

IBM System/3

► **DISK SORT:** Sorts disk files into either ascending or descending sequence on any System/3 disk system. Accepts files organized in sequential, indexed, or direct fashion. Can perform a full-record sort, a tag sort (yielding a file of 3-byte record addresses arranged in the desired sequence), or a "tagalong" sort (yielding a sequenced file of records containing only the key fields and data fields specified by the user).

The function and syntax of specifications sheets for the System/3 Model 6 Disk Sort program are identical to those used with the System/3 Model 8 or Model 10 Disk Sort. Output data files created by the Model 6 Disk Sort can be processed by the Model 8 or Model 10 Disk Sort, and conversely.

The Disk Sort functions under control of the SCP software. On the Model 6, it requires the minimum 8K-byte processing unit, one 5444 Disk Storage Drive, and one printer. Minimum configuration for a Model 8 includes a 16K processor, one 5444 Disk Storage Drive, a 5203 Printer, and a 3741 Data Station. Minimum configuration for a Model 10 is a 12K processing unit, one 5444 Disk Storage Drive, a 5203 or 1403 Printer, and a 5424 MFCU or 1442 Card Read Punch. The Disk Sort 5445 Disk Storage Drive Feature provides all functions available with the Disk Sort for System/3 Model 10 users of the 5445 Disk Storage Drive.

The Model 12 Disk Sort requires a minimum configuration consisting of a 32K-byte processing unit; a 5424 MFCU, 1442 Card Read Punch, or directly attached 3741 Data Station/Programmable Work Station; a 5203 or 1403 Printer; and a 3340 DASF. In addition to the functions provided in the Model 10 Disk Sort, the Model 12 version supports up to eight input files from disk and/or tape.

The Model 15 Disk Sort program is functionally identical to the Model 10 Disk Sort with the 5445 Disk Storage Drive feature, plus several enhancements. Up to four disk drives are supported for use as input, output, or work files. Minimum configuration for a Model 15 is a 48K processor, a 3277 Display Station with operator console keyboard, a 5444 Disk Storage Drive, a 1403 Printer, and a card reader. The Model 15 Disk Sort allows input from up to eight files and the files can be any combination of disk, tape, cards, and/or diskette. The sorting techniques have also been changed to yield improved performance even if the available high-performance disk drives are not used.

DISK-RESIDENT MAGNETIC TAPE SORT: Sorts fixed-length records on magnetic tape files, in either blocked or unblocked format and EBCDIC or ASCII data code. The Model 10, Model 12, and Model 15 versions are functionally identical. Requires a 12K Model 10 processor, 32K Model 12 processor, or 48K Model 15 processor with at least one 5444 Disk Storage Drive (3340 DASF on Model 12) and three magnetic tape units.

CARD SYSTEM UTILITIES: A set of utility programs is provided for both Model 10 and Model 15 card-oriented systems.

- **Model 10:** A set of six programs designed for operation on an 8K card-oriented System/3. The Reproduce/Interpret Program handles the reproduction and/or interpretation of 96-column cards, with or without reformatting. The 96-Column List Program lists cards on the printer without reformatting. The MFCU Sort/Collate Program performs a variety of sorting, merging, matching, selecting, and sequence-checking functions. The Data Recording and Data Verification Programs enable a System/3 equipped with a 5475 Data Entry Keyboard to be used for on-line punching and

verification of 96-column cards. The 80-96 Conversion Program allows a System/3 equipped with a 1442 Card Read Punch to read 80-column cards and punch the information into 96-column cards, with reformatting.

- **Model 15:** A set of four disk-resident programs designed to handle a variety of punched card utility functions. The Sort/Collate Program supports either the 5424 MFCU or the 2560 MFCM and performs numerous sorting, merging, matching, selecting, and sequence-checking functions. The Card List Program lists 80-column or 96-column cards on the printer without reformatting. The Reproduce/Interpret Program handles the reproduction and/or interpretation of 80-column or 96-column cards, with or without reformatting. The Gang-punch Program (new for the Model 15) handles interspersed master card gang-punching, count-controlled gang-punching, and punching based on matching control fields in master and detail cards. Three of the Model 10 Card Utilities programs are not included in the Model 15 Card Utilities: Data Recording, Data Verification, and 80-96 Conversion.

1255 MAGNETIC CHARACTER READER UTILITY: Controls the reading and sorting of MICR-encoded documents, accumulates appropriate totals, and places selected data from the documents on disk and/or printer files. It requires a 12K-byte System/3 Processing Unit and functions under control of the SCP software. The subroutines are used with a user-written RPG II or Assembler program. All models except the Model 15 support the 1255 Utility. Device control and data management services are provided as part of the SCP for the Model 15.

DATA/3: This System/3 Program Product, introduced along with the Model 15 and also available for the Model 8, 10, or 12, generates terminal control programs for the following types of applications: inquiry, inquiry with update, data entry, and data entry with master file input. The programmer fills out two RPG-like forms: a data description form and a program definition form. DATA/3 uses this information to generate RPG II source programs, which are subsequently compiled and executed. Programs generated by DATA/3 support the 3270 Information Display System, the 5444 and 5445 Disk Storage Drives, and the 3340 DASF. DATA/3 can be used on a System/3 Model 8, Model 10, Model 12, or Model 15, in connection with either the Multiline/Multipoint software or the Communications Control Program.

APPLICATION CUSTOMIZER SERVICE: As an alternative to the usual "packaged" application programs, IBM offers a novel service called the Application Customizer, which is designed to assist users in preparing programs to handle the most common data processing applications.

The user defines his requirements by completing application-oriented questionnaires and report specification sheets. These are keypunched and fed into a computer at an IBM Basic Systems Center. The resulting output consists of detailed application documentation, from which the user's own programmer writes the necessary System/3 programs (usually in the RPG II language).

Documentation produced by the Application Customizer includes a data dictionary, a listing of the contents and format of each record, an application flowchart, an RPG-oriented description of each program, and a sample of each report.

Customized Source Code is now available as an optional additional output from the Application Customizer Service. The user who elects this option receives raw, machine-

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► generated RPG II source code on a 5440 Disk Cartridge; he must then add various constants and indicators, compile the programs, and test and debug them in the usual fashion.

For the System/3 Model 6, the Application Customizer Service currently covers four applications, available with or without Customized Source Code:

- Order Writing and Invoicing
- Inventory Accounting and Management
- Accounts Receivable
- Sales Analysis

The same packages are available tailored for two specific classes of users: lumber and building supplies dealers, and electrical distributors.

For card-oriented System/3 Model 10 computers, the Application Customizer Service currently covers eight applications:

- Order Writing and Invoicing
- Inventory Accounting
- Accounts Receivable
- Sales Analysis
- Payroll
- General Ledger
- Accounts Payable
- Labor Distribution

For disk-oriented System/3 Model 10 computers, the Application Customer Service currently includes the following, with or without Customized Source Code:

- Order Writing and Invoicing
- Inventory Accounting and Management
- Accounts Receivable
- Sales Analysis

APPLICATION PROGRAMMING SERVICE: This IBM service, introduced in September 1971, enables System/3 Model 6 and Model 10 users to have their basic business application programs designed, generated, tested, and documented by IBM Systems Engineers at fixed prices. The service currently covers four applications: Order Writing and Invoicing, Accounts Receivable, Inventory Accounting and Management, and Sales Analysis.

The Application Programming Service consist of four main steps. First, the user and an IBM representative fill out questionnaires defining the application and the formats of the required reports. Second, IBM processes the information at its Application Customizing Center to generate the required programs. Third, IBM tests the programs to make sure they produce the agreed-upon results, using test data and machine time provided by the user. Fourth, IBM turns over the tested application programs and associated documentation to the user.

APPLICATION PROGRAMS: In addition to the two services described above, IBM offers a limited number of packaged programs for specific applications. The current Application Program Products, which receive centralized IBM support, are listed in the price list at the end of this report. Also available are a variety of Field Developed Programs (FDP's) and Installed User Program (IUP's). Support for the FDP's and IUP's is limited to pertinent error-correction information during the first six months after initial availability of each program.

Other sources of programs, technical information, and education are the System/3 user groups. Two IBM-affiliated user groups, COMMON and Guidance International, are open to System/3 users. Moreover, at least two independent

organizations, Group 3 and the National Association of IBM System/3 Users, have been formed specifically to aid System/3 users.

PRICING

POLICY: IBM offers the System/3 on a purchase or rental basis. The standard IBM rental contract includes equipment maintenance and entitles the customer to up to 176 hours of billable time per month. Time used in excess of that amount is billed, for most System/3 components, at an extra-use rate of 10% of the basic hourly rate. (i.e.; 10% of 1/176 of the monthly rental for each hour of extra use).

In addition, in July 1975 IBM made the Term Availability Plan (TAP), originally introduced with the System/32, available for the System/3 Model 8, 12, and 15 Processing Units and features. Under the TAP, which has an initial duration of 36 months, the customer is given a discount of about 5% on monthly rental costs. Lease and purchase price protection is ensured for the first 12 months. Accruals toward purchase of up to 50% of the purchase price are permitted during the first 36 months. Specified maximum second and third year lease and purchase prices are guaranteed that correspond to an increase of about 5% each year. The TAP can be extended for one year at a time indefinitely, and one extension of less than one year is permitted. Component or feature discontinuance or downgrades incur termination charges.

SOFTWARE: System/3 users receive the basic System Control Programs at no additional cost. All other IBM software, including compilers and utility routines, is priced separately. Prices of the current IBM Program Products are listed at the end of this report.

SUPPORT: IBM Systems Engineering assistance is available to System/3 users at a basic charge of \$33.00 per hour.

EDUCATION: Two-day introductory courses are offered at no charge. Various other System/3 courses are available at separate charges.

EQUIPMENT: The following typical purchase and rental prices include controllers and adapters.

System/3 Model 6

MINIMUM SYSTEM: Consists of 8K 5406 Processing Unit, 5213 Model 1 Printer, and 5444 Model 1 Disk Storage Drive (2.45 million bytes). Monthly rental, \$1,131. Purchase price, \$44,895. Adding RPG II, Conversational Utilities, and Disk Sort would raise the monthly rental by \$64 for the commercial user. Adding BASIC for mathematical processing raises the monthly rental by \$127. Using the 5213 Model 2 Printer with vertical forms control increases the monthly rental by \$45 and the purchase price by \$1,565.

System/3 Model 8

MINIMUM SYSTEM: Consists of 16K 5408 Processing Unit, 5444 Model A1 Disk Storage Drive, 5203-1 Printer, and 5471 Printer-Keybaord. Monthly rental, \$1,533. Purchase price, \$58,415.

MINIMUM DATA STATION SYSTEM: Consists of 16K 5408 Processing Unit, 5444 Model A1 Disk Storage Drive, 5203-2 Printer, and a directly attached 3741 Data Station. Monthly rental, \$1,811. Purchase price, \$67,495.

System/3 Model 10

MINIMUM CARD SYSTEM: Consists of 8K 5410 Processing Unit, 5424 Model A1 MFCU, and 5203 Model 1

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► Printer (with 96 print positions). Monthly rental, \$1,130. Purchase price, \$38,835.

For the above configuration with the faster 5424 Model A2 MFCU and 5203 Model 2 Printer: Monthly rental, \$1,464. Purchase price, \$47,645.

TYPICAL DISK SYSTEM: Consists of 12K 5410 Processing Unit, 5424 Model A2 MFCU, 5203 Model 2 Printer (with 120 print positions), 5471 Printer-Keyboard, and one 5444 Model 2 Disk Storage Drive (4.90 million bytes). Monthly rental, \$2,031. Purchase price, \$67,240.

For the above configuration with a 32K Processing Unit: Monthly rental, \$2,720. Purchase price, \$83,390.

EXPANDED DISK SYSTEM: Consists of 49K 5410 Processing Unit, 5424 Model A2 MFCU, 1403 Model N1 Printer, 5471 Printer-Keyboard, two 5444 Model A2 Disk Storage Drives (9.8 million bytes), and two 5444 Disk Storage Drives (41 million bytes). Monthly rental, \$6,110. Purchase price, \$199,928.

System/3 Model 12

MINIMUM SYSTEM: Consists of 32K 5412 Processing Unit, 5424 Model A2 MFCU, 5203 Model 1 Printer, and

3340 Model C2 DASD. Monthly rental, \$2,933. Purchase price, \$103,091.

EXPANDED SYSTEM: Consists of 65K 5412 Processing Unit, 1403 Model 2 Printer, a directly attached 3741 Model 1 Data Station, and 3340 Model C2 DASD. Monthly rental, \$3,812. Purchase price, \$137,875.

System/3 Model 15

MINIMUM SYSTEM: The basic configuration required to utilize the Model 15 processing support consists of a 5415 Model A17 Processing Unit (49K bytes), 3277 Model 1 Display Station, 1403 Model 5 Printer, 5424 Model A1 MFCU, and one 5444 Model A2 Disk Storage Drive, plus all necessary attachments and control units. Monthly rental (including maintenance), \$3,347. Purchase price, \$125,010.

EXPANDED SYSTEM: A typical large Model 15 disk system consists of a 5415 Model A20 Processing Unit (131K bytes), 3277 Model 1 Display Station, 1403 Model N1 Printer, 2560 Model A1 MFCU, 2501 Model A2 Card Reader, one 5444 Model A2 Disk Storage Drive, and four 5445 Disk Storage Drives, plus all necessary attachments and control units. Monthly rental (including maintenance), \$7,778. Purchase price, \$286,508. ■

EQUIPMENT PRICES

PROCESSORS AND MAIN STORAGE		Purchase Price	Monthly Maint.	Rental (1-year lease)*
5406	Processing Unit (for Model 6 systems): Model B2; 8,192 bytes Model B3; 12,288 bytes Model B4; 16,384 bytes	\$24,910 29,920 30,520	\$137.00 143.00 143.00	\$674 807 938
1550	Command Keys (9-16)	849	0.50	21
5408	Processing Unit (for Model 8 systems): Model A14; 16,384 bytes Model A16; 32,768 bytes Model A17; 49,152 bytes Model A18; 65,536 bytes	27,130 31,290 35,450 39,610	115.00 120.00 150.00 155.00	675 779 882 987
5410	Processing Unit (for Model 10 non-disk systems): Model A2; 8,192 bytes Model A3; 12,288 bytes Model A4; 16,384 bytes Model A5; 24,576 bytes Model A6; 32,768 bytes Model A7; 49,152 bytes	13,940 18,450 19,040 34,000 34,600 50,150	42.00 46.00 46.00 61.50 61.50 85.50	375 495 634 915 1,185 1,545
5410	Processing Unit (for Model 10 disk systems): Model A12; 8,192 bytes Model A13; 12,288 bytes Model A14; 16,384 bytes Model A15; 24,576 bytes Model A16; 32,768 bytes Model A17; 49,152 bytes	19,550 24,060 24,740 39,610 40,210 55,760	92.00 96.00 96.00 112.00 112.00 136.00	527 646 783 1,065 1,335 1,690
5412	Processing Unit (for Model 12 systems): Model B16; 32,768 bytes Model B17; 49,152 bytes Model B18; 65,536 bytes	\$50,465 54,465 58,465	\$215.00 220.00 225.00	\$1,328 1,428 1,528
5415	Processing Unit (for Model 15 systems without 3340): Model A17; 49,152 bytes Model A18; 65,536 bytes Model A19; 98,304 bytes Model A20; 131,072 bytes	65,510 69,670 81,110 89,430	227.00 232.00 238.00 248.00	1,691 1,806 2,084 2,310
5415	Processing Unit (for Model 15 systems with 3340): Model B17; 49,152 bytes Model B18; 65,536 bytes Model B19; 98,304 bytes Model B20; 131,072 bytes Model C21; 163,840 bytes Model C22; 196,608 bytes Model C23; 229,376 bytes Model C24; 262,144 bytes	95,670 99,830 111,270 119,590 130,520 138,840 147,160 155,480	235.00 240.00 245.00 255.00 260.00 265.00 270.00 280.00	2,399 2,499 2,762 2,962 3,229 3,439 3,644 3,854
3500	Dual Program Feature (for 5408, 5410, or 5412)	4,955	1.00	131

* Rental prices include equipment maintenance.

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EQUIPMENT PRICES

PROCESSORS AND MAIN STORAGE (Continued)		Purchase Price	Monthly Maint.	Rental (1-year lease)*
5501	Power Supply Expansion (provides additional 6-volt power for 5410, 5412, or 5415; required for certain RPQ's such as multi-line communications adapter)	1,945	1.00	56
5502	Power Supply Expansion (provides required additional 24-volt power for 5412 if 5424 MFCU not included)	831	1.00	20
5732	Processing Unit Expansion: For 3406 (required for any combination of #7081 SIOC, #2074 BSCA, #4765 LCA, or # 8220 3741 attachment) For 3408 (required for #7081 SIOC or #2074 BSCA) For 3410 (required for RPQ1442, 5445, 3411, or #8220 3741 attachment) For 3412 (required for 3411, # 8220 3741 attachment and card reader, or #7801 SIOC)	1,575	3.00	41
5733	Processing Unit Expansion (for 5410, 5412, and 5415; requires 5732 except on 5415)	694	0.50	21
5734	Processing Unit Expansion (for 5410, 5412, and 5415; requires 5733)	1,905	1.00	61
5735	Processing Unit Expansion (for 5410, 5412, and 5415; requires 5734) Note: Typically, communications features, alone and in combination with other peripherals, will require various stages of expansion; the above units provide additional CPU power and connections.	694	1.00	21
CONSOLE				
3277	Display Station, Model 1 (required in Model 15 systems)	2,940	8.00	84
4632	78-key Operator Console Keyboard (required on 3277)	1,205	12.50	38
MASS STORAGE				
3340	Direct Access Storage Facility: Model A-2 (2-drives plus control)	36,000	80.00	1,100
	Model B-1 (additional drive)	19,800	43.00	615
	Model B-2 (2 additional drives)	25,200	69.00	776
	Model C-2 (2 drives plus control)	27,580	72.00	850
3348	Data Module (for 3340 drives): Model 70; 41.04 million bytes plus 9.83 million bytes exclusively for program support	2,200	Time & Mat'l	82
5444	Disk Storage Drive: Model A1; 2.46 million bytes	7,320	71.50	228
	Model A2; 4.92 million bytes	8,670	71.50	342
	Model A3; 2.46 million bytes	7,320	71.50	228
	Model 1; 2.46 million bytes	7,410	51.50	187
	Model 2; 4.92 million bytes	8,840	51.50	308
	Model 3; 2.46 million bytes	7,410	51.50	187
5540	Disk Cartridge (for 5444 drives)	175	Time & Mat'l	Purch. only
5422	Disk Enclosure (required for attachment of 5444 Disk Storage Drives when 5424 MFCU is not used)	4,240	13.00	114
6378	Second Disk Attachment (required on 5406 for a 5444 Mod. 3 or a second 5444 Mod. 2)	2,175	5.00	49
6378	Second Disk Attachment (required on 5408 for 5444 Mod. A3 or a second 5444 Mod. A2)	3,025	6.00	72
6378	Second Disk Attachment (required on 5410 for a 5444 Mod. 3 or A3 or a second 5444 Mod. 2 or A2)	2,175	5.00	51
4501	Higher-Performance Second Disk Attachment (required on 5410 for a 5444 Mod. A1 or A2)	849	1.00	21
4502	Higher-Performance Second Disk Attachment (required on 5410 for a 5444 Mod. A3 or a 2nd 5444 Mod. A2; 6378 is a prerequisite)	849	1.00	21
6378	Second Disk Attachment (required on 5415 for a 5444 Mod. A3 or a 2nd 5444 Mod. A2)	3,025	6.00	72
5445	Disk Storage Drive: Model 1; first 5445 on 5415; 20.48 million bytes	13,600	93.00	401
	Model 2; second 5445 on 5410 or 5415; 20.48 million bytes	13,010	87.50	382
	Model 3; dual-pack 5445, 40.76 million bytes	26,690	181.00	783
3901	First 5445 Disk Attachment (for 5410; required for Model 1 and 3)	17,340	36.00	561
3902	Second 5445 Disk Attachment (for 5410; required for Model 2 and 3)	520	1.00	16
3901	First 5445 Attachment (required on 5415 for first pair of 5445 drives)	17,340	35.50	561
3903	Second 5445 Attachment (required on 5415 for second pair of 5445 drives)	3,000	1.00	84
INPUT/OUTPUT UNITS				
3410	Magnetic Tape Unit: Model 1; 20 KB	\$ 7,065	\$ 53.50	\$ 206 (1)
	Model 2; 40/20 KB	9,450	59.50	274 (1)
	Model 3; 80/40 KB	11,700	65.50	342 (1)
3411	Magnetic Tape Unit and Control: Model 1; 20 KB	15,570	83.00	454 (1)
	Model 2; 40/20 KB	19,710	89.00	578 (1)
	Model 3; 80/40 KB	24,030	95.00	701 (1)
3211	Single Density Feature (for 3410 & 3411, Models 2 & 3 only)	2,295	8.50	60 (1)
3221	Dual Density Feature (for 3410 & 3411, Models 2 & 3 only)	3,305	32.00	88 (1)
7003	System/3 Attachment (required on 3411)	2,890	3.00	83 (1)
7951	3411 Magnetic Tape Attachment (required on 5408, 5410, or 5415)	4,155	10.50	179
7960	3411 Magnetic Tape Attachment (required on 5412; requires #4701)	3,805	7.50	137
4701	Basic Attachment Feature	1,530	3.00	54
3741	Data Station: Model 1	6,235	42.00	174
	Model 2	7,535	54.00	213
3741	Programmable Work Station: Model 3	8,940	63.50	277
	Model 4	10,240	70.00	317

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EQUIPMENT PRICES

		Purchase Price	Monthly Maint.	Rental (1-year lease)*
INPUT/OUTPUT UNITS (Continued)				
8220	Attachment (on 5406, 5408, 5410, 5412, or 5415)	6,970	17.00	212
-	I/O Adapter (on 3741)	2,750	8.00	73
5424	Multi-Function Card Unit:			
	Model A1; reads 250 cpm, punches and prints 60 cpm	8,670	153.00	326
	Model A2; reads 500 cpm, punches and prints 120 cpm	11,480	220.00	490
4100	MFCU Attachment (required on 5410 for 5424 Mod. A1)	3,850	15.00	93
4100	MFCU Attachment (required on 5412 for 5424 Mod. A1)	4,000	15.00	93
4100	MFCU Attachment (required on 5415 for 5424 Mod. A1)	3,850	15.00	93
4101	MFCU Attachment (required on 5410 for 5424 Mod. A2; requires #4100)	4,890	15.00	111
4101	MFCU Attachment (required on 5412 for 5424 Mod. A2; requires #4100)	810	2.00	18
4101	MFCU Attachment (required on 5415 for 5424 Mod. A2; requires #4100)	780	2.00	17
1442	Card Read Punch:			
	Model 6; reads 300 cpm, punches 80 cols/sec.	15,860	65.50	297
	Model 7; reads 400 cpm, punches 160 cols/sec.	17,080	77.50	432
3950	5410/5415 Coupling (required on 1442)	1,650	1.00	33
4130	1442 Attachment (required on 5410 or 5412)	7,540	16.50	212
4130	1442 Attachment (required on 5415)	7,540	16.00	212
2501	Card Reader (for Model 15 only):			
	Model A1; 600 cpm	12,330	41.00	218
	Model A2; 1,000 cpm	12,550	58.00	286
3630	1501 Coupling (required on 2501)	168	NC	5
8090	2501 Attachment (required on 5415)	6,965	8.00	168
2560	Multi-Function Card Machine (for Model 15 only):			
	Model A1; reads 500 cpm, punches 160 col/sec.	30,310	115.00	691
	Model A2; reads 310 cpm, punches 120 col/sec.	22,260	115.00	538
8100	2560 MFCM Attachment (required on 5415)	6,545	17.00	168
1580	Card Print Control (for 5415)	1,295	3.00	28
Card Print Feature for 2560 Model A1:				
1575	First Two Lines (requires 1580 on 5415)	6,600	16.00	150
1576	Second Two Lines	6,600	16.00	150
1577	Third Two Lines	6,600	16.00	150
5213	Printer (for Model 6 only):			
	Model 1; pin-feed platen	5,370	52.50	179
	Model 2; vertical forms control	6,935	71.50	224
	Model 3; vertical forms control, bidirectional printing	7,105	82.00	280
3901	Printer Attachment (required on 5406 for 5213 Mod. 1)	2,965	20.50	78
3902	Printer Attachment (required on 5406 for 5213 Mod. 2)	2,965	20.50	78
3903	Printer Attachment (required on 5406 for 5213 Mod. 3)	2,965	20.50	78
3960	Enhanced Print Rate Attachment (required on 5406 for printing at 115 cps with 5312 Mod. 3; replaces 3903 Attachment)	4,155	23.00	157
2222	Printer (with ledger card device; for Model 6 only):			
	Model 1; unidirectional printing	14,280	125.00	392
	Model 2; bidirectional printing	14,550	137.00	432
7951	Printer Attachment (required on 5406 for 2222 Mod. 1)	2,965	20.50	78
7952	Printer Attachment (required on 5406 for 2222 Mod. 2)	2,965	20.50	78
5203	Printer (for Model 8, Model 10, and Model 12 only):			
	Model 1; 100 lpm, 96 positions	9,690	80.00	272
	Model 2; 200 lpm, 96 positions	10,800	90.00	331
	Model 3; 300 lpm, 96 positions	15,050	151.00	488
3475	Dual-Feed Carriage (for 5203)	3,365	23.00	88
4730	Additional Chain Cartridge (for 5203 Mod. 1 & 2)	3,365	1.00	88
4740	Additional Chain Cartridge (for 5203 Mod. 3)	2,515	39.00	123
5558	24 Additional Print Positions (for 5203)	1,380	2.00	59
5560	36 Additional Print Positions (for 5203)	2,055	2.00	88
8639	Universal Character Set Attachment (for 5203)	276	1.00	10
3960	5203 Printer Base Attachment (required on 5408 or 5412 for any model 5203)	1,880	7.50	45
3970	5203 Model 1 or 2 Printer Attachment (required on 5408 or 5412; requires #3960)	806	3.00	19
3970	5203 Model 1 Printer Attachment (required on 5410)	2,685	10.50	64
3971	5203 Model 2 Printer Attachment (required on 5410)	2,685	10.50	64
3972	5203 Model 3 Printer Attachment (required on 5408 or 5412; requires #3960)	2,040	6.50	62
3972	5203 Model 3 Printer Attachment (required on 5410)	3,920	14.00	107
3480	Dual Feed Carriage Control (required on 5408, 5410, or 5412 for #3475 on 5203)	1,115	1.00	29
8642	Universal Character Set Control (required on 5408, 5410, or 5412 for #6639 on 5203)	413	1.00	16
1403	Printer (requires 5421);			
	Model 2; 600 lpm, 132 positions	31,410	204.00	841 (1)
	Model 5; 465 lpm, 132 positions	30,090	147.00	650 (1)
	Model N1; 1100 lpm, 132 positions	38,140	235.00	983 (1)
1416	Interchangeable Train Cartridge (for 1403 Mod. N1)	2,665	Time & Mat'l.	101
1376	Auxiliary Ribbon Feeding (for 1403 Mod. 2 or 5)	2,850	18.50	80 (1)
4740	Interchangeable Chain Cartridge Adapter (for 1403 Mod. 2 or 5)	2,845	NC	80 (1)
8640	Universal Character Set Feature (for 1403 Mod. N1)	426	1.75	10 (1)
8641	Universal Character Set Feature (for 1403 Mod. 2)	426	1.75	10 (1)
5421	Printer Control Unit (required for 1403 Mod. 2, 5, or N1)	10,970	28.50	297
4135	1403 Model 5 Printer Attachment (for 5412 or 5415; requires #4160)	245	1.50	7
4140	1403 Model 2 Printer Attachment (for 5410)	4,465	23.00	134

*Rental prices include equipment maintenance.

(1) A discount of 8% or 16% from these rental prices is available under a 12-month or 24-month Fixed-Term Lease, respectively.

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EQUIPMENT PRICES

INPUT/OUTPUT UNITS (Continued)		Purchase Price	Monthly Maint.	Rental (1-year lease)*
4140	1403 Model 2 Printer Attachment (for 5412 or 5415; requires #4160)	635	1.50	18
4150	1403 Model N1 Printer Attachment (for 5410)	4,895	23.00	195
4150	1403 Model N1 Printer Attachment (for 5412 or 5415; requires #4160)	1,065	1.50	79
4160	1403 Printer Base Attachment (for 5412 or 5415)	3,830	21.00	116
1255	Magnetic Character Reader (requires #7081):			
	Model 1; 500 dpm, 6 stackers	35,460	251.00	904
	Model 2; 750 dpm, 6 stackers	40,590	400.00	1,100
	Model 3; 750 dpm, 12 stackers	55,260	527.00	1,450
3215	Dash Symbol Transmission (for 1255)	35	NC	56 (1)
4380	51-column Card Sorting (for 1255)	734	NC	16
4520	High-Order Zero & Blank Selection (for 1255 Mod. 3 only)	1,315	5.00	33
6303	System/3 Adapter (required on 1255)	5,335	4.00	135
7060	Self-Checking Numbers for 1255)	2,135	2.50	54
3881	Optical Mark Reader (requires #7081):			
	Model 1; for on-line use	51,390	153.00	1,504 (2)
	Model 2; for off-line use	46,800	121.00	1,369 (2)
1471	BCD Read (for 3881)	2,150	1.50	61 (2)
3450	Document Counters (for 3881)	948	2.00	23 (2)
3550	Dual Density (for 3881 Model 2 only)	5,410	0.50	156 (2)
3801	Expanded Storage (for 3881)	2,150	0.50	61 (2)
6451	Serial Numbering (for 3881)	6,325	27.50	183 (2)
7081	Serial I/O Channel (required on 5406 for 1255)	6,365	5.00	171
7081	Serial I/O Channel (required on 5408, 5410, or 5412 for 1255 or 3881)	6,750	5.00	177
7081	Serial I/O Channel (required on 5415 for 1255 or 3881)	6,750	6.50	177
5486	Card Sorter:			
	Model 1; 1000 cpm	4,065	42.00	101
	Model 2; 1500 cpm	4,560	63.50	138
5496	Data Recorder (96-column)	6,590	59.50	177
3210	Data Recorder Attachment (required on 5406)	1,690	2.00	44
7501	System/3 Attachment (required on 5496)	1,905	11.50	49
129	Card Data Recorder (80-column):			
	Model 1; Punch-Verifier (non-print)	6,485	42.00	140
	Model 2; Printing Punch (non-verifier)	7,265	46.00	156
	Model 3; Printing Punch Verifier	7,785	47.00	168
7503	Card I/O Attachment (required on 129)	2,770	11.50	84
3610	Expansion Feature (required on 129)	518	NC	10
3210	Data Recorder Attachment (required on 5406)	1,690	2.00	44
2265	Display Station	4,700	40.00	183
7960	Display Station Attachment (required on 5406)	3,180	1.50	85
5471	Printer-Keyboard	4,310	35.00	121
4110	Printer-Keyboard Attachment (required on 5408, 5410, or 5412)	2,565	5.00	60
5475	Data Entry Keyboard	2,055	7.50	46
4120	Data Entry Keyboard Attachment (required on 5410 in place of #4110)	2,310	1.00	51
COMMUNICATIONS EQUIPMENT				
2074	Binary Synchronous Communications Adapter	10,630	71.50	314
1315	Auto Call Feature	1,795	1.00	46
3601	EIA Local Attachment	867	1.00	28
4703	Internal Clock Feature	1,125	1.00	29
4781	1200 bps Integrated Modem (requires #4703 and #5201)	535	3.50	16
5201	Modem Base (for mounting #4781)	1,040	2.50	33
7477	Station Selection Feature	893	1.00	22
7850	Text Transparency Feature	893	1.00	22
2084	Binary Synchronous Communications Adapter, Second (#2074 is a prerequisite)	10,630	71.50	314
1325	Auto Call Feature	1,795	1.00	46
3602	EIA Local Attachment	867	1.00	28
4723	Internal Clock	1,125	1.00	29
4782	1200 bps Integrated Modem (requires #4723 and #5202)	714	5.50	21
5202	Modem Base (for mounting #4782)	1,040	2.50	33
7487	Station Selection Feature	893	1.00	22
7851	Text Transparency Feature	893	1.00	22
4645	Integrated Communications Adapter (for 5408 or 5412)	6,130	18.00	145
4801	8000 bps Local Interface (for local attachment of an IBM binary synchronous 3275 Display; modems not required)	1,055	1.00	25
4802	2400 bps Local Interface (for local attachment of an IBM binary synchronous terminal; modems not required)	1,055	1.00	25
6202	Synchronous Line, Medium Speed (up to 7200 bps)	3,190	3.00	77
7851	Text Transparency (for EBCDIC)	893	1.00	22
4702	Local Display Adapter (for 5408, 5412, or 5415; for local attachment of up to three 3277-1 displays and/or 3284/3286-1 printers)	6,240	24.50	163
4701	Basic Attachment Feature	1,530	3.00	54
4704	Display Increment (for three additional displays and/or printers)	1,455	1.00	38
4705	Model 2 Attachment (for Model 2 displays or printers)	831	3.50	21
4765	Local Communications Adapter (for 5406, 5410, or 5415; for local attachment of a 3741 Model 2, a 3271 Control Unit, or a 3275 Display)	5,635	30.00	168

*Rental prices include equipment maintenance.

IBM System/3

SOFTWARE PRICES

SYSTEM/3 MODEL 6

Program Products—Systems

	<u>Monthly License Fee</u>
BASIC	\$127
Disk FORTRAN IV	115
RPG II	38
Auto Report Feature (for RPG II)	16
Telecommunications Feature (for RPG II)	38
Conversational Utilities	16
Disk Sort	10
1255 Magnetic Character Reader Utility	87

Program Products—Applications

	<u>Monthly License Fee</u>
Business Analysis/BASIC	57
Health, Welfare, & Pension Fund	201
Inventory and Requirements Planning	86
MATH/BASIC	50
Shop Loading and Control	136
STAT/BASIC	38

Application Customizer Service (Without Customized Source Code)

	<u>Single-Use Charge</u>
Order Writing and Invoicing	\$768
Inventory Accounting and Management	768
Accounts Receivable	768
Sales Analysis	768
Additional charge for Customized Source Code; each application	116
Above programs tailored for Lumber and Building Supply Dealers or Electrical Distributors; each program	867

Application Programming Service

	<u>Single-Use Charge</u>
Order Writing and Invoicing	1,550
Inventory Accounting and Management	3,000
Accounts Receivable	4,220
Sales Analysis	5,315

SYSTEM/3 MODEL 8

Systems and applications program product support is equivalent to that for System/3 Model 10 disk systems.

SYSTEM/3 MODEL 10

Program Products—Systems

	<u>Monthly License Fee</u>
ANS COBOL Subset Compiler	86
Card RPG II	37
Magnetic Tape Feature	30
Telecommunications Feature	37
Card System Utilities	10
Card Magnetic Tape Sort Programs	76
Disk FORTRAN IV	110
Disk RPG II	50
Telecommunications Feature	38
5445 Disk Storage Drive Features	33
Auto Report Feature	16
Magnetic Tape Feature	33
Disk Sort	10
5445 Disk Storage Drive Feature	55
Disk Magnetic Tape Sort Programs	76
Disk-Resident Card Utilities	10
1255 Magnetic Character Reader Utility	69
Basic Assembler	86

Program Products—Applications

	<u>Monthly License Fee</u>
Apparel Business Control (card)	82
Appropriation Accounting System (card)	132
Bill of Material Processor (disk)	57
Card Bill of Material and Requirements Planning	71
Citation Processing System (card)	132
Data/3	136
EPIC Educational Administration—	
SOCRATES	192
FAST	104
Budget/Finance	121
Student	87
Health, Welfare, and Pension Fund (disk)	198
Inventory and Requirements Planning (disk)	86
Job Analysis System (disk)	79
Law Enforcement System (card)	87
Optimum Blending (card)	98
Order Point Technique for Inventory Management (card)	55
Shop Loading and Control (disk)	136
System for TV and Radio (disk)	433
Unit Inventory Techniques (card)	82
Utility Billing System (card)	87