll

Operating System: RSX, RT-11, ULTRIX, UNIX

Keywords: • Data entry • Information management • Payroll
• Taxes

This hourly and salary payroll system for small businesses provides payroll record maintenance and easy compliance with changing tax laws. The system sets systemwide parameters that determine and tailor the payroll to fit the business.

The program does the following:

- Maintains employee files and lists

714 Personnel

- Handles both hourly and salary employees on daily, weekly, biweekly, semimonthly, quarterly pay frequencies and a variety of deductions and earnings
- Prints the payroll worksheet to help gather payroll input data
- Allows interactive entry and editing of attendance input data, with edit list and register, and entry and maintenance of formulas and tables for federal, state, and local tax calculation
- Calculates the payroll
- Prints the payroll checks, the check register, and the payroll distributions to the General Ledger
- Allows entry, editing, and posting of manual payroll and adjustment transactions, with edit list and register
- Prints the quarterly, the nonemployee compensation, and the year-end W2 information reports, plus the history, the union deductions, and the hours reports
- May be interfaced to the RealWorld General Ledger or used stand-alone
- Includes password protection, extensive data file integrity check, and backup/restore facilities

A version of this product is available for the VAX computer.

Price: \$795

Contact: Larry Wilber
(603) 798-5700
REALWORLD INC.
Dover Road
Chichester, NH 03263

Temporary Services Personnel System

Operating System: RSTS

Keywords: • Accounting • Information management • Payroll
• Service industries

This complete information management system for temporary service firms is designed for on-line single- or multiterminal interactive use with PDP-11s and can handle from 1 to 60 terminals. Including payroll, billing, and accounts receivable, the package offers total employee management through the search, dispatching, and sales-reporting features. Reporting covers employee availability, work order status, sales history, aging balances, and special requests.

Searches can be done by skills, locations, availability, status, name (phonetic match), and other criteria. Optional modules include electronic mail and interface to word processing and accounting. Diverse jobs such as timesheet entry, payroll, and dispatching may be performed simultaneously, as the software operates in a RSTS/E time-sharing environment.

In summary, the package provides the temporary service firm with an information storage and retrieval system, an accounting and payroll system, a management information and control system, and an administrative system — all in one.

Clients range from single-terminal 1-office temporary services that are independents to national chains of temporary services.

Price: \$23,000 – \$28,000

Contact: Cindi Coates or Murray Stinson
(713) 496-0771

SPARTIN SYSTEMS
14925-A Memorial Drive
Houston, TX 77079

TEMPUS—11 Time and Attendance System

Operating System: RSX

Keywords: • Data collection • Forms management
• Project management • Shop floor control

TEMPUS—11 is a hardware and software system that assists in the management of human resources by continuously monitoring individual personnel schedules with recorded attendance. The system uses a time-clock terminal, TMP-21/TK, produced by ATS, to record arrival and departure of personnel at the workplace. Up to 99 work schedules can be defined to cover unique work schedules. Rotating shifts, flexi-time, part-time, or job-sharing time structures are all accommodated. The menu-driven displays guide personnel managers in use of the system. A real-time attendance status display is immediately available with a single keystroke. Individual attendance records are continuously updated. Management summaries by cost center or department are readily compiled. Overtime can be automatically approved within specified parameters or held for individual review. Error conditions are listed for resolution by the supervisor. Monthly reports reflecting man hours scheduled versus hours worked, sickness, absence, attendance by day, overtime, and master file changes are all available to provide personnel managers with information about the human resources, the most important asset in any organization. The system can interface to large mainframes to provide input to payroll and accounting systems or can generate floppy disks or magnetic tapes for information transfer. The time attendance terminal is equipped with CMOS memory and battery backup to ensure continuous performance and capture of data.

A version of this product is available for the VAX computer.

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Price: \$4,600 – \$19,450

Contact: Robert L. Hirtle
(904) 433-7578

ATS DATA PROCESSING, INC.
1101 North 9th Avenue
Pensacola, FL 32501

TIMANA-IMPRS Time-Analysis System

Operating System: RSTS, RSX, RT-11

Keywords: • Accounting • Billing • File management

TIMANA-IMPRS handles manpower reporting and invoicing, client analysis reports, and journals. The system provides a complete record of all employee hours, automatically calculates for chargeable hours, allows separate rates for each employee for different customers, has menu-driven file maintenance, performs extensive on-line editing, will not allow duplicates to be entered, allows instant access to employee records, allows separate rates for each employee for special jobs, provides automatic master file backups, allows for constant monthly charges to be established, prints client invoices and labels, handles manual invoices, has proof reporting available, and allows all master files to be interactively reported.

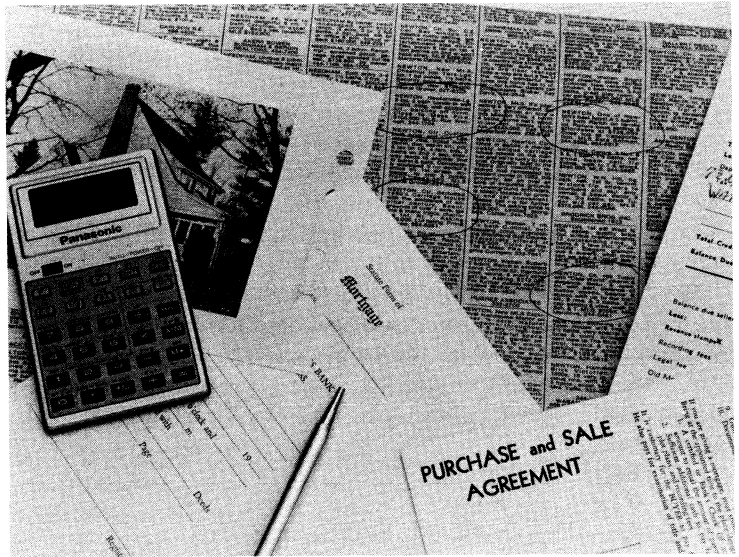
A version of this product is available for the VAX computer.

Price: \$3,000

Contact: Elvin E. Smith or Forrest E. Weddle
(913) 782-8544

RUF CORP.
1533 E. Spruce
Olathe, KS 66061

Real Estate



AESOP (Aggregate Exception System for Mortgage Portfolios)

Operating System: RSTS

Keywords: • Banking • Financial analysis
• Property management • Report writer

AESOP has been designed for the master servicer or trustee of a portfolio of single-family mortgages. The system aids reporting to the investor or the source of mortgage funds by reconciling the direct servicer's reports and remittances. The system is designed for both commercial application and public housing agencies.

On a monthly basis, the only input to the system consists of exceptions to the normal monthly payment, such as liquidations, curtailments, prepayments, delinquencies, or principal adjustments. If the mortgagor makes the normal scheduled payment, no input is required. User-friendly screens and prompts guide the user in operating the system.

All reconciling and balancing are done before individual mortgage records are posted. Therefore, discrepancies are resolved before files are updated.

The system produces monthly reconciliation reports and forecasts for the next month, based on the activities of the month just closed. A mortgage trial balance is generated, as is a forecast trial balance.

The user decides on the elements to be stored for each mortgage. An integral report writer enables the user to retrieve any stored data and to format ad hoc reports.

A version of this product is available for the VAX computer.

Price: \$35,000

Contact: Ralph S. Trigg, Jr.
(505) 842-1247

AUTOMATED OFFICE SYSTEMS, INC.
P.O. Box 100
Albuquerque, NM 87103

DPS/11 Analysis and Finance Programs

Operating System: RSTS, RT-11

Keywords: • Banking • Decision support • Financial analysis
• Property management

DPS/11 is a comprehensive menu-driven real estate applications library of investment analysis, tax analysis, and loan repayment and other related programs for the commercial/investment real estate broker, appraiser, accountant, attorney, developer, and investment analyst. This sophisticated array of software, based on NRE's industry-proven investment analysis programming skill, provides valuable aids to the broker and analyst dealing in commercial and investment real

estate. Those functions include a Constant P&I Payment Loan Schedule, Constant Principal Payment Loan Schedule, Graduated (by %) P&I Payment Loan Schedule, Graduated (by \$) P&I Payment Loan Schedule, Graduated (by %) Interest Rate Loan Schedule, Internal Rate of Return and Financial Management Rate of Return Computations, ACRS Cost Recovery Schedule, Sale Proceeds After Taxes, Individual Tax Analysis, Installment Sale Year Analysis, Carry-Back Installment Loan Analysis, Carry-Back Wraparound Loan Analysis, Funded Installment Loan Analysis, Funded Wraparound Loan Analysis, Investment Base and Acquisition Basis Computations, Comparative Tax Analysis, Federal Tax Schedules, Income Property Factors, Development Site Factors, Investment Value Computations, Own/Lease Analyst, Transaction Structuring, Transaction Basis Adjustment, Acquisition Analysis, Sale of Personal Residence, and Net Present Value Computations programs.

Documentation includes a complete step-by-step installation and instruction manual with detailed program descriptions, sample program runs, and sample printouts.

This product is supported nationally (U.S.A.). The license fee includes the first year of software maintenance, updates, enhancements, and support.

Running this product requires the DPS/99 Systems Interface software module (\$695 – \$995).

A version of this product is available for the VAX computer.

Price: \$1,895 – \$2,295

Contact: James L. Lawson, Senior Analyst
(305) 647-6739

NATIONAL REAL ESTATE EXCHANGE, INC.
NRE Systems Division, P.O. Box 475
Maitland, FL 32751

DPS/12 SUPRCSH Investment Cash Flow Analysis

Operating System: RSTS, RT-11

Keywords: • Decision support • Financial analysis
• Investments • Taxes

This sophisticated menu-driven, screen-documented investment cash flow analysis software package was designed and developed by commercial/investment real estate professionals. Based on projected pretax income, SUPRCSH computes an extensive analysis of after-tax cash flows and yields for holding periods up to 30 years, up to 20 loans, separately definable incomes and expenses, and up to 20 depreciation/cost recovery items. All tax computations are from current IRS tax rate schedules and are based on the investor's reporting method and otherwise taxable income.

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This product includes programs that allow graphing of any two (of more than 125) categories of analysis results against each other and displays the results in graph form on video screen and/or prints the results in graph form. What-if situations can be analyzed through a versatile editing feature that enables the user to change any input item (or items) and store input for later analysis. Results are displayed and printed out in one of three user-selected formats and may be printed out in either 80- or 132-column-wide reports.

Documentation includes a complete step-by-step installation and instruction manual with detailed program descriptions, sample program runs, and sample printouts.

This product is supported nationally (U.S.A.). The license fee includes the first year of software maintenance, updates, enhancements, and support.

Running this product requires the DPS/99 Systems Interface software module (\$695 – \$995).

A version of this product is available for the VAX computer.

Price: \$1,895 – \$2,295

Contact: James L. Lawson, Senior Analyst
(305) 647-6739

NATIONAL REAL ESTATE EXCHANGE, INC.
NRE Systems Division, P.O. Box 475
Maitland, FL 32751

DPS/21 Real Estate Property Management

Operating System: RT-11

Keywords: • Accounting • Decision support
• Property management

The DPS/21 module enables the real estate property management company to automate virtually all of its property management record-keeping and reporting needs. This complete, self-contained product can handle residential, office, and/or commercial rental units and the functions of accounts receivable, accounts payable, and general ledger. Data is maintained on the property, its ownership, and on each rental unit. Complete tracking of cash receipts and sales (rent, taxes, miscellaneous charges) is maintained on each unit. Statements can be generated on demand. Historical data is also maintained on each unit, and numerous statistical and historical reports are available on request.

Documentation includes a complete step-by-step installation and instruction manual with detailed program descriptions, sample program runs, and sample printouts.

This product is supported nationally (U.S.A.). The license fee includes the first year of software maintenance, updates, and support.

This product is available without the DPS/33 Accounts Payable Module but requires the use of the DPS/99 Systems Interface module (\$695).

Price: \$3,695 – \$4,995

Contact: James L. Lawson, Senior Analyst
(305) 647-6739

NATIONAL REAL ESTATE EXCHANGE, INC.
NRE Systems Division, P.O. Box 475
Maitland, FL 32751

ECO Freedom System

Operating System: Business Forth

Keywords: • Data base management • Data entry
• Documentation • Forms management

The ECO Freedom System is an automated loan processing system that can be used on microcomputers and mainframes. We have single-station stand-alone systems for small mortgage bankers and multistation mainframe systems for large clients. The system allows for local and remote interrogation and operation. Program changes and enhancements may be made either locally or remotely.

The program language is Freedom, which is our version of Business Forth. The language is easy to use and to understand, since it uses English words, and it interfaces easily with other languages.

This system is a complete operating system designed exclusively for the lending industry. The system is not specifically tied to hardware; thus, your choice of hardware is not restricted by the software package.

The ECO Freedom System provides loan processing, shipping, tracking, and extensive management reporting, in addition to document preparation for single-family home loans, second trust deed loans, and construction loans.

Price: \$10,000

Contact: Jeff Strickland
(619) 741-5626

THE ECO COMPANIES
P.O. Box 217
San Marcos, CA 92069

Fedder Rental Property Management System

Operating System: ULTRIX, UNIX

Keywords: • Billing • Financial analysis • General ledger
• Property management

The Fedder Rental Property Management System, an interactive real-time system, puts facts at the user's fingertips. The system handles tenant billing, security deposits and interest calculations, late fees, unit maintenance history, and reports that include journals, rent roll, delinquency lists, projected availabilities, and tenant ledgers.

The residential version includes HUD-required demographic data and reports. The commercial version contains store sales history, billing for special charges, pass-through of increased property taxes, and rent-increase computations on increases in the CPI and/or operating costs. Future rent potential and 5-year projected space availabilities are also provided.

Companion Fedder software is available for Accounts Payable and Cash Disbursements, General Ledger/Investor Reports, Payroll, Loan Amortization Schedules, Fixed Asset Depreciation Accounting, Construction Estimating, and Job Costing.

The system is suitable for companies engaged in managing income properties for themselves or for outside investors.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: David E. Fedder
(301) 539-2121
FEDDER SOFTWARE, INC.
P.O. Box 27149
Baltimore, MD 212300149

IPAS/100 Land Management System

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounting • Petroleum • Query facilities
• Report writer

This system provides land managers with the tools to keep track of prospects, leases, tracts, delay rental payments, contracts, producing units, and divisions of interest. All the information is entered into the system and can be easily cross-referenced by individual entity or location information. The system includes an on-line inquiry facility and an easy-to-use report-writing utility. Training and a set of standard reports come with the package.

The system interfaces with IPAS/100 General Ledger as well as with many other packages.

Price: \$38,000

Contact: Robert H. Black
(405) 636-1587
PETROLEUM SOFTWARE SYSTEMS, INC.
8265 S. Walker
Oklahoma City, OK 73139

Lease Management

Operating System: UNIX

Keywords: • Facilities management • Financial analysis
• Graphics • Property management

Lease Management, an alphanumeric and graphic software module, enables real estate management organizations, large corporations, and landlords to organize and to analyze lease data. The program tracks common lease information, such as rent, escalations, and so forth. Lease Management performs standard analyses, such as cost of ownership, ROI, and lease or buy strategies, allowing the user to “game” data for side-by-side comparison. The color graphics provide clear representations of lease alternatives and enable management to move rapidly from general to specific information about user-definable “clusters” of leases.

Price: \$5,000 – \$12,000

Contact: Ron Kramer
(617) 897-6350

RESOURCE DYNAMICS, INC.
118 Great Road
Stow, MA 01775

Mortgage

Operating System: UNIX

Keywords: • A/D, D/A • Financial management
• Property management

Mortgage calculates any item missing from this list of four: term, principle, payment, interest rate. The system then produces an amortization table showing the principle balance, principle payment, and interest payment for each month. Also, totals are shown for each full or partial year. The table can start at any month in the year.

A version of this product is available for the VAX computer.

Price: \$150

Contact: Michael L. Bussler
(412) 661-2100

ALGOR INTERACTIVE SYSTEMS, INC.
Essex House, Suite L1, Essex Square
Pittsburgh, PA 15206

PMS (Property Management System)

Operating System: BOS

Keywords: • Accounts receivable • Financial analysis
• General ledger • Property management

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PMS handles all matters concerning the record keeping and control of properties — whether apartments, condos, office premises, or single-family units — and their tenants. A complete accounting system keeps detailed records of payments, receipts, and amounts due and also generates comprehensive financial information, including budgeting and forecasting data, for owners and investors.

Price: \$1,900 – \$3,500

Contact: Joanne S. Jensen
(415) 367-6264

PORTABLE SOFTWARE INC.
650 Bair Island Road, Suite 204
Redwood City, CA 94063

PMS (Property Management System)

Operating System: RSTS

Keywords: • Financial analysis • Information management
• Property management • Spreadsheets

PMS is a comprehensive, easy-to-operate, automated management tool for large or small property managers. PMS is flexible so that it can be modified to meet your special needs. The program will:

- Update and retrieve property lease information by complex, building, and unit
- Track rent receipts and delinquent rent payments
- Maintain tenant information files with deposit amounts, lease terms, and demographic data
- Prepare lease status reports indicating leased versus vacant properties and date of vacancies
- Provide expiration reports showing dates of expiring leases and lease amounts
- Prepare estimated lease revenue reports by complex, building, and unit
- Interact with the word processing system for correspondence with tenants and reporting to investors
- Interact with the spreadsheet system for financial planning purposes

A version of this product is available for the VAX computer.

Price: \$1,500 – \$20,000

Contact: William R. Paschal, Jr.
(405) 843-7323

DATATEK CORP.
818 N.W. 63rd
Oklahoma City, OK 73116

Project Inventory Control for Time-Shared Resorts

Operating System: RSTS, TSX-PLUS

Keywords: • Accounting • Inventory • Property management
• Sales analysis

This unique program for the time-share developer allows easy entry of all the details of a sales transaction. The program performs calculations and updates all the files associated with a sale. The required entries are automatically made to a field-proven, powerful accounting system. A series of unique time-share-related reports is immediately available, reflecting all the changes from a pending sale right through to the "front-desk" reports.

Input the details of a sales transaction, and the following information becomes available: reports of pending unclosed sales and unsold inventory (with prices); a cash forecast from pending sales, sorted by closing dates; a history of cash versus financed transactions; discounts given as a percent of list prices; sales reports showing discounts, generation, salesperson, marketing costs, owner name, and other details; monthly and year-to-date sales totals showing unit, intervals, and owner; total sales by marketing sources; inventory availability automatically checked; and automatic updating of accounting files (G/L, accounts receivable entries such as sales, discounts, commissions, dues, and notes receivable).

Complete owners files are created. Use them with word processing for automatic billings, mailings, and so forth. Remote terminals can be used at sales sites to update information to your computer daily. The program also provides security levels, dramatically reduces bookkeeping preparation normally required, and provides up-to-the-minute detail reports for increased control. The program is designed to interface with the MCBA accounting packages.

A version of this product is available for the VAX computer.

Price: \$6,500 – \$9,000

Contact: Tim Stephenson, Vice President, Marketing
(303) 232-9417

RESORT COMPUTER CORP.

2801 Youngfield Street, Suite 301
Golden, CO 80401

Property Management

Operating System: CTS-300, RSTS, RT-11

Keywords: • Accounts receivable • General ledger
• Property management

This program provides for both commercial and residential requirements. Tenant billing and accounts receivable age analysis are produced. Property and tenant master files are maintained to control lease expirations, scheduled rent increases, insurance expiration, etc. The system interfaces with Franklen's CPA-11, General Ledger/Financial Reporting System, to produce user-definable financial statements and consolidations.

A version of this product is available for the VAX computer.

Price: \$1,500 – \$2,500

Contact: Frank J. O'Kane, President
(213) 441-3123

FRANKLEN COMPUTER SYSTEMS, INC.
715 Fremont Avenue
South Pasadena, CA 91030

Property Management (Rental)

Operating System: CTS-300, RT-11

Keywords: • Accounting • Financial analysis
• Property management • Scheduling

The Property Management system gives the property manager a complete set of functions to control and report on the financial aspect of the buildings managed. A full record is kept of all units within buildings within projects, and financial statements can be generated for individual buildings or projects, as well as for the consolidated operation. New buildings can easily be added into the system as the need arises.

The system handles the automatic chargeup of monthly charges, which can include rent, condominium fees, parking, and miscellaneous charges (cable, and so on) for all occupied units. The system keeps track of lease-renewal dates for the generation of renewal letters and will automatically apply percentage increases as permitted by law for lease renewal. Various types of delinquency letters are generated, based on severity of delinquency. Vacancy lists can be printed on request, and unit expiry lists can be printed for any specified date.

Full tenant information and history are maintained for all active tenants; up to three previous tenants and one future tenant can be associated with any unit. That permits collection of debts from previous tenants to be handled easily.

The integrated accounts payable system allows cash disbursements to be distributed appropriately to one or more of the buildings or projects as determined by the property manager. An automatic check-generation facility is also available.

A full set of financial statements is provided, including Detailed and Summary Trial Balances, Income Statement, and Balance Sheet.

A version of this product is available for the VAX computer.

Price: \$5,000

Contact: Nigel Harris
(613) 829-8888

HARRIS COMPUTER SYSTEMS
16 Credit Union Way
Nepean, Ontario K2H 8R6
Canada

RESPAC (Real Estate Sales Data Retrieval Package)

Operating System: RSTS

Keywords: • Data base management • Menu handlers
• Property management • Query facilities

The RESPAC data base management system, used for local areas or for statewide coverage, provides menu-driven on-line inquiry of real estate sales transactions. RESPAC includes up to eight systems for residential and commercial sales retrieval needed by realtors and appraisers.

Price: \$5,000 – \$50,000

Contact: R. Howard Sears
(405) 843-6626

MARKET DATA RESEARCH, INC.
5500 N. Western Avenue, Suite 115
Oklahoma City, OK 73118

SURVEY (Data Reduction and Plotting for Surveyor's Field Data)

Operating System: RSTS

Keywords: • Civil engineering • Data entry • Graphics
• Mapping

This BASIC-PLUS program is used for reducing land survey field data to cartesian coordinates, including elevations. Data entry is very flexible, with user-friendly prompting. Location of a point may be by any valid combination of two measured distances or angles from one or two previously located points. Angles (in degrees or degrees-minutes-seconds) are measured from a compass direction or from the direction of any line segment. Rotations and corrections due to closure errors may be made automatically. Storage of coordinate values is maintained in a disk data file for easy updating.

Output includes distances, headings, elevation angles and distances, included angles, enclosed area, and a plot with numbered points. Plotting is done with a Printronix P-300 printer/plotter. Modifications for special purposes and for other printer/plotters are available at extra cost. Documented source code is provided so that the user may make modifications as well. While contracted product support is not available, the author will provide consultation about problems as time permits. The author has advanced degrees and 20 years of experience in physics and computer science. The program was developed in consultation with a licensed surveyor.

Prerequisites include the RSTS/E operating system, BASIC-PLUS with double-precision and trigonometric functions, 31K user memory, and a Printronix P-300 printer or equivalent. A floating-point processor is desirable for better response time.

Price: \$500 – \$1,000

Contact: John Burton, Director, Computer Center
(615) 475-9061

CARSON-NEWMAN COLLEGE
P.O. Box 1917
Jefferson City, TN 37760

Timeshare Contract Management System

Operating System: RSTS

Keywords: • Accounts receivable • Recreation
• Sales and marketing

This system is designed to manage deposits, contracts, commissions, and sales performance information for companies that sell vacation time sharing. The system's major functions include deposit accounting, sales contract processing, commission accounting, and cancellation processing. Deposit functions allow the entry of one or more deposits per client prior to entry of the contract. Sales contract entry provides for automatic retrieval of deposit information from the deposit file or direct entry of deposits received. All contract data is verified at contract entry time against attribute files, financing algorithms, and policy information. The system differentiates between broker and company sales. Input of tax information, deductions from sales, and bonus weeks are provided, with appropriate accounting accommodated. All financing information, including processing fees, is verified, with erroneous contracts rejected. Salesperson and broker commissions are computed (up to six per contract) and posted to the salesperson/broker file. A general ledger interface file is produced as a part of the update, with provisions for interfacing deposit accounts, sales accounts, accounts receivable, current and deferred commission, tax and deduction amounts, and forfeiture income by sales office. Contract cancellation provides for inputting refund information with computation of forfeiture income, adjustment to commissions earned, and appropriate general ledger entries.

Supporting files include salesperson/broker, type of sale, and office G/L account file. The date-driven system provides contract file listings, sales analysis by salesperson/broker, type of sale, and sales by sales office for any period of time. Commission records are maintained by salesperson, with 1099s provided at year end. Deposit accounting provides aged reports of deposits on file by client by any date periods.

The system is designed to interface with the Compu-Share general ledger system and uses the CSI screen-handling functions.

Price: \$4,000

Contact: William L. Dempsey
(702) 384-7641

SIMCO

801 S. Rancho Drive, Suite E-2
Las Vegas, NV 89106

UDS — PMAS (Property Management Accounting System)

Operating System: RT-11

Keywords: • Accounting • General ledger
• Property management • Word processing

This complete system for multioffice companies provides monthly P&L for each office, and consolidated accounting with prior year and budget comparisons; accounts receivable; accounts payable with vendor 1099; payroll; construction investment; and schedules for fixed assets, notes payable, notes receivable, and other schedules as needed by the customer.

Property management features include the handling of commercial and residential properties; a tenant profile showing lease management information for commercial tenants; automatic accrual of rent and late charges; an operations statement showing detail of activity on each property; owners' year-to-date report, P&L with budget comparison, cash flow, and occupancy report for each property; and delinquency, lease expiration, and security deposit reports for each tenant. The computer prints checks to property owners, vendors, and mortgage companies. Form 1099s for owners and vendors are provided.

The UDS Property Management System may be integrated with the UDS systems for real estate and insurance accounting. All UDS systems are delivered with word processing capability.

Price: \$7,000 – \$12,000

Contact: William P. Irwin, Jr., Director of Marketing
(404) 724-7761 or 1-800-241-2404

UNITED DATA SYSTEMS

501 Greene Street, Suite 220
Augusta, GA 30901

UDS — REAS (Real Estate Accounting System)

Operating System: RT-11

Keywords: • Accounting • General ledger
• Property management • Word processing

This complete system for multioffice companies provides monthly P&L for each office, and consolidated, with prior year and budget comparison; accounts receivable, accounts payable with vendor 1099; payroll; construction investment; and schedules for fixed assets, notes payable, notes receivable, and other schedules as needed by the customer.

730 Real Estate

The real estate features include accounting for commissions payable and earnest money escrow; an inventory of listings — active, expired, and expiring next month; pending sales reports showing projected income for agent, office, and company; closed sales information retained to provide client followup, market trend analysis, and agent production analysis; reports for listings, pending sales, and closed sales that are available by sales office and the entire company and that show potential and earned commissions for agent, office, and company dollar; and ranking of agents by listings, sales, and commissions earned.

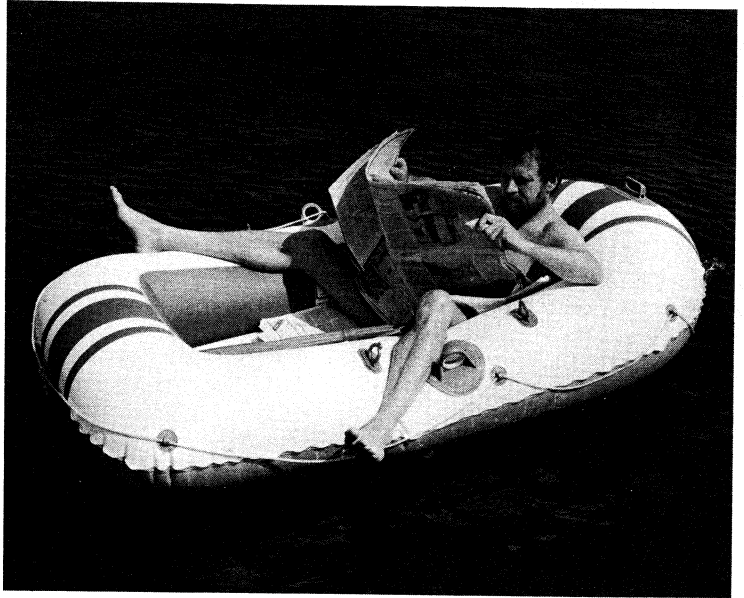
The UDS Real Estate Accounting System may be integrated with the UDS systems for Property Management and Insurance Accounting. All UDS systems are delivered with word processing capability.

Price: \$7,000 – \$12,000

Contact: William P. Irwin, Jr., Director of Marketing
(404) 724-7761 or 1-800-241-2404

UNITED DATA SYSTEMS
501 Greene Street, Suite 220
Augusta, GA 30901

Recreation



Antonio Mendoza/The Picture Cube

Country Club Golf Handicapping System

Operating System: RSTS

Keywords: • Data entry • Report writer • Statistics

The USGA-based Country Club Golf Handicapping System produces detailed reporting of handicaps by male and female categories, allows members to enter their own handicaps, and generates score cards.

Price: \$1,000 – \$2,000

Contact: Shelia A. McPartland, Customer Account Representative
(305) 652-1710

FLORIDA COMPUTER, INC.
99 NW 183rd Street, Suite 126
N. Miami, FL 33169

EQUISTROKE Golf Handicapping Software

Operating System: RSTS

Keywords: • Calculation aids • Data collection • Statistics

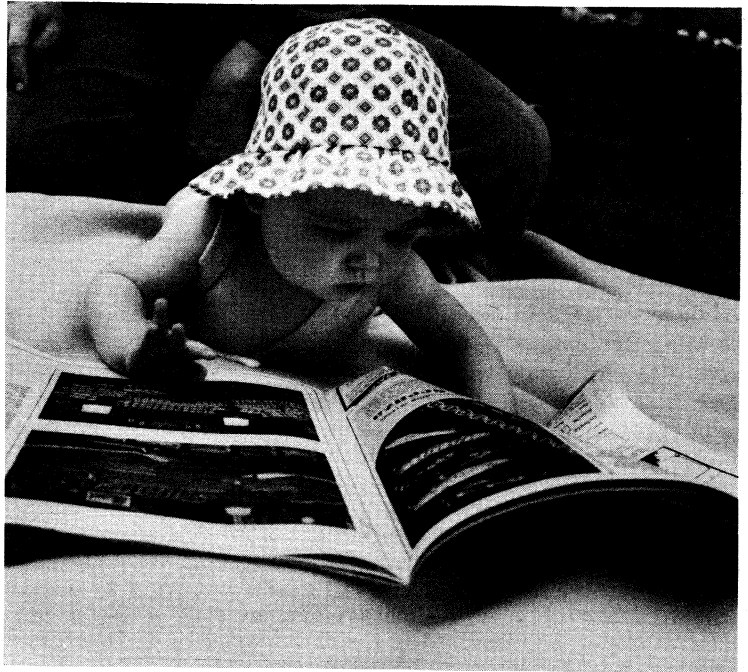
This program maintains golf handicaps for a club or an association. The menu-driven system maintains information about courses played and a file of players, enters scores hole by hole or as totals, runs periodic handicap computations and generates reports according to rules laid down by the sanctioning body, and prints reports and wallet cards.

Price: \$995

Contact: Alfred V. Bruns
(214) 690-1325

SUNBELT COMPUTER SERVICES, INC.
9202-B Markville Drive
Dallas, TX 75243

Research



POSITIVE IMAGES/Jerry Howard

CALC: An Interactive Computer Language with Unlimited Numerical Precision

Operating System: RT-11

Keywords: • Calculation aids • Interpreters

Memory required: 24K words.

CALC accepts simple BASIC-like statements and performs scientific computations with as many decimal digits as the user wishes, the upper limit being determined by the memory size of the computer. The variable names are restricted to a single character from A to Z. There is no DIM statement, and only one array (called ARR) is available. The programming feature is implemented using files in auxiliary storage; the program size is limited only by the file space. The fundamental trigonometric and logarithmic functions are included. The internal representation of numbers is the floating-point binary-coded decimal.

The CALC interpreter is coded in ANSI FORTRAN and has been tested to work unaltered on both the Univac 1108 under Exec 8 and the PDP-11/10 under RT-11. Approximately 100 to 200 decimal digits of precision can be used on a PDP-11/10 with 24K words of memory. DECUS number 11-369.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

CHROM (Chromatography Graphics and Analysis)

Operating System: CTS-300, RSTS, RSX, RT-11, UNIX

Keywords: • Chemical • Engineering • Graphics • Scientific

This interactive program plots and quantitatively analyzes up to two sets of chromatography data, based on sequential samples obtained from one or two chromatographic analyses. Data are stored in one or two 2- to 4-column files. File names and column identifiers (abscissa and ordinate axes) are input interactively, as are several other user options. Entire chromatograms or portions of interest are plotted and scaled automatically. One or both chromatograms are analyzed by numerical integration of all peaks. The results are expressed directly on the same plot, at the same time, as a percentage in each peak of the total ordinate units recovered in the chromatogram — for example, percent in each peak of total radioactivity cpm recovered in all chromatographic samples.

The program is written in FORTRAN, in modular form, for the VT55 graphics terminal. Adaptation to other terminals/devices is easily made by substitution of one subroutine.

A version of this product is available for the VAX computer.

Price: \$500 +

Contact: Dr. Joseph J. DiStefano III, Professor
(213) 825-7482 or 825-4033

UNIVERSITY OF CALIFORNIA, LOS ANGELES
School of Engineering and Applied Science
Biocybernetics Laboratory, 4731K Boelter Hall
Los Angeles, CA 90024

CHROMPAK (Chromatography Analysis Package)

Operating System: CTS-300, RSX, RT-11, UNIX

Keywords: • Chemical • Data collection • Engineering
• Health care

CHROMPAK aids in the collection and analysis of chromatography data. Modular programs are quickly adapted to a variety of measuring instruments and collection techniques. The following programs are available:

- DATAIN collects and stores data from a gamma or beta counter, spectrophotometer, and so on. Data files are multicolumn, ASCII format for use with other utilities.
- PEAKS analyzes data files and reports on total data, location and percentage of peaks, percent total recovery, and other invaluable statistics.
- SUBGRAM sums or integrates all the data in a file (chromatogram).
- CHROMPLOT displays one or two chromatography files on a CRT terminal. Functions are same as CHROM.
- BKSUB accepts two input files: one data file and one instrument noise file. The output is a file with noise subtracted from data.
- DELA, DELB strips off one or more columns from a multicolumn data file.
- CORRECT allows the user to adjust data values to compensate for machine or technique idiosyncrasies — for example, tube geometry or volume correction for a gamma counter.
- NORM normalizes a multicolumn file to time, volume, and so forth.
- ZEROSERT inserts zero data values in a data file.

A version of this product is available for the VAX computer.

Price: \$1,000 – \$2,000

Contact: Dr. Joseph J. DiStefano III, Professor
(213) 825-7482

UNIVERSITY OF CALIFORNIA, LOS ANGELES
School of Engineering and Applied Science
Biocybernetics Laboratory, 4731K Boelter Hall
Los Angeles, CA 90024

CLIN-TEAMS®

Operating System: RSX

Keywords: • Data collection • Health care • Medical
• Scientific

CLIN-TEAMS, an integrated system of programs for data collection in the clinical trial environment, collects data on computers as small as a single-user system and is offered in a BASIC-PLUS-2 version to run under RSX-11M or VMS operating systems. Data, collected by filling in Case Report Form images on the CRT, is transferred at predetermined intervals for integration into the central data base. CLIN-TEAMS provides the audit trails required by FDA guidelines.

Data collection formats for new studies can be set up (protocol compiled) interactively without reprogramming. Branching logic within the system provides the ability to go to specific questions based on the response to the current question.

CLIN-TEAMS, an extremely flexible, user-friendly system that is both menu-driven and protocol-driven, has a monitoring report-generating facility that lets you tailor interim reports to your needs. The system also lets you unload the data to a sequential data file for use with statistical analysis programs such as SPSS, BMDP, and SAS.

CLIN-TEAMS is an application package that allows other programs to be run while CLIN-TEAMS is being used. Thus, CLIN-TEAMS can fit well into a multiuser, multiprogramming environment on the host computer.

A version of this product is available for the VAX computer.

Price: \$30,000

Contact: Floyd E. Leaders, Jr.
(214) 386-5764

TECHNICAL EVALUATION AND MANAGEMENT
SYSTEMS, INC.
13601 Preston Road
820 Carillon Tower West
Dallas, TX 75240

CPLIB

Operating System: RT-11

Keywords: • A/D, D/A • Data collection • Data conversion
• Instrumentation

CPLIB is a real-time software package for Data Translation's Continuous Performance A/D, Continuous Performance D/A, and programmable clock boards for the LSI-11 bus. The package consists of a library of routines designed to be linked to the user's FORTRAN IV programs.

The major features of CPLIB are:

- Subroutine calls that provide the capability to transfer analog and digital data in and out of a system
- High aggregate analog data input rates — up to 250 kHz to memory
- Continuous throughput to/from disk — up to 95 kHz
- Support for high-resolution point plotting on an X-Y plotter or CRT
- A complete error reporter that checks for programming errors and reports syntax and usage errors and attempts to operate the hardware in an illegal mode
- Support for RT-11 completion routine capability, which allows the user to asynchronously activate FORTRAN IV or MACRO subroutines upon the completion of I/O routines

Price: \$1,495

Contact: Vic Karevicius
 (617) 481-3700 ext. 238
 DATA TRANSLATION, INC.
 100 Locke Drive
 Marlboro, MA 01752

DATAIN

Operating System: RSX, RT-11, UNIX

Keywords: • Biology • Data collection
 • Device drivers/handlers • Engineering

DATAIN is a computer/laboratory instrument interface. A C program for collecting data from a laboratory instrument, DATAIN is adaptable to any instrument with an asynchronous serial (RS232) interface.

The program establishes contact with the instrument, conditions I/O channels, and opens input files. The operator is then prompted to begin data transmission. No more operator intervention is necessary until collection is stopped. Thus, DATAIN can be run unattended for long periods.

Files are automatically named by date or may be individually named by the operator. The data is error checked at input and stored as ASCII characters for easy interpretation and manipulation by other program tools.

A version of this product is available for the VAX computer.

Price: \$500 – \$1,000

Contact: Dr. Joseph J. DiStefano III, Professor
 (213) 825-7482 or 825-4033

UNIVERSITY OF CALIFORNIA, LOS ANGELES
 School of Engineering and Applied Science
 Biocybernetics Laboratory, 4731K Boelter Hall
 Los Angeles, CA 90024

FEP2: A Finite Element Program for 2- and Axisymmetric 3-Dimensional Continua

Operating System: RSTS, RSX, RT-11

Keywords: • Materials handling • Mathematics • Simulation

Memory required: 28K.

FEP2 is a program for the analysis of elastic solids. Both constant strain and higher-order continuum elements are included, along with a special element for incompressible media. The program uses an out-of-core skyline equation solver, so the problem size is not restricted by storage of the global stiffness matrix. DECUS number 11-461.

Note: FEP2 was tested under RT-11 but will probably run under all systems.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

FISH (Post- and Interspike Interval Analysis)

Operating System: RT-11

Keywords: • Biology • Graphics • Medical • Statistics

Memory required: 4K.

FISH.MAC generates two programs that collect, display, and store intervals between single neuronal action potentials in real time. ISH counts and orders absolute intervals between spikes; PISH collects and sums spike intervals after synchronizing pulses. Histograms are constructed and displayed on a VT55 graphics terminal. The data acquisition rate is 1 KHZ, using double-precision arithmetic. A version that executes on a MINC system with MNCKW is included. DECUS number 11-320.

Note: Quanda overruns have been fixed.

Price: \$5 - \$225

Contact: DECUS (see Introduction)

FITPACK (Curve and Surface Fitting Package)

Operating System:

Keywords: • Mathematics

FITPACK is a collection of FORTRAN programs for curve and surface fitting, using spline functions. Features included are automatic knot selection, error smoothing, and data reduction. The user provides a parameter by which he/she controls the trade-off between closeness of fit and smoothness of fit. Confidence limits for that parameter are available if the statistical errors on the data points can be estimated.

In addition to a standard routine for curve fitting over an interval and a routine for surface fitting over a rectangle, the package contains special programs for smoothing periodic functions, parametric curves (closed or otherwise), functions with convexity constraints, and data

over a rectangular grid and over the sphere. Routines are included for evaluating, differentiating, and integrating the spline approximations.

A version of this product is available for the VAX computer.

Price: \$50

Contact: Paul Dierckx

UNIVERSITY OF LEUVEN, DEPT. OF COMPUTER
SCIENCE

Celestijnenlaan 200 A

B-3030 Heverlee

Belgium

GAMMA-11 F/B, Version 3.3

Operating System: RT-11

Keywords: • Data collection • Medical • Nuclear

GAMMA-11 F/B is a hardware/software system designed for nuclear medicine. GAMMA-11 F/B can acquire, store, display, and manipulate images from the gamma camera in order to supply quantitative, meaningful clinical information.

In the foreground/background configuration, gamma camera data acquisition can take place independently of another process. This configuration includes two terminals. One terminal, the foreground acquisition terminal for the gamma camera, controls the setup and initiation of data collection. The other terminal, the background terminal, can be used simultaneously with the foreground terminal for data analysis by GAMMA-11 F/B programs, for program development in BASIC or FORTRAN, or for running any other programs that do not need immediate access to the disks for successful completion.

Only one terminal is included in the single-job configuration. This configuration has all the capabilities of the foreground/background system, except that data acquisition and processing cannot be carried out simultaneously.

Refer to SPD #15.60.13 when requesting further information on this product from your local DIGITAL sales office.

Price: Available upon request

Contact: Consult your local DIGITAL sales office
(see Introduction).

GLIM-3

Operating System: CTS-300, IAS, RSTS, RSX, RT-11, UNIX

Keywords: • Education • Mathematics • Statistics

GLIM-3 was developed by the British Royal Statistical Society for use in generalized linear modeling, vector calculation with various output options, data exploration, and teaching. As a modeling aid, GLIM-3 handles linear, loglinear, logit and probit models, and models with

gamma errors. Specification of standard models is simple but powerful, allowing refinements such as prior weights and the fixing of certain parameter values. Any generalized linear model can be handled and robust regression procedures developed. Powerful macro definition facilities are available.

GLIM-3 can operate with general arithmetic expression on vectors and scalars; subvectors are easily manipulated. The package can be used interactively or in batch mode, interactive use being particularly appropriate to data exploration — for instance, in the search for linearity-inducing transformations. As a teaching aid, GLIM-3 lets the student concentrate on the statistical aspects of a problem without concern about arithmetic.

GLIM-3 consists of a single FORTRAN program of about 11,500 lines, of which about 40% are comments. The program runs efficiently in an overlaid form.

In North America, contact James C. T. Pool (312) 971-2337, Numerical Algorithms Group, Inc., 1101 31st Street, Suite 100, Downers Grove, IL 60515.

A version of this product is available for the VAX computer.

Price: £150 – £300

Contact: M. G. Richardson
+ 44 865 511245

NUMERICAL ALGORITHMS GROUP LTD.

NAG Central Office

Mayfield House, 256 Danbury Road

Oxford OX2 7DE

United Kingdom

IAE (Interactive Editor)[™]

Operating System: RSX, RT-11

Keywords: • Scientific • Signal processing • Text management

IAE, developed by Signal Technology, Inc., is a FORTRAN program for editing speech parameters for hardware and software speech synthesizers. Features include vocabulary generation in a voice-response system, speech synthesis-quality enhancement, acoustic/phonetic experimentation, speech parameter plotting and verification, and parameter manipulation, interpolation, and transformation.

IAE is an editing program that allows manipulation of speech parameters generated by linear prediction or format analysis programs. The editing features allow the display of up to five parameter tracks at a time or the printing of numerical values. The editor allows the replacement of old values with new values, the moving and scaling of parameters, and the interpolation of parameters over specified time intervals. IAE utilities transform frequency and bandwidth data to linear prediction coefficients.

Standard mnemonic names are used to identify the speech parameters. Twenty locations are reserved for additional parameters with user-definable mnemonic names.

The IAE program is an add-on option to Signal Technology's Interactive Laboratory System (ILS), which is a high-level software package for user-oriented digital signal processing.

DIGITAL distributes this software product under license from Signal Technology, Inc.

Refer to SPD #A0.20.02 when requesting further information on this product from your local DIGITAL sales office.

IAE (Interactive Editor)™ is a trademark of Signal Technology, Inc.

A version of this product is available for the VAX computer.

Price: \$5,000

Contact: Consult your local DIGITAL sales office
(see Introduction).

IDL (Interactive Data Language)

Operating System: RSX

Keywords: • Graphics • Medical • Scientific

IDL is an interactive software system designed specifically to analyze, reduce, and display scientific and engineering data. IDL combines self-describing array-oriented data sets, operators, functions, and powerful graphic and image display capabilities into a complete interactive system.

Applications include physics, astronomy, medicine, engineering, and image processing.

A version of this product is available for the VAX computer.

Price: \$2,750 – \$10,700

Contact: David M. Stern
(303) 399-1326

RESEARCH SYSTEMS, INC.

2021 Albion Street

Denver, CO 80207

Laboratory Applications-11 Library

Operating System: RT-11

Keywords: • Calculation aids • Chemical • Electrical
• Scientific

742 Research

These software modules and operational programs are designed to solve typical laboratory problems. The purpose of the library is to provide a group of software modules that, when linked with a user-written calling routine, results in a program to solve many laboratory computer applications. User-developed modules, following well-defined guidelines and rules, can be combined with library modules to generate tailored programs. DECUS number 11-448.

Note: The manual describes the functional characteristics of a particular module, programming information, and release notes.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

Minitab™ Data Analysis Software

Operating System: IAS, RSTS, RSX, RT-11

Keywords: • Education • Mathematics • Scientific
• Statistics

Minitab is a general-purpose data analysis system designed for anyone with data to organize and analyze. Emphasis is on ease of use for engineers, social and physical scientists, managers, students, statisticians, and others who need to learn from data. Minitab has 100% compatible batch and interactive modes and is also completely compatible among all supported processors.

Data analysis features include descriptive statistics; flexible plotting, including histograms and other displays; multiway tables in a wide variety of layouts; regression with residual analysis, diagnostics, and stepwise procedures; analysis of variance; nonparametric methods; exploratory data analysis, including features developed by John Tukey; and time series analysis, including Box-Jenkin procedures. General features include easy transformations and coding, automatic handling of missing values, data editing and manipulation, and input/output from terminal or files.

Complete documentation is available in the *Minitab Reference Manual*, the *Minitab Student Handbook*, and the *Quick Reference Card* and through the on-line HELP facility.

Most Minitab sessions require just a few straightforward commands; new users need less than one hour to get started.

The price range for academic users is \$500 to \$600 a year.

A version of this product is available for the VAX computer.

Price: \$1,000/yr – \$1,200/yr

Contact: Mary E. Montminy
(814) 865-1595

MINITAB, INC.

215 Pond Laboratory

University Park, PA 16802

NAG FORTRAN Library

Operating System: CTS-300, RSX, RT-11, ULTRIX, UNIX

Keywords: • Graphics • Mathematics • Operations
• Statistics

The NAG FORTRAN Library is a tailored collection of FORTRAN subroutines grouped into chapters devoted to particular areas of mathematics, operations research, and statistics. Within a chapter, each algorithm is selected to solve problems of an identified type.

The Mark 10 NAG Library contains 490 subroutines. The *NAG Library Manual* has the same chapter structure as the Library. Each subroutine has its own document describing the use of the routine in detail and including a complete program listing with input data and results. Each chapter introduction gives extensive advice on the selection of routines.

An interactive on-line documentation supplement and a graphics supplement including interfaces to many standard graphic devices are available. Educational and multiprocessor discounts are offered.

Outside North America, contact John Reaves (National 0865 511246) (International +44 865 511245), Numerical Algorithm Group LTD., Mayfield House, 256 Banbury Road, Oxford OX2 7DE, United Kingdom. The price is £1,150/yr.

A version of this product is available for the VAX computer.

Price: \$1,800/yr

Contact: James C. T. Pool
(312) 971-2337

NUMERICAL ALGORITHMS GROUP LTD.
1101 31st Street, Suite 100
Downers Grove, IL 60515

OSS (Optimal Sampling Schedule Designs)

Operating System: CTS-300, RSX, RT-11, UNIX

Keywords: • Biology • Data collection • Pharmaceutical
• Statistics

OSS is a series of portable FORTRAN programs for computing D-optimal, discrete-time data sampling schedules — designs that maximize the determinant of the Fisher Information Matrix — for different types of standardized and general model and experiment types: “impulse response” or “step response” kinetic experiments in pharmacology and biology for single-input, single-output linear models (built in); multi-input, multioutput linear models (built in); and models of any form, in FORTRAN user-provided subroutines. Other optimization criteria can be accommodated by substitution of one subroutine. The user has the choice of interactive or batch mode for program input, and both program input and program output are highly readable and user-friendly. Telephone demos can be arranged.

744 Research

A version of this product is available for the VAX computer.

Price: \$500 – \$5,000

Contact: Dr. Joseph J. DiStefano III, Professor
(213) 825-7482

UNIVERSITY OF CALIFORNIA, LOS ANGELES
School of Engineering and Applied Science
Biocybernetics Laboratory, 4731K Boelter Hall
Los Angeles, CA 90024

PLACES (Pathology Lexicon, Acquisition, Correlation, and Evaluation System)

Operating System: RSX

Keywords: • Medical • Menu handlers • Pharmaceutical
• Report writer

PLACES provides a flexible mechanism for the direct entry of histopathology data to an on-line computer system and for producing the reports required by legislative authorities in toxicology studies. A key feature of the system is that it treats the recording and reporting aspects of histopathology as two separate activities. During the recording process, a flexible menu-selection scheme allows the pathologist to record exactly what he or she wishes to record. The reporting sequence then allows the pathologist to rationalize findings in an iterative fashion, leading to the production of the most satisfactory incidence tables with no transcription — and with a full audit trail of the operations performed.

PLACES operates as a stand-alone software package but may also be interfaced to other packages for protocol and status information. The package includes a configuring utility that enables the customer to set up numbering schemes and so on; the system is highly table driven, thus allowing the customer to tailor the system without modifying the software.

PLACES systems are installed in agrochemical, pharmaceutical, and contract toxicology laboratories in both Europe and the United States.

A version of this product is available for the VAX computer.

Price: £25,000 – £55,000

Contact: Dr. D. A. James
(0782) 620519

APOLOCO LTD.

90 King Street

Newcastle-Under-Lyme, Staffordshire ST5 1JB
England

PORT (Portable Mathematical Subroutine Library)**Operating System:** Independent**Keywords:** • Compilers • Debugging • Mathematics

PORT is a coordinated set of FORTRAN subprograms for numerical computation. The library is characterized by careful error checking and dynamic storage allocation and can be installed on minicomputers having an ANSI FORTRAN compiler with associated library facilities.

Price: Available upon request**Contact:** AT&T Technologies, Inc., Account Executive
(919) 697-6530

AT&T TECHNOLOGIES, INC.
Software Sales and Marketing
P.O. Box 25000
Greensboro, NC 27420

QBLIB (CAMAC Subroutine Library)**Operating System:** CTS-300, RT-11**Keywords:** • Instrumentation • Nuclear • Process control
• Real time

QBLIB is a set of FORTRAN-callable subroutines and assembly language macros for accessing elements of the standardized instrumentation interface system CAMAC (ANSI/IEEE Standard 583-1982, IEC-516) from Interface Standards' QB Series of Q-BUS-to-CAMAC interfaces. The subroutine calls conform to the recommendations of ANSI/IEEE Standard 758-1979 (IEC-713), "Subroutines for CAMAC," and include single-and multiple-cycle modes as well as extensive support for interrupt handling. Those routines in effect make the controller "invisible" and allow an application program to talk directly to the CAMAC instrumentation modules.

QBLIB includes a set of macros to make the same facilities available to the assembly language programmer. Those macros generate fast, efficient in-line code for accessing CAMAC modules.

QBLIB is available in Europe through Borer Electronics AG, Postfach 148, CH-4501, Solothurn, Switzerland.

Price: \$1,000**Contact:** Joe Booth
(415) 657-5100

INTERFACE STANDARDS, INC.
45845-A Warm Springs Boulevard
Fremont, CA 94539

RDE (Research Data Entry)™**Operating System:** RSX**Keywords:** • Data entry • Forms management • Scientific

RDE, developed by Bolt, Beranek and Newman, Inc., provides capabilities for the design and creation of forms for review, modification, or reporting and the preparation of formatted output. The system features data entry, data retrieval, and audit trail of data modifications and compatibility with other BBN research systems, as well as with other PDP-11-based systems requiring forms-oriented data entry.

Features include:

- Data entry — Data is keyed directly into fields in forms presented on a CRT screen. RDE can check for number ranges, type of value, and menus of values during data input and can provide default values and sequential numbers for data fields.
- Audit trail — Data in RDE forms cannot be deleted. When values are changed, the original values are preserved with information about who made the changes, when, and why.
- Forms design — The user can produce RDE forms to match particular data entry needs by creating a text image of the form as it will appear on the screen and adding information about the data fields.
- Report design — RDE can prepare reports and displays of selected data in the format desired.
- Instrument data entry — Data from laboratory instruments can also be inserted into RDE forms.

DIGITAL distributes this software product under license from Bolt, Beranek and Newman, Inc., 10 Moulton St., Cambridge, MA 02138.

Refer to SPD #A0.13.02 when requesting further information on this product from your local DIGITAL sales office.

RDE (Research Data Entry)[™] is a trademark of Bolt, Beranek and Newman, Inc.

A version of this product is available for the VAX computer.

Price: \$4,000

Contact: Consult your local DIGITAL sales office
(see Introduction).

RS/1

Operating System: RSX

Keywords: • Data base management • Engineering
• Graphics • Statistics

RS/1 is an easy-to-use, integrated computer software system that offers data management, statistical analysis, and full graphics capability. The system enables researchers and engineers to maintain direct control of their data. RS/1 runs on DIGITAL VAX, PDP-11, and PRO 350 computers.

RS/1 is a product of BBN Research Systems, a division of Bolt Beranek and Newman Inc., which designs and develops computing tools for science and technology. RS/1 meets the information-handling needs of the research scientist. Through simple English-like commands, RS/1 gives

the user access to a full range of data-handling techniques, including data entry and retrieval, data transformation and analysis, graphics, statistical analysis, curve fitting, and analytical models.

Data may be entered into RS/1 directly or through the Research Data Entry system, a forms-oriented system that simplifies the task of entering, editing, reviewing, auditing, and reporting large amounts of data. Data is stored and used in the format of 2-dimensional tables. The user can create hundreds of tables and use any number of them at one time. Presentation-quality graphs, bar graphs, and pie charts can be created by the user with simple commands and with fast display and plotting times.

The Research Programming Language (RPL) enables RS/1 users to extend and tailor system capabilities for their applications. RPL is fully integrated into the RS/1 data management system and can be used to develop procedures through direct use of RS/1 commands and procedures and direct access to RS/1 tables, graphs, bar graphs, and models.

A version of this product is available for the VAX computer.

Price: \$1,900 – \$25,500

Contact: Donna Berman
(617) 491-8488

BOLT BERANEK AND NEWMAN INC.
10 Moulton Street
Cambridge, MA 02238

RS/1 (The Research System)™

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Data base management • Data conversion
• Graphics • Statistics

RS/1, developed by Bolt, Beranek and Newman, Inc., is a generalized data management system designed to assist in the information-handling needs of the research scientist. RS/1 data management features provide data storage and retrieval, data transformation and analysis, graphics, statistical analysis, curve fitting, and analytical models. Users can extend capabilities and tailor the system through a PL1-like structured programming language that is fully integrated into the data management features. RS/1 can be interfaced to data-gathering systems, data base management systems, and other statistics packages. RS/1 capabilities are accessed through a command language that integrates its data management, data analysis, and graphics functions.

DIGITAL distributes this software product under license from Bolt, Beranek and Newman, Inc., 10 Moulton St., Cambridge, MA 02138.

Refer to SPD #A0.14.02 when requesting further information on this product from your local DIGITAL sales office.

748 Research

RS/1 (The Research System)[™] is a trademark of Bolt, Beranek and Newman, Inc.

A version of this product is available for the VAX computer.

Price: \$13,400 – \$32,500

Contact: Consult your local DIGITAL sales office
(see Introduction).

RUNREF

Operating System: UNIX

Keywords: • Documentation • Medical • Scientific
• Text management

RUNREF, a reference formatting and retrieval program for scientific manuscripts, retrieves citations from a data base, inserts appropriate numbers in text, and produces bibliographies in the punctuation style appropriate for a variety of medical and scientific journals. The programs are written in C.

Citation material is placed in a data base format that allows retrieval by keyword, phrase, author, year, and so on. Citations are given unique identifying numbers, which may be used in the production of text. The text formatting program uses the text and data base to then format the text and bibliography. The text will include, for example, superscripted numbers in citation or alphabetical order according to the bibliographic style required by the publisher or granting agency. Authors' names and year of publication may appear within the text, if desired. Alphabetic or numeric-order listings of the cited bibliographic material are produced in the "references" section in any one of 27 available punctuation styles. Styles conform to widely used scientific and medical English-language journals. Error checking for incorrect input and a 25-page user's guide are available.

The lower price includes documentation for a single user. The higher price is for an annual licensing fee for a multiuser system with automatic updates.

A version of this product is available for the VAX computer.

Price: \$200 – \$500

Contact: B. Todd Troost, M.D.
(216) 444-3190

MEDICAL INFORMATICS
12023 Lakeshore Boulevard
Cleveland, OH 44108

S531A/S631A ABACOS II

Operating System: RSX

Keywords: • Instrumentation • Nuclear • Quality control
• Scientific

The capability and versatility of the three whole-body counting systems — ACCUSCAN, FASTSCAN, and the 2230 (chair) — lie in the application software. ABACOS II, the body-burden analysis software, represents a high level of sophistication for sodium iodide and germanium detector spectra. ABACOS II can quantify up to 30 isotopes in the background level spectra. ABACOS II is written in FORTRAN IV, allowing it to be easily upgraded as new analysis algorithms are developed or modified for special applications.

Large $4 \times 4 \times 16$ detectors are used. Sensitivities of 10 nanocuries and better have been obtained for 1-minute counts. Routines for complete body burden and dose calculations are included.

Note that although the three units are generally stand-alone, ABACOS II can be integrated into an existing computer system of the proper configuration.

A version of this product is available for the VAX computer.

Price: \$10,000 – \$19,000

Contact: Mark Biron
(203) 238-2351

CANBERRA INDUSTRIES, INC.
One State Street
Meriden, CT 06450

SDP-PLUS (Structure Determination Package)

Operating System: RSX

Keywords: • Biology • Chemical • Scientific
• Structural engineering

The Enraf-Nonius Structure Determination Package (SDP) is a package of programs for the solution and refinement of molecular/crystal structures. The package was developed to run on different models of DIGITAL PDP-11-series computers with a large variety of peripherals. The SDP package is written in FORTRAN IV and runs under RSX-11M or RSX-11M-PLUS. A FORTRAN IV PLUS version also exists. A minimum of 32KW of user memory and floating-point hardware are prerequisites.

The SDP package includes the usual routines, such as data reduction, absorption correction, phase determination, Fourier calculation, least-squares refinement, calculation of esds, mapping, plotting, and listing programs.

A version of this product is available for the VAX computer.

750 Research

Price: \$3,500

Contact: Dr. Frank van Meurs
31.15.569230 ext. 151
B.V. ENRAF-NONIUS DELFT
Postbus 483
2600 Al Delft
The Netherlands

TEAMS®-TOX

Operating System: RT-11

Keywords: • Data collection • Medical • Pharmaceutical
• Scientific

TEAMS-TOX is an integrated package of computer software designed to aid in gathering, managing, archiving, and reporting data pertaining to laboratory animals. The system is implemented in BASIC and operates on a wide variety of hardware configurations, including 64K single-user PDP computers, including fully distributed PDP-11/03 (LSI)-based workstation systems as well as large centralized PDP-11 systems. The software is compatible with RT-11/TSX operating systems.

Data may be collected on free-standing workstation units in the laboratory. A "simultaneous journaling" option permits on-site generation of hard-copy laboratory records. Data can be transferred back to a host computer at predetermined intervals for integration into the central data base. The system was specifically designed to provide the audit trails required by FDA guidelines.

This extremely flexible, user-friendly system is both menu driven and "protocol driven." Data collection formats for new studies can be set up (protocol compiled) interactively without reprogramming. Branching logic within the system provides the ability to go to specific questions, based on the response to the current question.

TEAMS-TOX has a monitoring report-generating facility that allows one to tailor interim reports to the user's needs. The system also allows one to unload the data file for use with statistical analysis programs such as SPSS, BMDP, and SAS.

This application package allows other programs to be run while TEAMS-TOX is being used. Thus, TEAMS-TOX can fit very well into a multiuser, multiprogramming environment on the host computer.

Price: \$30,000

Contact: Floyd E. Leaders, Jr.
(214) 386-5764

TECHNICAL EVALUATION AND MANAGEMENT
SYSTEMS, INC.
13601 Preston Road, 820 Carillon Tower West
Dallas, TX 75240

TRACER FORTRAN Debugger

Operating System: IAS, RSX

Keywords: • Debugging • Programming tools • Scientific

TRACER simplifies the debugging of FORTRAN programs during the difficult phase when the program compiles correctly, but answers are incorrect or execution errors exist whose cause is not immediately apparent and not easily found. TRACER allows the FORTRAN programmer to debug, using high-level techniques. By producing symbolic output as a program executes, TRACER shows the programmer the names and values of variables when they are assigned, the value of arithmetic and logical IF statement expressions when they are computed, the statement number of labeled statements when they are executed, and the names and values of subprograms and arguments upon entry.

TRACER's interacting option allows the user to stop at labels selected at run time, proceed from the same or different labels, examine contents of variables and array elements, alter contents of variables and array elements, and step through FORTRAN statements one at a time. The amount of diagnostic information TRACER produces is determined according to options specified by the user in a TRACE statement inserted in the source program. This statement can vary from a short trace of one variable for a span of only a few statements to a full trace of a complete program.

Price: \$3,950

Contact: Diana Slocombe, Sales Manager

(415) 494-7500

IPT CORP.

1096 E. Meadow Circle

Palo Alto, CA 94303

Retail



Black Star Publishing Company/Bill Avon

BARR (Billing and Accounts Receivable for Retailers)

Operating System: CTS-300, RSX, RT-11

Keywords: • Accounts receivable • Billing • Query facilities

This balance-forward system is designed to aid a retail business in the performance of its accounts receivable accounting function. Data entry may be either through a CRT or by an optional communication module that polls local and remote POS terminals. In addition to generating aged statements and other aged accounts receivable listings, the system provides for on-line inquiry into customer accounts. It also maintains sales history by customer and produces delinquent-account reports and notices. A mailing label option is also available for this package.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: John T. Rasted
(203) 265-2226

SOFTWARE DYNAMICS, INC.
1000 Yale Avenue, P.O. Box 500
Wallingford, CT 06492

Credit Authorization

Operating System: RSX

Keywords: • Credit • Point of sale

Full, positive on-line credit authorization for a retailer's in-house credit card is provided. Optional is a link on line to third-party authorization systems (MC, AE, and so on). The system is interfaced to major vendor point-of-sale systems.

Price: \$100,000 – \$200,000

Contact: Steven Karpen, Systems Director
(617) 568-1411

AFI/DATATROL
Brent Drive
Hudson, MA 01749

DCPOST (Point of Sale Data Communications Module)

Operating System: RSX

Keywords: • Data base management • Data collection
• Data entry • Point of sale

The DCPOST module is a sophisticated host-based data management and communications system for retail point-of-sale operations.

As an on-line data collection and register maintenance system, DCPOST provides site scheduling, polling control, dynamic workload balancing, performance tracking and reporting, centralized data management, real-time performance messages, workload documentation, autorestart facilities, and single/multithread communications.

A version of this product is available for the VAX computer.

Price: \$18,500 – \$45,000

Contact: Stephen Henry, Director of Marketing
(203) 633-4646

COMPTECH, INC.
10 Commerce Street
Glastonbury, CT 06033

DTS-11

Operating System: CTS-300, RSX, RT-11

Keywords: • Accounting • Data collection
• Telecommunications

DTS-11 — synchronous communications for DTS Cash Registers — is a Binary Synchronous Communications (BSC) package enabling telecommunications with Data Terminal Systems Series 500 electronic cash registers. DTS-11 uses a 3780-type protocol for transmitting and receiving data between the host and cash register(s). The package supports both host and store IDs for security purposes. DTS-11 operates at a line speed of 2,400 baud, using Bell System 201 or equivalent modems. DTS-11 can also be operated in a local mode, using a modem eliminator.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: John T. Rasted
(203) 265-2226

SOFTWARE DYNAMICS, INC.
1000 Yale Avenue, P.O. Box 500
Wallingford, CT 06492

Fedder Retail Merchandise Control System

Operating System: ULTRIX, UNIX

Keywords: • Accounts receivable • General ledger • Inventory
• Point of sale

This system is based on the Fedder Foresight™ Scientific Inventory Management and Fedder Accounts Receivable systems. Special features include layaways, hot-seller and slow-moving item reports, open-to-buy reports, classification price line reports, salesperson productivity, and so on.

The system is either a POS system controlling a cash drawer or a back office system verifying handwritten sales checks. The POS version includes the capabilities of an electronic cash register, including price lookup.

The Fedder Software group offers a companion cash drawer optical wand and computer interface for POS operation.

756 Retail

Over 1,400,000 retail establishments are in the United States. The Fedder Retail System is suitable for chain stores, department stores, and individual specialty-shop operations.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: David E. Fedder
(301) 539-2121
FEDDER SOFTWARE, INC.
P.O. Box 27149
Baltimore, MD 212300149

Fedder Tire Dealer System

Operating System: ULTRIX, UNIX

Keywords: • Cost accounting • Inventory • Order entry
• Point of sale

The Fedder Tire Dealer System is a specialized version of the Fedder Foresight™ System, with provisions for excise taxes and multiple locations. The system also tracks customer purchase history, serial numbers, and new and used tire inventories. Point-of-sale operations are supported.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: David E. Fedder
(301) 539-2121
FEDDER SOFTWARE, INC.
P.O. Box 27149
Baltimore, MD 212300149

ICAS 1123-Plus (Inventory Control Accounting System)

Operating System: RSX

Keywords: • Automotive • Inventory • Point of sale
• Warehousing

This point-of-sale invoicing package for part suppliers and inventory-intensive retail establishments is menu driven. The software is structured for easy user access, with submenus for inventory control, sales, accounting, management reports, and system utilities.

- Inventory control features parts and vendor maintenance, inventory reports, supersessions, alternates, automatic ordering, and popularity pricing.
- Point-of-sale invoicing and picklists are featured in the sales submenu.
- Accounting includes accounts receivable, accounts payable, payroll, and general ledger.

- Management reports include cost and sales analysis as well as core, audit, picklist, and sales reporting.
- Multistore networking is featured.

A version of this product is available for the VAX computer.

Price: \$10,000

Contact: Jeff Bauman

(201) 729-3197

ICAS COMPUTER SYSTEMS, INC.

160 Woodport Road

Sparta, NJ 07871

IDW-5

Operating System: RSTS

Keywords: • Accounting • Distribution • Inventory
• Wholesale

The IDW-5 package provides order entry, inventory control, accounts receivable, accounts payable, purchasing and payroll — all integrated to a sophisticated general ledger.

Those packages have been installed in a variety of industries, including tire, office supply equipment, automotive, lawn and garden, and food. The unique table-driven software can be tailored and enhanced for applications in the wholesale or the retail field. The IDW-5 package is fully supported in Canada.

A version of this product is available for the VAX computer.

Price: \$100,000

Contact: Ed Katz

(602) 897-9576

SYSTEMS BY MICA

6101 S. Rural Road, Suite 101

Tempe, AZ 85283

IN-TOUCH

Operating System: RSTS

Keywords: • Distribution • Inventory • Point of sale
• Wholesale

This full retail entry/control system at cashier point of sale is flexible enough to match the most imaginative merchandising techniques. The system provides variable pricing per quantity or customer code and a suggested order quantity report based on movement history as well as trend and user-defined seasonal factors. All modules have access security and data security via a management-maintained table of passwords, allowing accounting control and definition of responsibility. A user needs minimal training to learn the system, which allows for preentry of promotional prices with starting and ending dates, has provisions for statistical analysis of inventory adjustments and analysis,

and produces a salesperson productivity report. Approval is required for charges beyond credit limit, for merchandise returns and credit memos, and for price override at point of sale.

The system provides daily back-office reporting of charges beyond limit, merchandise returns, and price overrides; charge account agings at call; inventory quantity and inventory lead-time warning reports; gross profit reporting; sales dollars, turnover, and item movement reporting with charge account controls; on-line master file maintenance; single or multistore capabilities with single or multiple cashiers; multiterminal access; screen-formatted entry; selective reporting; interactive HELP on call; and customer, vendor, and product listings. A standard item code can allow tracking an item to a certain location in sales or warehouse areas; the transfer of inventory between stores is controlled; and spiff, PM, and so on, information is captured at point of sale from information in the product master file.

A version of this product is available for the VAX computer.

Price: \$25,000 – \$80,000

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.

1010 S. Weinbach Avenue, P.O. Box 2469

Evansville, IN 47714

INV (Inventory)

Operating System: RSTS

Keywords: • Inventory • Purchasing • Warehousing

INV satisfies all requirements of a warehousing and retail application. Each stock item record retains data for quantities, purchasing and sales history, and costing and descriptive information, in addition to extra fields for custom requirements.

The purchasing system is a recommended no-cost optional function that maintains the ordering and receipt of the inventory items. The purchase order system is used to initiate the ordering of goods through an established supplier file. Orders may be updated, added to, or canceled with automatic purging when the order quantity is attained. Reports include an outstanding P.O. report and a screen inquiry.

The relief of the inventory through sales can be maintained through invoice document entry or through use of an order entry application (Data Key ORD). Branch stock transfers can also be handled, with all necessary journal entries to the general ledger being done automatically.

Reporting and inquiry include stock status, price lists, min/max exception, and count sheets. Integration to other applicable Data Key applications is standard.

Price: \$3,500

Contact: Barry Logan, Vice President
(604) 276-2622

DATA KEY LTD.
1A 12880 Bathgate Way
Richmond, B.C. V6V 1Z4
Canada

MAILHOUSE™

Operating System: RSTS

Keywords: • Billing • Distribution • Inventory
• Order entry

MAILHOUSE is completely interactive and gives a business the flexibility needed to properly track and maintain an invoice from the time an order is received from a customer until shipment is complete. Inventory levels are automatically maintained on line during invoice entry. Items are placed on back order if invoice entry indicates that an adequate inventory does not exist to fulfill an order. In case of phoned-in orders, even the sales tax and UPS or parcel post charges are automatically included in the amount while the customer is still on the line.

Once an invoice is entered, the operator must obtain approval for credit on those invoices selected by MAILHOUSE as ready for shipment. The order will be held until credit clearance is given.

Back-ordered invoices are automatically checked each day to determine the availability of inventory for given items. The results are a cross-reference report that gives the operator full knowledge of all invoices the system has on hold. MAILHOUSE includes an invoice editor designed to minimize operator problems by simulating invoice entry.

In addition to invoicing, MAILHOUSE also allows a business to keep track of sales, cost of sales, taxes, inventory levels, gross profit, and movement. To comply with FTC regulations, a day-counter and a notifier for each invoice are included.

A version of this product is available for the VAX computer.

Price: \$30,000

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.
1010 S. Weinbach Avenue, P.O. Box 2469
Evansville, IN 47714

Point of Sale

Operating System: RSTS

Keywords: • Financial analysis • Inventory • Point of sale
• Purchasing

760 Retail

This system is fully operational in multiple checkout situations. The special terminal supports laser scanner, credit card reader, overprinting, and so on, and is driven by either a PDP-11 or a VAX.

Full cash control and invoice production are provided even if the processor fails. The unit operates stand-alone.

The cost per checkout is around \$3,000, and multiple checkouts per processor keep total costs per checkout under \$6,000.

A version of this product is available for the VAX computer.

Price: \$3,000 – \$100,000

Contact: Dr. E. A. Haworth
(01) 248-7100

M.C.S.
3, Wynnsley Grove, Fallowfield
Manchester
United Kingdom

POS/MIMS (Point-of-Sale System for Lumber Yards/ Home Centers)

Operating System: CTS-300, RSTS

Keywords: • Accounts receivable • Inventory • Order entry
• Point of sale

POS/MIMS is a complete set of computer programs designed specifically for lumber and building material dealers. POS/MIMS is a computerized point-of-sale billing, accounts receivable, and inventory control system.

Price: \$34,000 – \$260,000

Contact: Pete McConnell
(412) 823-7440

MCS INC.
400 Penn Center Boulevard
Pittsburgh, PA 15235

Retail Furniture System

Operating System: RSTS

Keywords: • Accounts receivable • Inventory • Order entry
• Point of sale

This integrated order entry, accounts receivable, and inventory management system helps firms in controlling the retail process. The system concentrates on the accurate accounting of sales and inventory and incorporates all the appropriate management control tools needed to minimize costs and maintain a fair return on investment. Retail Furniture System uniquely identifies each piece in inventory and will identify its specific location at call. The system also reports the need to fill a specific location on the display floor due to merchandise sales.

Operated in a conversational, interactive mode, Retail Furniture System performs extensive edit checking, thereby ensuring the overall integrity of the data entered into the system. At the point of sale, a receipt is printed, and inventory and accounts receivable are automatically updated. The inventory-received entry function immediately updates inventory and causes inventory tags to be printed. Through this function, special-order and sold items are tagged and flagged. Available as options to the Retail Furniture System are EDPC's ABLE general ledger and management reporting system, AIM (Affordable Information Management) payables, AiM payroll, and other complementary systems.

A version of this product is available for the VAX computer.

Price: \$35,000

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.
1010 S. Weinbach Avenue, P.O. Box 2469
Evansville, IN 47714

Retail Inventory and Receivables

Operating System: RSTS

Keywords: • Accounts receivable • Inventory • Management
• Point of sale

This easy-to-operate system provides an accurate reporting and management analysis tool. Unproductive items are automatically recognized and eliminated. One easy entry at the point of sale updates inventory, receivables, and general ledger.

Some capabilities include:

- Tracking of inventory with interaction to accounts receivable at point of sale
- Stock status reports that indicate items above or below the desired inventory levels
- Sales reports by item, location, and salesperson
- Automatic production of invoices and/or balance-forward statements
- Production of aged trial balance
- Automatic calculation of finance charges
- Automatic interface to general ledger, payroll, and accounts payable and receivable systems
- Automatic production of accounts payable and payroll checks
- Production of inventory sales tags with retail price
- Interaction with word processing system to allow for personalized customer letters and mailings

A version of this product is available for the VAX computer.

762 Retail

Price: \$1,500 – \$20,000

Contact: William R. Paschal, Jr.

(405) 843-7323

DATATEK CORP.

818 N.W. 63rd

Oklahoma City, OK 73116

RIMS (Retail Inventory Management System)

Operating System: CTS-300, RSX, RT-11

Keywords: • Financial analysis • Inventory • Purchasing

RIMS can track inventory at both SKU and class levels. RIMS provides detailed inventory and sales analysis information for multilocations on a daily, monthly, and year-to-date basis. This package also includes a purchase order tracking module for generating open-to-buy reports. Input into the system may be either by an optional communications module that polls local and remote POS terminals or through CRT entry. Additional optional modules include A/R, A/P, and G/L specifically tailored for the retail business.

A version of this product is available for the VAX computer.

Price: \$8,000 – \$23,000

Contact: John T. Rasted

(203) 265-2226

SOFTWARE DYNAMICS, INC.

1000 Yale Avenue, P.O. Box 500

Wallingford, CT 06492

Shelf

Operating System: RSTS

Keywords: • Distribution • Warehousing • Wholesale

Memory required: 8K.

Shelf/floor space productivity analysis allows a retailer or marketing student to analyze the profitability of product lines on a per square foot basis. DECUS number 11-212.

Restrictions: Must use 132-column-width paper.

Price: \$5 – \$225

Contact: DECUS (see Introduction)

TABS (Total Application for Building Suppliers)

Operating System: RSTS

Keywords: • Inventory • Materials handling • Point of sale
• Wholesale

TABS is a user-friendly software system designed specifically to meet the needs of building material retailers, wholesalers, and home improvement centers. TABS emphasizes the vital areas of inventory control and customer credit and provides the full range of functions and reports that a building material dealer needs to run his/her business effectively. A few highlights are:

- Point-of-sale option for retail establishments; back office order entry for wholesalers
- Multitasking capability (any application may be run simultaneously with virtually any other application)
- Time-sharing attributes, with file sharing
- Expedient management-by-exception approach to data retrieval
- Menus, prompts, and other interactive aids
- Secure password protection for each branch of menu, with restricted access to the operating system
- Screen scrolling for convenient on-line inventory item and customer search
- User-defined system defaults and other time-saving features
- Screen display of virtually any hard-copy report
- Full audit trails, legality-check network, and data editing

The standard TABS package consists of six fully interfaced, interactive software modules: order entry/inventory, accounts receivable, accounts payable, purchasing, general ledger, and payroll. Each module can also function independently, as well as be interfaced to optional software.

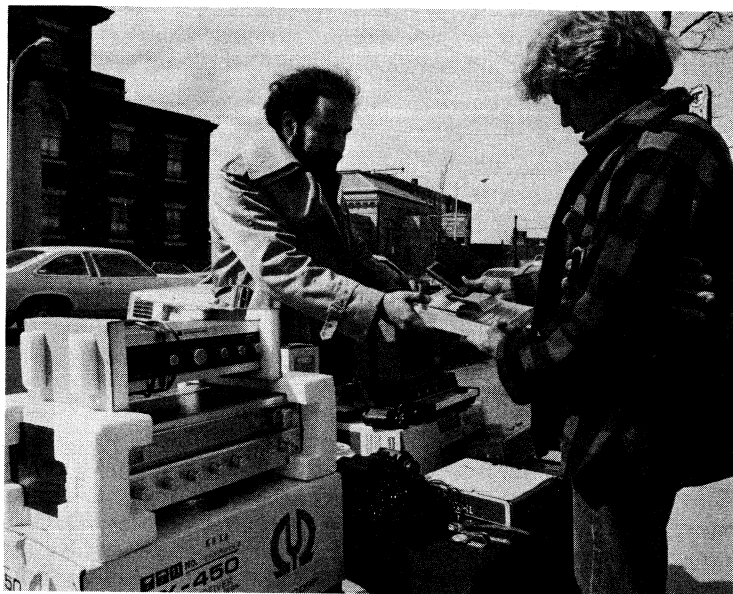
A version of this product is available for the VAX computer.

Price: \$15,000 +

Contact: Hugh MacDonald, Sales Manager
(617) 964-4011

COMPUTER SOFTWARE CONSULTANTS, INC.
200 Boylston Street
Chestnut Hill, MA 02167

Sales and Marketing



Bondan Hynewich/Stock, Boston

20/20

Operating System: UNIX

Keywords: • Decision support • Financial planning
• Scheduling • Spreadsheets

The "twice integrated" modeling program designed for the corporate environment, 20/20 integrates a powerful spreadsheet with graphics, data base management, text processing, and project scheduling. Then 20/20 is integrated again, into the corporation, by providing access to existing data bases and application packages. Superior graphics capabilities display graphs and spreadsheets simultaneously. The program is completely compatible with Supercomp-Twenty, Access Technology's electronic spreadsheet. Entire models can be transferred between 20/20 and Supercomp-Twenty, which is available on a variety of computers, including minis, micros, and mainframes. Both products are sold primarily to Fortune 1000 companies internationally.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Janice M. Barry
(617) 655-9191

ACCESS TECHNOLOGY, INC.
6 Pleasant Street
So. Natick, MA 01760

Ad Tracking

Operating System: ULTRIX, UNIX

Keywords: • Data base management • Management
• Office systems • Report writer

This system allows the user to do all fulfillment from direct mail campaigns, advertising campaigns, and so on. The system generates reply letters to prospects and lead reports for salespeople and/or dealers and produces a series of reports that analyze the effectiveness of ad campaigns. A complete data base of all leads and lead activity is maintained. The ad tracking system is written in C language and uses the public domain Ingres data base written by the University of California at Berkeley. Binary and source codes are available for UNIX* Berkeley 4.1 and 4.2. The source code is available for all others.

*UNIX is a trademark of AT&T Bell Laboratories.

A version of this product is available for the VAX computer.

Price: \$2,500 - \$10,000

Contact: Fred Potthoff
(612) 941-9470

FARGO ELECTRONIC SERVICES, INC.
7150 Shady Oak Road
Eden Prairie, MN 55344

Direct Marketing and Mail Order Management System

Operating System: DSM (MUMPS)

Keywords: • Data base management • Management
• Presentation aids

This series of modules demonstrates the expertise of Interactive Systems & Management Corp., which has special expertise in tailoring and designing direct marketing and mail order management systems. Systems implemented by ISM include direct mail, catalog, continuity programs, direct response advertisement, and package inserts.

A customer usually retains us first to produce customized specifications, which are then translated into an operational system.

A version of this product is available for the VAX computer.

Price: \$15,000 – \$100,000 +

Contact: Alexander J. Phillips, President
(201) 256-7633

INTERACTIVE SYSTEMS & MANAGEMENT CORP.
1500 Cardinal Drive
Little Falls, NJ 07424

Fedder Sales Analysis System

Operating System: ULTRIX, UNIX

Keywords: • Cost accounting • Data base management
• General ledger • Query facilities

The Fedder Sales Analysis System provides for 2-year histories with trend analysis for products, categories, customers, and salespeople. The system is used with the Fedder Foresight™ System. The data base includes sales, costs, and commissions on a month-by-month basis for up to 24 months. A companion sales prospect management system (Market Master) plus a user-friendly query report writer are available.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: David E. Fedder
(301) 539-2121

FEDDER SOFTWARE, INC.
P.O. Box 27149
Baltimore, MD 212300149

Fedder Wholesalers System

Operating System: ULTRIX, UNIX

Keywords: • Accounting • Billing • Inventory • Wholesale

This comprehensive integrated real-time interactive system provides for order entry with back-order control, invoicing, inventory control, accounts receivable, sales analysis, and commission reporting. The system also includes scientific inventory management with computed sales forecasts, computed reorder points, economic order quantities,

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24-month sales history by customer and product, sales, and profit and trend analysis by customer, category, salesperson, and products. Commission computations, quantity break price matrix, and contract pricing are all included. Companion purchasing, receiving, payables, payroll, fixed asset, and general ledger systems are also available.

Wholesaler, distributors, and manufacturers with finished goods inventories can use the Fedder Wholesalers System.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: David E. Fedder
(301) 539-2121
FEDDER SOFTWARE, INC.
P.O. Box 27149
Baltimore, MD 212300149

Marketab®

Operating System: ULTRIX, UNIX

Keywords: • Data collection • Financial analysis • Statistics

Marketab facilitates fast, accurate, and systematic processing of questionnaires and other survey data. Marketab is used by the market research industry, advertising agencies, financial institutions, and tabulation service bureaus.

Marketab's three principal phases with supporting utilities cover every aspect of the processing of survey data, from the initial editing of raw data, through any required adjustments, to the final tabular printouts.

Marketab has the following features:

- Any data file may be processed, as well as multipunched (column binary).
- Comprehensive editing eliminates inaccuracies.
- Final tabulations are formatted to meeting management requirements.
- Security is ensured, since tabulating can be done on an "in-house" basis.
- The tab system produces table and page numbers, plus a complete table of contents.
- Survey tabulations from multiple-wave studies may be combined into a single report without retabulation.
- Market tabulations are formatted for ease of reference.

A version of this product is available for the VAX computer.

Price: \$40,000 – \$50,000
Contact: Harold Zadwanski
(203) 853-7511
MNEMONICS, INC.
280 Connecticut Avenue
Norwalk, CT 06854

A Marketing Strategy Simulation for Minicomputers

Operating System: RSTS, RSX

Keywords: • Automotive • Decision support
• Presentation aids • Simulation

Memory required: 16K.

These programs provide a competitive marketing situation for up to five teams (companies) per industry. Each company makes product, pricing, advertising, distribution, production, and marketing research decisions for three types of automobile. The programs load parameters, receive decisions, update history, determine market shares, and generate financial statements and instructor summaries. The simulation may be run for 20 consecutive quarters. DECUS number 11-425.

Note: Minor modifications may be needed in data file protection schemes.

Price: \$5 – \$225
Contact: DECUS (see Introduction)

NMI Customer Profile Package

Operating System: UNIX

Keywords: • Manufacturing • Order entry • Report writer
• Scheduling

The NMI Customer Profile Package is for manufacturer's representative firms. It keeps track of all information concerning the firm's salespeople, customers, and principles. It allows the salesperson to plan a schedule with call-planning and itinerary charts. It keeps track of sales volume history, in terms of salespeople, for the generation of commissions; of customers, in terms of open orders; and of principles, in terms of commissions payable and open invoices. A full range of reports is available to the user, to be printed at any time. Batch entry of commission information is a feature of the system, which is also compatible with most UNIX*-based word processors and all Version 7 utilities.

*UNIX is a trademark of AT&T Bell Laboratories.

Price: \$995
Contact: Mac McLaughlin, Inside Sales
(201) 953-9223
NORTON-MURPHY INTERNATIONAL, INC.
123 Claremont
Bernardsville, NJ 07924

Order Entry Processing

Operating System: RSX

Keywords: • Accounting • Distribution • Inventory
• Project management

This sales order processing software is designed to track orders, backlog, and sales activity. The software may be operated independently or as part of an integrated package including accounts receivable, accounts payable, general ledger, payroll, job cost accounting, and inventory control.

The program provides fully interactive processing; table-driven input data specifications, allowing you to decide what data is to be maintained for each sales order and each line item; table-driven reports with user-specified format and contents; and full integration with accounts receivable so that orders are automatically marked shipped and backlog is automatically reduced when invoicing is done.

A version of this product is available for the VAX computer.

Price: \$4,000 +

Contact: Janna McMillan
(617) 275-5810

BREUER & CO.
54 Middlesex Turnpike
Bedford, MA 01730

Order Processing for Mailing List Rental

Operating System: RT-11, TSX-PLUS

Keywords: • Mailing lists • Order entry • Sales analysis
• Wholesale

This program handles brokered (sold directly to end users), wholesale, and managed lists (purchased directly from the list owner). Orders are entered with purchase order data, and the complete order history for the list order is displayed. That allows usage control (managed lists) and the information needed to omit previous orders on repeated usage of a list. Purchase orders are generated. After invoicing, payables and receivables are posted to standard receivable and payable packages. Reports are generated showing list rental activity for the list owners by mailing list and by mailer (end user). A purchase order log, an invoicing log, and a sales analysis by list category are also provided.

The program is intended primarily for small to medium-sized companies that rent mailing lists but do not run them off internally. However, source is available, and the package can be modified for larger companies that want to tie the package in directly with their list production.

Price: \$6,000 – \$12,000

Contact: Bernard Littman
(213) 222-6670

BERNARD LITTMAN & ASSOCIATES

3889 West Point Drive
Los Angeles, CA 90065

Perspective/500 Sales Analysis

Operating System: RSTS

Keywords: • Accounts receivable • Cost accounting • Credit
• Financial analysis

Every line item that is sold — stock item, nonstocked, special, or standard — will reside in a Monthly Sales Transaction File. That transaction contains the customer number, the item number, the invoice number, the date of the sale, the quantity sold, the quantity ordered, the unit price, and the selling price of the item, in addition to other information.

This sales transactional file is used to develop a variety of Sales Analysis reports showing, for instance, sales by customer for a month or for year to date and compared to sales for the preceding year. The transaction file could be sorted and a report printed showing all the sales of a particular item in item sequence and compared to the sales for the previous period. The transaction file could be processed by salesperson to provide sales by salesperson. Any of the data in the transactional record can be used as the basis for providing an analytical comparative report.

A version of this product is available for the VAX computer.

Price: \$15,000 – \$50,000

Contact: Michael B. Andelman, President
(312) 953-2220

LIOCS CORP.

246 E. Janata Boulevard
Lombard, IL 60148

PROS (Prospect, Letter, and Sales Facility)

Operating System: RSTS

Keywords: • Data base management • Data entry
• Presentation aids • Report writer

PROS is a software package that includes data entry for letter, prospect, and sales information; data base inquiry and maintenance; personalized letter generation; customized label generation; and comprehensive report generation. This package requires the following "SYSGEN" parameters: alphabetic month and a minimum of two pseudokeyboards.

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PROS is designed for high efficiency and ease of use to aid the small business, corporate division, or institution in its mailing requirements and/or search for prospective customers. Using this facility for mailing and storing prospect/customer correspondence greatly enhances sales efficiency.

A version of this product is available for the VAX computer.

Price: \$8,000

Contact: Muriel King
(801) 224-5306

CLYDE DIGITAL SYSTEMS, INC.
3707 N. Canyon Road, Suite 3-E
Provo, UT 84604

RealWorld™ Sales Analysis

Operating System: RSX, RT-11, ULTRIX, UNIX

Keywords: • Financial analysis • Inventory • Office systems
• Point of sale

The Sales Analysis system locates specific areas of increasing or decreasing sales and allows a close analysis of the components vital to increasing revenues. Data from this system assists in formulating marketing and sales strategies.

The system features sales analysis by customer, customer type, customer sales volume, responsible salesperson, state, item, item category, and item sales volume and also includes password protection.

A version of this product is available for the VAX computer.

Price: \$795

Contact: Larry Wilber
(603) 798-5700

REALWORLD INC.
Dover Road
Chichester, NH 03263

S/A (Sales Analysis)

Operating System: RSTS

Keywords: • Calculation aids • Financial analysis

The Sales Analysis system is closely integrated with Data Key's Accounts Receivable system in that it relies on the A/R sales document entries for its detail. The system is flexible in that revenue can be analyzed using product codes, branch numbers, salesperson numbers, customer numbers, and/or various combinations of those. The corresponding costs (or units sold) can be maintained so that gross margin calculations can be illustrated on the reports. The option to retain budget data is also provided so that comparisons to the figures can be given with various calculations. For example, reports include

an analysis by product or product group, analysis by salesperson by product, and analysis by branch. In addition, a product sales journal lists the revenue detail.

Price: \$1,000

Contact: Barry Logan, Vice President
(604) 276-2622

DATA KEY LTD.
1A 12880 Bathgate Way
Richmond, B.C. V6V 1Z4
Canada

Sales Analysis

Operating System: RSTS

Keywords: • Decision support • Financial analysis

Sales Analysis is an on-line reporting module that helps management make informed business decisions and provides customer, salesperson, and product information for current periods, year to date, and defined combination. Full maintenance capability is provided for changing, adding, or deleting pertinent information.

A version of this product is available for the VAX computer.

Price: \$6,900 – \$33,500

Contact: Marketing Department
(502) 491-9820 or 1-800-626-6268

AMCOR COMPUTER CORP.
1900 Plantside Drive
Louisville, KY 40299

STATUS

Operating System: CP/M86, CTS-300, RSTS, RSX, RT-11

Keywords: • Accounts receivable • Forecasting
• Report writer • Word processing

STATUS is a sales tracking and analysis system that provides sales call-up, sales follow-up, and call forecasting with word processing interaction. The system is designed to respond to inquiries with current information, to anticipate and initiate call notices, to forecast future periods, and to level work loads. Sales dates are automatically maintained by customer contact and reason for follow-up. All customer characteristics are captured and updated via a series or customized program. Output includes entries to order entry, invoicing, accounts receivable, payroll, and general ledger files and product line, product sales, and commission calculation reports. The system automatically maintains information necessary for promotional mailing, telephone management, word processing, sales reporting, and territory tracking.

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STATUS applies to all industries but is best suited to sales or marketing organizations or sales departments in small and medium-sized companies.

A version of this product is available for the VAX computer.

Price: \$1,500 – \$3,600

Contact: Michael W. Rohrbach
(617) 235-8830

INTERNATIONAL MARKET RESOURCES, INC.
38 Garden Road
Wellesley Hills, MA 02181

Service Industries



Black Star Publishing Company/Albert Steiner

Abax Rental Management System

Operating System: CTS-300, RSTS, RT-11, TSX-PLUS

Keywords: • Accounts receivable • Inventory • Maintenance
• Point of sale

The Abax Rental Management System is designed to fully automate a wide variety of rental firms. Consisting of accounts receivable, inventory control, and depreciation (other accounting applications are also available), the system may be used either at the rental counter or strictly in after-the-fact accounting of business activity — or both.

Highlights of the system begin with contract entry, which uses reservations, messages, kits, volume discounts, and customer scanning by name or category. Pricing of both rental and sales items is accomplished through a unique system that allows up to six prices per inventory item, based on time, quantity used, 1-time charge, or any other pricing unit required. The codes can be selected from an unlimited number built to define specific pricing needs. In addition to contracts, the system provides several useful management and accounting reports.

A version of this product is available for the VAX computer.

Price: \$9,500 – \$13,500

Contact: Charles R. McKown, President
(316) 663-5041

ABAX COMPUTER SYSTEMS
P.O. Box 1097
Hutchinson, KS 67504

AMPS (Automatic Menu Preparation System)

Operating System: CTS-300, RT-11

Keywords: • Data collection • Data entry • Forecasting

AMPS performs food usage forecasting for the vending and food service industries. The system maintains menus, predicts requirements, generates ingredient lists, and automatically learns and self-corrects.

Price: \$1,000 – \$4,000

Contact: Milan R. Dabovich
(617) 227-5405

DATA INTELLIGENCE SYSTEMS CORP.
19 Monsignor O'Brien Highway
Cambridge, MA 02141

Collection-Plus

Operating System: RSTS

Keywords: • Banking • Credit • Government • Medical

Collection-Plus is designed to increase profitability by optimizing the operations of a collection department. The program can be used by any organization with more than four collection employees. Prime beneficiaries include medical, financial, government, and utilities organizations.

Each collector has a workstation where accounts are presented in order of importance to management. A scheduling program determines those priorities on a daily basis from a list of 64 debtor attributes, including balance, days outstanding, days since last payment or contract, presence or absence of assets, missed or met promises, and so on. The collector is not involved in that scheduling and merely requests the next account on the list. Up to 16 dunning letters (in four languages) can be automatically sent by the scheduler in presort zip code order.

Management can easily change the scheduling criteria. Reports provide the collection rate of individual letters and collector efficiency. Support for a color graphics terminal reveals useful statistical trends. Full accounting and legal processing are included.

The program features unlimited debtor history available in three keystrokes. Accounts are presented to the collector by management criteria. Letters and calls in response to previous debtor activity versus batch processing can be accommodated. Debtors can be matched and linked. That provides an on-line paperless data base environment. New business can be entered from tape or keyboard. The menu-driven design is very easy to use and learn. Use of the program can triple employee efficiency and yield a 25% increase in collection rate.

Price: \$20,000 – \$50,000

Contact: Jodd Readick
(212) 595-8800

INT'L COMPUTER COLLECTIONS, INC.
Box 443 Ansonia Station
New York, NY 10023

COLOR (Color Consultants Information System)

Operating System: RT-11

Keywords: • Decision support • Query facilities
• Sales and marketing

This package consists of self-administered questionnaires plus prompts for a beautician analyzing a client's personality, lifestyle, color preferences, and personal dimensions. The output consists of wardrobe suggestions and beauty recommendations plus descriptive client files for follow-up services. Additional modules include wardrobe inventory, clothing purchase plan, and records of the individual's color palette and textural preferences.

Programs are written in FORTRAN IV. Two double-density RX02 disks are required.

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Decision rules can be updated to accommodate changing fashions and to include an individual beautician's personal recommendations.

Price: \$1,200 – \$2,000

Contact: David Bradwell, Ph.D., President
(415) 479-4980

DAVID BRADWELL AND ASSOCIATES, INC.

Economic Consultants
880 Las Gallinas Avenue
San Rafael, CA 94903

Fedder Auto/Truck and Equipment Dealers System

Operating System: ULTRIX, UNIX

Keywords: • Automotive • Billing • Operations
• Property management

This system includes all the features of the Fedder Foresight™ and Auto Parts System plus provisions for service order writing, maintenance contract billing, rental billing, equipment/vehicle maintenance history, and service person productivity analysis.

The system is suitable for auto and truck, farm implement, and copy machine dealers; air conditioning and appliance sales and service; marinas; boat sales and service; private airports; airplane dealers; and any type of equipment dealership.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: David E. Fedder
(301) 539-2121

FEDDER SOFTWARE, INC.
P.O. Box 27149
Baltimore, MD 212300149

Fedder Equipment Maintenance and Field Service System

Operating System: ULTRIX, UNIX

Keywords: • Accounts receivable • Billing • Inventory
• Order entry

Fedder Equipment Maintenance and Field Service System with service order writing/billing and parts inventory control is an extension of the Fedder Foresight™ System and provides a detailed maintenance history and cost per unit (time period, mileage, or number of copies). Productivity by technician is also provided.

A version of this product is available for the VAX computer.

Price: \$8,750

Contact: David E. Fedder
(301) 539-2121
FEDDER SOFTWARE, INC.
P.O. Box 27149
Baltimore, MD 212300149

Fedder Food/Beverage and Route Sales System

Operating System: ULTRIX, UNIX

Keywords: • Accounts receivable • Billing • Inventory
• Order entry

This system, a specialized version of the Fedder Foresight™ System, includes Rapent™ high-speed order entry, preprinted sales orders with customers' purchase history, driver settlement accounting, invoices printed in truck route and stop sequence, and manifests and load sheets provided with facilities to easily shift stops to balance loads. Chain-store tonnage and alcohol control commission reports are provided at modest added cost.

The overall system includes accounts receivable, inventory control, sales analysis, and commission reporting. Companion systems are available for purchasing accounts payable, payroll, general ledger/financial reporting, and fixed assets accounting.

This system is suited specifically to food and beverage distributors and is easily adapted to the needs of anyone selling to Sears or Wards chain stores.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: David E. Fedder
(301) 539-2121
FEDDER SOFTWARE, INC.
P.O. Box 27149
Baltimore, MD 212300149

Fedder Invoicing and Inventory Control

Operating System: ULTRIX, UNIX

Keywords: • Billing • Inventory • Order entry
• Sales and marketing

This system, an add on to the Fedder Accounts Receivable System, provides virtually all the capabilities of the complete Fedder Foresight™ Inventory System but does not allow order entry or back orders. Sales analysis and commission reporting are included.

The system is suitable for any mercantile or service establishment and can be expanded to complete the order entry system.

A version of this product is available for the VAX computer.

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Price: Available upon request

Contact: David E. Fedder
(301) 539-2121

FEDDER SOFTWARE, INC.

P.O. Box 27149

Baltimore, MD 212300149

FOCIS (Food Operation Control and Information Systems)

Operating System: RSX

Keywords: • Accounting • Cost accounting
• Financial management • Inventory

The FOCIS system is a comprehensive financial and operational accounting package designed for the food service industry. Key features include sales analysis, inventory and recipe control, vendor and labor analysis, A/P, A/R and G/L, payroll, financials, and POS data communications.

A version of this product is available for the VAX computer.

Price: \$10,000 – \$35,000

Contact: Stephen Henry, Director of Marketing
(203) 633-4646

FOOD SERVICE SYSTEMS GROUP, A DIV. OF
COMPTECH, INC.

10 Commerce Street

Glastonbury, CT 06033

Grocery Management System

Operating System: RSTS

Keywords: • Distribution • Facilities management
• Inventory • Point of sale

This easy-to-operate, economical, and comprehensive computerized management and analysis system improves profit and reduces overhead expenses. The system consists of 12 interactive programs specifically designed for the grocer and includes grocery inventory, meat processing programs, check cashing, ad analysis, accounting package, and word processing.

The Gondola sales-to-space analysis program delineates which inventory items are faster movers and which items yield the highest gross profit margins. The program allows the grocer to control inventory, direct store delivery vendors, and profit margins and will help eliminate nonmovers and will allow analysis of slow movers as a percentage of gross profit. An analysis is done to determine how much space each individual item deserves according to movement and revenues generated by that item.

The Direct Store Delivery program tracks vendors' deliveries for efficient management of inventory quantity and space allocation. The Time and Attendance program keeps wage percentages under control. The program yields reports according to revenue periods, telling when to have employees on hand and how many. Employee scheduling is departmentalized.

A version of this product is available for the VAX computer.

Price: \$1,500 – \$20,000

Contact: William R. Paschal, Jr.
(405) 843-7323

DATATEK CORP.
818 N.W. 63rd
Oklahoma City, OK 73116

HIMS (Hospitality Information Management System)

Operating System: RSTS

Keywords: • Accounts payable • Cost accounting • Inventory
• Sales analysis

HIMS is a complete back-office inventory and accounting system designed for a multilocation foodservice operation, either with or without a central commissary. HIMS provides for inventory control, tracking food and supply items from initial receiving through any processing, shipment to serving locations, and sale of the final product.

HIMS includes recipe explosion, automatic unit-of-measure conversion, sales analysis, gross profit analysis, picking lists, inventory adjustments, physical inventory variance reporting, and month end summary. Costing can be done on either a last-cost or weighted-average basis. The HIMS system can be modified to poll POS cash registers.

HIMS uses single entry of documents to reduce paper handling. When an invoice is entered, for example, the inventory quantity is updated, the unit cost of the item is updated, and the invoice is set up for payment.

Optionally available interfaced modules include forecasting, accounts payable, general ledger, payroll, and accounts receivable. These modules do not have to be purchased if not needed.

Price: \$7,000 – \$12,000

Contact: John E. Charles, Manager, Data Processing
(804) 649-0351

GARY, STOSCH, WALLS & CO., CPAs
700 E. Main Building, Suite 1700
Richmond, VA 23219

Hospitality Management System

Operating System: RSTS, RT-11, TSX-PLUS

Keywords: • Accounting • Data collection • Query facilities

A completely integrated reservations, guest accounting, and back office accounting system developed for the hospitality industry, this system is based on three basic principles: ease of use, auditability, and security. Designed for ease of transition from function to function, the system displays options for the user and prompts for all necessary information.

A version of this product is available for the VAX computer.

Price: \$15,000

Contact: Gary L. Bennett
(801) 484-4496

COMPUSOLV
391 Ironwood Drive
Salt Lake City, UT 84115

Innkeepers Management System

Operating System: RSX

Keywords: • Accounts receivable • Employment
• Financial analysis • Statistics

This is a complete hotel or condominium front office and back office system. The front office system includes reservations, registration, guest history, cashiering, night audit, marketing analysis, maid management, city ledger, and interfaces for point-of-sale posting machines and HOBIC or telephone call accounting systems.

The back office system includes general ledger, accounts payable, payroll, and an optional accounts receivable system for receivables that are not carried on the city ledger.

The condominium features include reservation-fair rotation to ensure that business is spread evenly among all owners, automatic posting to owners' accounts and preparation of owners' statements, and special housekeeping reports that highlight back-to-back occupancy.

Program updates are available over the telephone through computer-to-computer communications.

Price: \$20,000 - \$30,000

Contact: Richard Knox
(805) 255-3552

KNOX DATA
23030 Lyons Avenue
Newhall, CA 91321

Oil Burner Service/Inventory

Operating System: RSTS

Keywords: • Cost accounting • Inventory • Maintenance
• Petroleum

This application software addresses the most demanding areas of burner service. From the moment the customer calls and a work order is requested, the system can track the progress of that work order until completion, ultimately producing multiline invoices showing (at the user's option) reasons for call, parts used, work done, prices, taxes and amount due, as well as special messages. The parts inventory aspect of the package keeps track of quantity, tracks costs, automatically prices the invoice, and excludes charges for parts and/or labor covered by service contracts. Although the information posted to the system is entered in abbreviated format (defined by the user), the system maintains a complete history of those calls in clear English on each account for several years. Management reports include Profit by Customer, Parts Usage by Mechanic, and Overall Department performance. Automatic cleaning tickets and contract renewals are also accommodated.

A version of this product is available for the VAX computer.

Price: \$10,000 – \$20,000

Contact: Bruce A. Bott, President
(201) 584-4026

ADVANCED DIGITAL DATA, INC.
354 Route 206
Flanders, NJ 07836

PCO (Pest Control Operators Management System)

Operating System: RSX, RT-11

Keywords: • Accounting • Inventory • Sales and marketing
• Scheduling

PCO manages route and service activity, including route master, route planning, service scheduling, route sheets, route billing, service history, and other functions — billing, commissions, sales analysis, accounts receivable, accounts payable, purchasing, inventory control, general ledger, and financial reporting.

Price: \$6,000 – \$9,000

Contact: Harmon Houghton, Director of Marketing
(201) 348-6688

UNEX COMPUTER DIVISION
1023 Boulevard East
Weehawken, NJ 07087

RAS (Route Accounting System)

Operating System: CTS-300, RT-11

Keywords: • Inventory • Scheduling

RAS provides route accounting for the vending and food service industries. Scheduling, general business functions, reconciliation inventory control, commission check writing, and so forth are included.

Price: \$4,000 – \$20,000

Contact: Milan R. Dabovich
(617) 227-5405

DATA INTELLIGENCE SYSTEMS CORP.
19 Monsignor O'Brien Highway
Cambridge, MA 02141

Travel System 4/11

Operating System: RSTS, RSX, UNIX

Keywords: • Accounts receivable • Scheduling • Statistics
• Word processing

Travel System 4/11 is an on-line reservation and management system for tour and coach operators and travel companies. The system provides for route structure, holiday/tour packages, charting, planning, on-line reservations and space checking, and relevant documentation as produced and linked to an integrated accounting system. Word processing, statistical analysis, forecasting, and management/hotel/holiday maintenance systems are also featured.

Benefits include:

- Daily analysis
- Periodic summary of requirements
- Accurate monitoring of transactions
- Automatic fares restructuring — off-peak periods, off days
- Flexible route and service structuring
- Statistical analysis enabling forecasting of peaks and troughs
- Cancellations and alterations of bookings
- Processing of open returns
- Running cost per mile per coach/tour/holiday package
- Closer control on accounts receivable

A version of this product is available for the VAX computer.

Price: \$4,500 – \$40,000

Contact: H. B. H. Reporter, Managing Director
021 352 0011

FOURTH DIMENSION PRODUCTS LTD.
Ryknild House
Burnett Road
Sutton C'Field, West Midlands B74 3EL
United Kingdom

Vehicle Cost and PM

Operating System: CTS-300

Keywords: • Automotive • Maintenance • Scheduling

This comprehensive free-standing module of programs informs the user when vehicles are due for scheduled maintenance and captures costs by repair codes and by vehicle. Costs per mile are also calculated by repair code and by vehicle.

The system is centered on four files: Vehicle Master, containing all pertinent information about the vehicle; Repair Master, containing the repair function and the charge category; Preventive Maintenance Master, which determines the repair functions to be performed on the vehicle at coded mileage intervals; and Repair History, which holds cost information by vehicle by repair code.

Maintenance transactions are entered directly on a CRT as repair functions are performed. Those transactions are entered by vehicle and repair category. The transactions include the cost expended, hours expended (if applicable), and the odometer reading when the function was performed. When all maintenance transactions have been entered and balanced, the master files are updated. The Vehicle Master is updated with the cost by category (parts, labor, other) and the current odometer reading. The Preventive Maintenance Master is updated with the odometer reading when the function was done. The repair history is updated with the cost by vehicle by repair category.

A Vehicle Maintenance-Due Report lists the vehicle and the repair function to be performed. The next time that the function should be performed is calculated, based on the mileage at the last repair and the repair interval. The function will be flagged if the odometer reading of the next scheduled repair is less than the current odometer reading.

A History by Vehicle Report shows year-to-date and total-to-date costs and cost per mile by repair code, by vehicle. A summary is printed by repair code, showing cost and cost per mile. A History by Cost Code Report shows year-to-date and total-to-date cost by vehicle and repair code.

Price: \$1,500 – \$2,000

Contact: Robert J. Steinis
(203) 378-6010

FOOD DISTRIBUTOR SYSTEMS, INC.
959 Main Street
Stratford, CT 06497

Transportation



CRAS (Car Rental Agreement System)

Operating System: CTS-300, RT-11

Keywords: • Accounting • Automotive • Credit • Taxes

This system allows for daily transactions to be recorded for the initiation and/or completion of a car rental agreement. Breakdowns offered include mileage charges, rental, drop charges, tax, collision, P.A.I., gasoline, and so on. Transactions can be credit card charges or cash.

All transactions interface with the general ledger system, in which only the charged sales interface with the accounts receivable system. Special reports include the Summary of Credit Card Charges, Vehicles Out Summary, Master Vehicles Listing, and Bad Accounts List.

The Fixed Asset System allows for the monitoring of long- and short-term lease arrangements. Depreciation is automatically charged out by straight line or declining balance each month to produce a Fixed Assets report showing the new book value.

A version of this product is available for the VAX computer.

Price: \$5,000

Contact: Nigel Harris
(613) 829-8888

HARRIS COMPUTER SYSTEMS
16 Credit Union Way
Nepean, Ontario K2H 8R6
Canada

E M D A Super Car Rental and Control System

Operating System: RT-11

Keywords: • Accounting • Automotive • Inventory
• Order entry

This modular system for use by car rental agencies having from 100 to 5,000 cars may be run as a back room system with one person entering all information or can be expanded to a completely on-line real-time system with CRT terminals and slaved printers at each check-out or check-in station. The system provides complete car control; printed customer rental agreements; on-line check-in; dispatch, ready-line, and garage and maintenance controls; reservations; car selection at check-out; and instant status check of the cars in the fleet. E M D A is a complete system that ends with the daily business report and can then be interfaced to existing accounting systems.

E M D A has been upgraded to run on personal computers in its smallest form. Since the system is modular, modules may be purchased separately. For large installations, E M D A runs on multiple MICRO-11s linked in a local area network. For small installations, the system can run on a MICRO-11 or Professional 350 series computer.

A version of this product is available for the VAX computer.

Price: \$800 – \$45,000

Contact: Edwin J. Stevens
(213) 795-5991

E M D A INC.
111 South Hudson Street, Suite B
Pasadena, CA 91101

FLEET™

Operating System: RSTS

Keywords: • Cost accounting • Financial analysis
• Maintenance

FLEET develops a complete analysis of the operating costs of a fleet of motor vehicles, heavy construction equipment, manufacturing machinery, or other units having either an odometer or an hour meter. In addition to the cost analysis, the package also issues preventive-maintenance reminders, based on a set of 99 user-defined parameters.

The package accumulates a period's total costs by cost categories and by vendor and simultaneously accumulates the total of the individual cost occurrences by cost categories for each specific unit. Individual fuel, repair, or cost vouchers are entered at random and according to any user-defined frequency or period. An individual unit's accumulated miles or hours can be entered with each cost voucher or once at the end of the period.

For reporting purposes, units can be subdivided into logical groups for closer operating cost comparisons.

A version of this product is available for the VAX computer.

Price: \$6,000

Contact: Nathan I. Lieberman
(812) 479-6951

EVANSVILLE DATA PROCESSING CORP.
1010 S. Weinbach Avenue, P.O. Box 2469
Evansville, IN 47714

Flight Watch

Operating System: CTS-300, RSTS, RT-11

Keywords: • Aeronautics/aerospace • Inventory
• Maintenance • Scheduling

Flight Watch is a complete aviation management package for corporate flight departments, fixed-base operators, charter and commercial operators, as well as regional airlines. Flight Watch includes aircraft maintenance; inventory management; a scheduling system for passengers, aircraft, and crew; a charter quote and billing system; departmental financial and operational reports; and a complete set of general accounting packages for FBOs.

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The maintenance system features an aircraft status report, maintenance-due report, maintenance cards, inspection lists, and history report of all scheduled and unscheduled maintenance. The maintenance system also includes a subassembly and parts transfer system, rotatable parts inventory, and current information on all ADs and SBs.

The scheduling system features automatic trip scheduling, crew scheduling, trip tickets and flight log processing, charter quotes and billing, and various management reports, including charter trip analysis, audit of trip changes, scheduling status, gar/aro requirements, crew examination requirements, and daily status — crew/aircraft, aircraft utilization, pilot currency, pilot time, and flight history.

A version of this product is available for the VAX computer.

Price: \$14,000 – \$35,000

Contact: Ben D. Farmer, President
(404) 452-7654 or (800) 241-6805
ASCO FLIGHT WATCH, INC.
3066 Mercer University Drive
Atlanta, GA 30341

K-Squared System

Operating System: RSX

Keywords: • Information management • Report writer

This turnkey computer system is dedicated to the total control of equipment management from parts inventoried to mechanic labor and from vehicle maintenance history to fuel control. The system integrates and maintains all the information from itemized details to broad summary reports and is available to the common carrier, private carrier, utilities, air lines, cities, and municipalities.

A version of this product is available for the VAX computer.

Price: \$15,000 – \$180,000

Contact: Steve Fischer
(609) 924-2500
GELCO MAINTENANCE SYSTEMS
Research Park, 32 Wall Street
Princeton, NJ 08540

RAFT (Revenue Accounting for Truckers)

Operating System: CTS-300, RT-11

Keywords: • Accounting • General ledger • Maintenance
• Payroll

RAFT, developed for the short-haul and long-haul trucking company, consists of four modules:

- Revenue Accounting (Probilling)
- Vehicle Equipment Costing and Maintenance

- General Ledger and Financial Statements
- Payroll

The Revenue Accounting module uses the probill as entry to the system and updates both receivables and various statistics, including customer history, employee performance, and traffic flow. This module also produces weekly invoices and monthly statements.

Probills are retained on an open-item basis and are paid either on an individual or a weekly basis. Statistics are also produced for delivery efficiency upon entry of the probill "pink" (delivery copy).

A version of this product is available for the VAX computer.

Price: \$5,000

Contact: Nigel Harris
 (613) 829-8888
 HARRIS COMPUTER SYSTEMS
 16 Credit Union Way
 Nepean, Ontario K2H 8R6
 Canada

TAPS (Transportation Accounting Packages)

Operating System: RSTS

Keywords: • Accounts receivable • Billing • General ledger
 • Sales and marketing

The TAPS system takes care of the accounting functions for the trucking company — from free-form invoicing through state reporting — and includes accounts payable, general ledger, accounts receivable, miles and gallons reporting, owner-operator settlement programs, and sales analysis.

A version of this product is available for the VAX computer.

Price: \$10,000 – \$20,000

Contact: Anthony J. Ruggeri
 (314) 644-4050
 AUTOMATED INFORMATION INC.
 6710 Clayton Road
 St. Louis, MO 63117

Utilities



Robert V. Eckert Jr./The Picture Cube

Accounts Receivable Status

Operating System: RSTS

Keywords: • Accounts receivable • Billing • Data entry
• Telecommunications

Accounts Receivable Status gives the telephone company a complete on-line file of billing-related information for each customer. The system also allows on-line data entry of new account setups, payments, and completed service order information.

Information filed by the system includes billing name and address, member number, service and equipment, recurring charges, directory listings, credit information, deposit and interest, current month, toll transactions, amount due, last payment date, and 30, 60, and 90 days past-due amounts. All service order-related information for new connects, reconnects, and disconnects is entered as history or is transferred from the Service Order System.

The system allows printing of reminder notices on demand, using the company's own criteria for which customers should receive reminders.

Used with Allied's batch TRA/TOL, Accounts Receivable Status allows the smaller computer system to run on-line data without prohibitive expense. Optional reports from the subscriber master file include mailing labels, name and address, and customer credit card files for the printing of credit cards.

Price: Available upon request

Contact: Bob Morse
(206) 456-3535
ALLIED DATA
P.O. Box 2406
Olympia, WA 98507

CMDS (Computerized Mapping and Diagram System)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Education • Electrical • Engineering
• Mapping

CMDS has been designed to meet the special mapping needs and budgetary constraints of small- and medium-size utilities and their consultants. It is adaptable to almost any geographic base.

The major features of CMDS are:

- The layers of geographic features, such as roads, lakes, subdivision, and so on, are selected by the user, as are the layers of electrical utility lines or other facilities.
- The user develops symbols for plotting items, such as road signs, protective devices, transformers, poles, switches, and capacitors.
- Subdivisions can be digitized from original plats and fitted into the base maps.

- The Distribution Primary Analysis (DPA) data can be created by CMDS and can reside within the mapping data base (only one data base to maintain).
- The user selects the scale of each map and the items to be plotted.
- Other facilities, such as telephone, gas, water, sewers, and so on, may be layered.
- The user can develop work order drawings, including instructions to crews.

CMDS requires a tablet digitizer and a Calcomp-compatible plotter in addition to a computer.

A version of this product is available for the VAX computer.

Price: \$27,500

Contact: Walter G. Scott
(314) 576-7727

SCOTT & SCOTT CONSULTANTS, INC.
1180 Toreador Drive
St. Louis, MO 63141

COMIT (Communications Management Information Tool)

Operating System: RSTS, RSX, RT-11

Keywords: • Cost accounting • Networking • Statistics
• Telecommunications

COMIT is a cost allocation/network and traffic analysis package for telephone systems. It provides call detail by extension, cost center, department, and company, using the latest AT&T rates. COMIT has extensive network management and traffic statistics capabilities, which include usage reports by area code and exchange, comparison of existing WATS, FX, and DDD to other common carries (MCI, SPRINT, SBS, and others) to determine the least-cost facilities for placing the calls, and a breakdown of traffic by hour/day/month. COMIT also includes exception reports, such as high-cost/long-durations calls, high-volume call reports to selective numbers, and searches on specific numbers, plus a complete directory service. COMIT can store up to 800,000 call records, depending on the configuration, and can produce complete billing statements as an option. COMIT is a complete stand-alone system that will work with any telephone system; it can also be used under a full service bureau arrangement.

A version of this product is available for the VAX computer.

Price: \$5,000 - \$18,000

Contact: Steve Anderson
(616) 949-9360

PROFESSIONAL COMPUTING RESOURCES, INC.
985 Parchment S.E.
Grand Rapids, MI 49506

Customer Service Inquiry System

Operating System: RSTS

Keywords: • Information management • Telecommunications

The system provides fast, easy access to service, equipment, and line assignment information and works with the Accounts Receivable Status system to maintain plant information (versus billing information) for each customer. Initial inquiry can be done by telephone number, service name, service address, equipment assignment number, cable (and optionally pair), added main line (AML) number, and Carrier System (CXR) number and channels.

Six inquiry screens available pertain to service and plant-related information within Customer Service Inquiry. History information from other related systems (Trouble Ticket, Service Order) is available in summary and detail when those systems are used.

Price: Available upon request

Contact: Bob Morse
(206) 456-3535
ALLIED DATA
P.O. Box 2406
Olympia, WA 98507

DPA (Distribution Primary Analysis)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Education • Electrical • Engineering

DPA is an interactive on-line family of programs for the engineering studies associated with the planning, design, and operation of electrical distribution systems. The major features of DPA are:

- The electrical and physical parameters of the system are stored in a permanent data base.
- On-line editing, including on-line switching, permits the engineer to simulate almost any operating condition.
- Analysis programs provide voltage levels, unbalanced current flow, line losses, line loading, fault currents, and capacitor placement.
- Single-line diagrams of the feeders may be plotted from the DPA data base.
- DPA options include a system to extract data, using a tablet digitizer and menu, and the software to plot feeder single lines.

A version of this product is available for the VAX computer.

Price: \$27,500

Contact: Walter G. Scott
(314) 576-7727
SCOTT & SCOTT CONSULTANTS, INC.
1180 Toreador Drive
St. Louis, MO 63141

DTM (Distribution Transformer Management)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Education • Electrical • Engineering

DTM is a family of five on-line interactive programs. The transformer model may be used to simulate almost any banking arrangement, such as line-to-ground single-phase, open wye, open delta, and combination single-phase/three-phase. The analytical model uses the transformer models to determine loading levels, demand losses, energy losses, and loss-of-life probability. The load model simulates a variety of loading cycles and can impose the resultant demand requirements on the analytical model (hourly, daily, weekly, or annual). The energy interface model obtains customers and energy usage by class of service by transformers from customer billing records and imposes these data on the analytical model. The economic model interfaces with the analytical model to determine present worth of a transformer configuration, based on costs over its life. Costs used in the model include investment, interest, installation, removal, replacement, demand losses, energy losses, and loss of life.

Utilities use DTM to obtain answers to such engineering/economic questions as:

- What sizes and types of transformers should be stocked?
- How should bids be evaluated?
- What are the best sizes for a particular installation?
- What are the loads on existing transformers?
- When should a transformer be replaced?

DTM also includes the files and interface software to transmit transformer sizes, customers, energy usage, and spot loads to the Distribution Primary Analysis (DPA) data base.

A version of this product is available for the VAX computer.

Price: \$750

Contact: Walter G. Scott
(314) 576-7727

SCOTT & SCOTT CONSULTANTS, INC.
1180 Toreador Drive
St. Louis, MO 63141

Economic Optimization of Distribution Losses

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Education • Electrical • Engineering

This all-inclusive system was especially developed for:

- Modeling the major components of a distribution system over a selected time frame such as 10 years
- Analyzing the components to isolate technical losses (demand and energy)

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- Computing the cost of losses, using marginal demand and energy prices
- Enabling the engineer to reduce losses through alternative corrective actions such as adding capacitors
- Economically evaluating the construction and loss costs for the alternatives (annual costs and present worth of annual costs)

This system consists of a load model to derive load and loss duration factors, a station power transformer model, a primary and secondary system model (a special version of DPA), a distribution transformer model, a construct cost model, and economic analyses.

A version of this product is available for the VAX computer.

Price: \$7,500

Contact: Walter G. Scott
(314) 576-7727

SCOTT & SCOTT CONSULTANTS, INC.
1180 Toreador Drive
St. Louis, MO 63141

EUBA (Electrical Utility Billing and Accounting)

Operating System: CTS-300

Keywords: • Accounting • General ledger • Inventory
• Payroll

EUBA is a complete, interactive system designed for electric utility companies. The system includes a comprehensive billing system that encompasses all aspects of producing bills, making adjustments, keeping statistics and history, reporting, and transformer loading. The system also includes general ledger, financial statements, payroll, accounts payable, inventory, P.O. system, estimating, work order processing, and costing.

The software conforms to AMEU accounting practices and regulations.

A version of this product is available for the VAX computer.

Price: \$16,000 – \$25,000

Contact: Nigel Harris, President
(613) 829-8888

HARRIS COMPUTER SYSTEMS
16 Credit Union Way
Nepean, Ontario K2H 8R6
Canada

Gamma Spectroscopy

Operating System: RSX, RT-11

Keywords: • Instrumentation • Medical • Nuclear
• Scientific

The Gamma Spectroscopy package is a set of programs for the quantitative analysis of high-resolution gamma-ray spectra. Programs in the package include a peak determination routine, an isotope activity calculation, environmental background subtraction, and system calibration routines. The peak determination program allows multiple resolution (deconvolution) of up to 10 peaks in a single region, yielding peak area, energy, and statistics. The environmental background routine includes background subtraction, correction for interfacing or unresolvable peaks, and a weighted-mean activity calculation for isotopes having multiple peaks.

An optional quality assurance package provides a means to verify and record spectroscopy system performance over time.

All programs are written in FORTRAN.

A version of this product is available for the VAX computer.

Price: \$4,250 – \$8,500

Contact: Bob Schlossmann, Product Support Engineer
(312) 884-3627

NUCLEAR DATA INSTRUMENTATION DIVISION
Golf and Meacham Roads
Schaumburg, IL 60196

General Ledger System

Operating System: RSTS

Keywords: • Financial planning • General ledger
• Telecommunications

The General Ledger System for telecommunications and telephone companies is a comprehensive system providing financial statements in a variety of formats.

Accounts are established with an account number, account name, and financial statement code that controls the format for profit and loss and balance sheet reports. Budget amounts and prior-year comparisons can be entered. The system can also produce supporting schedules and a source cross-reference.

The General Ledger System can optionally interface with the Payroll, Vehicle Ledger, Accounts Payable, and Work Order systems.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Bob Morse
(206) 456-3535

ALLIED DATA
P.O. Box 2406
Olympia, WA 98507

MLF (Microarea Load Forecast)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Education • Electrical • Engineering
• Graphics

MLF is a family of on-line interactive programs that provide a definitive short- and long-range load forecast for the planning of distribution systems. The forecast is for discrete, small areas, or cells, rather than for macro, or large-area, forecasts used for generation and transmission planning. MLF is based on the socioeconometric parameters that dictate future load levels, such as land use, zoning, population, income, and the correlations between population and commercial/industrial electrical needs.

The user is in complete control of the forecast from beginning to end, with all of the following variables at the user's fingertips:

- Cells — quantity, size, and year of initiation
- Consumer classification — residential, commercial, industrial, and institutional
- Zones — city center, urban, suburban, and rural
- Saturation — vacancy level
- Population — people per dwelling
- Energy factors — kWh/acre by consumer class
- Demand factors — kW by consumer class

MLF includes the software to form the data base via forms and screen-formatted input or by extracting land use from the zoning maps with a tablet digitizer and menu. MLF also includes the software to transfer the forecasted demands and growth rates directly into the Distribution Primary Analysis (DPA) data base for analysis and planning.

MLF will be modified to meet special needs at software consulting rates.

A version of this product is available for the VAX computer.

Price: \$950

Contact: Walter G. Scott
(314) 576-7727

SCOTT & SCOTT CONSULTANTS, INC.
1180 Toreador Drive
St. Louis, MO 63141

NaI Data Reduction

Operating System: RT-11

Keywords: • Instrumentation • Medical • Nuclear
• Scientific

The NaI program provides a least-squares fit of an unknown spectrum to spectra of up to 10 standards. The program, using the algorithms of the ALPHA-M program written at Oak Ridge National Laboratory, is designed to resolve spectral data collected from sodium iodide or other

low-resolution detectors into its component parts. The user specifies the type of analysis to run and the number of possible components in the unknown spectrum. Inconsistent results are flagged for further investigation.

Price: \$1,000

Contact: Dan Murphy, Product Support Engineer
(312) 884-3627

NUCLEAR DATA INSTRUMENTATION DIVISION
Golf and Meacham Roads
Schaumburg, IL 60196

Neutron Activation Analysis

Operating System: RSX, RT-11

Keywords: • Instrumentation • Medical • Nuclear
• Scientific

This package provides quantitative analysis of samples through either the comparative method or the reactor flux monitoring method. The comparative technique allows multiple standards for each chemical element, averaging results for all standards to calculate a calibration coefficient. The flux monitoring method is internal in methods of standardization.

This package is written in FORTRAN and is structured to allow easy user customization.

A version of this product is available for the VAX computer.

Price: \$3,750

Contact: Tom Meyers, Product Support Engineer
(312) 884-3627

NUCLEAR DATA INSTRUMENTATION DIVISION
Golf and Meacham Roads
Schaumburg, IL 60196

OGA\$ (Oil and Gas Accounting System)

Operating System: RSTS

Keywords: • Accounting • Payroll • Petroleum
• Report writer

OGA\$ is a computer-based interactive, integrated accounting and financial system specifically tailored to satisfy the special information needs of the small to medium-size oil and gas company. Some of the features include the ability to handle multicompany operations with automatic intercompany transactions; instant access to all data files; interactive data entry and editing; and integration of the accounts payable, payroll, AFE, joint interest billing, and revenue distribution systems with the general ledger, with transactions between those systems made automatically.

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OGA\$ provides these applications:

- Accounts payable: Complete processing of invoices with general ledger distributions, aging of payables, cash requirements forecasting, and printing of voucher checks
- General ledger/financial statements: Profit and loss statement, balance sheet, budgetary and comparative financials, audit trails, AFE reporting, and transaction reporting by lease
- Joint interest billing: Preparation of investor invoices and statements, accounts for prepayments by owner by lease, and recording of operator's share in general ledger
- Revenue distribution: Maintenance of revenue suspense and wind-fall profits excise tax data, preparation of revenue distribution checks, and purchaser-oriented entry of revenue items
- Management reporting: Lease-well history reporting for property management and for payout status, lease cash flow reports for tax reporting, and lease economic analysis
- Lease records: Complete tracking of lease inventories, rental forecasts, critical-date monitoring, preparation of partner billings, and rental checks
- Payroll features: Preparation of payroll checks, maintenance of payroll history, handling of rig payrolls by rig/job, and preparation of W-2 reports

A version of this product is available for the VAX computer.

Price: \$30,000 – \$75,000

Contact: Larry D. Gatlin
(915) 697-3104

TECHTRONIC DATA SYSTEMS, INC.

P.O. Box 5562
Midland, TX 79704

ORS (Outage Reporting and Analysis System)

Operating System: CTS-300, RSTS, RSX, RT-11

Keywords: • Education • Electrical • Engineering
• Scheduling

ORS is a family of on-line interactive programs for:

- Establishing a data base containing details concerning all distribution outages: location of caller, time (received, off, dispatched, on), dispatched to, device tripped and location, priority (sickness, dairy, and so forth), weather, portion of system affected, cause, and number of consumers (from DPA).
- Printing a summary of outages at any time: month to date, calendar year to date, previous 12 months to date.
- Creating special printouts on which the user selects the time period (dates), location, and one of the following: cause, device, system, weather. The others are variables that may be sorted at the discretion of the user.

The Outage Reporting System is used to determine reliability levels, pinpoint areas with high outage rates, locate devices with a high failure rate, determine probable emergency crew needs under various weather conditions, assess efficiency of emergency procedures and personnel, and increase quality of service at lower cost.

This system has the interface software to access the (DPA) data base to obtain customers out of service and lost energy.

A version of this product is available for the VAX computer.

Price: \$1,950

Contact: Walter G. Scott
(314) 576-7727

SCOTT & SCOTT CONSULTANTS, INC.
1180 Toreador Drive
St. Louis, MO 63141

Payroll System

Operating System: RSTS

Keywords: • Employment • Payroll • Telecommunications

The Payroll System for telecommunications and telephone companies is designed to automate the payroll process. The system establishes an employee master file, including name, address, hourly or pay-period salary rates, as well as other pertinent information and can also be used to establish accounts based on general ledger codes to expense salaries.

Time sheet data and hours worked can be entered daily, weekly, or monthly. When time sheets are entered, the employee number and expense codes are validated against the master file to ensure accuracy.

The system automatically calculates salary, taxes, FICA, deductions, and sick and vacation pay; updates employee year-to-date totals; and produces payroll checks and payroll reports.

The system produces quarterly 941/5208 reports showing quarter-to-date hours and amounts for FICA, federal withholding tax, and State Disability Insurance Liability. At the end of the year, W-2 forms can be printed.

The Payroll System also has the ability to optionally interface with the Vehicle Ledger, Work Order, and General Ledger systems.

Price: Available upon request

Contact: Bob Morse
(206) 456-3535
ALLIED DATA
P.O. Box 2406
Olympia, WA 98507

RADWASTE

Operating System: RSX

Keywords: • Inventory • Nuclear • Scheduling
• Warehousing

This FORTRAN program tracks radioactive waste through the two main stages of waste processing — on-site storage and shipment to the burial site. The user is allowed to define the container type, physical form of waste, storage location, activity, and nuclide content and activity. Automatic spectral analysis is permitted via Canberra's SPEC-TRAN-F or APOGEE programs. Manual nuclide entry is also permitted, as well as complete file maintenance and editing.

Designed in accordance with 49 CFR 173 and 10 CFR 61, this program generates inventory reports, Reg. Guide 1.21 semiannual reports, and other weekly and periodic summary reports. As with all Canberra software, human interfacing has been provided to ensure ease of use and minimal user training.

A version of this product is available for the VAX computer.

Price: \$50,000

Contact: Gary Laskowski
(203) 238-2351

CANBERRA INDUSTRIES, INC.
One State Street
Meriden, CT 06450

REACT

Operating System: RSTS

Keywords: • Accounting • Credit • Electrical
• Information management

REACT is a complete data processing system designed for electric utility companies. The system includes a complete consumer billing system (approximately 500 programs), payroll, general ledger, accounts payable, materials and supplies, and a complete work order system, including maintenance of continuing property records. For rural electric co-ops, the system also includes a complete capital credit system. This software was designed specifically for electric utilities and fully conforms to all REA and DOE accounting standards, as well as to known PURPA regulations.

In addition, the system offers as options a full selection of management information applications, including financial forecasting, vehicle analysis, bad-debt service order management, and a full distribution engineering system that includes transformer load management, voltage-drop calculations, short-circuit analysis, TVA reporting, outage reporting, transportation, utilicorder, and service order management.

A version of this product is available for the VAX computer.

Price: \$35,000 – \$250,000

Contact: H. V. Bonds, Jr.
(803) 799-4094

DIGITAL SYSTEMS, INC.
P.O. Box 12
Columbia, SC 29202

RECAP

Operating System: RSTS

Keywords: • Accounting • Government
• Information management • Payroll

RECAP is a complete data processing system designed for municipal governments and governmental utilities. The system includes a complete consumer billing system (approximately 500 programs) that allows for simultaneous or separate billing of electric, water, sewerage, gas, refuse, and steam. Financial applications are also included to provide payroll, general accounting (fund, encumbrance, appropriations, budget), accounts payable/purchasing, materials and supplies, and a complete work order cost accounting system, which includes maintenance of continuing property records. This software conforms to all REA, TVA, and DOE accounting standards, as well as to known PURPA regulations.

In addition, the system offers as options a full selection of management information applications, including vehicle analysis, bad-debt service order management, fixed assets, electronic spreadsheet, TVA reporting, outage reporting, transportation, utilicorder, and service order management. A full electrical distribution engineering system is available that includes transformer load management, voltage-drop calculations, and switching studies.

A version of this product is available for the VAX computer.

Price: \$35,000 – \$250,000

Contact: H. V. Bonds, Jr.
(803) 799-4094

DIGITAL SYSTEMS, INC.
P.O. Box 12
Columbia, SC 29202

TASCAL

Operating System: RSX

Keywords: • File management • Nuclear • Quality control
• Scheduling

The TASCAL software, a useful scheduling tool for managers at nuclear facilities, allows list generation for tasks to be executed, overdue tasks, and completed tasks, to name a few.

The design allows for separate files for each department or a general file that contains all the tasks for the facility. Written in FORTRAN and supported by menu-driven techniques and simple user dialog, this program provides a powerful tool for the manager concerned with time management and the scheduling of activities.

A version of this product is available for the VAX computer.

Price: Available upon request

Contact: Robert Loesch
(203) 238-2351 ext. 352
CANBERRA INDUSTRIES, INC.
One State Street
Meriden, CT 06450

UTIANA-IMPRS Utility Analysis System

Operating System: RSTS, RSX, RT-11

Keywords: • Data base management • Data collection
• Facilities management • Query facilities

This system records up to three years of monthly power, gas, water, and telephone information; summarizes total information by building number and meter number; provides complete on-line inquiring/processing; allows for easy interactive reporting of all files; is completely menu driven; uses security passwords to control access; provides automatic master file backups; and performs extensive on-line editing and balancing.

A version of this product is available for the VAX computer.

Price: \$2,500

Contact: Elvin E. Smith or Forrest E. Weddle
(913) 782-8544
RUF CORP.
1533 E. Spruce
Olathe, KS 66061

Utility-11

Operating System: CTS-300, RSTS, RT-11

Keywords: • Billing • Maintenance • Report writer

Utility-11 is a comprehensive utility billing and reporting package. It is designed to provide on-line inquiry into customer information and to provide flexibility in maintenance of utility customer information, water rates, electrical rates, meter readings, and sewer/sanitation rates.

A version of this product is available for the VAX computer.

Price: \$5,580 – \$10,290
Contact: Ronald R. Kirchhoff, President
 (306) 293-4286
 KMK ENTERPRISES, INC.
 302 West 8th
 Plainview, TX 79072

Vehicle Ledger System

Operating System: RSTS

Keywords: • Automotive • General ledger • Maintenance
 • Telecommunications

The Vehicle Ledger System for telephone and telecommunications companies provides an automated vehicle and information report that traces operating expenses for company vehicles. Vehicles, expenses, and operators are individually identified. The monthly Vehicle Ledger report reflects total hours and costs and provides detailed information in the form of corresponding hourly dollar values for each period of operation. The report further cross-references general ledger and work order numbers. In addition, the Vehicle Ledger System maintains a master file on each vehicle with hourly rates.

Price: Available upon request

Contact: Bob Morse
 (206) 456-3535
 ALLIED DATA
 P.O. Box 2406
 Olympia, WA 98507

Work Order System

Operating System: RSTS

Keywords: • Order entry • Project management
 • Telecommunications

The Work Order System for telecommunications and telephone companies is designed to track all costs associated with a project. Overhead control records are established, determining overhead, percentages, range or ranges of general ledger accounts, and what clearing account is to be credited when the work order is closed.

The system segregates charges by inside labor and material, outside labor and material, and overhead. A work order analysis is available that shows current month and project-to-date charges for each work order, segregated by type. The system also allows inquiry on the current status of work orders.

Optional interfaces include the Payroll, Accounts Payable, Vehicle Ledger, and General Ledger systems.

808 Utilities

Price: Available upon request

Contact: Bob Morse
(206) 456-3535
ALLIED DATA
P.O. Box 2406
Olympia, WA 98507

ZIPSORT-11

Operating System: RSX

Keywords: • Programming tools

ZIPSORT-11 is a comprehensive sort and merge utility that optimizes main storage and execution time requirements.

Price: \$700 +

Contact: Charles Munitz
(617) 868-1111
CAMBRIDGE COMPUTER ASSOCIATES
222 Alewife Brook Parkway
Cambridge, MA 02138

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Attendance Reporting System	●	○	○	○	○	214
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Data Conversion

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CPLIB	○ ○ ○ ○	736
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DCPAC (Data Conversion Package)	○ ○ ○ ○	657
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File Transfer System	● ○ ○ ○	327
J/PICS (Process Information and Control System)	○ ● ○ ○	592
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MIS (Management Information System)	● ○ ○ ○	555
poly-XFR™ CP/M® Communications	● ● ● ○	700
Rave	○ ● ○ ○	298
RETCON	○ ○ ● ○	300
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How to Have Your Software Product Listed

If you have a software product that runs on a PDP-11 or a VAX computer and you wish to have your software product included in a DIGITAL Software Source Book, read the following information and fill out the Entry Form, which follows.

The Entry Form closely follows the format used for entries. Fill out a form as follows:

1. **Extra Forms:** Use one form for each product; if necessary, photocopy extra forms on 8½" x 11" paper. If the form has been removed from the book, you can get an additional form by writing to the address shown at the end of these instructions or by calling (617) 493-3200.
2. **Typing:** Please type all entries.
3. **Software Title:** If the name of the product is an acronym, list it as follows: ACRONYM (Title in Words) — for example, STAT-PAC (Statistical Package for Psychologists). Another sample title is: ZBASE (Data Base for Financial Data Retrieval). Note that in both cases, the "title in words" provides a brief description of the program.
4. **Operating System:** Check off as many PDP-11 and VAX operating systems as apply. Do not include other operating systems.
5. **Industries/Keywords:** These are used for data base and cross-reference purposes. First, circle a **boldfaced** item that most nearly corresponds to your product's industry or generic discipline. Next, check off up to four other industries or keywords (boldfaced or not) that apply to your product.
6. **Price Range:** List a price or price range for your product. If your software product is sold under a flexible pricing policy, indicate the minimum and maximum prices.
7. **Contact Person:** List the name, telephone number, company name, and address of the person responsible for supplying additional information about the product.

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8. **Description:** Type a description in the space provided, beginning with a 1-sentence statement of what the product does. State the product's key features and any limitations. If you need more space, attach a typed sheet, but please limit the description to **one** typewritten page.
9. **Completion:** Fill out the form completely. If you are submitting multiple forms, fill out each form completely, even though many items are repeated (company name and so forth).
10. **Signature:** Each form **must** be signed to be included in the book.
11. **Deadline:** The DIGITAL Software Source Books are published twice a year. From time to time, DIGITAL will cut off submissions for forthcoming editions. Submissions received after the cut-off date will appear in the next edition.
12. **Photocopies:** Since mail sometimes gets lost, we recommend that you photocopy your originals before sending them.
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