



Accumulative Index of Publications and Programs - IBM 1401

Section 1: Form Numbers of publications included in the 1401/1460 Systems Reference Library are listed below, with the edition suffix of all current editions shown. When more than one edition of a publication is current, the form number is followed by *. Any Technical Newsletter applying to a later edition also applies to all prior editions but is only listed once. If the changes released in Technical Newsletters are inserted in their proper place, each current edition will correspond to any of the others. # These items are for World Trade Use Only; not available in U.S.A.

Changes since the last edition of this Newsletter are in parenthesis.

Table with 3 columns: SUBJ FORM CODE NUMBER, TECHNICAL NEWSLETTERS, and TITLE. It lists various publications and programs under categories 00 GENERAL INFORMATION, 01 MACHINE SYSTEM, and 03 INPUT/OUTPUT.

International Business Machines Corporation, Publishing Administration Dept., 112 E. Post Rd., White Plains, N. Y.

Requests for copies of the publications listed herein or for changes to SRL Subscription Service should be directed to your IBM representative or the IBM Branch Office serving your locality.

A24-3041-2		1403 and 1443 Printers Form Design Considerations
A24-1446-1		1404 Printer
A24-1421-1*	N24-0253	1412 Magnetic Character Reader Model 1 - Reference Manual
A24-1421-2*	N24-0316 N24-0354	
A24-1421-3*	(N24-0433)	
A24-1473-0*	N24-0261	1418 Optical Character Reader - 1428 Alphameric Optical Reader
A24-1473-1*	N24-0312-1	
A24-1473-2*	N24-0383 N24-0413	
A24-1452-1*	N24-0310	1418/1428 Print Quality Considerations
A24-1452-2*		
A24-3120-6		1443 Printer Models 1 to 4 and N1 1445 Printer Models 1 and N1
A24-3031-3*	N24-0305	1447 Console
A24-3031-4*		High-Speed Reader Sorter Operations Manual
C20-1607-0*		
C20-1607-1*		
<u>05 MAGNETIC TAPE UNITS AND CONTROLS</u>		
A22-6589-2*	N22-0120	729, 8330, and 727 Magnetic Tape Units Principles of Operation
A24-1470-0		7340 Hypertape Drive Model 2
<u>07 DIRECT ACCESS STORAGE UNITS AND CONTROLS</u>		
A24-3157-0		1301 Disk Storage Models 11, 12, 21 and 22
A22-6784-0		1301 and 1302 Disk Storage Sequential Data Organization
A26-5991-0		1311 Disk Storage Drive
A24-3085-0		1405 Disk Storage Unit
A26-5756-6		Disk Pack and Cartridge Handling Procedures
<u>09 TELEPROCESSING EQUIPMENT</u>		
<u>13 SPECIAL AND CUSTOM FEATURES</u>		
A21-9065-1		1322 and 534 Custom Features Descriptions
A24-3342-0		Batch Numbering Feature for 1241 and 1419 Magnetic Ink Character Recognition Readers
A24-3071-2		1401/60 Special Feature Instructions
L24-1408-1		1401 Special Systems Features Bulletin - Paper Tape Reader Input, RPQ E95528
L24-1429-0		1401 Special Systems Features Bulletin - Paper Tape Punch Output, RPQ E98337
L24-1465-1		1401 Special Systems Features Bulletin - 1403 Printer Output, RPQ E96450
L24-3102-2		Modified Character Sets for 1403 Print Chain and Print Trains
A24-3315-0		Custom Features for 1401/40/60
A24-3081-2*		1418 and 1428 - Mark Read Station (Slanted Mark)
A24-3081-3*		
A24-3036-1	N24-0298	Endorser Special Feature - Magnetic Character Readers
<u>15 PHYSICAL PLANNING SPECIFICATIONS</u>		
C24-1404-7*	N24-0306 N24-0357	1401 Installation Manual - Physical Planning
C24-1404-8*	N24-0377 N24-0407	
C24-1404-9*		
A24-1493-2	N24-0358 N24-0378	1460 Installation Manual - Physical Planning
	N24-0382	
C22-6674-0	N22-0103	7340 Hypertape Drive Model 2 for 1401/60 1410 Systems - Physical Planning Specifications (Tentative)
<u>19 ORIGINAL EQUIPMENT MANUFACTURERS' INFORMATION</u>		
A22-6643-3		729 II, IV, V, VI, Magnetic Tape Units Original Equipment Manufacturers' Information
A21-9020-0		1231 Optical Mark Page Reader Original Equipment Manufacturers' Information
A26-5713-1*	N26-0115	1311 Disk Storage Drive Original Equipment Manufacturers' Information
A26-5713-2*		
A24-1424-1		1401 Processing Unit Original Equipment Manufacturers' Information

A31-1400-2	N21-0020		1402 Card Read - Punch Original Equipment Manufacturers' Information
A24-1431-3			1403 Printer Original Equipment Manufacturers' Information
A24-3356-0			1404 Printer Model 2 Original Equipment Manufacturers' Information
A24-3199-0	N24-0227		1460 Data Processing System Original Equipment Manufacturers' Information
A22-6619-3			7330 Magnetic Tape Unit Original Equipment Manufacturers' Information
20 PROGRAMMING SYSTEMS - GENERAL			
(C20-1601-9 N20-0013-18)			
A22-6776-0			Catalog of Programs for 1240-1401 - 1420-1440 and 1460 Data Processing Systems
			7710 Data Communication Unit Principles of Operation
21 SYMBOLIC ASSEMBLY SYSTEMS			
C24-1480-0			1401 Symbolic Programming Systems
22 AUTOCODER			
C24-3319-0			1401/60 - Autocoder (on Tape) Language Specifications and Operating Procedures
C24-3258-2			1401/40/60 - Autocoder (on Disk) Language Specifications
C24-3259-1*	N21-0039	N24-0270	1401/40/60 - Autocoder (on Disk) Program Specifications and Operating Procedures
	N24-5004		
C24-3259-2*	N21-5004		
C24-3259-3*			
C24-3262-0*	N24-0276		1401 Basic Autocoder 2K Operating Procedures
C24-3262-1*			1401 and 1460 Basic Autocoder 2K Specifications
C24-3170-1			
24 COBOL			
F28-8053-1*	N28-0019		COBOL - General Information Manual
F28-8053-2*			1401 - COBOL (On Tape) Specifications
C24-1492-2			1401/40/60 - COBOL (On Disk) Specifications
C24-3235-2			1401/40/60 - COBOL (On Disk) Program Specifications - Operating Procedures
C24-3242-2			1401 COBOL (on Tape) Operating Procedures
C24-3146-3			
25 FORTRAN			
F28-8074-2*			FORTRAN - General Information Manual
F28-8074-3*			1401/40/60 - FORTRAN IV Language Specifications, Program Specifications, and Operating Procedures, 1401-FO-051 (Disk Resident System) 1401-FO-052 (Tape Resident System)
C24-3322-2	N21-5051		1401 - FORTRAN Specifications and Operating Procedures
C24-3322-3*			
C24-1455-1*	N21-0046		
C24-1455-2*			
28 REPORT PROGRAM GENERATOR			
C24-3261-0*	N24-0251	N24-0265	1401/40/60 - Report Program Generator on Disk, Specifications
C24-3261-1*			1401/60 - Basic 4K Report Program Generator Specifications
C24-3166-0*	N21-0029	N24-0277	1401/60 - Basic 4K Report Program Generator Operating Procedures
C24-3166-1*			1401/60 - Report Program Generator (on Disk) Operating Procedures 1401-RG-052 Version 2
C24-3267-0			1401 Data Processing System Bulletin - Report Program Generator for 1401 Card and Tape Systems
C24-3334-0			FARGO for 1401
J24-0215-2			
C24-1464-0*	N24-0039		1401 Data Processing Bulletin - Report Program Generator for IBM RAMAC 1401 Systems: Preliminary Specifications
C24-1464-1*			
C24-1464-2*	N24-0231		
C24-1464-3*			
J24-1467-0			

30 INPUT/OUTPUT CONTROL SYSTEM

C24-1462-2*	N24-0286		1401/60 - Input/Output Control System (on Tape) Specifications and Operating Procedures
C24-1462-3*			
C24-1489-2*	N24-0200		Input/Output Control System (on Disk) for 1401/60 Specifications
C24-1489-3*			
C24-3237-1	N21-5017		Input/Output Control Program Specifications 1401/40/60 with 1285 Optical Reader
A19-0009-0#			1401-1419 Expanded Codeline Input/Output Control Program
C24-3047-2			Input/Output Control System Specifications 1460 with 1448 1401/60 Communications Input/Output Control System - 1448 Direct Data Channel
C24-3025-3			Direct Data Channel Input/Output Control System for 1401/40/60: Specifications Communications Input/Output Control System
C24-3298-0			1401/60 Input/Output Control System (on Disk) Operating Procedures
C24-3174-1			Communications Input/Output Control System Operating Procedures for 1401/60 1401/60 Communications Input/Output Control System - 1448/Direct Data Channel

32 UTILITY PROGRAMS

J24-1463-0			1401 - 1009 Utility Programs: Preliminary Specifications
C24-1484-2*	N21-0054	N21-5001	1401/40/60 Disk Utility Programs Specifications with 1301/1311
	N24-0287		
C24-1484-3*			
J24-1411-1*			Utility Programs for 1401 Tape Systems - Specifications
J24-1411-2*	N21-0030		
J24-1411-3*			
J24-1428-2			1401 Multiple Tape Utility Program Specifications and Operating Procedures
C24-3273-0	N24-0215		1401/60 Multiple Tape Utility Program Incorporating 120-Character Labels Specifications and Operating Procedures
C24-3105-2*	N24-0296		1401/60 Disk Utility Programs Operating Procedures with 1301 and 1311
C24-3105-3*			
C24-3132-0			1401 Hypertape Utility Programs Operating Procedures
J24-1485-0			1401 Data Processing Bulletin - 1012 Tape Punch Routine
J24-0209-2			1401 Card Systems: Preliminary Specifications
J24-1426-2			1401 Disk Storage: Utility Programs
C22-6777-0			Utility Programs for 1401 Equipped with the 7710 Data Communication Unit

33 SORT/MERGE

C24-3345-1*	N24-0294	N24-5019	1401/60 Timing Programs for System/360 Basic Programming Support 1401-LM-078 - Version 2 Sort/Merge Programs 8K Tape 1401-LM-080 - Version 1
C24-3345-2*	N21-5014	N21-5039	
C24-3345-3*			
C24-3377-0			1401/60 Timing Program for Basic Operating System/360 Sort/Merge Program 1401-LM-079
C24-3439-1*	N21-5015	N24-5065	IBM 1401/1460 Timing Program for IBM System/360 Disk and Tape Operating Systems Tape Sort/Merge Program 1401-LM-010 2401-2404 and 1401-LM-012 2415
C24-3439-2*			
C24-3439-3*			
C24-3445-1	N24-5125		IBM 1401/1460 Timing Program for IBM System/360 Disk Operating System Sort/Merge Program 1401-LM-011
J24-1422-1*	N24-0162		1401 Sort 1 Specifications
J24-1422-2*			
C24-3057-0	N24-0079		Sort 3 for 1401: Preliminary Specifications
C24-3077-0*			Sort 3 for 1401: Operating Procedures-
C24-3077-1*			
C24-3087-0	N24-0189		Sort 4 for 1401: Operating Procedures
C24-1420-4*	N21-0035		Sort Programs for 1401/60 - 1211 Specifications and Operating Procedures Generative Program: Sort 6 Object Programs: Sorts 61, 62, 63, and 64

C24-1420-5*	N21-5083		
C24-3176-1			Sort 5 and Sort 6 Timing Program Specifications and Operating Procedures IBM 1401 and 1460
C24-3053-3			1401/60 Merge 6 Specifications and Operating Procedures 1401-SM-063 - Prog. No. 1401-SM-063
C24-3317-0*	N21-0042	N21-5000	1401/60 Sort 7 Specifications and Operating Procedures 1401-SM-060
C24-3317-1*	N24-0279		
C24-1456-1*	N21-5002	N24-0291	1401/60 Sort 7 Timing Specifications and Operating Procedures
C24-1456-2*			
C24-3324-1			1401/60 Merge 7 Specifications and Operating Procedures 1401-SM-06
C24-3311-0			1401/60 Sort 13 and Sort 14 Timing Program Specifications and Operating Procedures 1401-LM-077
C24-3279-0	N24-0245		1460 Sort 14 Specifications
C24-3289-0			1460 Sort 14 Operating Procedures
<u>34 DISK STORAGE FILE ORGANIZATION</u>			
C24-3185-1*	N24-0252		1401/40/60 1311 and 1301 Disk File Organization Routines Specifications
C24-3185-2*			
C24-3128-4*	N21-0056		1401/60 1311 and 1301 Disk File Organization Routines - Operating Procedures
C24-3128-5*			
C24-1451-0			1401-1405 Disk File Organization Routines Specifications
<u>36 SUPERVISORS - MONITORS</u>			
<u>37 AUTOMATIC TESTING PROGRAM</u>			
C24-3195-0*	N24-0204		Autotest for 1401/60 with 1311: Specifications and Operating Procedures
C24-3195-1*	N24-0272		
C24-3195-2*			
F20-0234-1*	N24-0120		Autotest for 1401 Specifications and Operating Procedures 1401-AT-042
F20-0234-2*			
<u>48 MISCELLANEOUS PROGRAMS</u>			
C24-3384-1			1401/40/60 - 1026 and 1440/1448 Operating Systems Computer Assisted Instruction Author and Proctor Manual
C24-3385-1			1401/40/60 - 1026 and 1440/1448 Operating Systems Computer Assisted Instruction Student Manual
C24-3012-0			Standard Labeling Procedure for 1311 Disk Storage Drive
C24-1091-1			Programming for 1401/1428 Optical Readers
J28-6173-0			7000 and 1400 Output Editing System
J28-0238-0			1401 Peripheral Integrated Processing System for Use with 7000 Series Data Processing Systems
<u>80 INSTALLATION SUPPLIES</u>			
X20-1702-0			Proportional Record Layout and Format Forms
(X20-1776-0			144/10/6 Print Chart)
(X20-1778-0			144/10/8 Print Chart)
X20-8011-0			Scheduling Control Form - Programming Progress Chart
X20-8020-0			Flowcharting Template
X20-8021-2			Autochart Flowcharting Worksheet
X20-8024-1			Decision Logic Coding Form
X20-8040-0			1230-31-32 Spacing Chart - Test Scoring 5 Words per Inch
X20-8041-1			1230-31-32 Spacing Chart - Test Scoring 4 Words per Inch
X20-8042-0			1230-31-32 Spacing Chart - Test Scoring 3 Words per Inch
X20-8043-0			1230-31-32 Spacing Chart - Non Test Scoring 5 Words per Inch
X20-8044-0			1230-31-32 Spacing Chart - Non Test Scoring 4 Words per Inch
X20-8045-0			1230-31-32 Spacing Chart - Non Test Scoring 3 Words per Inch
X24-1152-3			1401 Symbolic Programming System Coding Sheet
X24-1336-1			1401/1410 Report Program Generator Input Specifications
X24-1337-2			1401 Report Program Generator Data Specifications
X24-1338-3			1401 Report Program Generator Calculation Specifications
X24-1339-1			1401/1410 Report Program Generator Format Specifications
X24-1350-6			1401/1410/1440 Autocoder Coding Sheet
X24-3039-1			1418/1428 Optical Readers Document Design and Photo Document Sensors Timing Chart

X24-3140-1	1460 Physical Planning Template
X24-3245-0	Control Card Formats for Sort 2, Merge 2, Sort 4, Sort 7, and Merge 7 with 1401/1460-
X24-3448-0	1445 Printer Spacing Chart
X24-6437-2*	1401/1460/1440 Program Chart
X24-6437-3*	
X24-6438-4*	1401/1460 1410/1440 Storage Layout
X24-6438-5*	
X24-6482-5	1401 Physical Planning Template
X24-6556-0	FARGO Report Specifications Phases 4 and 1
X24-6557-0	FARGO Report Specifications Phase 1
X24-6558-1	FARGO Report Specifications Phase 2
X24-6559-1	FARGO Report Specifications Phase 3
X24-6562-0	1401 Timing Estimates Sheet
X24-6568-1	1401/1410/1440 Library Coding Form
X24-6587-0*	1401 Console Sheet
X24-6587-1*	
X24-6588-1*	1401/60 1440 Operating Instruction Sheet
X24-6588-2*	
X24-6591-0*	1401/40/60 Report Program Generator Data Specifications
X24-6591-1*	
X28-1464-1	COBOL Program Sheet
X28-1585-0	1401 Autotest Autocoder Control Card and Patch Card Coding Sheet
X28-1586-0	1401 Autotest Tape and RAMAC File Generation Data Sheet-
X28-1625-0	7750 Assembly Program Sheet
X28-7327-5*	FORTTRAN Coding Form
X28-7327-6*	

85 REFERENCE CARDS

X21-9021-0	1230-31-32 Document Marking Instructions Reference Card
X24-1709-0	1401 Report Program Generator Reference Card
X28-0314-0*	1401/1440/1460 Address Translation Card
X28-0314-1*	
X28-1520-0	COBOL Reference Card

90 EDUCATION LITERATURE

F20-0208-1	1401 - From Control Panel to Stored Program - General Information Manual
R20-9000-0*	1401 Data Processing System Basic Programming Course Description
R20-9000-1*	
R20-9001-1	1401 Accelerated Basic Programming Course Description
R20-9013-2	1401 Data Processing System - System Planning Course Description
R20-9032-1	1401 Data Processing System - Programming Systems - Course Description
R20-9034-2	1401/1311 Disk Storage Programming Course Description Programming System - Programmed Instruction Course Description
R20-9055-2*	1401 Data Processing System Basic Programming Autocoder Programmed Instruction Course Description
R20-9055-3*	

99 OTHER SUPPLEMENTARY INFORMATION

(320-1621-21)	Marketing Publications KWIC Index
H20-0507-0	Bibliography of Application Publications Finance Industries
H20-0522-0	Bibliography of Application Publications Distribution Industries
H20-0530-0	Bibliography of Application Publications Public Utility Industries
H20-0531-0	Bibliography of Application Publications Printing and Publishing Industries
H20-0536-0	Bibliography of Application Publications Insurance Industry

-----OBSOLETE AND/OR SUPERSEDED PUBLICATIONS-----

00	A24-3164	Not Replaced
03	A24-3059-0	Not Replaced
09	A26-5989-1 N27-0147	Not 1401 SRL Item
13	L24-3186-0	Not Replaced
13	L24-3294-0	Not Replaced
15	F24-1052-1-2	Not Replaced
(19	A24-3169	Not Replaced)
(28	C24-3209	Not Replaced)
28	C24-3263	Not Replaced
30	C24-3241	TP Item
30	C24-3341	TP Item
32	C24-1439	Not Replaced
(32	C24-3156	Not Replaced)
32	C24-3191-1	Not Replaced
(33	C24-3038	Not Replaced)
33	C34-3060	Not Replaced
36	C26-5859	Not Replaced
36	C26-5986-0	Not Replaced
48	C24-3253	TP Item
48	C28-6259	TP Item
48	C28-8148-1	Not Replaced
(80	X24-1527	Not Replaced)
80	X24-3100-0-1	Not Replaced Existing Stock Good
(80	X24-3115	Not Replaced)
80	X24-3336-0	Not Replaced
(80	X24-6436	Not Replaced)
80	X24-6518	Not Replaced
(90	C24-1494	Not Replaced)
(90	R20-9010	Not Replaced)
90	R20-9011	Not Replaced
(90	R20-9012	Not Replaced)
(90	R20-9029	Not Replaced)
(90	R20-9030	Not Replaced)
(90	R20-9031	Not Replaced)
(90	R20-9033	Not Replaced)
(90	R20-9054	Not Replaced)
99	320-0923	Not Replaced
(99	F20-0228	Not Replaced)

Section 2: The abstracts which follow will be included in the next edition of the Bibliography Entries added to this SRL Newsletter are identified by a vertical line in the left margin.

A24-3072 IBM 1402 CARD READ-PUNCH COMPONENT DESCRIPTION

This publication covers the IBM 1402 Models 1,2,3,4,5, and 6. Included are descriptions of major mechanical units, their functions and operating controls, and special features that can be installed to expand the capabilities of the basic machine.

Additional publications concerning 1402 operation with various IBM data processing systems are listed in the SRL bibliography for the specific system. The bibliography lists all technical reference literature and related materials necessary for planning, programming, installing, and operating the data processing system in any configuration.

A24-3073 IBM 1403 PRINTER COMPONENT DESCRIPTION

03

This reference publication describes the various models of the IBM 1403 Printer used with IBM 1401, 1410, 1440, 1460, 7010, 7040, 7044, and System/360 Models 20, 25, 30, 40, 50, 65, and 75 Data Processing Systems.

The functional and operating characteristics of the printer are presented.

The special features available for the 1403 are included, and timing information is given for printing and paper movement. 56 pages.

A24-3081 MARK READ STATION (SLANTED MARK) FOR IBM 1418 AND IBM 1428

13

This publication describes the Mark Read Station (Slanted Mark) special feature. This feature is available for the IBM 1418 Optical Character Reader, and for the IBM 1428 Alphameric Optical Reader. A description of these functional specifications is included:

- Document Specifications
- Mark Reading
- Document Format

Program Number 1401-SM-063

This publication, C24-3053-3, describes the Merge 6 program, its capabilities, phases, and merge object program. The control and parameter cards by which a user can tailor the program to his specific needs are also explained.

This publication is intended for use with Form C24-1489, Input/Output Control System (on Disk) Specifications for IBM 1401/1460.

The user should also become familiar with the following SRL bulletins:

- o Autocoder (on Disk) Language Specifications for IBM 1401, 1440, and 1460, Form C24-3258.
- o Autocoder (on Disk) Program Specifications and Operating Procedures for IBM 1401, 1440, and 1460, Form C24-3259.

Other related publications and their abstracts are listed in the IBM 1401/1460 Bibliography SRL, Form A24-1495. 42 pages.

Program Number 1460-IO-011

This publication provides IOCS (Input/Output Control System) operating procedures for IBM 1401 system that can include the IBM 729, 1311, 1402, 1403, 7330, and direct data-channel feature, and for IBM 1460 systems that can include these same I/O facilities plus the IBM 1448. It supplements Autocoder (on Disk) Program Specifications and Operating Procedures for IBM 1401, 1440, and 1460 Form C24-3259.

Specifications for the IOCS programming systems included in these operating procedures are available in these publications:

Input/Output Control System (on Disk) Specifications for IBM 1401 and 1460, Form C24-1489

IOCS Specifications for IBM 1460 with IBM 1448 (1401/1460 Communications IOCS - 1448/DDC), Form C24-3047

Direct Data Channel IOCS Specifications for IBM 1401, 1440 and 1460 (1401/1460 Communications IOCS - 1448/DDC), Form C24-3025.

These operating procedures should be used only for 1401 systems that include the direct data-channel feature and for 1460 systems that include either the IBM 1448 or the direct data-channel feature. When only IBM 729, 1311, 1402, 1403, and 7330 input/output files are to be handled, use Input/Output Control System (on Disk) Operating Procedures for IBM 1401 and 1460, Form C24-3088. 12 pages.

Program Number 1401-LM-062

This reference publication presents the specifications and operating procedures for the Sort 5 and Sort 6 Timing Program. An IBM 1401 or 1460 Data Processing System with the required machine configuration can be used to produce Sort 5 timing estimates for disk files to be sorted on any IBM 1440 Data Processing System, and Sort 6 timing estimates for disk files to be sorted on any IBM 1401 or 1460.

The first section of this publication discusses machine requirements, the program deck, timing considerations, and program information requirements. The second section describes system preparation, messages, and halts.

The user should be familiar with Sort 5 for IBM 1440: Specifications (Form C24-3009) and Sort 5 for IBM 1440: Operation Procedures (form C24-3163), or Sort 6 Specifications for IBM 1401 and 1460 (Form C24-1420) and Sort 6 for IBM 1401: Operating Procedures (Form C24-3135).

For a list of associated publications and their abstracts see the IBM bibliography that applies to the associated IBM data processing system. 30 pages.

1440-1448 Program 1440-OS-090
1440-1026 Program 1440-OS-091
1401/1460-1026 Program 1401-OS-092

This publication describes the IBM 1052 Printer-Keyboard as used with the Computer Assisted Instruction Program (CAI). The publication:

1. Contains the information necessary for the student to use the printer-keyboard to receive course material from the computer.
2. Describes the standard features, operation, and cautions the student must exercise while using the printer-keyboard. 10 pages.

Program Number 1401-LM-010 (2401-2404)
Program Number 1401-LM-012 (2415)

This publication contains the specifications and operating procedures for the IBM 1401 and 1460 timing program used to estimate the amount of time required to sort tape records with the IBM System/360 Disk Operating System Tape Sort/Merge program or the IBM System/360 Tape Operating System Tape Sort/Merge Program.

The following information is included in this publication:

1. Minimum machine requirements for estimating times with these programs.
2. A description of the user-prepared information cards required to define the proposed sort operation.
3. The procedure to follow for executing the timing program.

The user of this publication should be familiar with IBM System/360 Disk and Tape Operating Systems Tape Sort/Merge Program Specifications, Form C24-3438. For a list of associated 1401/1460 publications, see the IBM 1401/1460 Bibliography, Form A24-1495. For a list of associated System/360 publications, see the IBM System/360 Bibliography, Form A22-6822. 16 pages.

Program 1401-LM-011

This publication contains the specifications and operating procedures for the IBM 1401 and 1460 timing program used to estimate the amount of time required to sort records with the IBM System/360 Disk Operating System Sort/Merge program.

The following information is included in this publication:

1. Minimum machine requirements for estimating times with this program.
2. A description of the user-prepared information cards required to define the proposed sort operation.
3. The procedure to follow for executing the timing program.

The user of this publication should be familiar with IBM System/360 Disk Operating System, Sort/Merge Program Specifications, C24-3444. For a list of associated 1401/1460 publications, see IBM 1401/1460 Bibliography, A24-1495. For a list of associated System/360 publications, see IBM System/360 Bibliography, A22-6822. 16 pages.

The purpose of this bibliography and the associated classification system is to list and categorize IBM application publications that are pertinent to finance industries. Section I lists these publications by application or industry. Section II contains an abstract of each publication, in form number sequence.

A periodic Bibliography of Application Publications (BAP) newsletter (N20-1077) is published to keep the bibliography up to date. The newsletter is divided into two sections. Section I is an updated listing of application publications by application or industry. This section also includes any corrections to the bibliography and a list of superseded publications. Section II contains an abstract of each publication not included in the last published bibliography. 26 pages.

The purpose of this bibliography and the associated classification system is to list and categorize IBM application publications that are pertinent to distribution industries. Section I lists these publications by application or industry. Section II contains an abstract of each publication, in form number sequence.

A periodic Bibliography of Application Publications (BAP) newsletter (N20-1853) is published to keep the bibliography up to date. The newsletter is divided into two sections. Section I is an updated listing of application publications by application or industry. This section also includes any corrections to the bibliography and a list of superseded publications. Section II contains an abstract of each publication not included in the last published bibliography. 26 pages.

The purpose of this bibliography and the associated classification system is to list and categorize IBM application publications that are pertinent to public utility industries. Section I lists these publications by application or industry. Section II contains an abstract of each publication, in form number sequence.

A periodic Bibliography of Application Publications (BAP) newsletter N20-1866 is published to keep the bibliography up to date. The newsletter is divided into two sections. Section I is an updated listing of application publications by application or industry. This section also includes any corrections to the bibliography and a list of superseded publications. Section II contains an abstract of each publication not included in the last published bibliography. 14 pages.

H20-0531 BIBLIOGRAPHY OF APPLICATION PUBLICATIONS PRINTING AND PUBLISHING INDUSTRIES 99

The purpose of this bibliography and the associated classification system is to list and categorize IBM application publications that are pertinent to printing and publishing industries. Section I lists these publications by application or industry. Section II contains an abstract of each publication, in form number sequence.

A periodic Bibliography of Application Publications (BAP) newsletter N20-1867 is published to keep the bibliography up to date. The newsletter is divided into two sections. Section I as an updated listing of application publications by application or industry. This section also includes any corrections to the bibliography and a list of superseded publications. Section II contains an abstract of each publication not included in the last published bibliography. 12 pages.

H20-0536 BIBLIOGRAPHY OF APPLICATION PUBLICATIONS INSURANCE INDUSTRY 99

The purpose of this bibliography and the associated classification systems is to list and categorize IBM application publications that are pertinent to the insurance industry. Section I lists these publications by application or industry. Section II contains an abstract of each publication, in form number sequence.

A periodic Bibliography of Application Publications (BAP) newsletter (N20-1869) is published to keep the bibliography up to date. The newsletter is divided into two sections. Section I is an updated listing of application publications by application or industry. This section also includes any corrections to the bibliography and a list of superseded publications. Section II contains an abstract of each publication not included in the last published bibliography. 22 pages.

X20-1776 144/10/6 PRINT CHART (144 POSITION SPAN AT 10 CHARACTERS PER INCH, AND 6 LINES PER VERTICAL INCH 80

This 11" x 18" chart is printed in green ink and provides 144 printing positions (at 10 positions per inch horizontally) for a printer carriage space-setting of 6 lines per inch. The form essentially follows the layout recommended by the SHARE organization. This chart may be reproduced using most standard office copying machines, but when the form is to be used as reproduction copy for printing documents and the grid and other preprinted information is to be "dropped-out", the printer should be instructed to use a green filter.

Only black pen ink or typewritten insertions are recommended.
Padded form - 25 sheets per pad, printed one side.

X20-1778 144/10/8 PRINT CHART (144 POSITION SPAN AT 10 CHARACTERS PER INCH, AND 8 LINES PER VERTICAL INCH 80

This 11" x 18" chart is printed in green ink and provides 144 printing positions (at 10 positions per inch horizontally) for a printer carriage space-setting of 8 lines per inch. The format essentially follows the layout recommended by the SHARE organization. This chart may be reproduced using most standard office copying machines, but when the form is to be used as reproduction copy for printing documents and the grid and other preprinted information is to be dropped-out, the printer should be instructed to use a green filter.

Only black pen ink or typewriter insertions are recommended.
Padded form - 25 sheets per pad, printed one side.

Section 3: Program numbers of programming systems available for the IBM 1401/60 are listed below. The date of the most recent modification is given. Abstracts and ordering instructions are found in Catalog of Programs and Programming Systems, C20-1601.

PROGRAM NAME	NUMBER	VERSION	MOD LEVEL	DATE
<u>TYPE I</u>				
Card Systems Error Detection Aids	1401-AT-017	1	1	08/12/63
Auto Test	1401-AT-072	1	8	08/26/65
1401/1311 Autotest 8K	1401-AT-081	1	4	05/11/65
1401/1311 Autotest 16K	1401-AT-082	1	3	12/28/64
1401 Basic Autocoder 2K	1401-AU-005	1	9	07/11/66

1401/1440/1460 Autocoder on Disk	1401-AU-008	1	13	07/11/66
Autocoder Program	1401-AU-037	3	11	12/07/65
COBOL 4K	1401-CB-070	2	11	01/20/66
COBOL Conversion 1401 S/360	1401-CB-701	1	6	08/23/67
FORTTRAN	1401-FO-050	3	7	12/13/65
1401 1440 1460 FORTTRAN 4, Card	1401-FO-051	2	2	10/10/66
1401 1440 1460 FORTTRAN 4, Tape	1401-FO-052	2	2	10/10/66
FORTTRAN II Language Conversion Program	1401-FO-702	2	2	02/13/67
Communications IOCS for 1401/1460	1460-IO-011	3	2	06/21/65
1401/60 IOCS	1401-IO-012	1	4	12/13/65
Tape Reading and Writing Subroutines	1401-IO-040	2	2	07/15/63
IOCS	1401-IO-065	2	14	12/29/65
1401 1311 IOCS	1401-IO-068	2	10	10/18/66
1401/1012 Tape Punch Routines	1401-IO-074	1	1	08/20/63
1401/1440/1460-1285 IO CP	1401-IO-077	1	2	08/11/66
7040/7044 Input/Output	1401-IO-152	1	0	09/10/63
Card Systems Subroutine	1401-LM-007	1	2	02/13/63
1401/60 Timing Program BOS/360 16K Disk S/M	1401-LM-011	2	0	08/02/66
1401/60 Timing Prog - TOS/360 S/M	1401-LM-010	1	1	01/18/67
1401/1460 Timing Program IV System/360 Disk and Tape	1401-LM-012	1	0	11/02/66
1401 Sort 7 Timing Program	1401-LM-060	1	0	12/21/64
Programming for Timing Sort 5 & 6	1401-LM-062	1	0	7/28/64
Sort 13-14 Timing Program	1401-LM-077	1	0	12/21/64
1401/60 Timing Program 360 Basic Program				
Support Sort Merge 8K	1401-LM-078	2	1	01/12/67
1401/60 1440 Timing Program BOS/360 S/M	1401-LM-079	2	0	12/02/65
1401/60 Timing Prog S/360 BPS Sort Merge	1401-LM-080	1	1	11/10/66
1401-1026 OP Sys CAI	1401-OS-092	1	0	07/11/65
1401 Pips	1401-PR-925	1	0	07/09/62
Basic 4K R P G	1401-RG-022	1	7	01/05/66
1401-1311 RPG	1401-RG-032	2	8	01/21/66
2K R P G	1401-RG-033	1	1	02/26/65
FARGO	1401-RG-045	1	3	08/28/63
Report Program Generator	1401-RG-048	1	2	09/06/63
1400 RPG to 1401 0360 RPG Translator	1401-RG-700	1	1	06/01/66
SORT 1	1401-SM-029	2	7	01/24/64
1401 Sort 3	1401-SM-046	1	2	05/12/65
1401 Sort 4	1401-SM-047	1	7	12/23/65
1401 Sort 7	1401-SM-060	2	8	07/11/66
1401 Merge 7	1401-SM-061	3	1	07/11/66
1401-1311 Sort 6	1401-SM-062	2	7	07/11/66
1401 Merge 6	1401-SM-063	1	2	08/25/65
Sort 62	1401-SM-064	1	2	04/19/65
Sort 63	1401-SM-065	1	1	12/04/64
Sort 64	1401-SM-066	1	3	12/27/65
Sort 61	1401-SM-067	1	1	12/04/64
1460 Sort 14	1460-SM-068	1	2	09/23/65
1460 Sort 14	1460-SM-069	1	1	07/06/65
Symbolic Programming System - SPS 1	1401-SP-021	1	3	08/15/63
Symbolic Programming System - SPS 2	1401-SP-030	3	2	08/15/63
7750 Assembly Program Using 1401	1401-SP-133	2	0	11/05/63
7740 Assembly Program	1401-SP-156	4	1	02/03/66
1460-1070 Process Commun Monitor	1460-SV-090	1	0	07/11/66
1460-1070 Process Commun Monitor	1460-SV-091	1	0	07/11/66
Card Systems Utility Programs	1401-UT-001	1	0	10/14/60
Multiple Tape Utility	1401-UT-019	1	0	02/23/65
1401 1460 Tape Utility Programs with 120				
Characters Label Capacity	1401-UT-025	1	2	07/08/65
Tape to Printer Program	1401-UT-026	3	0	12/13/61
Card to Tape Utility Program	1401-UT-027	4	1	06/12/64
Tape to Card Utility Program	1401-UT-028	1	2	07/16/62
Multiple Utility Program for Tape Sys	1401-UT-039	3	4	09/14/64
File Utilities	1401-UT-051	1	0	07/01/61
1401/1311 File Organization	1401-UT-052	2	6	07/11/66

1401 1311 Disk Utilities	1401-UT-053	2	4	11/19/65
File Organization Routines	1401-UT-057	1	6	04/23/65
1401-1009 Utility Programs	1401-UT-066	1	0	11/14/61
1401 Hypertape Utility Programs	1401-UT-067	1	0	11/16/64
1401-7710 Tape Utility System	1401-UT-069	1	0	08/28/65
Data Communications Utility Program	1401-UT-076	1	1	04/13/65
7040/7044 Auxiliary Programs	1401-UT-153	5	2	03/16/65
7040/44-1401 Periph. UT. PGM./See PR-154	1401-UT-157	2	1	06/07/65
7090/1401 Auxiliary Programs	1401-UT-158	1	3	12/15/6
Input Program/7090-SI-1621	1401-UT-958	3	0	06/04/65

TYPE II

Dare	1401-CA-04X	2	0	05/13/66
Autoprops II	1401-CN-03X	1	4	10/14/65
1400-1311 Linear Programming	1401-CO-13X	1	0	05/27/65
1401 S D I	1401-CR-01X	2	0	02/01/65
Key Word in Context KWIC	1401-CR-02X	2	1	06/09/65
1401 MGMT Decision Making Lab.	1401-CS-02X	1	1	06/02/65
Modular Inventory Management Simulator	1401-CS-03X	1	0	10/02/62
1401 Autoplotter	1401-CX-03X	1	1	03/11/65
Impact	1401-DW-02X	2	4	03/11/65
1401/1311 Impact	1401-DW-03X	2	3	05/04/67
1401 Engineering Scheduling System	1401-EX-01X	1	0	02/18/65
1401 Demand Deposit	1401-FB-01X	1	1	02/26/63
Bank Management Simulation	1401-FB-02X	1	3	10/04/65
Bank Sort Program	1401-FB-06X	1	1	12/04/63
Bond Trade Analysis of a Bank	1401-FB-09X	1	5	08/16/66
1401 Allocation of Resources	1401-FB-14X	1	2	10/21/65
1401 Portfolio Selection Program	1401-FI-04X	1	1	05/19/65
Financial Analysis Program	1401-FI-05X	1	4	08/11/65
Auto Rating For Fire & Casualty /Auto/	1401-IF-01X	1	0	02/06/63
General Distribution / Card	1401-IF-02X	1	0	07/20/64
General Distribution / Tape	1401-IF-03X	1	2	08/17/65
Homeowners Rating Program	1401-IF-05X	1	0	08/07/64
1962CFO/ConsolidatedFunctionsOrdinary/	1401-IL-01X	2	1	06/01/66
62 C. F. O.	1401-IL-02X	1	18	12/13/68
Valuation Programs	1401-11-03X	1	13	05/02/68
Decision Logic Translator	1401-SE-05X	1	1	07/28/65
Documentation Aids System	1401-SE-12X	2	0	03/04/66
S/360 COBOL Edition 1401	1401-SE-13X	1	2	08/31/66
Administrative Terminal System	1460-CX-08X	2	0	03/18/65

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August 4, 1969

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320-1621-21	()	001
C20-1601-9	()	001
NEWSLETTERS		
N20-1001.44	()	001
N20-1002.25	()	001
N24-0429	()	001
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