



2000 BASIC CONTRIBUTED LIBRARY HANDBOOK

ADDENDUM TO VOLUMES I, II, III, IV MAY 1975

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INTRODUCTION

This addendum to the HP BASIC Contributed Library includes documentation for all new and revised programs since the reprint of June 1974. There are 30 new packages and 18 revisions to existing library programs.

Please replace existing documentation with revised documentation and add the new documentation to each of your volumes.

INDEXES

Two indexes to the complete BASIC Library are also included:

Alphabetical Index
Cross Reference Index

The page describing Revised Programs should be helpful in updating your library software and documentation.

How to Order This Addendum

Contact your local HP sales office to order this addendum:

HP 36000-92001 2000 BASIC
Contributed Library Handbook
Addendum

How to Order Library Software

All of the programs (New & Revised documented in this addendum and which operate on the 2000 Series System are available on the single magnetic tape, part number HP 36600A-10001 or 36600A-11001, priced at \$133. This Mag tape contains all of the software for the entire library, volumes 1-5 and this addendum. The programs for this addendum is stored in account Z906 and C906.

DIRECT MAIL

Customers in the U.S. are encouraged to order Contributed Library software and manuals via Direct Mail by sending check or money order to Hewlett-Packard Co., Mail Order Department, P.O. Drawer #20, Mountain View, Ca. 94043. Direct Mail Orders must include \$1.50. A Direct Mail Order Form is included in this addendum. Contact your local HP sales office for prices and assistance in placing orders.

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NAME	TITLE	VOLUME
ATG	:COMPUTER ORIENTED ACCOUNTING - INTERACTIVE VERSION	4
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EXTADD	:40 DIGIT PRECISION STRING ADDITION	2
FDUMP	:LISTS FILES, TOTAL RECORDS, INDICATES STRINGS & NUMERICS	1
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PTUD	:PILOT TUTORIAL	4
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UHCX	:COMPLEX NUMBER CALCULATOR	2
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USECON	:TESTING ECONOMIC HYPOTHESES	4

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NAME	TITLE	VOLUME	REASON FOR REVISION
ACNODE:AC	CIRCUIT ANALYSIS PROGRAM	2	<i>Documentation change only. Page 3 "X=REAL PART OF G_m (mhos)"</i>
ANVAR1:ANALYSIS OF VARIANCE FOR A RANDOMIZED ONE-WAY DESIGN		2	<i>Documentation change only. The variable A is calculated on line 9012 and does not have to be entered.</i>
BITEST:BINOMIAL PROPORTION		2	<i>Corrects one line. 9410 PRINT "9105 LETG=5";G5+1</i>
CHEM1 :CAI	IN CHEMISTRY	4	<i>FILES statement corrected for use in A000 ID.</i>
DECSN :TOP	MANAGEMENT DECISION GAME	3	<i>Documentation only updated to be compatible with 2000F system.</i>
EDIT2K:TEXT EDITOR FOR THE HP 2000C/2000C'/F		1	<i>New corrected version of software.</i>
EXTPRE:40-DIGIT PRECISION MATHEMATICS		2	<i>Improved, faster version of software.</i>
FINDIT:INFORMATION RETRIEVAL SYSTEM		1	<i>1 line corrected in "SEARCH" program. 1203 IF NOT J(K) THEN 1210</i>
FRQ :FREQUENCY BETWEEN BOUNDARIES		2	<i>Corrects 4 lines. 1175 IF M=M2 THEN 1160 1535 LET M(1)=M2 2195 LET D\$="XX" 865 IF D\$="XX" THEN 980</i>
GDPA :EFFICIENT 'CORNER' PORTFOLIOS		3	<i>Adds Program GDPA2 to software.</i>
GSIMEQ:SIMULTANEOUS LINEAR EQUATIONS		2	<i>Line 343 added to program. 343 PRINT "DO NOT BEGIN AN EQUATION WITH A MINUS SIGN".</i>
HELLO :TYPES DATE, TIME, AND PORT NUMBER ON TERMINAL		1	<i>Shortened version of software with faster response time during log-on.</i>
INZOUT:INPUT/OUTPUT ANALYSIS ON ECONOMIC FLOWS		3	<i>4 lines corrected in program. 9432 LET J=I 9440 LET J=I9 9445 LET D(J)=D 9450 LET T(J)=D(J)/D(I9)</i>
MORGAG:MORTGAGE ANALYSIS		3	<i>Corrects 1 line. 630 R1=R</i>
MULTX :LEAST-SQUARES FIT, MULTIPLE Y'S PER X		2	<i>Corrects 1 line. 8012 GOTO 9022</i>
SNOBOL:SNOBOL3 COMPILER FOR HP 2000C SYSTEM		4	<i>1 line corrected in program "SNOBOL". 9020 CHAIN \$SNOBER</i>
STAT16:COMPUTES AN ANALYSIS OF VARIANCE TABLE AND F-RATIOS		2	<i>Corrects 1 line. Change line 9891 to 9904.</i>
TITLE :CHARACTER GENERATION		1	<i>Program 'CHRGEN' added to generate the file "CHAR".</i>

August 1976

ALPHABETICAL INDEX

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ZASCII:ASCII CODE GENERATOR		36257A
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ZAIRE :QUESTIONNAIRE ANALYSIS		36807A
ABAGEL:TRY TO GUESS THE COMPUTER'S 3-LETTER WORD		36783A
ABASE :GUESS MY NUMBER...IN BASE 2 OR 5 OR 8 OR ...		36848A
ACZI :COMPUTER AIDED PRACTICE IN EE AC ANALYSIS		36152A
ACNODE:AC CURCUIIT ANALYSIS PROGRAM		36057A
ACTFIL:ACTIVE FILTER DESIGN		36293A
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ALERA :PROPAGATION OF ERROR		36603B
ALFPOV:ALPHA TO VARIABLE CONVERSION		36296B
ALGIE :BASIC ALGEBRA DRILL		36851A
AMAZE :GET A RANDOM MAZE TAILORED TO THE SIZE YOU CHOOSE		36858A
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ANNUIT:ANNUTY ANALYSIS		36074A
ANOVA :FACTORIAL ANALYSIS OF VARIANCE (FIVE-WAY, FOR ANY BALANCED DESIGN)		36870A
ANOVA3:THREE FACTORIAL ANALYSIS OF VARIANCE		36271A
ANVAI :ONE-WAY ANALYSIS OF VARIANCE USING SAMPLE MEANS AND STD. DEVIATIONS		36871A
ANVAR1:ANALYSIS OF VARIANCE FOR A RANDOMIZED ONE-WAY DESIGN		36039B
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ANVAR4:TWO-WAY ANALYSIS OF VARIANCE FOR A TWO-WAY EXPERIMENT		36173A
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ASCIIZ:CREATES AN ASCII FILE CONTAINING ALL 256 ASCII CHARACTERS		36256B
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ATWT :CALCULATES ATOMIC WEIGHT		36613A
AVERG1:AVERAGES AND CURVES GRADES		36340B
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BALSHT:PROFORMA INCOME STATEMENT AND BALANCE SHEET		36075A
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BASE :BASE CONVERTER		36796A
BASP :BASIC ANALOG SIMULATION PROGRAM		36888-18022
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	PROGRAM NUMBER	VOLUME		PROGRAM NUMBER	VOLUME
CASSETTE			COMPUTER SCIENCE		
CTC6 : CTC ACCOUNTS PAYABLE	36638A	3	ALERA : PROPAGATION OF ERROR	36603B	4
CHARACTER/SYMBOL MANIPULATION (104)			BRAIN : BRAIN SIMULATOR PROGRAM	36219A	4
ZASCII : ASCII CODE GENERATOR	36257A	1	HPASMB : HP ASSEMBLER PACKAGE	36806B	4
ALFTOV : ALPHA TO VARIABLE CONVERSION	36296B	1	PZHYP : SCIENTIFIC METHOD AND HYPOTHESIS	36759A	4
ASCIIZ : CREATES AN ASCII FILE CONTAINING ALL 256 ASCII CHARACTERS	36256B	1	PZTUA : PILOT TUTORIAL	36758B	4
CALNDR : PRINTS A CALENDAR	36288A	1	PZTUB : PILOT TUTORIAL	36775A	4
CHARS : ASCII CHARACTER SET	36220A	1	PZTUC : PILOT TUTORIAL	36877A	4
DATER : DATE AND DAY OF THE WEEK	36298B	1	SNBOL : SNOBOL3 COMPILER FOR HP 2000C SYSTEM	36849B	4
FORMAT : ALLOWS SPECIAL FORMATTING OF DATA PRINTOUT	36005B	1	STOP : COMPUTER LITERACY - PSEUDO-MACHINE LANGUAGE	36208B	4
FORMIF : F AND I FORMAT	36612A	1	STPAL : STOP MACHINE AND ASSEMBLY LANGUAGE SIMULATOR	36765A	4
GTAPID : PAPER TAPE TITLER	36548A	1	TM : TURING MACHINE SIMULATOR	36743A	4
HELLO : TYPES DATE, TIME, AND PORT NUMBER ON TERMINAL	36125C	1	CONTINUOUS SYSTEMS SIMULATION (607)		
PRINT : GENERATES LARGE LETTERS	36299A	1	BASP : BASIC ANALOG SIMULATION PROGRAM	36888-18022	4
STGINT : STRING-INTEGGER CONVERSIONS	36176A	1	GSSS : SMALL SYSTEMS SIMULATOR	36552A	3
SYSDAT : SYSTEM DATE UTILITY	36634A	1	CONVERSION		
TIMER : TIME OF THE DAY	36297B	1	DCZOC : DECIMAL-TO-OCTAL CONVERTER	36747A	2
TITLE : CHARACTER GENERATION	36114C	1	OCZDC : OCTAL-TO-DECIMAL CONVERTER	36712A	2
UCHARS : CREATES FILE 'VCHAR'	36560A	1	COOLEY-TUKEY		
CHEMICAL ENGINEERING (516)			GFPT : GENERAL FAST FOURIER TRANSFORM	36030A	2
DEBYE : COMPUTES DEBYE OR EINSTEIN FUNCTION	36059A	2	RTCFPT : REAL TO COMPLEX FAST FOURIER TRANSFORM	36029B	2
CHEMISTRY (507)			CORRELATION ANALYSIS (409)		
ATOM : DERIVES THE ELECTRONIC CONFIGURATION OF ANY ELEMENT	36705A	4	ANVAR4 : TWO-WAY ANALYSIS OF VARIANCE FOR A TWO-WAY EXPERIMENT	36173A	2
ATWT : CALCULATES ATOMIC WEIGHT	36613A	4	CORREL : CORRELATION COEFFICIENT	36689A	2
AVOGA : AVOGADRA'S NUMBER	36614A	4	MULREG : MULTIPLE REGRESSION/CORRELATION	36178A	2
CALORI : CALORIMETRY EXPERIMENT	36314A	4	PSRC : POWER SERIES REGRESSION CURVE WITH X-AXIS OFFSET	36793A	2
CHEM : SELF-CORRECTING CHEMISTRY TEST	36295B	4	CRITICAL PATH ANALYSIS (603)		
CHEM1 : CAI IN CHEMISTRY	36878B	4	CPATH : CRITICAL PATH EVALUATION	36171B	3
DECAY1 : RADIOACTIVE DECAY GAME	36306A	4	GCPATH : CRITICAL PATH ANALYSIS	36504A	3
DECAY2 : NUCLEAR DECAY	36307A	4	GCPM1 : CRITICAL PATH ANALYSIS	36505A	3
ELEMENT : DRILL ON SYMBOLS FOR CHEMICAL ELEMENTS	36267A	4	CROSS REFERENCE		
EMPIR : CALCULATES EMPIRICAL FORMULAS	36615A	4	XREF : BASIC LANGUAGE PROGRAM CROSS-REFERENCE GENERATOR	36143C	1
EQUILL : EQUILIBRIUM SYSTEMS	36308A	4	CURVE FITTING (309)		
IONIC : DRILL ON FORMULAS AND CHARGES OF IONS	36260A	4	CRVFT : LEAST-SQUARES CURVEFITTING	36633A	2
IONIC1 : DRILL ON FORMULAS OF IONIC COMPOUNDS	36266A	4	CURFIT : PERFORMS LEAST SQUARES FIT	36038D	2
ISOMER : DRILL ON NAMING ALKANES	36261A	4	DBLFT : LEAST SQUARES FIT TO POINTS WITH UNCERTAINTIES IN BOTH VARIABLES	36252A	2
KINET : KINETIC REACTION	36309A	4	POLYTE : FITS LEAST-SQUARES POLYNOMIALS	36246A	2
MASSD : MASS DEFECT	36310A	4	POLY : POLYNOMIAL APPROXIMATION	36188A	2
MOLAR : ACID-BASE TITRATION	36616A	4	PSRC : POWER SERIES REGRESSION CURVE WITH X-AXIS OFFSET	36793A	2
ORG1 : TEACHES STRAIGHT ALKANE NOMENCLATURE AND NAMING OF BRANCHED ALKANES	36826A	4	DATA COMMUNICATIONS		
ORG5 : TEACHES NOMENCLATURE OF ALKYL HALIDES AND ALCOHOLS	36888-18011	4	MESSAG : INTERTERMINAL COMMUNICATOR	36284A	1
ORGCH : DRILL ON ORGANIC COMPOUND NOMENCLATURE	36646A	4	DATA HANDLING UTILITIES (108)		
PHOSYN : PHOTOSYNTHESIS EXPERIMENT	36305A	4	CALNDR : PRINTS A CALENDAR	36288A	1
PHPOH : PH, POH, PCT, DISSOCIATION	36617A	4	COFTAB : CONVERSATIONAL FREQUENCY AND CROSS TABULATOR	36888-18020	2
PRCNT : PERCENT COMPOSITION	36311A	4	DATER : DATE AND DAY OF THE WEEK	36298B	1
SPCTRA : OPTICAL ABSORPTION SPECTRA SIMULATION, 2-SPECIES EQUILIBRIUM MIXTURES	36184A	4	EDITOR : FILE MANIPULATION - CREATES, EDITS, LISTS, SORTS, EMULATES G.E. MK II.	36749A	1
STOICH : MASS VOLUME	36618A	4	FDUMP : LISTS FILES, TOTAL RECORDS, INDICATES STRINGS & NUMERICS	36888-18037	1
TZCPL : THERMOCOUPLE TABLE PACKAGE	36654A	2	FILDUM : PAPER TAPE FILE DUMP	36008C	1
TITER : SIMULATES TITRATION OF A BASE BY AN ACID	36888-18006	4	FILES : FILE MANIPULATION - CREATES, SORTS, UPDATES, COPIES, CHANGES FORMAT	36645B	1
TRIVIA : COMMON NAME QUIZ FOR CHEMISTRY STUDENTS	36888-18012	4	FILIN : KEYBOARD FILE LOADING PROGRAM	36007A	1
CIVIL ENGINEERING (515)			FILIS : FILE LISTING PROGRAM	36272A	1
BEMDES : RECOMMENDS CORRECT STEEL BEAM USE	36109A	2	FILIST : LISTS FILE CONTENTS BY RECORD NUMBER	36009D	1
CODE/RADIX CONVERSION (105)			FILMAN : FILE MANAGER	36006A	1
ALFTOV : ALPHA TO VARIABLE CONVERSION	36296B	1	FILOAD : LOADS A FILE FROM THE TELETYPE	36010C	1
COMPLEX			FILREA : REENTERS THE DATA TAPE DUMPED BY FILDUM	36011A	1
CDETER : COMPUTES VALUE OF COMPLEX DETERMINANT	36025A	2	FILRPT : REPORTS FILE CONTENTS AND STRUCTURE	36247A	1
CTRFFT : COMPLEX TO REAL FAST FOURIER TRANSFORM	36028A	2	FMS : FILE MANAGEMENT SYSTEM	36648A	1
CXSYSS : SOLVING SYSTEMS OF COMPLEX LINEAR EQUATIONS	36262A	4	HELLO : TYPES DATE, TIME, AND PORT NUMBER ON TERMINAL	36125C	1
FNCTS : COMPUTES TRIG FUNCTIONS FOR COMPLEX ARGUMENTS	36017A	2	HPMLIT : LIST/DUMP HP ASSEMBLER FILES	36218A	1
GFPT : GENERAL FAST FOURIER TRANSFORM	36030A	2	JULIAN : JULIAN CALENDAR FOR THE CURRENT YEAR	36197A	1
ROOTS2 : QUADRATIC EQUATION SOLVER	36625A	4	LODUMP : FILE LOAD/DUMP	36644A	1
RTCFPT : REAL TO COMPLEX FAST FOURIER TRANSFORM	36029B	2	PI2 : INFORMATION SYSTEM	36737A	1
COMPLEX ARITHMETIC (303)			SLAB : SYSTEM LIBRARY ABSTRACTS	36647A	1
COMPLX : CAI IN ALGEBRA OF COMPLEX NUMBERS	36153A	4	SYSDAT : SYSTEM DATE UTILITY	36634A	1
CXARTH : VECTOR ARITHMETIC	36118B	2	TIMER : TIME OF THE DAY	36297B	1
CXEXP : VECTOR EXPONENTIATION	36119A	2			
FNCTS : COMPUTES TRIG FUNCTIONS FOR COMPLEX ARGUMENTS	36017A	2			
SOLVER : SOLVES COMPLEX SIMULTANEOUS EQUATIONS	36149A	4			
UHXC : COMPLEX NUMBER CALCULATOR	36888-18005	2			

	PROGRAM NUMBER	VOLUME
DEBUGGING AIDS (211)		
XREF : BASIC LANGUAGE PROGRAM CROSS-REFERENCE GENERATOR	36143C	1
DECIMAL		
DC2OC : DECIMAL-TO-OCTAL CONVERTER	36747A	2
OC2DC : OCTAL-TO-DECIMAL CONVERTER	36712A	2
DETERMINANT		
CDETER : COMPUTES VALUE OF COMPLEX DETERMINANT	36025A	2
DIFFERENTIAL		
DEZ1OR : 1ST ORDER DIFFERENTIAL EQUATION	36032A	2
DEZ2OR : 2ND ORDER DIFFERENTIAL EQUATION	36033A	2
SLOPE : FINDS DERIVATIVES	36626A	4
DISCRETE SYSTEMS SIMULATION (606)		
DECSN : TOP MANAGEMENT DECISION GAME	36065C	3
GSSS : SMALL SYSTEM SIMULATOR	36552A	3
GVOTE : COMMITTEE CHOICE ANALYSIS	36550A	3
MZM1 : QUEUEING SYSTEM	36655A	3
MZM2 : QUEUEING SYSTEM	36656A	3
DISCRIMINANT ANALYSIS (403)		
COFTAB : CONVERSATIONAL FREQUENCY AND CROSS TABULATOR	36888-18020	2
DUMPING (207)		
FDUMP : LISTS FILES, TOTAL RECORDS, INDICATES STRINGS & NUMERICS	36888-18037	1
FILDUM : PAPER TAPE FILE DUMP	36008C	1
FILMAN : FILE MANAGER	36006A	1
FMS : FILE MANAGEMENT SYSTEM	36648A	1
HPLMT : LIST/DUMP HP ASSEMBLER FILES	36218A	1
LODUMP : FILE LOAD/DUMP	36644A	1
DUPLICATION (106)		
CTRFET : COMPLEX TO REAL FAST FOURIER TRANSFORM	36028A	2
DYNAMIC PROGRAMMING (610)		
DYNPRO : DYNAMIC PROGRAMMING MODEL	36067A	3
SHORTR : SHORTEST ROUTE PROBLEM	36610A	3
ECONOMIC ANALYSIS (714)		
DECSN : TOP MANAGEMENT DECISION GAME	36065C	3
GMCRO1 : FISCAL POLICY GAME	36519A	4
GMCRO5 : ECONOMIC POLICY GAME	36521A	4
GNFSUM : GROSS NATIONAL PRODUCT SUMMARY	36086A	3
INZOUT : INPUT/OUTPUT ANALYSIS ON ECONOMIC FLOWS	36088B	3
INACNT : NATIONAL INCOME & PRODUCT ACCOUNTS	36087A	3
ECONOMICS (EDUCATION) (830)		
BALANC : TRADE AND PAYMENT BALANCES	36328A	4
BANK : SOLVES FINANCIAL PROBLEMS	36329B	4
CIRFLW : CIRCULAR FLOW MODEL	36632A	4
CONSP : DEPRESSION/EQUILIBRIUM	36330A	4
GMCRO1 : FISCAL POLICY GAME	36519A	4
GMCRO5 : ECONOMIC POLICY GAME	36521A	4
GNFSUM : GROSS NATIONAL PRODUCT SUMMARY	36086A	3
HAMRBI : AN ECONOMIC SIMULATION TAKING PLACE IN THE ANCIENT CITY-STATE OF SUMER	36874A	5
KING : IF YOU SURVIVE YOUR EIGHT YEAR TERM...WE CONGRATULATE YOU	36773A	5
LABOR : LABOR/MANAGEMENT BARGAINING	36233A	4
STABIL : FEDERAL GOVERNMENT STABILIZATION POLICY	36888-18023	4
STOCK : STOCK MARKET SIMULATION	36331A	4
USECON : TESTING ECONOMIC HYPOTHESES	36888-18031	4
EDITING (101)		
EDIT2K : TEXT EDITOR FOR THE HP 2000C/2000C'/F	36838B	1
EDITOR : FILE MANIPULATION - CREATES, EDITS, LISTS, SORTS, EMULATES G.E. MK II.	36749A	1
FILMAN : FILE MANAGER	36006A	1
FORM2K : TEXT FORMATTER	36888-18036	1
MACRO : A TEXT AND FILE PROCESSING SYSTEM	36003B	1
TIDEX : SYMBOLIC FILE EDITOR	36204B	1
EDUCATIONAL ADMINISTRATION (885)		
ATTEND : ABSENTEE LISTING	36202A	4
AVERG1 : AVERAGES AND CURVES GRADES	36340B	4
FREQ : BAR GRAPHS OF GRADES	36341A	4
GRADE : TEST GRADE FOR NUMBER OF QUESTIONS MISSED	36342A	4
ITEM1 : NUMBER FREQUENCIES	36343A	4
SGFMS : STUDENT GRADE FILE MANAGEMENT SYSTEM	36832A	4
STAT : STATISTICAL ANALYSIS OF LAB DATA	36344A	4

	PROGRAM NUMBER	VOLUME
EIGENVALUES AND EIGENVECTORS (313)		
JACOBI : EIGENVALUES AND EIGENVECTORS OF A REAL SYMMETRIC MATRIX	36167A	4
ELECTRICAL ENGINEERING (513)		
AC21 : COMPUTER AIDED PRACTICE IN EE AC ANALYSIS	36152A	4
ACNODE : AC CIRCUIT ANALYSIS PROGRAM	36057A	2
ACTFIL : ACTIVE FILTER DESIGN	36293A	2
ANALAD : CIRCUIT ANALYSIS	36056A	2
DEBYE : COMPUTES DEBYE OR EINSTEIN FUNCTION	36059A	2
DVDRS : CAI IN VOLTAGE AND CURRENT DIVIDERS	36156A	4
EFIELD : ELECTRIC FIELD STRENGTH	36629A	4
GENFIL : DESIGNS PASSIVE FILTERS	36784A	2
INDMTR : ANALYSIS OF BALANCED POLYPHASE INDUCTION MOTOR	36154A	4
KSWEEP : FREQUENCY PLOT OF POLES AND ZEROES IN A COMPLEX PLANE	36771A	2
LPFLTR : DESIGNS LOW-PASS FILTERS	36060A	2
MICRO : MICROWAVE PARAMETERS CONVERSION	36062A	2
MIXSPR : MIXER SPURIOUS RESPONSE PROGRAM	36064A	2
SOLVER : SOLVES COMPLEX SIMULTANEOUS EQUATIONS	36149A	4
TZCPL : THERMO COUPLE TABLE PACKAGE	36654A	2
UNITS : CAI IN INTERPRETATION OF EE UNITS	36157A	4
ENGINEERING (EDUCATION) (820)		
AC21 : COMPUTER AIDED PRACTICE IN EE AC ANALYSIS	36152A	4
ACNODE : AC CIRCUIT ANALYSIS PROGRAM	36057A	2
ANALAD : CIRCUIT ANALYSIS	36056A	2
BASP : BASIC ANALOG SIMULATION PROGRAM	36888-18022	4
BEMDES : RECOMMENDS CORRECT STEEL BEAM USE	36109A	2
COMPLX : CAI IN ALGEBRA OF COMPLEX NUMBERS	36153A	4
DEBYE : COMPUTES DEBYE OR EINSTEIN FUNCTION	36059A	2
DVDRS : CAI IN VOLTAGE AND CURRENT DIVIDERS	36156A	4
EXPNTL : CAI IN SIMPLE EXPONENTIAL FUNCTIONS OF TIME	36148A	4
GENFIL : DESIGNS PASSIVE FILTERS	36784A	2
GNETFL : NETWORK FLOW	36529A	3
GTHOR : SECURITIES EPS GROWTH	36553A	3
HTXPR : TWO DIMENSIONAL HEAT TRANSFER	36058A	2
INDMTR : ANALYSIS OF A BALANCED POLYPHASE INDUCTION MOTOR	36154A	4
JACOBI : EIGENVALUES AND EIGENVECTORS OF A REAL SYMMETRIC MATRIX	36167A	4
LPFLTR : DESIGNS LOW-PASS FILTERS	36060A	2
MICRO : MICROWAVE PARAMETERS CONVERSION	36062A	2
MIXSPR : MIXER SPURIOUS RESPONSE PROGRAM	36064A	2
POLAR : PLOTS SINGLE VARIABLE IN POLAR FORM	36155A	4
SOLVER : SOLVES COMPLEX SIMULTANEOUS EQUATIONS	36149A	4
SOLVIT : SIMULTANEOUS LINEAR EQUATIONS USING GAUSSIAN REDUCTION	36196A	2
UNITS : CAI IN INTERPRETATION OF EE UNITS	36157A	4
ENGLISH (EDUCATION) (870)		
VOCAB : CAI IN WORD USAGE	36880A	4
EXPERIMENTAL DESIGN		
ANOVA : FACTORIAL ANALYSIS OF VARIANCE (FIVE-WAY, FOR ANY BALANCED DESIGN)	36870A	2
ANVAL : ONE-WAY ANALYSIS OF VARIANCE USING SAMPLE MEANS AND STD. DEVIATIONS	36871A	2
ANVAR1 : ANALYSIS OF VARIANCE FOR A RANDOMIZED ONE-WAY DESIGN	36039B	2
ANVAR2 : ANALYSIS OF VARIANCE (LATIN SQUARE DESIGN)	36040B	2
ANVAR3 : ANALYSIS OF VARIANCE FOR A TWO VARIABLES OF CLASSIFICATION DESIGN	36172A	2
EXTENDED-PRECISION ARITHMETIC (302)		
EXTADD : 40 DIGIT PRECISION STRING ADDITION	36888-18040	2
EXTEND : INFINITE PRECISION MATH UTILITY PROGRAM	36253A	4
EXTPRE : 40-DIGIT PRECISION MATHEMATICS	36144B	2
FILE MANAGEMENT (110)		
FDUMP : LISTS FILES, TOTAL RECORDS, INDICATES STRINGS & NUMERICS	36888-18037	1
FILDUM : PAPER TAPE FILE DUMP	36008C	1
FILES : FILE MANIPULATION - CREATES, SORTS, UPDATES, COPIES, CHANGES FORMAT	36645B	1
FILIN : KEYBOARD FILE LOADING PROGRAM	36007A	1
FILIST : LISTS FILE CONTENTS BY RECORD NUMBER	36009D	1
FILMAN : FILE MANAGER	36006A	1
FILOAD : LOADS A FILE FROM THE TELETYPE	36010C	1
FILREA : REENTERS THE DATA TAPE DUMPED BY FILDUM	36011A	1
FILRPT : REPORTS FILE CONTENTS AND STRUCTURE	36247A	1
FILRPT : REPORTS FILE CONTENTS AND STRUCTURE	36247A	1

	PROGRAM NUMBER	VOLUME
FINDIT : INFORMATION RETRIEVAL SYSTEM	36250D	1
FLCOPY : COPIES ONE FILE INTO ANOTHER	36012B	1
FMS : FILE MANAGEMENT SYSTEM	36648A	1
LODUMP : FILE LOAD/DUMP	36644A	1
MACRO : A TEXT AND FILE PROCESSING SYSTEM	36003B	1
P12 : INFORMATION SYSTEM	36737A	1
SPSORT : SPEED SORT - GENERAL PURPOSE FILE SORT	36736A	1
TIDEX : SYMBOLIC FILE EDITOR	36204B	1
FINANCIAL ANALYSIS (712)		
ANNUIT : ANNUITY ANALYSIS	36074A	3
BALSHT : PROFORMA INCOME STATEMENT AND BALANCE SHEET	36075A	3
BKNSIM : SIMULATES ONE YEAR'S DEPOSIT AND WITHDRAWAL ACTIVITIES OF SMALL BANK	36713A	4
CAPDCF : CAPITAL INVESTMENT ANALYSIS (DISCOUNTED CASH FLOW METHOD)	36825A	3
CAPINV : CAPITAL INVESTMENT ANALYSIS	36080A	3
CSHFL : CASH FLOW ANALYSIS	36142B	3
CTC3 : CTC PROJECTION PROGRAMS	36212B	3
DEPCOM : DEPRECIATION METHOD COMPARISON	36082A	3
EQUITY : COST OF EQUITY CAPITAL	36083A	3
EXDRSK : EXTENDED RISK ANALYSIS	36084A	3
FINPLO : CALCULATES PRESENT VALUE - STREAM OF CASH FLOWS	36711A	3
GFRNAT : FINANCIAL RATIOS	36510A	3
GIRRPV : INVESTMENT RETURN (CASH FLOW)	36513A	3
GRISKA : RISK ANALYSIS IN CAPITAL INVESTMENT	36543A	3
INSTMT : INCOME STATEMENT	36089B	3
LEASIN : LEASE INCOME	36194A	3
LENDER : SIMPLE LOAN ANALYSIS	36090A	3
LESSEE : LEASE ANALYSIS AS DETERMINED BY THE LESSEE	36091B	3
LOAN : LOAN AMORTIZATION	36226A	3
MARKET : TWO COMPANIES IN ONE-PRODUCT COMPETITION	36619A	4
MCOST : COMPARE AND EVALUATE UP TO 1000 MORTGAGE PAYMENT PLANS SIMULTANEOUSLY	36709A	3
MKBUY : MAKE-BUY DECISION ANALYSIS	36093A	3
MORGAG : MORTGAGE ANALYSIS	36094C	3
TRUINT : TRUE ANNUAL INTEREST RATE ANALYSIS	36101A	3
FINE ARTS (EDUCATION) (850)		
KEYSIG : GIVES MAJOR SCALES	36258A	4
MUSIC : TWELVE TONE COMPOSITION PROGRAM	36888-18028	4
MUSIC2 : TRIAD SOLVING PROGRAM	36276A	4
MUSIC5 : FINDS DOMINANT SEVENTHS	36259A	4
FLOATING POINT		
FORMIF : F AND I FORMAT	36612A	1
FORECASTING TECHNIQUES (608)		
EXSMO0 : EXPONENTIAL SMOOTHING ON PRICE DATA	36085B	3
LINTRD : LINEAR TREND FORECASTING	36069A	3
TIMDIF : FIRST DIFFERENCES, PERCENT CHANGES, PERCENT DIFFERENCE	36801A	3
FOREIGN LANGUAGES (EDUCATION) (871)		
CARLOS : COMPUTER-ASSISTED REVIEW LESSONS ON SYNTAX FOR SPANISH II	36175A	4
FORMAT		
FORMAT : ALLOWS SPECIAL FORMATTING OF DATA PRINTOUT	36005B	1
FORMIF : F AND I FORMAT	36612A	1
FOURIER		
CTRFFT : COMPLEX TO REAL FAST FOURIER TRANSFORM	36028A	2
GFFT : GENERAL FAST FOURIER TRANSFORM	36030A	2
RTCFPT : REAL TO COMPLEX FAST FOURIER TRANSFORM	36029B	2
FUNCTIONS, COMPUTATION OF (306)		
BESSEL : CALCULATES BESSEL FUNCTION OF FIRST KIND	36019A	2
DERTIV : COMPUTER-AUGMENTED CALCULUS TOPICS	36662A	4
DESCAL : DESK CALCULATOR SUBROUTINE	36674A	4
FGAPH : SIMULTANEOUS FUNCTION GRAPHER	36165A	1
FUNDTH : COMPUTER-AUGMENTED CALCULUS TOPICS	36664A	4
GRAPH1 : COMPUTER-AUGMENTED CALCULUS TOPICS	36665A	4
GRAPH2 : COMPUTER-AUGMENTED PHYSICS TOPICS	36666A	4
INTEGR : COMPUTER-AUGMENTED CALCULUS TOPICS	36667A	4
PARABO : EQUATION OF PARABOLA PASSING THROUGH 3 GIVEN POINTS	36702A	2
PLOT33 : KEYBOARD ENTRY MULTIPLE FUNCTION PLOTTER	36659A	1
POLY : POLYNOMIAL APPROXIMATION	36188A	2
ROOTNL : FINDS ROOTS OR FIXED POINTS OF A NON-LINEAR FUNCTION	36697A	2

	PROGRAM NUMBER	VOLUME
ROOTNR : LOCATES ROOT OF A FUNCTION WHOSE DERIVATIVE IS KNOWN	36696A	2
GAMES (903)		
23MTCB : 23 MATCHES..TAKE TURNS REMOVING THEM..WHOEVER TAKES THE LAST ONE LOSES	36834A	5
ABAGEL : TRY TO GUESS THE COMPUTER'S 3-LETTER WORD	36783A	5
ABASE : GUESS MY NUMBER...IN BASE 2 OR 5 OR 8 OR ...	36848A	5
AMAZE : GET A RANDOM MAZE TAILORED TO THE SIZE YOU CHOOSE	36858A	5
BAGELS : THREE-DIGIT NUMBER GUESSING	36360A	5
BATNUM : MAKE UP YOUR OWN 'NIM' GAME, THEN PLAY AGAINST THE COMPUTER	36105B	5
BIOSIN : CHARTS YOUR LIFE'S PHYSICAL, SENSITIVE AND COGNITIVE CYCLES	36875A	5
BIRDAY : BIRTHDAY PROBABILITY	36653A	5
BLJACK : GAME OF TWENTY-ONE	36103A	5
BOLA : NUCLEAR PHYSICS GAME	36879A	4
BUTTON : BUTTON, BUTTON, WHO'S GOT THE BUTTON?	36782A	5
CANNON : HP 7200A GAME DEMO FOR TIME-SHARED BASIC	36110A	5
CAVES1 : FIND YOUR WAY OUT OF THE CAVES. LEVELS OF DIFFICULTY	36787A	5
CAVES2 : LIKE CAVES1, BUT **YOU** SET UP THE CAVES FOR A FRIEND TO SOLVE	36872A	5
CHARGE : CHARGE ACCOUNT SIMULATION	36604A	4
CHASE : PURSUIT OF A TARGET	36683A	5
CHOMP : THE BOARD IS A BIG COOKIE, BUT ONE CORNER SQUARE IS POISON	36837A	5
CIVIL2 : A SIMULATION WHICH RECREATES 14 CIVIL WAR BATTLES	36869A	5
CLOCKS : GUESSING TIME GIVEN METRIC CLUE WORDS	36657A	5
CRASH : LAND A SPACE MODULE ON THE PLANET OF YOUR CHOICE	36883A	5
DANGLE : USE THE COMPUTER TO MAKE A DANGLING STRING OF STARS..FOR THE VERY YOUNG	36862A	5
DRAG : SIMULATES A DRAG RACE	36601B	5
FTBL : FOOTBALL	36181A	5
GOLF : A GOLF GAME	36102A	5
GOMOKU : 9 BY 9 BOARD GAME	36735A	5
GRNPRX : GRAN PRIX RACING GAME	36686A	5
HAMRBI : AN ECONOMIC SIMULATION TAKING PLACE IN THE ANCIENT CITY-STATE OF SUMER	36874A	5
HANGMN : GUESS THE SECRET WORD, LETTER BY LETTER	36788A	5
HURKLE : THE HURKLE IS A HAPPY BEAST - FIND HIM IF YOU CAN!	36855A	5
KENO : \$25,000.00 KENO GAME	36244A	5
KING : IF YOU SURVIVE YOUR EIGHT YEAR TERM...WE CONGRATULATE YOU	36773A	5
LANDER : ROCKET LANDING VEHICLE	36684A	5
LETTER : THERE ARE 26 LETTERS IN THE ALPHABET, BUT ONLY ONE OF THEM IS **IT**	36833A	5
LIFE : JOHN CONWAY'S CELLULAR BOARD GAME	36138B	5
LUNAR : YOU MUST LAND ON THE MOON MANUALLY BECAUSE THE COMPUTERS WENT KAPUT	36884A	5
MADLIB : COMPLETE A ZANY STORY BY FILLING IN THE BLANKS..BEFORE YOU SEE THE STORY	36792A	5
MANDAL : CREATE YOUR OWN MANDALAS BY CHOOSING DESIGN PARAMETERS	36861A	5
MUGWMP : CIRCLES CROSSING CIRCLES WILL TELL YOU WHERE MUGWUMP HIDES	36856A	5
NIM : THERE ARE PILES OF STARS..WHOEVER TAKES THE LAST STAR WINS	36835A	5
NUMBER : A SIMPLE NUMBER GUESSING GAME	36777A	5
QUADGT : FOUR-DIGIT NUMBER GUESSING GAME	36768A	5
QUBIC5 : THREE-D TIC-TAC-TOE...COMPUTER HAS 5 LEVELS OF STRATEGIES	36106B	5
REVERS : UNSCRAMBLE A LIST OF NUMBERS WITH YOUR INGENUITY AND LOTS OF PATIENCE	36886A	5
ROULET : ROULETTE	36650A	5
SLOT : WATCH OUT FOR THE STOP SIGNS! SIMULATES A SLOT MACHINE (USE IN NEVADA ONLY)	36107A	5
SNARK : CATCH HIM WITH A WELL PLACED CIRCLE	36857A	5
STARS : GUESS THE COSMIC NUMBER. WIN SOME STARS FOR YOURSELF	36795A	5
STTRI : STAR TREK	36243B	5
SUNSGN : YOUR NAME AND SUNSIGN ARE USED TO CREATE A UNIQUE ARTISTIC PATTERN	36859A	5
TAXMAN : FACTORS AND PRIME NUMBERS ARE THE KEYS TO THIS ONE	36754A	5
TEASER : BRAIN TEASER PUZZLE	36764A	5
TRADER : STAR TRADER IS AN INTERSTELLAR GAME OF MERCANTILE SKILL	36882A	5
TRAP : TRAP MY NUMBER. THEN MAKE THE TRAP SMALLER AND SMALLER AND SMALLER	36776A	5

	PROGRAM NUMBER	VOLUME		PROGRAM NUMBER	VOLUME
TWQUES : MATHEMATICAL GAME OF TWENTY QUESTIONS	36130A	4	STATAL : ARITHMETIC MEAN	36628A	4
WORD : A WORD GAME	36660A	5	STOICH : MASS VOLUME	36618A	4
WUMPUS : HUNT THE WUMPUS IN ITS WORLD OF CAVES AND SUPERBATS	36873A	5	SURFAC : AREA OF SURFACE OF REVOLUTION	36338A	4
ZEROS : TWO PLAYERS BUILD BRIDGES UNTIL ONE PLAYER CANNOT MOVE	36885A	5	VFIELD : POTENTIAL FIELD PICTURE	36322A	4
ZOT : THE BOARD IS MADE OF STARS, AND WHOMEVER ZOTS THE LAST ONE WINS	36854A	5	VLOCTY : INSTANTANEOUS VELOCITY	36323A	4
			VOLSOL : VOLUME OF SOLID OF REVOLUTION	36339A	4
			WATER1 : WATER BUDGET PROBLEM CHECK	36326A	4
			WATER2 : WATER BUDGET	36327A	4
			WAVES : SUM OF TWO WAVES	36324B	4
GAUSSIAN			HUNTINGTON II		
BINOPO : PROBABILITY DISTRIBUTION COMPARISONS	36041A	2	ELECT : CAMPAIGN STRATEGY AND ELECTIONS	36789A	4
GENERAL PROBABILITY (413)			GENEL : GENETICS SIMULATION	36642B	4
CLIMAT : CLIMATE TEACHING PROGRAM	36760A	4	LOCKEY : LOCK & KEY MODEL OF ENZYME ACTION	36624A	4
FORCST : WEATHER FORECASTING PROGRAM	36750A	2	POLICY : STUDENTS FORMULATE NATIONAL POLICY	36649A	4
GEOLOGY (503)			POLSYS : SIMULATION OF CITY COUNCIL	36640B	4
EVOLU : NATURAL SELECTION EXPERIMENT	36301A	4	POLUT : WATER POLLUTION SIMULATION	36639B	4
GRAPHIC DISPLAY			POP : POPULATION GROWTH	36844A	4
CANNON : HP 7200A GAME DEMO FOR TIME-SHARED BASIC	36110A	5	SAP : SURVEY ANALYSIS PROGRAM	36843A	4
DRAGON : SOLAR ECLIPSE SIMULATION	36785A	4	STERL : FLY POPULATION CONTROL	36641B	4
FPLOT : FUNCTION PLOT	36112A	1	USPOP : HUMAN POPULATION PROJECTION	36802A	4
GRAPHS : DEMO PLOT PROGRAM FOR HP 7200 PLOTTER	36115A	1	INFORMATION STORAGE AND RETRIEVAL (102)		
HAZEL : HAZELTIME 2000 USER SUBROUTINES	36786B	1	ZAIRES : QUESTIONNAIRE ANALYSIS	36807A	1
TITLE : CHARACTER GENERATION	36114C	1	ADDRES : ADDRESS LABELS	36231A	1
HEALTH SCIENCE (EDUCATION) (835)			EDIT2K : TEXT EDITOR FOR THE HP 2000C/2000C'/F	36838B	1
MCMAN : CARDIOVASCULAR SIMULATION	36888-18002	4	EDITOR : FILE MANIPULATION - CREATES, EDITS, LISTS, SORTS, EMULATES G.E. MK II.	36749A	1
HISTOGRAM			FILES : FILE MANIPULATION - CREATES, SORTS, UPDATES, COPIES, CHANGES FORMAT	36645B	1
HISS : SAMPLE STATISTICS AND HISTOGRAM FORMED FROM A SET OF NUMBERS	36235A	1	FINDIT : INFORMATION RETRIEVAL SYSTEM	36250D	1
HISTORY (EDUCATION) (863)			FMS : FILE MANAGEMENT SYSTEM	36648A	1
CIVIL2 : A SIMULATION WHICH RECREATES 14 CIVIL WAR BATTLES	36869A	5	FORM2K : TEXT FORMATTER	36888-18036	1
ELECT : CAMPAIGN STRATEGY AND ELECTIONS	36798A	4	INDEX : XREF INDEX OF LIBRARY	36888-18004	4
HUNTINGTON I			INDEXR : INDEXING PROGRAM	36770A	1
ATWT : CALCULATES ATOMIC WEIGHT	36613A	4	LODUMP : FILE LOAD/DUMP	36644A	1
AVERG1 : AVERAGES AND CURVES GRADES	36340B	4	MACRO : A TEXT AND FILE PROCESSING SYSTEM	36003B	1
AVOGA : AVOGADRA'S NUMBER	36614A	4	MESSAG : INTERTERMINAL COMMUNICATOR	36284A	1
BFIELD : MAGNETIC FIELD PICTURE	36312A	4	PI2 : INFORMATION SYSTEM	36737A	1
BOHR : ENERGY LEVEL DIAGRAM	36313A	4	SLAB : SYSTEM LIBRARY ABSTRACTS	36647A	1
CALORI : CALORIMETRY EXPERIMENT	36314A	4	INTEGER		
CHARG : MILLIKAN'S OIL-DROP EXPERIMENT	36621A	4	FACTOR : FINDS PRIME FACTORS OF POSITIVE INTEGERS	36037A	2
CIRFLW : CIRCULAR FLOW MODEL	36632A	4	FORMIF : F AND I FORMAT	36612A	1
CLOUDS : CLOUD FORMATION	36325A	4	STGINT : STRING-INTEGGER CONVERSIONS	36176A	1
CONSMF : DEPRESSION/EQUILIBRIUM	36330A	4	INTEGRAL TRANSFORMS (316)		
CRVLEN : COMPUTES LENGTH OF ANY CURVE	36333A	4	CTRFFT : COMPLEX TO REAL FAST FOURIER TRANSFORM	36028A	2
CVAREA : AREA UNDER CURVE	36620A	4	GFPT : GENERAL FAST FOURIER TRANSFORM	36030A	2
DROS : GENETIC CHARACTERISTICS	36300A	4	RTCFPT : REAL TO COMPLEX FAST FOURIER TRANSFORM	36029B	2
EFIELD : ELECTRIC FIELD STRENGTH	36629A	4	INTEGRATION		
EMPIR : CALCULATES EMPIRICAL FORMULAS	36615A	4	BESSEL : CALCULATES BESSEL FUNCTION OF FIRST KIND	36019A	2
EQUILL : EQUILIBRIUM SYSTEMS	36308A	4	INTGR : DEFINITE INTEGRAL BY MEANS OF 3-POINT GAUSSIAN INTEGRATION FORMULA	36698A	2
EVOLU : NATURAL SELECTION EXPERIMENT	36301A	4	INTGRS : COMPUTES THE AREA UNDER A CURVE	36699A	2
FREQ : BAR GRAPHS OF GRADES	36341A	4	INTERPOLATION/EXTRAPOLATION (307)		
GAMGN : PROCESS OF GAMETOGENESIS	36302A	4	NEWTON : INTERPOLATION OF NON-LINEAR FUNCTIONS BY NEWTON'S FORMULA	36652A	2
GRADE : TEST GRADE FOR NUMBER OF QUESTIONS MISSED	36342A	4	INTERPRETER		
ITEM1 : NUMBER FREQUENCIES	36343A	4	PILOTF : PILOT 73 AUTHOR LANGUAGE FOR THE HP 2000F	36756B	4
KINERV : REVIEW OF KINEMATICS	36315A	4	TM : TURING MACHINE SIMULATOR	36743A	4
KINET : KINETIC REACTION	36309A	4	INTERRUPT		
LIMSIN : LIMIT OF (SIN X)/X	36622A	4	STGINT : STRING-INTEGGER CONVERSIONS	36176A	1
MASSD : MASS DEFECT	36310A	4	INVENTORY ANALYSIS (708)		
MEMBR : DIFFUSION EXPERIMENT	36611A	4	CTC1 : CTC MANUFACTURING PARTS CONTROL	36210B	3
MOLAR : ACID-BASE TITRATION	36616A	4	CTC2 : CTC INVENTORY CONTROL FOR FINISHED PRODUCTS	36211B	3
NEWTN2 : NEWTON'S 2ND LAW	36316A	4	REP : DATA CENTER INVENTORY REPORT GENERATOR	36177A	3
NZYM2 : ENZYME REACTION RATE	36304A	4	INVESTMENT ANALYSIS (713)		
NZYM3 : ENZYME REACTION RATES	36303A	4	ANNUIT : ANNUITY ANALYSIS	36074A	3
PHOTEL : PHOTOELECTRIC EFFECT	36317A	4	BNDPRC : BOND PRICE ANALYSIS	36076B	3
PHOTON : ENERGY LEVEL PROBLEM	36318A	4	BNDSWH : BOND SWITCH ANALYSIS	36077A	3
PHPOH : PH, POH, PCT, DISSOCIATION	36617A	4	BNDYLD : BOND YIELD ANALYSIS	36078B	3
PI : CALCULATES PI	36623A	4	BNKRSV : BANK RESERVE CALCULATIONS	36079A	3
PLANK : A PHOTOELECTRIC SIMULATION	36350A	4	CAPDCF : CAPITAL INVESTMENT ANALYSIS (DISCOUNTED CASH FLOW METHOD)	36825A	3
PRCNT : PERCENT COMPOSITION	36311A	4	CAPINV : CAPITAL INVESTMENT ANALYSIS	36080A	3
PRJTL : PROJECTILE MOTION	36631A	4	DROIPIB : DISCOUNTED RETURN ON INVESTMENT AND PAYBACK	36179A	3
QUADT : NATURE OF GRAPH OF A 2ND ORDER EQUATION IN TWO VARIABLES	36335A	4	EQUITY : COST OF EQUITY CAPITAL	36083A	3
RATIO : SOLVES PROPORTIONS	36336A	4			
REFLCT : LEAST TIME PRINCIPLE AND LIGHT	36319A	4			
SLITS : YOUNG'S DOUBLE SLIT EXPERIMENT	36351B	4			
SLOPE : FINDS DERIVATIVES	36626A	4			
SNELL : SNELL'S LAW	36320A	4			
SPACE : SPACECRAFT ORBITS	36321A	4			
SQRT : FINDS SQUARE ROOT	36627A	4			
STAT : STATISTICAL ANALYSIS OF LAB DATA	36344A	4			

	PROGRAM NUMBER	VOLUME		PROGRAM NUMBER	VOLUME
EXDRSK : EXTENDED RISK ANALYSIS	36084A	3	QUADT : NATURE OF GRAPH OF A 2ND ORDER EQUATION IN TWO VARIABLES	36335A	4
EXSMOO : EXPONENTIAL SMOOTHING ON PRICE DATA	36085B	3	RATIO : SOLVES PROPORTIONS	36336A	4
GDPA : EFFICIENT 'CORNER' PORTFOLIOS	36508B	3	RNDORD : PLACING INTEGERS IN RANDOM ORDER	36264A	2
GKASSF : WARRANT PRICE CALCULATION	36514A	3	ROOTS2 : QUADRATIC EQUATION SOLVER	36625A	4
GKCOST : PRICE/EARNINGS RATIO CALCULATION	36515A	3	SAT : TRIGONOMETRIC SOLUTIONS OF TRIANGLES	36182A	4
GMRVVB : SECURITIES PORTFOLIO ANALYSIS AND DETERMINATION	36530A	3	SETS : UNION AND INTERSECTION OF SETS	36337A	4
GSPMG : STANFORD PORTFOLIO MANAGEMENT GAME	36502A	4	SIPRAC : PRACTICE WITH SIGNED NUMBERS	36238A	4
GSTKVL : STOCK VALUATION	36545A	3	SLOPE : FINDS DERIVATIVES	36626A	4
GTHOR : SECURITIES EPS GROWTH	36553A	3	SPHERE : SOLVES SPHERICAL TRIANGLES	36034A	2
MARKOW : SECURITIES PORTFOLIO USING MARKOWITZ MODEL	36092B	3	SQRT : FINDS SQUARE ROOT	36627A	4
SAVING : COMPOUND INTEREST	36708A	3	STATAL : ARITHMETIC MEAN	36628A	4
SIMLAT : SIMULATION OF INVESTMENT RETURNS WITH SENSITIVITY ANALYSIS	36888-18019	3	STOCK : STOCK MARKET SIMULATION	36331A	4
STKINC : STOCK MERGER INCENTIVE PROGRAM	36096A	3	SURFAC : AREA OF SURFACE OF REVOLUTION	36338A	4
STKRTRN : STOCK RETURNS REPORT	36098A	3	SYSSOL : SOLVING SYSTEMS OF LINEAR EQUATIONS	36278A	4
STKVAL : STOCK VALUE & EVALUATION REPORT	36100A	3	TAXMAN : FACTORS AND PRIME NUMBERS ARE THE KEYS TO THIS ONE	36754A	5
TRUINT : TRUE ANNUAL INTEREST RATE ANALYSIS	36101A	3	TENS : DRILL IN MULTIPLICATION OF NUMBERS WITH TRAILING ZEROS	36128A	4
JULIAN			TRIFAC : FACTORING QUADRATIC TRINOMIALS	36237A	4
JULIAN : JULIAN CALENDAR FOR THE CURRENT YEAR	36197A	1	TRUTH : TRUTH TABLES FOR BOOLEAN EXPRESSIONS	36602B	4
LABEL			TWQUES : MATHEMATICAL GAME OF TWENTY QUESTIONS	36130A	4
ADDRESS : ADDRESS LABELS	36231A	1	VOLSOL : VOLUME OF SOLID OF REVOLUTION	36339A	4
LEAST SQUARES			WAVES : SUM OF TWO WAVES	36324B	4
CRVFT : LEAST-SQUARES CURVEFITTING	36633A	2	WKSHT : GENERATES MATH WORKSHEETS	36133A	4
MULTX : LEAST-SQUARES FIT, MULTIPLE Y'S PER X	36186B	2	MATHEMATICS, GENERAL (301)		
POLFIT : FITS LEAST-SQUARES POLYNOMIALS	36023B	2	BASCAL : BASIC CALCULATOR	36847A	2
POLPTE : FITS LEAST-SQUARES POLYNOMIALS	36246A	2	BINO : BINOMIAL FUNCTION EXPANSION	36888-18029	2
LINEAR			CRVLEN : COMPUTES LENGTH OF ANY CURVE	36333A	4
GSIMEQ : SIMULTANEOUS LINEAR EQUATIONS	36547B	2	DCZOC : DECIMAL-TO-OCTAL CONVERTER	36747A	2
REGCOR : REGRESSION/CORRELATION	36054B	2	DIMIS : X-Y AXIS SEGMENT PROGRAM	36277A	4
REGRES : STEP-WISE REGRESSION	36738A	2	DRILL : BASIC ARITHMETIC DRILL	36129A	4
SOLVIT : SIMULTANEOUS LINEAR EQUATIONS USING GAUSSIAN REDUCTION	36196A	2	EXPNTL : CAI IN SIMPLE EXPONENTIAL FUNCTIONS OF TIME	36148A	4
LINEAR PROGRAMMING (605)			EXTEND : INFINITE PRECISION MATH UTILITY PROGRAM	36253A	4
GINTLP : LINEAR PROGRAMMING-VARIABLES RESTRICTED TO VALUES OF ONE OR ZERO	36512A	3	FACTOR : FINDS PRIME FACTORS OF POSITIVE INTEGERS	36037A	2
GLP : LINEAR PROGRAMMING	36516A	3	FNCTS : COMPUTES TRIG FUNCTIONS FOR COMPLEX ARGUMENTS	36017A	2
GLPSA1 : LINEAR PROGRAMMING TWO-PHASE SIMPLEX METHOD	36517A	3	FORCST : WEATHER FORECASTING PROGRAM	36750A	2
LINPRO : LINEAR PROGRAMMING MODEL	36068C	3	LINES : CONVERSATIONAL COMPUTER GENERATED CALCULUS QUIZ	36700A	4
LINQUP : SOLVES EITHER A LINEAR OR QUADRATIC PROGRAMMING PROBLEM	36710A	3	LOGIC : LOGIC EXAMINATION PROGRAMS	36251B	4
LMTNRD : LINEAR TREND FORECASTING	36069A	3	OCZDC : OCTAL-TO-DECIMAL CONVERTER	36712A	2
TRANSP : TRANSPORTATION PROBLEM	36230A	3	PLOT33 : KEYBOARD ENTRY MULTIPLE FUNCTION PLOTTER	36659A	1
MATHEMATICS (EDUCATION) (801)			POLYGN : COMPUTES THE AREA ENCLOSED IN ANY POLYGON	36703A	2
ALGIE : BASIC ALGEBRA DRILL	36851A	4	POWER2 : POWERS OF TWO TABLES	36888-18009	2
AREA : COMPUTER-AUGMENTED CALCULUS TOPICS	36668A	4	QUADT : NATURE OF GRAPH OF A 2ND ORDER EQUATION IN TWO VARIABLES	36335A	4
BAGELS : THREE-DIGIT NUMBER GUESSING	36360A	5	ROOTNL : FINDS ROOTS OR FIXED POINTS OF A NON-LINEAR FUNCTION	36697A	2
BANK : SOLVES FINANCIAL PROBLEMS	36329B	4	ROOTNR : LOCATES ROOT OF A FUNCTION WHOSE DERIVATIVE IS KNOWN	36696A	2
BASE : BASE CONVERTER	36796A	4	SAT : TRIGONOMETRIC SOLUTIONS OF TRIANGLES	36182A	4
BISQAR : SQUARING BINOMIALS	36240A	4	SPHERE : SOLVES SPHERICAL TRIANGLES	36034A	2
CADALI : COMPUTER ASSISTED ARITHMETIC DRILL	36205A	4	SORT : FINDS SQUARE ROOT	36627A	4
CHASE : PURSUIT OF A TARGET	36683A	5	SORFAC : AREA OF SURFACE OF REVOLUTION	36338A	4
CRVLEN : COMPUTES LENGTH OF ANY CURVE	36333A	4	UHXC : COMPLEX NUMBER CALCULATOR	36888-18005	2
CVAREA : AREA UNDER CURVE	36620A	4	VOLSOL : VOLUME OF SOLID OF REVOLUTION	36339A	4
CXSYS : SOLVING SYSTEMS OF COMPLEX LINEAR EQUATIONS	36262A	4	MATRIX OPERATIONS (312)		
DERSIN : COMPUTER-AUGMENTED CALCULUS TOPICS	36663A	4	CDETER : COMPUTES VALUE OF COMPLEX DETERMINANT	36025A	2
DERTIV : COMPUTER-AUGMENTED CALCULUS TOPICS	36662A	4	DETER4 : DETERMINANTS, CHARACTERISTIC POLYNOMIALS AND INVERSES OF MATRICES	36263A	2
DESCAL : DESK CALCULATOR SUBROUTINE	36674A	4	JACOBI : EIGENVALUES AND EIGENVECTORS OF A REAL SYMMETRIC MATRIX	36167A	4
DETER4 : DETERMINANTS, CHARACTERISTIC POLYNOMIALS AND INVERSES OF MATRICES	36263A	2	MARKOV : COMPUTES FOR AN ERGODIC MARKOV CHAIN	36701A	2
DIFFEQ : CAI IN SOLUTION OF LINEAR FIRST-ORDER DIFFERENTIAL EQUATIONS	36159A	4	MECHANICAL ENGINEERING (514)		
DIMIS : X-Y AXIS SEGMENT PROGRAM	36277A	4	HTXFR : TWO DIMENSIONAL HEAT TRANSFER	36058A	2
DRILL : BASIC ARITHMETIC DRILL	36129A	4	METRIC : CONVERTS ENGLISH TO METRIC	36635A	2
EINDIS : EINSTEIN DISTORTIONS	36716A	4	ORBIT : INTEGRATES EQUATIONS OF MOTION	36121A	4
EXTEND : INFINITE PRECISION MATH UTILITY PROGRAM	36253A	4	MUSIC		
FACTOR : FINDS PRIME FACTORS OF POSITIVE INTEGERS	36037A	2	KEYSIG : GIVES MAJOR SCALES	36258A	4
FUNDTH : COMPUTER-AUGMENTED CALCULUS TOPICS	36664A	4	MUSIC : TWELVE TONE COMPOSITION PROGRAM	36888-18028	4
GAME : CLASSIC MATRIX OF GAME THEORY	36265A	4	MUSIC2 : TRIAD SOLVING PROGRAM	36276A	4
GRAPH1 : COMPUTER-AUGMENTED CALCULUS TOPICS	36665A	4	MUSIC5 : FINDS DOMINANT SEVENTHS	36259A	4
GRAPH2 : COMPUTER-AUGMENTED PHYSICS TOPICS	36666A	4	NEWTON		
INTEGR : COMPUTER-AUGMENTED CALCULUS TOPICS	36667A	4	LANDIN : COMPUTER-AUGMENTED PHYSICS TOPICS	36670A	4
LIMSIN : LIMIT OF (SIN X)/X	36622A	4	NEWTON : INTERPOLATION OF NON-LINEAR FUNCTIONS BY NEWTON'S FORMULA	36652A	2
LINES : CONVERSATIONAL COMPUTER GENERATED CALCULUS QUIZ	36700A	4	NON-LINEAR		
LOGIC : LOGIC EXAMINATION PROGRAMS	36251B	4	NEWTON : INTERPOLATION OF NON-LINEAR FUNCTIONS BY NEWTON'S FORMULA	36652A	2
PI : CALCULATES PI	36623A	4			
POLISH : POLISH CONVERSION	36888-18014	4			
POLSUB : POLYNOMIAL SUBTRACTION	36239A	4			

	PROGRAM NUMBER	VOLUME		PROGRAM NUMBER	VOLUME
NON-PARAMETRIC STATISTICS (407)					
CHISQ	: COMPUTES PROBABILITY OF CHI-SQUARE VALUES	36042A	2	HAZEL	: HAZELTINE 2000 USER SUBROUTINES 36786B 1
CHISQS	: CHI-SQUARE STATISTICS FOR M*N CONTINGENCY TABLES	36043B	2	HISS	: SAMPLE STATISTICS AND HISTOGRAM FORMED FROM A SET OF NUMBERS 36235A 1
CROSS2	: CROSS TABULATION AND CHI-SQUARE	36860A	2	HISTOG	: HISTOGRAM FORMED FROM A SET OF NUMBERS 36055B 2
FISHER	: FISHER'S EXACT PROBABILITY TEST	36606A	2	KSWEEP	: FREQUENCY PLOT OF POLES AND ZEROES IN A COMPLEX PLANE 36771A 2
SEVPRO	: CHI-SQUARE TEST	36719A	2	PLOT	: PLOTS A GIVEN FUNCTION ON THE TELETYPE 36104B 1
STAT06	: CALCULATES SIGN TEST CONFIDENCE INTERVAL	36724A	2	PLOT33	: KEYBOARD ENTRY MULTIPLE FUNCTION PLOTTER 36659A 1
STAT07	: CALCULATES THE CONFIDENCE LIMITS FOR A SET OF DATA	36725A	2	PLOTWD	: WORD PLOTTER 36228B 1
STAT08	: COMPARES TWO GROUPS OF DATA USING THE MEDIAN TEST	36732A	2	PLOTXY	: TWO VARIABLE PLOT PROGRAM 36888-18034 1
STAT14	: ANALYSIS OF VARIANCE AND F-RATIOS (RANDOMIZED COMPLETE BLOCK DESIGN)	36730A	2	POLAR	: PLOTS SINGLE VARIABLE IN POLAR FORM 36155A 4
STAT2	: MANN-WHITNEY 2 SAMPLE RANK TEST	36052A	2	PRINT	: GENERATES LARGE LETTERS 36299A 1
STAT3	: SPEARMAN RANK CORRELATION COEFFICIENTS	36053A	2	PSQUAR	: PATTERN SQUARES FOR HP 7200A PLOTTER 36249A 1
NUMERICAL INTEGRATION (310)					
INTGR	: DEFINITE INTEGRAL BY MEANS OF 3-POINT GAUSSIAN INTEGRATION FORMULA	36698A	2	SLITS	: YOUNG'S DOUBLE SLIT EXPERIMENT 36351B 4
INTGRS	: COMPUTES THE AREA UNDER A CURVE	36699A	2	STAT1	: HISTOGRAM, STANDARD DEVIATION & PLOT OF A SET OF NUMBERS 36888-18003 2
OCTAL					
BASCAL	: BASE CALCULATOR	36847A	2	TITLE	: CHARACTER GENERATION 36114C 1
DCZOC	: DECIMAL-TO-OCTAL CONVERTER	36747A	2	TRAN1	: GRAPHICS UTILITY PROGRAMS 36888-18038 4
OCZDC	: OCTAL-TO-DECIMAL CONVERTER	36712A	2	WAVFN	: COMPUTES AND PLOTS THE RADIAL PART OF HYDROGEN-LIKE WAVE FUNCTIONS 36733A 2
OPTIMIZATION PROGRAMS (604)					
GNETFL	: NETWORK FLOW	36529A	3	POLYNOMIAL	
MAXFLO	: MAXIMUM FLOW IN A CAPACITATED NETWORK	36609A	3	AREA	: COMPUTER-AUGMENTED CALCULUS TOPICS 36668A 4
SHORTR	: SHORTEST ROUTE PROBLEM	36610A	3	POLY	: POLYNOMIAL APPROXIMATION 36188A 2
ORDINARY DIFFERENTIAL EQUATIONS (318)					
DEZ1OR	: 1ST ORDER DIFFERENTIAL EQUATION	36032A	2	ROOTER	: FINDS THE ROOTS OF POLYNOMIALS 36024A 2
DEZ2OR	: 2ND ORDER DIFFERENTIAL EQUATION	36033A	2	POLYNOMIALS AND POLYNOMIAL EQUATIONS (311)	
DIFFEQ	: CAI IN SOLUTION OF LINEAR FIRST-ORDER DIFFERENTIAL EQUATIONS	36159A	4	BINO	: BINOMIAL FUNCTION EXPANSION 36888-18029 2
PAYROLL ACCOUNTING (706)					
ATG	: COMPUTER ORIENTED ACCOUNTING - INTERACTIVE VERSION	36888-18032	4	DETER4	: DETERMINANTS, CHARACTERISTIC POLYNOMIALS AND INVERSES OF MATRICES 36263A 2
CTC4	: CTC PAYROLL PROGRAMS	36213B	3	PARABO	: EQUATION OF PARABOLA PASSING THROUGH GIVEN POINTS 36702A 2
SALES	: SALES COMMISSION REPORT	36095A	3	POLY	: POLYNOMIAL APPROXIMATION 36188A 2
PERT (602)					
CPATH	: CRITICAL PATH EVALUATION	36171B	3	QUADRA	: ANALYZES A QUADRATIC EQUATION 36704A 2
PHYSICS (505)					
ALERA	: PROPAGATION OF ERROR	36603B	4	ROOTER	: FINDS THE ROOTS OF POLYNOMIALS 36024A 2
ATOM	: DERIVES THE ELECTRONIC CONFIGURATION OF ANY ELEMENT	36705A	4	ROOTNL	: FINDS ROOTS OR FIXED POINTS OF A NON-LINEAR FUNCTION 36697A 2
BFIELD	: MAGNETIC FIELD PICTURE	36312A	4	ROOTNR	: LOCATES ROOT OF A FUNCTION WHOSE DERIVATIVE IS KNOWN 36696A 2
BOHR	: ENERGY LEVEL DIAGRAM	36313A	4	PROBABILITY DISTRIBUTION SAMPLING (406)	
BOLA	: NUCLEAR PHYSICS GAME	36879A	4	BICONF	: CONFIDENCE LIMITS 36691A 2
CLIMAT	: CLIMATE TEACHING PROGRAM	36760A	4	BINOP0	: PROBABILITY DISTRIBUTION COMPARISONS 36041A 2
CONVRT	: TEMPERATURE SCALE CONVERSION	36685A	4	BIRDAY	: BIRTHDAY PROBABILITY 36653A 5
EINDIS	: EINSTEIN DISTORTIONS	36716A	4	CHISQ	: COMPUTES PROBABILITY OF CHI-SQUARE VALUES 36042A 2
FORCST	: WEATHER FORECASTING PROGRAM	36750A	2	CHISQS	: CHI-SQUARE STATISTICS FOR M*N CONTINGENCY TABLES 36043B 2
GRNPRX	: GRAN PRIX RACING GAME	36686A	5	GTASPD	: SUBJECTIVE PROBABILITY DISTRIBUTION 36549A 2
KINERV	: REVIEW OF KINEMATICS	36315A	4	PROB	: COMPUTES BINOMIAL, POISSON AND HYPERGEOMETRIC PROBABILITIES 36718A 2
NEWTN2	: NEWTON'S 2ND LAW	36316A	4	SEVPRO	: CHI-SQUARE TEST 36719A 2
PHOTEL	: PHOTOELECTRIC EFFECT	36317A	4	STAT08	: COMPARES TWO GROUPS OF DATA USING THE MEDIAN TEST 36732A 2
PHOTON	: ENERGY LEVEL PROBLEM	36318A	4	PROBLEM SOLVING	
REFLCT	: LEAST TIME PRINCIPLE AND LIGHT	36319A	4	ACZ1	: COMPUTER AIDED PRACTICE IN EE AC ANALYSIS 36152A 4
SNELL	: SNELL'S LAW	36320A	4	AREA	: COMPUTER-AUGMENTED CALCULUS TOPICS 36668A 4
SPACE	: SPACECRAFT ORBITS	36321A	4	COMPLX	: CAI IN ALGEBRA OF COMPLEX NUMBERS 36153A 4
TZCPL	: THERMOCOUPLE TABLE PACKAGE	36654A	2	CRVLEN	: COMPUTES LENGTH OF ANY CURVE 36333A 4
VFIELD	: POTENTIAL FIELD PICTURE	36322A	4	CVAREA	: AREA UNDER CURVE 36620A 4
VLOCY	: INSTANTANEOUS VELOCITY	36323A	4	DEZ1OR	: 1ST ORDER DIFFERENTIAL EQUATION 36032A 2
WAVFN	: COMPUTES AND PLOTS THE RADIAL PART OF HYDROGEN-LIKE WAVE FUNCTIONS	36733A	2	DEZ2OR	: 2ND ORDER DIFFERENTIAL EQUATION 36033A 2
PILOT					
PMAG	: STELLAR MAGNITUDES	36888-18018	4	DEZ1OR	: 1ST ORDER DIFFERENTIAL EQUATION 36032A 2
PZTUA	: PILOT TUTORIAL	36758B	4	DERSIN	: COMPUTER-AUGMENTED CALCULUS TOPICS 36663A 4
PZTUB	: PILOT TUTORIAL	36775A	4	DERTIV	: COMPUTER-AUGMENTED CALCULUS TOPICS 36662A 4
PZTUC	: PILOT TUTORIAL	36877A	4	DEPFEQ	: CAI IN SOLUTION OF LINEAR FIRST-ORDER DIFFERENTIAL EQUATIONS 36159A 4
PZTUD	: PILOT TUTORIAL	36888-18016	4	DIMIS	: X-Y AXIS SEGMENT PROGRAM 36277A 4
PTUE	: PILOT TUTORIAL	36888-18017	4	DVDRS	: CAI IN VOLTAGE AND CURRENT DIVIDERS 36156A 4
PLOT ROUTINES IN HP BASIC					
CANNON	: HP 7200A GAME*DEMO FOR TIME-SHARED BASIC	36110A	5	EXPNTL	: CAI IN SIMPLE EXPONENTIAL FUNCTIONS OF TIME 36148A 4
FGRAPH	: SIMULTANEOUS FUNCTION GRAPHER	36165A	1	FACTOR	: FINDS PRIME FACTORS OF POSITIVE INTEGERS 36037A 2
FPLOT	: FUNCTION PLOT	36112A	1	FUNDTH	: COMPUTER-AUGMENTED CALCULUS TOPICS 36664A 4
GRAPHS	: DEMO PLOT PROGRAM FOR HP 7200 PLOTTER	36115A	1	GRAPH1	: COMPUTER-AUGMENTED CALCULUS TOPICS 36665A 4
GRGLT	: SIMPLE REGRESSION AND PLOT	36542A	2	GRAPH2	: COMPUTER-AUGMENTED PHYSICS TOPICS 36666A 4
				INDMTR	: ANALYSIS OF A BALANCED POLYPHASE INDUCTION MOTOR 36154A 4
				JACOBI	: EIGENVALUES AND EIGENVECTORS OF A REAL SYMMETRIC MATRIX 36167A 4
				LIMSIN	: LIMIT OF (SIN X)/X 36622A 4
				LINES	: CONVERSATIONAL COMPUTER GENERATED CALCULUS QUIZ 36700A 4
				LOGIC	: LOGIC EXAMINATION PROGRAMS 36251B 4
				ORBIT	: INTEGRATES EQUATIONS OF MOTION 36121A 4
				PI	: CALCULATES PI 36623A 4

	PROGRAM NUMBER	VOLUME
QUADT : NATURE OF GRAPH OF A 2ND ORDER EQUATION IN TWO VARIABLES	36335A	4
RATIO : SOLVES PROPORTIONS	36336A	4
ROOTS2 : QUADRATIC EQUATION SOLVER	36625A	4
SETS : UNION AND INTERSECTION OF SETS	36337A	4
SLOPE : FINDS DERIVATIVES	36626A	4
SOLVER : SOLVES COMPLEX SIMULTANEOUS EQUATIONS	36149A	4
SPCTRA : OPTICAL ABSORPTION SPECTRA SIMULATION, 2-SPECIES EQUILIBRIUM MIXTURES	36184A	4
SQRT : FINDS SQUARE ROOT	36627A	4
SURFAC : AREA OF SURFACE OF REVOLUTION	36338A	4
SYSSOL : SOLVING SYSTEMS OF LINEAR EQUATIONS	36278A	4
TRUTH : TRUTH TABLES FOR BOOLEAN EXPRESSIONS	36602B	4
UNITS : CAI IN INTERPRETATION OF EE UNITS	36157A	4
VOLSOL : VOLUME OF SOLID OF REVOLUTION	36339A	4
PROGRAMMING AIDS (212)		
FILES : FILE MANIPULATION - CREATES, SORTS, UPDATES, COPIES, CHANGES FORMAT	36645B	1
FINDIT : INFORMATION RETRIEVAL SYSTEM	36250D	1
PROGRAMMING AND COMPUTER SCIENCE (EDUCATION) (810)		
BRAIN : BRAIN SIMULATOR PROGRAM	36219A	4
PMAG : STELLAR MAGNITUDES	36888-18018	4
PZTUA : PILOT TUTORIAL	36758B	4
PZTUB : PILOT TUTORIAL	36775A	4
PZTUC : PILOT TUTORIAL	36877A	4
PZTUD : PILOT TUTORIAL	36888-18016	4
PTUE : PILOT TUTORIAL	36888-18017	4
PILOTF : PILOT 73 AUTHOR LANGUAGE FOR THE HP 2000F	36756B	4
POLISH : POLISH CONVERSION	36888-18014	4
SNOBOL : SNOBOL3 COMPILER FOR HP 2000C SYSTEM	36849B	4
STOP : COMPUTER LITERACY - PSEUDO-MACHINE LANGUAGE	36208B	4
STPAL : STOP MACHINE AND ASSEMBLY LANGUAGE SIMULATOR	36765A	4
TM : TURING MACHINE SIMULATOR	36743A	4
RANDOM NUMBER GENERATORS (405)		
RNDORD : PLACING INTEGERS IN RANDOM ORDER	36264A	2
UNLETH : UNILETH STATISTICS PACKAGE	36888-18021	2
RANK		
GRANK : RANKING STATISTICS	36541A	2
STAT2 : MANN-WHITNEY 2 SAMPLE RANK TEST	36052A	2
STAT20 : FRIEDMAN TWO-WAY ANALYSIS OF VARIANCE	36608A	2
STAT3 : SPEARMAN RANK CORRELATION COEFFICIENTS	36053A	2
READING (EDUCATION) (872)		
VOCAB : CAI IN WORD USAGE	36880A	4
REGRESSION ANALYSIS (404)		
CURFIT : PERFORMS LEAST SQUARES FIT	36038D	2
GRPLT : SIMPLE REGRESSION AND PLOT	36542A	2
MLREG : MULTIPLE REGRESSION PROGRAM	36661A	2
MULREG : MULTIPLE REGRESSION/CORRELATION	36178A	2
MULTX : LEAST-SQUARES FIT, MULTIPLE Y'S PER X	36186B	2
POLFIT : FITS LEAST-SQUARES POLYNOMIALS	36023B	2
PSRC : POWER SERIES REGRESSION CURVE WITH X-AXIS OFFSET	36793A	2
REGCOR : REGRESSION/CORRELATION	36054B	2
REGRES : STEP-WISE REGRESSION	36738A	2
RETURN		
GIRRPV : INVESTMENT RETURN (CASH FLOW)	36513A	3
RISK		
GRISKA : RISK ANALYSIS IN CAPITAL INVESTMENT	36543A	3
ROOTS		
ROOTER : FINDS THE ROOTS OF POLYNOMIALS	36024A	2
ROOTNL : FINDS ROOTS OR FIXED POINTS OF A NON-LINEAR FUNCTION	36697A	2
ROOTNR : LOCATES ROOT OF A FUNCTION WHOSE DERIVATIVE IS KNOWN	36696A	2
ROOTS2 : QUADRATIC EQUATION SOLVER	36625A	4
ROVER : GUIDE ROVER ROBOT ACROSS A GRID, BUT WATCH OUT FOR THE STOP SIGNS!	6881A	5
RUNGE-KUTTA		
DEZIOR : 1ST ORDER DIFFERENTIAL EQUATION	36032A	2
DEZIOR : 2ND ORDER DIFFERENTIAL EQUATION	36033A	2
SALES FORECASTING (710)		
SALES : SALES COMMISSION REPORT	36095A	3
SCIENCE (EDUCATION) (833)		
ALERA : PROPAGATION OF ERROR	36603B	4
ATOM : DERIVES THE ELECTRONIC CONFIGURATION OF ANY ELEMENT	36705A	4

	PROGRAM NUMBER	VOLUME
ATWT : CALCULATES ATOMIC WEIGHT	36613A	4
AVOGA : AVOGADRA'S NUMBER	36614A	4
BFIELD : MAGNETIC FIELD PICTURE	36312A	4
BOHR : ENERGY LEVEL DIAGRAM	36313A	4
BOLA : NUCLEAR PHYSICS GAME	36879A	4
CALORI : CALORIMETRY EXPERIMENT	36314A	4
CHARG : MILLIKAN'S OIL-DROP EXPERIMENT	36621A	4
CHEM : SELF-CORRECTING CHEMISTRY TEST	36295B	4
CHEM1 : CAI IN CHEMISTRY	36878B	4
CLIMAT : CLIMATE TEACHING PROGRAM	36760A	4
CLOUDS : CLOUD FORMATION	36325A	4
CONVRT : TEMPERATURE SCALE CONVERSION	36685A	4
CRVFT : LEAST-SQUARES CURVEFITTING	36633A	2
DECAY1 : RADIOACTIVE DECAY GAME	36306A	4
DECAY2 : NUCLEAR DECAY	36307A	4
DRAGON : SOLAR ECLIPSE SIMULATION	36785A	4
DROS : GENETIC CHARACTERISTICS	36300A	4
EFIELD : ELECTRIC FIELD STRENGTH	36629A	4
EINDIS : EINSTEIN DISTORTIONS	36716A	4
ELMNT : DRILL ON SYMBOLS FOR CHEMICAL ELEMENTS	36267A	4
EMPIR : CALCULATES EMPIRICAL FORMULAS	36615A	4
EQUILL : EQUILIBRIUM SYSTEMS	36308A	4
EVOLU : NATURAL SELECTION EXPERIMENT	36301A	4
GAMGN : PROCESS OF GAMETOGENESIS	36302A	4
GRAZE : GRASSLANDS ECOLOGY SIMULATION	36746A	4
IONIC : DRILL ON FORMULAS AND CHARGES OF IONS	36260A	4
IONIC1 : DRILL ON FORMULAS OF IONIC COMPOUNDS	36266A	4
ISOMER : DRILL ON NAMING ALKANES	36261A	4
KINERV : REVIEW OF KINEMATICS	36315A	4
KINET : KINETIC REACTION	36309A	4
LANDER : ROCKET LANDING VEHICLE	36684A	5
LANDIN : COMPUTER-AUGMENTED PHYSICS TOPICS	36670A	4
LENSES : SOLVES LENS PROBLEMS	36630A	4
LOCKEY : LOCK & KEY MODEL OF ENZYME ACTION	36624A	4
MALAR : MALARIA ERADICATION PROGRAM	36797A	4
MASSD : MASS DEFECT	36310A	4
MEMBR : DIFFUSION EXPERIMENT	36611A	4
MKS1 : COMPUTER-AUGMENTED PHYSICS TOPICS	36671A	4
MKS2 : COMPUTER-AUGMENTED PHYSICS TOPICS	36673A	4
MOLAR : ACID-BASE TITRATION	36616A	4
NEWTN2 : NEWTON'S 2ND LAW	36316A	4
NZYM2 : ENZYME REACTION RATE	36304A	4
NZYM : ENZYMIC REACTION RATES	36303A	4
ORBIT : INTEGRATES EQUATIONS OF MOTION	36121A	4
ORGL : TEACHES STRAIGHT ALKANE NOMENCLATURE AND NAMING OF BRANCHED ALKANES	36826A	4
ORG5 : TEACHES NOMENCLATURE OF ALKYL HALIDES AND ALCOHOLS	36888-18011	4
ORGCHE : DRILL ON ORGANIC COMPOUND NOMENCLATURE	36646A	4
PZHYP : SCIENTIFIC METHOD AND HYPOTHESIS	36759A	4
PZKEPL : KEPLER'S 3RD LAW	36779A	4
PHOSYN : PHOTOSYNTHESIS EXPERIMENT	36305A	4
PHOTEL : PHOTOELECTRIC EFFECT	36317A	4
PHOTON : ENERGY LEVEL PROBLEM	36318A	4
PHPOH : PH, POH, PCT, DISSOCIATION	36617A	4
PLANK : A PHOTOELECTRIC SIMULATION	36350A	4
POLUT : WATER POLLUTION SIMULATION	36639B	4
POP : POPULATION GROWTH	36844A	4
PRCNT : PERCENT COMPOSITION	36311A	4
PRJTL : PROJECTILE MOTION	36631A	4
REFLECT : LEAST TIME PRINCIPLE AND LIGHT	36319A	4
REFLEC : COMPUTER-AUGMENTED PHYSICS TOPICS	36672A	4
REFRAC : COMPUTER-AUGMENTED PHYSICS TOPICS	36669A	4
SLITS : YOUNG'S DOUBLE SLIT EXPERIMENT	36351B	4
SNELL : SNELL'S LAW	36320A	4
SPACE : SPACECRAFT ORBITS	36321A	4
SPCTRA : OPTICAL ABSORPTION SPECTRA SIMULATION, 2-SPECIES EQUILIBRIUM MIXTURES	36184A	4
STERL : FLY POPULATION CONTROL	36641B	4
STOICH : MASS VOLUME	36618A	4
SUNSET : SUNRISE-SUNSET PREDICTOR	36180A	2
TITER : SIMULATES TITRATION OF A BASE BY AN ACID	36888-18006	4
TRIVIA : COMMON NAME QUIZ FOR CHEMISTRY STUDENTS	36888-18012	4
USPOP : HUMAN POPULATION PROJECTION	36802A	4
VFIELD : POTENTIAL FIELD PICTURE	36322A	4
VELOCT : INSTANTANEOUS VELOCITY	36323A	4
WATER1 : WATER BUDGET PROBLEM CHECK	36326A	4
WATER2 : WATER BUDGET	36327A	4
WAVES : SUM OF TWO WAVES	36324B	4
WAVEN : COMPUTES AND PLOTS THE RADIAL PART OF HYDROGEN-LIKE WAVE FUNCTIONS	36733A	2
SECURITIES		
GDPA : EFFICIENT 'CORNER' PORTFOLIOS	36508B	3
GKASSF : WARRANT PRICE CALCULATION	36514A	3
GKOST : PRICE/EARNINGS RATIO CALCULATION	36515A	3
GNMRVB : SECURITIES PORTFOLIO ANALYSIS AND DETERMINATION	36530A	3

	PROGRAM NUMBER	VOLUME
GSPMG : STANFORD PORTFOLIO MANAGEMENT GAME	36502A	4
GSTKVL : STOCK VALUATION	36545A	3
SIMPSON		
BESSEL : CALCULATES BESSEL FUNCTION OF FIRST KIND	36019A	2
SIMULATION		
ATWT : CALCULATES ATOMIC WEIGHT	36613A	4
AVOGA : AVOGADRA'S NUMBER	36614A	4
BALANC : TRADE AND PAYMENT BALANCES	36328A	4
BANK : SOLVES FINANCIAL PROBLEMS	36329B	4
BFIELD : MAGNETIC FIELD PICTURE	36312A	4
BNKSIM : SIMULATES ONE YEAR'S DEPOSIT AND WITHDRAWAL ACTIVITIES OF SMALL BANK	36713A	4
BOHR : ENERGY LEVEL DIAGRAM	36313A	4
BRAIN : BRAIN SIMULATOR PROGRAM	36219A	4
CALORI : CALORIMETRY EXPERIMENT	36314A	4
CHARG : MILLIKAN'S OIL-DROP EXPERIMENT	36621A	4
CHARGE : CHARGE ACCOUNT SIMULATION	36604A	4
CIRFLW : CIRCULAR FLOW MODEL	36632A	4
CIVIL2 : A SIMULATION WHICH RECREATES 14 CIVIL WAR BATTLES	36869A	5
CLOUDS : CLOUD FORMATION	36325A	4
CONSPM : DEPRESSION/EQUILIBRIUM	36330A	4
DECAY1 : RADIOACTIVE DECAY GAME	36306A	4
DECAY2 : NUCLEAR DECAY	36307A	4
DECSN : TOP MANAGEMENT DECISION GAME	36065C	3
DROS : GENETIC CHARACTERISTICS	36300A	4
EFIELD : ELECTRIC FIELD STRENGTH	36629A	4
EMPIR : CALCULATES EMPIRICAL FORMULAS	36615A	4
EQUIL1 : EQUILIBRIUM SYSTEMS	36308A	4
EVOLU : NATURAL SELECTION EXPERIMENT	36301A	4
GAMGN : PROCESS OF GAMETOGENESIS	36302A	4
GMCRO1 : FISCAL POLICY GAME	36519A	4
GMCRO5 : ECONOMIC POLICY GAME	36521A	4
GRAZE : GRASSLANDS ECOLOGY SIMULATION	36746A	4
GRISKA : RISK ANALYSIS IN CAPITAL INVESTMENT	36543A	3
GSSS : SMALL SYSTEMS SIMULATOR	36552A	3
GVOTE : COMMITTEE CHOICE ANALYSIS	36550A	3
HAMBRI : AN ECONOMIC SITUATION TAKING PLACE IN THE ANCIENT CITY-STATE OF SUMER	36874A	5
KINERV : REVIEW OF KINEMATICS	36315A	4
KINET : KINETIC REACTION	36309A	4
KING : IF YOU SURVIVE YOUR EIGHT YEAR TERM...WE CONGRATULATE YOU	367773A	5
LABOR : LABOR/MANAGEMENT BARGAINING	36233A	4
LANDIN : COMPUTER-AUGMENTED PHYSICS TOPICS	36670A	4
LOCKEY : LOCK & KEY MODEL OF ENZYME ACTION	36624A	4
MALAR : MALARIA ERADICATION PROGRAM	36797A	4
MASSD : MASS DEFECT	36310A	4
MCMAN : CARDIOVASCULAR SIMULATION	36888-18002	4
MEMBR : DIFFUSION EXPERIMENT	36611A	4
MKS1 : COMPUTER-AUGMENTED PHYSICS TOPICS	36671A	4
MKS2 : COMPUTER-AUGMENTED PHYSICS TOPICS	36673A	4
MOLAR : ACID-BASE TITRATION	36616A	4
NEWTN2 : NEWTON'S 2ND LAW	36316A	4
NZYM2 : ENZYME REACTION RATE	36304A	4
NZYM : ENZYMIC REACTION RATES	36303A	4
PHOSYN : PHOTOSYNTHESIS EXPERIMENT	36305A	4
PHOTEL : PHOTOELECTRIC EFFECT	36317A	4
PHOTON : ENERGY LEVEL PROBLEM	36318A	4
PHPOH : PH, POH, PCT, DISSOCIATION	36617A	4
PLANK : A PHOTOELECTRIC SIMULATION	36350A	4
POLICY : STUDENTS FORMULATE NATIONAL POLICY	36649A	4
POLSYS : SIMULATION OF CITY COUNCIL	36640B	4
POLUT : WATER POLLUTION SIMULATION	36639B	4
POP : POPULATION GROWTH	36844A	4
PRCNT : PERCENT COMPOSITION	36311A	4
PRJTL : PROJECTILE MOTION	36631A	4
REFLEC : COMPUTER-AUGMENTED PHYSICS TOPICS	36672A	4
REFRAC : COMPUTER-AUGMENTED PHYSICS TOPICS	36669A	4
SAP : SURVEY ANALYSIS PROGRAM	36843A	4
SIMLAT : SIMULATION OF INVESTMENT RETURNS WITH SENSITIVITY ANALYSIS	36888-18019	3
SLITS : YOUNG'S DOUBLE SLIT EXPERIMENT	36351B	4
SLOT : SIMULATES A SLOT MACHINE (USE IN NEVADA ONLY)	36107A	5
SNELL : SNELL'S LAW	36320A	4
SNOBOL : SNOBOL3 COMPILER FOR HP 2000C SYSTEM	36849B	4
SPACE : SPACECRAFT ORBITS	36321A	4
STABIL : FEDERAL GOVERNMENT STABILIZATION POLICY	36888-18023	4
STERL : FLY POPULATION CONTROL	36641B	4
STOCK : STOCK MARKET SIMULATION	36331A	4
STOICH : MASS VOLUME	36618A	4
STPAL : STOP MACHINE AND ASSEMBLY LANGUAGE SIMULATOR	36765A	4
TITER : SIMULATES TITRATION OF A BASE BY AN ACID	36888-18006	4

	PROGRAM NUMBER	VOLUME
USECON : TESTING ECONOMIC HYPOTHESES	36888-18031	4
VFIELD : POTENTIAL FIELD PICTURE	36322A	4
VLOCTY : INSTANTANEOUS VELOCITY	36323A	4
WATER1 : WATER BUDGET PROBLEM CHECK	36326A	4
WATER2 : WATER BUDGET	36327A	4
WAVES : SUM OF TWO WAVES	36324B	4
SIMULTANEOUS		
CXSYSS : SOLVING SYSTEMS OF COMPLEX LINEAR EQUATIONS	36262A	4
GSIMEQ : SIMULTANEOUS LINEAR EQUATIONS	36547B	2
SOLVIT : SIMULTANEOUS LINEAR EQUATIONS USING GAUSSIAN REDUCTION	36196A	2
SYSSOL : SOLVING SYSTEMS OF LINEAR EQUATIONS	36278A	4
SOCIAL AND BEHAVIORAL SCIENCES (501)		
INQUIR : SOCIAL SCIENCE INQUIRY PACKAGE	36888-18001	4
SOCIAL SCIENCE (EDUCATION) (860)		
BALANC : TRADE AND PAYMENT BALANCES	36328A	4
BANK : SOLVES FINANCIAL PROBLEMS	36329B	4
CHARGE : CHARGE ACCOUNT SIMULATION	36604A	4
CIVIL2 : A SIMULATION WHICH RECREATES 14 CIVIL WAR BATTLES	36869A	5
CONSPM : DEPRESSION/EQUILIBRIUM	36330A	4
ELECT : CAMPAIGN STRATEGY AND ELECTIONS	36798A	4
HAMBRI : AN ECONOMIC SIMULATION TAKING PLACE IN THE ANCIENT CITY-STATE OF SUMER	36874A	5
INQUIR : SOCIAL SCIENCE INQUIRY PACKAGE	36888-18001	4
KING : IF YOU SURVIVE YOUR EIGHT YEAR TERM...WE CONGRATULATE YOU	36773A	5
MALAR : MALARIA ERADICATION PROGRAM	36797A	4
POLICY : STUDENTS FORMULATE NATIONAL POLICY	36649A	4
POLSYS : SIMULATION OF CITY COUNCIL	36640B	4
PYRMID : BUILD A PYRAMID	36888-18013	4
SAP : SURVEY ANALYSIS PROGRAM	36843A	4
STABIL : FEDERAL GOVERNMENT STABILIZATION POLICY	36888-18023	4
STOCK : STOCK MARKET SIMULATION	36331A	4
USECON : TESTING ECONOMIC HYPOTHESES	36888-18031	4
USPOP : HUMAN POPULATION PROJECTION	36802A	4
SORTING AND MERGING (107)		
EDITOR : FILE MANIPULATION - CREATES, EDITS, LISTS, SORTS, EMULATES G.E. MK II.	36749A	1
FINDIT : INFORMATION RETRIEVAL SYSTEM	36250D	1
IRV : FILE SORT ROUTINE	36232A	1
PI2 : INFORMATION SYSTEM	36737A	1
REP : DATA CENTER INVENTORY REPORT GENERATOR	36177A	3
SORT : FILE SERIAL STRING SORT	36122A	1
SPSORT : SPEED SORT - GENERAL PURPOSE FILE SORT	36736A	1
STANFORD		
GCPATH : CRITICAL PATH ANALYSIS	36504A	3
GCPM1 : CRITICAL PATH ANALYSIS	36505A	3
GDPA : EFFICIENT 'CORNER' PORTFOLIOS	36508B	3
GPNRAT : FINANCIAL RATIOS	36510A	3
GINTLP : LINEAR PROGRAMMING-VARIABLES RESTRICTED TO VALUES OF ONE OR ZERO	36512A	3
GKASSF : WARRANT PRICE CALCULATION	36514A	3
GLP : LINEAR PROGRAMMING	36516A	3
GLPSAL : LINEAR PROGRAMMING TWO-PHASE SIMPLEX METHOD	36517A	3
GMCRO1 : FISCAL POLICY GAME	36519A	4
GMCRO5 : ECONOMIC POLICY GAME	36521A	4
GNETFL : NETWORK FLOW	36529A	3
GNMVRB : SECURITIES PORTFOLIO ANALYSIS AND DETERMINATION	36530A	3
GRANK : RANKING STATISTICS	36541A	2
GRGFLT : SIMPLE REGRESSION AND PLOT	36542A	2
GSIMEQ : SIMULTANEOUS LINEAR EQUATIONS	36547B	2
GSPMG : STANFORD PORTFOLIO MANAGEMENT GAME	36502A	4
GSTKVL : STOCK VALUATION	36545A	3
GTAPID : PAPER TAPE TITLER	36548A	1
GTASPD : SUBJECTIVE PROBABILITY DISTRIBUTION	36549A	2
GTHOR : SECURITIES EPS GROWTH	36553A	3
GPVQDT : PLOTTING DATA	36554A	3
GWBULL : SUBJECTIVE PROBABILITY - RANDOM VALUES	36551A	2
STATISTICS, GENERAL (408)		
ZAIRE : QUESTIONNAIRE ANALYSIS	36807A	1
AVERG1 : AVERAGES AND CURVES GRADES	36340B	4
BASKET : BASKETBALL STATISTICS	36605A	4
BICONF : CONFIDENCE LIMITS	36691A	2
BITEST : BINOMIAL PROPORTION	36692B	2
CHISQ : COMPUTES PROBABILITY OF CHI-SQUARE VALUES	36042A	2
CHISQS : CHI-SQUARE STATISTICS FOR M*N CONTINGENCY TABLES	36043B	2

	PROGRAM NUMBER	VOLUME
COFTAB : CONVERSATIONAL FREQUENCY AND CROSS TABULATOR	36888-18020	2
EVPI : COMPUTES THE EXPECTED VALUE OF PERFECT INFORMATION	36688A	2
FC : ANALYSIS OF LOG TAPE	36120A	2
FREQ : BAR GRAPHS OF GRADES	36341A	4
FREQ1 : FAST FREQUENCY DISTRIBUTIONS	36864A	2
FRQ : FREQUENCY BETWEEN BOUNDRIES	36191C	2
GEOMEN : STATISTICS OF GEOMETRIC DISTRIBUTION	36045A	2
GRADE : TEST GRADE FOR NUMBER OF QUESTIONS MISSED	36342A	4
GRANK : RANKING STATISTICS	36541A	2
HISS : SAMPLE STATISTICS AND HISTOGRAM FORMED FROM A SET OF NUMBERS	36235A	1
HISTOG : A HISTOGRAM FORMED FROM A SET OF NUMBERS	36055B	2
INQUIR : SOCIAL SCIENCE INQUIRY PACKAGE	36888-18001	4
ITEM1 : NUMBER FREQUENCIES	36343A	4
KR20 : ITEM ANALYSIS AND KUDER-RICHARDSON FORMULA 20 RELIABILITY	36137A	2
MANDSD : CALCULATES BASIC STATISTICS FOR GROUPED AND/OR UNGROUPED DATA	36748A	2
MARKOV : COMPUTES FOR AN ERGODIC MARKOV CHAIN	36701A	2
PMSD : POOLED MEANS AND STANDARD DEVIATIONS	36863A	2
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REGCOR : REGRESSION/CORRELATION	36054B	2
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