Rental

IBM System/3

Rev 1/16

➤ 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, \$1,273. Purchase price, \$40,780.

System/3 Model 8

MINIMUM SYSTEM: Consists of 16K 5408 Processing Unit, 5444 Model A1 Disk Storage Drive, 5203-1 Printer, and 5471 Printer-Keyboard. Monthly rental, \$1,533. Purchase price, \$53,590.

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, \$1,872. Purchase price, \$65,660.

System/3 Model 12

MINIMUM SYSTEM: Consists of 32K 5412 Processing Unit, 5424 Model A2 MFCU, 5203 Model 1 Printer, and 3340 Model C2 DASF. Monthly rental, \$3,155. Purchase price, \$103,531.

EXPANDED SYSTEM: Consists of 65K 5412 Processing Unit, 1403 Model 2 Printer, a directly attached 3741 Model 1 Data Station, and 3340 Model C2 DASF. Monthly rental, \$4,109. Purchase price, \$136,395.

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 \$3,644. Purchase price, \$124,456.

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 NI Printer, 2560 Model A1 MFCM, 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 \$7,719. Purchase price, \$256,130.

Downhair

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PROCE	ESSORS AND MAIN STORAGE	Purchase Price	Monthly Maint.	(1-year lease)*
5404	Processing Unit (for Model 4 systems): Model A18; 65,536 bytes	\$19,150	145.00	600
5406	Processing Unit (for Model 6 systems): Model B2;8,192 bytes Model B3; 12,288 bytes Model B4; 16,384 bytes	22,430 26,940 27,480	137.00 143.00 143.00	674 807 938
155 0	Command Keys (9-16)	765	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 29,830 32,530 35,230	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	12,560 16,620 17,150 30,610 31,150 45,150	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 A15; 32,768 bytes Model A17; 49,152 bytes	17,610 21,660 22,280 35,660 36,200 50,190	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 53,165 55,865	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 68,210 76,730 82,130	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 C22; 196,608 bytes Model C23; 229,376 bytes Model C24; 262,144 bytes	95,670 98,370 106,890 112,290 120,300 125,700 131,100 136,500	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

^{*}Rental prices include equipment maintenance.

PROCES	SORS AND MAIN STORAGE (Continued)	Purchase Price	Monthly Maint.	Rental (1-year lease)*
	Model D22; 196,608 bytes Model D23: 229.376 bytes	127,740 133,140 138,540 143,940	280.00 285.00 290.00 300.00	3,429 3,639 3,844 4,054
3500	Dual Program Feature (for 5408, 5410, or 5412)	4,465	1.00	131
5501	Power Supply Expansion (provides additional 6-volt power for 5410, 5412, or 5415; required for certain RPO's such as multi-line communications adapter)	1,755	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)	1,425	3.00	41
5733 5734 5735	Processing Unit Expansion (for 5410, 5412, and 5415; requires 5732 except on 5415) Processing Unit Expansion (for 5410, 5412, and 5415; requires 5733) 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.	626 1,720 626	0.50 1.00 1.00	21 61 21
CONSOL	LE CONTRACTOR OF THE CONTRACTO			
3277 4632	Display Station, Model 1 (required in Model 15 systems) 78-key Operator Console Keyboard (required on 3277)	2,940 1,2 0 5	9.00 14.00	84 38
3277	CRT display (for 5404): Model 1; 480-character display Model 2; 1920-character display Keyboard for either model	2,940 3,810 520	9.00 19.50 3.50	84 123 16
MASS S	TORAGE			
3340 3348	Direct Access Storage Facility: Model A-2 (2-drives plus control) Model B-1 (additional drive) Model B-2 (2 additional drives) Model C-2 (2 drives plus control) Data Module (for 3340 drives): Model 70; 41.04 million bytes plus 9.83 million bytes exclusively for program support	36,000 19,800 25,200 27,580 2,200	92.00 49.00 79.00 82.50 Time & Mat'l	1,100 615 776 850 82
5444 5540	Disk Storage Drive: Model A1; 2.46 million bytes Model A2; 4.92 million bytes Model A3; 2.46 million bytes Model 1; 2.46 million bytes Model 2; 4.92 million bytes Model 3; 2.46 million bytes Model 3; 2.46 million bytes Disk Cartridge (for 5444 drives)	6,595 7,810 6,595 6,335 7,515 6,335 175	71.50 71.50 71.50 51.50 51.50 51.50 Time &	228 342 228 187 308 187 Purch.
5422	Disk Enclosure (required for attachment of 5444 Disk Storage Drives when 5424 MFCU is not used)	4,240	Mat'l 13. 00	only 114
6378 6378 6378	Second Disk Attachment (required on 5406 for a 5444 Mod. 3 or a second 5444 Mod. 2) Second Disk Attachment (required on 5408 for 5444 Mod. A3 or a second 5444 Mod. A2) Second Disk Attachment (required on 5410 for a 5444 Mod. 3 or A3 or a second 5444	1,965 2,730 1,965	5.00 6.00 5.00	49 72 51
4501 4502	Mod. 2 or A2) Higher-Performance Second Disk Attachment (required on 5410 for a 5444 Mod. A1 or A2) Higher-Performance Second Disk Attachment (required on 5410 for a 5444 Mod. A3 or	765 765	1.00 1.00	21 21
6378	a 2nd 5444 Mod. A2; 6378 is a prerequisite) Second Disk Attachment (required on 5415 for a 5444 Mod. A3 or a 2nd 5444 Mod. A2)	2,730	6.00	72
3901 3902 3901 3903	Disk Storage Drive: Model 1; first 5445 on 5415; 20.48 million bytes Model 2; second 5445 on 5415; 20.48 million bytes Model 3; dual-pack 5445, 40.76 million bytes First 5445 Disk Attachment (for 5410; required for Model 1 and 3) Second 5445 Disk Attachment (for 5410; required for Model 2 and 3) First 5445 Attachment (required on 5415 for first pair of 5445 drives) Second 5445 Attachment (required on 5415 for second pair of 5445 drives)	11,570 11,070 22,700 15,620 469 15,620 3,000	93.00 87.50 181.00 36.00 1.00 35.50	401 382 783 561 16 561 84
5447 A1 5447 A2	5-megabyte disk drive (for 5404) 2 10-megabyte disk drive (for 5404)	10,720 14,190	81.00 125.00	405 560
5448 	9.8-megabyte disk drive (for 5408 and 5410) 5448 Attachment (for 5408) 5448 Attachment (for 5410)	7,845 3,600 4,040	- - -	310 120 120

^{*} Rental prices include equipment maintenance.

	EQUIPMENT PRICES			Rental
MAGNE	TIC TAPE EQUIPMENT	Purchase Price	Monthly Maint.	(1-year lease)*
3410	Magnetic Tape Unit: Model 1; 20 KB Model 2; 40/20 KB Model 3; 80/40 KB	7,065 9,450 11,700	61.50 68.00 75.00	206 (1) 274 (1) 342 (1)
3411 3211 3221	Magnetic Tape Unit and Control: Model 1; 20 KB Model 2; 40/20 KB Model 3; 80/40 KB Single Density Feature (for 3410 & 3411, Models 2 & 3 only) Dual Density Feature (for 3410 & 3411, Models 2 & 3 only)	15,570 19,710 24,030 2,295 3,305	95.00 102.00 109.00 9.50 36.50	454 (1) 578 (1) 701 (1) 60 (1) 88 (1) 83 (1)
7003 7951 7960 4701	System/3 Attachment (required on 3411) 3411 Magnetic Tape Attachment (required on 5408, 5410, or 5415) 3411 Magnetic Tape Attachment (required on 5412; requires #4701) Basic Attachment Feature	2,890 4,155 3,805 1,530	3.50 10.50 7.50 3.00	179 137 54
3741	Data Station: Model 1 Model 2	6,235 7, 535	42.00 54.00	174 213
3741 8220	Programmable Work Station: Model 3 Model 4 Attachment (on 5406, 5408, 5410, 5412, or 5415)	8,940 10,240 6,970	63.50 70.00 17.00	277 317 212
PUNCHE	I/O Adapter (on 3741) ED CARD EQUIPMENT	2,750	8.00	73
5424	Multi-Function Card Unit:			
4100 4100 4100 4101 4101 4101	Model A1; reads 250 cpm, punches and prints 60 cpm Model A2; reads 500 cpm, punches and prints 120 cpm MFCU Attachment (required on 5410 for 5424 Mod. A1) MFCU Attachment (required on 5412 for 5424 Mod. A1) MFCU Attachment (required on 5415 for 5424 Mod. A1) MFCU Attachment (required on 5415 for 5424 Mod. A2; requires #4100) MFCU Attachment (required on 5412 for 5424 Mod. A2; requires #4100) MFCU Attachment (required on 5415 for 5424 Mod. A2; requires #4100) MFCU Attachment (required on 5415 for 5424 Mod. A2; requires #4100)	7,810 10,340 3,470 3,470 3,470 4,405 703 703	153.00 220.00 15.00 15.00 15.00 15.00 2.00	326 490 93 93 93 111 18
1442 3950 4130 4130	Card Read Punch: Model 6; reads 300 cpm, punches 80 cols/sec. Model 7; reads 400 cpm, punches 160 cols/sec. 5410/5415 Coupling (required on 1442) 1442 Attachment (required on 5410 or 5412) 1442 Attachment (required on 5415)	11,110 11,970 1,160 6,790 6,790	65.50 77.50 1.00 16.50 16.00	297 432 33 212 212
2501 3630	Card Reader (for Model 15 only): Model A1; 600 cpm Model A2; 1,000 cpm 1501 Coupling (required on 2501)	21,230 15,590 168	41.00 58.00 NC	218 286 5
8 0 90 2560	2501 Attachment (required on 5415) Multi-Function Card Machine (for Model 15 only):	6,965	8.00	168
8100 1580	Model A1; reads 500 cpm, punches 160 col/sec. Model A2; reads 310 cpm, punches 120 col/sec. 2560 MFCM Attachment (required on 5415) Card Print Control (for 5415)	30,310 22,260 6,545 1,295	115.00 115.00 17.00 3.00	691 538 168 28
Card Prin 1575 1576 1577	nt Feature for 2560 Model A1: First Two Lines (requires 1580 on 5415) Second Two Lines Third Two Lines	6,600 6,600 6,600	16.00 16.00 16.00	150 150 150
5486	Card Sorter: Model 1; 1000 cpm Model 2; 1500 cpm	3,665 4,190	42.00 63.50	101 138
5496 3210 7501	Data Recorder (96-column) Data Recorder Attachment (required on 5406) System/3 Attachment (required on 5496)	5,935 1,525 1,720	59.50 2.00 11.50	177 44 49
7503 3610 3210	Card Data Recorder (80-column): Model 1; Punch-Verifier (non-print) Model 2; Printing Punch (non-verifier) Model 3; Printing Punch Verifier Card I/O Attachment (required on 129) Expansion Feature (required on 129) Data Recorder Attachment (required on 5406)	6,485 7,265 7,785 2,770 518 1,52 5	42.00 46.00 47.00 11.50 NC 2.00	140 156 168 84 10 44
2265 7960	Display Station Display Station Attachment (required on 5406)	4,700 2,865	40.00 1.50	183 85
5471 4110 5475 4120	Printer-Keyboard Printer-Keyboard Attachment (required on 5408, 5410, or 5412) Data Entry Keyboard Data Entry Keyboard Attachment (required on 5410 in place of #4110)	3,885 2,315 1,855 2,075	35.00 5.00 7.50 1.00	121 60 46 51

^{*}Rental prices include equipment maintenance.

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PRINT	ERS	Purchase Price	Monthly Maint.	Rental (1-year lease)*
3284	Matrix printer; 40 cps (for 5404): Model 1; 480-character buffer Model 2; 1920-character buffer	5,065 5,685	37.50 37.50	168 179
3286	Matrix printer; 66 cps (for 5404): Model 1; 480-character buffer Model 2; 1920-character buffer	6,775 7 ,5 0 5	37.50 37.50	201 213
3288	Line Printer; 120 lpm (for 5404)	12,500	87.00	427
3901 3902 3903 3960	Printer (for Model 6 only): Model 1; pin-feed platen Model 2; vertical forms control Model 3; vertical forms control, bidirectional printing Printer Attachment (required on 5406 for 5213 Mod. 1) Printer Attachment (required on 5406 for 5213 Mod. 2) Printer Attachment (required on 5406 for 5213 Mod. 3) Enhanced Print Rate Attachment (required on 5406 for printing at 115 cps with 5312 Mod. 3; replaces 3903 Attachment)	4,840 6,245 6,400 2,675 2,675 2,675 3,745	60.00 82.00 94.00 20.50 20.50 20.50 23.00	179 224 280 78 78 78 78
2222 7951	Printer (with ledger card device; for Model 6 only): Model 1; unidirectional printing Model 2; bidirectional printing Printer Attachment (required on 5406 for 2222 Mod. 1)	12,860 13,020 2,675	125.00 137.00 20.50	392 432 78
7952	Printer Attachment (required on 5406 for 2222 Mod. 2)	2,675	20.50	78
3475 4730 4740 5558 5560 8639	Printer (for Model 8, Model 10, and Model 12 only): Model 1; 100 lpm, 96 positions Model 2; 200 lpm, 96 positions Model 3; 300 lpm, 96 positions Dual-Feed Carriage (for 5203) Additional Chain Cartridge (for 5203 Mod. 1 & 2) Additional Chain Cartridge (for 5203 Mod. 3) 24 Additional Print Positions (for 5203) 36 Additional Print Positions (for 5203) Universal Character Set Attachment (for 5203)	8,240 9,185 12,800 2,865 2,865 2,145 1,180 1,750 236	80.00 90.00 151.00 23.00 1.00 39.00 2.00 2.00 1.00	272 331 488 88 88 123 59 88 10
3960 3970 3970 3971 3972 3972 3480 8642	5203 Printer Base Attachment (required on 5408 or 5412 for any model 5203) 5203 Model 1 or 2 Printer Attachment (required on 5408 or 5412; requires #3960) 5203 Model 1 Printer Attachment (required on 5410) 5203 Model 2 Printer Attachment (required on 5410) 5203 Model 3 Printer Attachment (required on 5408 or 5412; requires #3960) 5203 Model 3 Printer Attachment (required on 5408 or 5412; requires #3960) 5203 Model 3 Printer Attachment (required on 5410) Dual Feed Carriage Control (required on 5408, 5410, or 5412 for #3475 on 5203) Universal Character Set Control (required on 5408, 5410, or 5412 for #6639 on 5203)	1,788 767 2,555 2,555 1,942 3,730 1,010 373	7.50 3.00 10.50 10.50 6.50 14.00 1.00	45 19 64 64 62 107 29 16
1403 1416	Printer (requires 5421); Model 2; 600 lpm, 132 positions Model 5; 465 lpm, 132 positions Model N1; 1100 lpm, 132 positions Interchangeable Train Cartridge (for 1403 Mod. N1)	22,000 21,070 38,140 2,665	234.00 169.00 270.00 Time & Mat'l.	841(1) 650(1) 983(1) 101(1)
1376 4740 8640 8641 5421	Auxiliary Ribbon Feeding (for 1403 Mod. 2 or 5) Interchangeable Chain Cartridge Adapter (for 1403 Mod. 2 or 5) Universal Character Set Feature (for 1403 Mod. N1) Universal Character Set Feature (for 1403 Mod. 2) Printer Control Unit (required for 1403 Mod. 2, 5, or N1)	2,000 2,030 426 299 10,970	21.00 NC 2.00 2.00 28.50	80(1) 80(1) 10(1) 10(1) 297
4135 4140 4140 4150 4150 4160	1403 Model 5 Printer Attachment (for 5412 or 5415; requires #4160) 1403 Model 2 Printer Attachment (for 5410) 1403 Model 2 Printer Attachment (for 5412 or 5415; requires #4160) 1403 Model N1 Printer Attachment (for 5410) 1403 Model N1 Printer Attachment (for 5412 or 5415; requires #4160) 1403 Printer Base Attachment (for 5412 or 5415)	221 4,025 575 4,410 960 3,450	1.50 23.00 1.50 23.00 1.50 21.00	7 134 18 195 79 116
MICR/C	OCR EQUIPMENT			
3215 4380 4520 6303 7060	Magnetic Character Reader (requires #7081): Model 1; 500 dpm, 6 stackers Model 2; 750 dpm, 6 stackers Model 3; 750 dpm, 12 stackers Dash Symbol Transmission (for 1255) 51-column Card Sorting (for 1255) High-Order Zero & Blank Selection (for 1255 Mod. 3 only) System/3 Adapter (required on 1255) Self-Checking Numbers for 1255)	35,460 40,590 55,260 35 734 1,315 5,335 2,135	251.00 400.00 527.00 NC NC 5.00 4.00 2.50	904 1,100 1,450 56 (1) 16 33 135 54
3881 1471 3450 3550 3801 6451	Optical Mark Reader (requires #7081): Model 1; for on-line use Model 2; for off-line use BCD Read (for 3881) Document Counters (for 3881) Dual Density (for 3881 Model 2 only) Expanded Storage (for 3881) Serial Numbering (for 3881)	51,390 46,800 2,150 948 5,410 2,150 6,325	138.00 109.00 1.50 2.00 0.50 0.50 25.00	1,504 (2) 1,369 (2) 61 (2) 23 (2) 156 (2) 61 (2) 183 (2)
7081 7081 7081	Serial I/O Channel (required on 5406 for 1255) Serial I/O Channel (required on 5408, 5410, or 5412 for 1255 or 3881) Serial I/O Channel (required on 5415 for 1255 or 3881)	6,080 6,080 6,080	5.00 5.00 6.50	171 177 177

^{*} 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.
(2) A discount of approximately 15% is available on an Extended-Term Lease with a basic contract period of 24 months.

New Product Announcement

MODEL 4: The IBM System/3 Model 4, announced on January 14, 1976, represents a major departure from IBM's previous approaches. For the first time, IBM is supporting the multi-user, multi-task approach to small business data processing.

A System/3 Model 4 consists of: a 5404 processor with 64K bytes of MOSFET main memory, non-expandable; 5 or 10 megabytes of fixed/removable disk storage using 5440 disk cartridges in new 5447 disk units; a 115-cps 5213 matrix printer; a 3277 Model 1 CRT display for logging operating system messages; one to five local workstations, which may be 480- or 1920-character CRT/keyboard displays or 40-cps, 66-cps, or 120-lpm printers; and one optional Bisync adapter that can accommodate remote workstations or permit communications with a host computer.

The 5404 keyboard console is identical with that of the System/3 Model 6 (5406). The basic processor includes provisions for attaching up to two local workstations; the Display Increment feature is required to attach additional workstations. The Enhanced Print Rate Attachment feature is required to attach the 5213 printer. If 1920-character 3277 Model 2 display workstations are desired, a 3270 Model 2 Attachment feature is required. In addition, a Serial I/O Channel is available for the Model 4, just as with other System/3 models, for attachment of low-speed, non-IBM peripherals.

Two models of the new 5447 Disk Storage units are available. Model A1 can store up to 2.5 megabytes of information on each of two 5440 cartridges for a total capacity of 5.0 megabytes. The arrangement is familiar—one fixed and one removable cartridge mounted on the same spindle with a common access mechanism. Model A2 adds a completely independent module of two fixed cartridges in the same enclosure for a total storage capacity of 10.0 megabytes. Formats are completely compatible with those of other System/3 models. Minimum head positioning time is 28 milliseconds, average is 126 milliseconds, and maximum is 255 milliseconds; average rotational delay is 20 milliseconds; and data transfer rate is 199K bytes per second. These are the same performance parameters as those of the 5444 Models A2 and A3.

Local workstations can be located up to 2000 feet from the Model 4 processor. The 3277 Model 1 provides 480 display positions arranged in 12 lines of 40 characters. The 3277 Model 2 provides 1920 display positions arranged in 24 lines of 80 characters. A separately priced, separable keyboard is available for each. The 3284 and 3286 matrix printers are both available as a Model 1 that includes a 480-character buffer or as a Model 2 that includes a 1920-character buffer. The 3284 operates at 40 characters per second; the 3286, at 66 characters per second. Characters are formed by a 4-by-7 dot matrix. The 3288 Model 2 operates at a nominal speed of 120 lines per minute and has a 1920-character buffer. The print mechanism uses an engraved metal belt. All displays and printers use a 64-character set. Each display or printer counts as one of the five possible local workstations.

The disk enclosure, which houses either an A1 or A2 model, provides space on top for the 5213 printer, operator keyboard console, and 3277 system display.

Software support for the System/3 Model 4 consists of a new Communications Control Program (CCP) that is functionally equivalent to CCP for the System/3 Model 10 and a subset of the software support for the System/3 Model 6. The only programming language supported is RPG II.

CCP provides control of the multi-user environment. Previously compiled RPG II programs are initiated from a workstation. Up to four tasks can be active simultaneously, and multiple workstations can be operating under the same task. One of the tasks can involve a remote workstation connected through the Bisync adapter. The basic supervisor occupies 3.25K bytes of memory. Two pre-generated versions of CCP are available. The minimum version occupies 25K bytes and supports only 3270-family display and printer remote workstations. The maximum version occupies 31.5K bytes and supports the full array of remote workstation types. All active tasks are co-resident in main memory. If insufficient memory space is available, a task cannot be initiated; i.e., no swapping facility is implemented. The workspace allocated to a task, however, need not be as large as the complete task itself. If the task is larger than the workspace available, the task will be automatically segmented. A new disk sort routine (\$15 per month), requiring 12K bytes, can be run as a task CCP. User tasks need not require user interaction on the CRT display or other peripheral devices; such "batch" tasks on multi-user systems are frequently referred to by other vendors as "phantom tasks." Access to the system is controlled via a password arrangement.

Instead of running under CCP, the user can operate the System/3 as a Model 6 with the following support: RPG II compilation, RPG II execution including the Auto Report and

New Product Announcement

Telecommunications features, Conversational Utilities (Keyboard Source Entry and Keyboard Data Entry), Overlay Linkage Editor, Disk Sort Program, and Multileaving Remote Job Entry Workstation (MRJE/WS). See the main report for descriptions of these software packages. Running under Model 6 software, only the 3.25K-byte resident supervisor detracts from user memory space. The Model 6 SCP must be Release 13 or later. Model 6 software not supported on the Model 4 includes FORTRAN, BASIC, and the 1255 MICR reader utility.

The Bisync adapter is capable of supporting communications at up to 50,000 bits per second over appropriate facilities. The minimum version of CCP can support as a remote workstation one point-to-point or multipoint line with 3270-family devices including clustered 3277 displays, stand-alone 3275 displays, and 3280 series printers.

The full version of CCP adds remote workstation support for point-to-point or multipoint connection over one line with a 3741 Data Station Model 2, 3741 Programmable Work Station Model 4, or 3735 Programmable Buffered Terminal Model 1. In addition, Bisync communication is supported between the System/3 Model 4 and another System/3, System/7, System/32, System/360, or System/370. The System/3 Model 4, however, cannot simultaneously communicate with a remote workstation and function as an RJE terminal. Typically, remote workstations will operate in half-duplex mode at 2400, 4800, or 7200 bps. Using IBM modems, transmission at up to 4800 bps over the switched telephone network and at up to 7200 bps over a leased voice-grade line is supported. Higher transmission speeds require a wide-band facility.

5448 DISK STORAGE: On May 24, 1976, IBM expanded the disk capacity for System/3 Models 8 and 10 by introducing the 9.8-megabyte 5448 Disk Storage Drive. The new drive utilizes 4 fixed disks with a total of 8 recording surfaces, 400 data cylinders, and 1600 tracks. Average head movement time is 126 milliseconds, and the data transfer rate is 199K bytes per second. For pricing details, see the price list starting on page M11-491-523.

MODEL 15D: In June 1976, IBM strengthened the upper end of its small-systems product line by announcing the System/3 Model 15D. Processors are available with 160K, 192K, 224K, and 256K bytes of MOSFET (metal oxide semiconductor field effect transistor) main storage. Memory is identical with the memory used in other System/3's, except that the cycle time (1.52 microseconds for a 1-byte fetch) has been speeded up for certain non-I/O instructions. The reason for the faster cycle time is to take advantage of software enhancements.

A principal software enhancement is a new System Control Program (SCP) that allows a third program partition in main memory. Previous System/3 SCP's provided only two partitions. Therefore, the user can now add another batch system, program test/compilation, or communications job in addition to the two he may already have functioning. SCP has also been enhanced to allow sharing of more disk files and to allow programs in different partitions to update the same file. Additional improvements allow the user to define up to 192 active disk files per partition (40 on other System/3's), and spooled input from a 3741 Programmable Work Station can be variable in length, from 1 to 128 bytes as opposed to a fixed length of 96 bytes.

Disk capacity for the 15D has more than tripled over previous models. Other System/3's can go as high as 164 million bytes, but the 15D can be configured with as much as 506 million bytes. This additional on-line capacity is provided by the 3344 Direct Access Storage Unit. The 3344 utilizes nonremovable storage media and offers an average access time of 25 milliseconds and a data transfer rate of 885K bytes per second.

For detailed pricing information on the System/3 Model 15D, see the price list starting on page 70C-491-21y. The 3344 Direct Access Storage Unit is described in Report 70C-491-04. □

EQUIPMENT PRICES

	EQUIPMENT PRICES			Dames 1
COMM	UNICATIONS EQUIPMENT	Purchase Price	Monthly Maint.	Rental (1-year lease)*
2074	Binary Synchronous Communications Adapter	9,570	71.50	314
1315	Auto Call Feature	1,620	1.00	46
3601	EIA Local Attachment	781	1.00	28
4703	Internal Clock Feature	1,020	1.00	29
4781	1200 bps Integrated Modern (requires #4703 and #5201)	483	3.50	16
5201	Modem Base (for mounting #4781)	937	2.50	33
7477	Station Selection Feature	8 0 5	1.00	22
7850	Text Transparency Feature	805	1.00	22
2084	Binary Synchronous Communications Adapter, Second (#2074 is a prerequisite)	9,570	71.50	314
1325	Auto Call Feature	1,620	1.00	46
3602	EIA Local Attachment	781	1.00	28
4723	Internal Clock	1,020	1.00	29
4782	1200 bps Integrated Modem (requires #4723 and #5202)	644	5. 50	21
5202	Modem Base (for mounting #4782)	937	2.50	33
7487	Station Selection Feature	80 5	1.00	22
7851	Text Transparency Feature	80 5	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)	805	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)	5,075	30.00	168

^{*}Rental prices include equipment maintenance.

SOFTWARE PRICES

SYSTEM/3 MODEL 6

Program Products—Systems		Monthly License Fee
BASIC Disk FORTRAN IV RPG II Auto Report Feature (for RPG II) Telecommunications Feature (for RPG II)		\$127 115 38 16 38
Conversational Utilities Disk Sort 1255 Magnetic Character Reader Utility		16 10 87
Program Products—Applications		Monthly License Fee
Business Analysis/BASIC Health, Welfare, & Pension Fund Inventory and Requirements Planning MATH/BASIC Shop Loading and Control STAT/BASIC		57 201 86 50 136 38
Application Customizer Service (Without Customized Source Code		Single-Use Charge
Order Writing and Invoicing Inventory Accounting and Management Accounts Receivable Sales Analysis Additional charge for Customized Source Code; each application Above programs tailored for Lumber and Building Supply Dealers or Electrical Distributors; each program		\$768 768 768 768 116 867
Application Programming Service		Single-Use Charge
Inventory Accounting and Management Accounts Receivable	Any one application: Any two applications: Any three applications: Any four applications:	1,550 3,000 4,220 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	Monthly License Fee
ANS COBOL Subset Compiler	86
Card RPG II	37
Magnetic Tape Feature	30

SOFTWARE PRICES

SYSTEM/3 MODEL 10 (Continued)

5751 EW/3 WODEL TO (Continued)	Monthly License Fee
Program Products—Systems (Continued)	
Telecommunications Feature Card System Utilities Card Magnetic Tape Sort Programs Disk FORTRAN IV Disk RPG II Telecommunications Feature 5445 Disk Storage Drive Features Auto Report Feature Magnetic Tape Feature Disk Sort 5445 Disk Storage Drive Feature Disk Sort Disk Sort Disk Storage Drive Feature Disk Magnetic Tape Sort Programs Disk-Resident Card Utilities 1255 Magnetic Character Reader Utility Basic Assembler	37 10 76 110 50 38 33 16 33 10 55 76 10 69 86
Program Products—Applications	Monthly License Fee
Apparel Business Control (card) Appropriation Accounting System (card) Bill of Material Processor (disk) Card Bill of Material and Requirements Planning Citation Processing System (card) Data/3 EPIC Educational Administration—	82 132 57 71 132 136
SOCRATES FAST Budget/Finance Student Health, Welfare, and Pension Fund (disk) Inventory and Requirements Planning (disk) Job Analysis System (disk) Law Enforcement System (card) Optimum Blending (card) Order Point Technique for Inventory Management (card) Shop Loading and Control (disk) System for TV and Radio (disk) Unit Inventory Techniques (card) Utility Billing System (card)	192 104 121 87 198 86 79 87 98 55 136 433 82 87
Application Customizer Service—Card Systems	Single-Use Charge
Order Writing and Invoicing Inventory Accounting Accounts Receivable Sales Analysis Payroll General Ledger Accounts Payable Labor Distribution	405 374 374 352 473 323 427 427
Application Customizer Service—Disk Systems	Single-Use Charge
Order Writing and Invoicing Inventory Accounting and Management Accounts Receivable Sales Analysis Additional for Customized Source Code, each application	815 785 757 727 116
SYSTEM/3 MODEL 12 Program Products—Systems	Monthly License Fee
Basic Assembler Card Utilities COBOL DATA/3 Disk Sort FORTRAN IV RPG II Tape Sort 1255 Utility	\$81 16 81 130 43 108 81 75 66
Program Products—Applications	
Programs that run on a System/3 Model 6, 8, or 10 can be compiled to run on the Model 12 without changing any source code. A simulation of the 5444 disk area is made on the 3340 DASF.	
SYSTEM/3 MODEL 15 Program Products—Systems	Monthly License Fee
ANS COBOL Subset Compiler Basic Assembler Card Utilities Disk Sort FORTRAN IV Magnetic Tape Sort RPG II	85 85 16 45 113 78 85
Program Products—Applications	Monthly License Fee
DATA/3	136

Note: Model 15 systems can also run System/3 Model 10 applications programs.