

Xerox 530, 550, & 560

► content before processing of the transaction. User-oriented commands are provided to enable users at remote locations to examine, search, and modify the data base.

Standard CP-V system services that are available to all processing modes include the system scheduler, the file management system and file maintenance utilities, re-entrant language processors, spooling symbionts, resource management routines, and accounting routines. Files can be protected from unauthorized access either by passwords or by association with a list of users with authorization to read or to read and update. A performance monitoring system provides statistical summaries of performance data and enables the user to alter key parameters for "tuning" the system.

A system recovery function is automatically invoked by CP-V upon detection of an unrecoverable hardware or software error. The recovery routines examine all essential system tables for intactness and reload a new copy of CP-V to begin system re-initialization. Errors that can be isolated to a single user cause that user's program to be aborted while the remainder of the system continues processing. A manual entry point is also provided for use in the event of unrecoverable errors.

File recovery is also handled automatically by CP-V. File structures supported by CP-V are consecutive (sequential), keyed (indexed sequential), and random. Secondary storage for virtual storage swapping can be a high-speed RAD or removable disk storage system.

DIAGNOSTIC PROGRAMMING SYSTEM: Includes 14 hardware and software micro-diagnostic routines that can detect up to 6 levels of errors for functional units and 13 types of memory errors in Xerox 550 and 560 systems. The routines operate off-line under operator control and can be executed under remote control through the Remote Assist facility. The routines are embedded in a read-only memory for each functional unit and permit the basic processor, memory modules, and functional units to be exercised individually and simultaneously to validate system operation.

COBOL: Xerox offers an ANS COBOL compiler which is segmented for use with the Memory Map feature. Extended COBOL language features include implementation of the Table Handling module, sort/merge linkages, common data storage, for independently compiled programs, etc. ANS COBOL is available for the Xerox 530, Xerox 550, and Xerox 560 systems.

FORTRAN: Xerox offers FORTRAN in a number of different versions. For the Xerox 530, Basic FORTRAN, FORTRAN IV, and ANS FORTRAN IV are available, all of which are upward-compatible with their FORTRAN counterparts on the larger Xerox processors.

A FORTRAN Load and Go (FLAG) compiler is available for the Xerox 550 and 560. FLAG is designed for one-pass operation to compile and execute a small-to-medium-size program without leaving main memory.

Extended FORTRAN IV-H is another one-pass compiler for operation under CP-R or CP-V on the Xerox 550 and 560. This compiler produces re-entrant programs with a number of extensions beyond ANS FORTRAN. Among these are IMPLICIT statements, END and ERROR options on READ statements, an in-line assembly-language option, run-time path-of-flow tracing for debugging, etc. Extended FORTRAN IV-H is intended for use on smaller-configuration systems and provides a high degree of compatibility with the FORTRAN compilers of numerous other computer vendors.

Extended FORTRAN IV is another superset of ANS FORTRAN for the Xerox 550 and 560. This three-pass compiler requires more memory for compilation than Extended FORTRAN IV-H, but produces more efficient code along with extensive diagnostics to reduce debug time. Extended FORTRAN IV runs under CP-R or CP-V. In addition to producing re-entrant object code, this compiler offers mixed-mode expressions, punctuation flexibility, automatic double precision, generalized DO loops and subscripts, bit manipulation, etc.

ASSEMBLERS: Extended Symbol, available for the Xerox 530 only, is a three-pass assembler under RBM that is upward-compatible with Symbol on the larger Xerox systems. A concordance (cross-reference table that lists the data and/or statement names) and a macro capability are the primary enhancements over basic Symbol. Many of the features of Extended Symbol are found in Meta Symbol on higher-numbered versions of the Xerox processors.

Meta Symbol is the full-scale Xerox assembler used under CP-R and CP-V. It includes provisions for procedure-oriented statements, symbolic references, etc. This two-pass assembler allows parameter testing during assembly that can vary the generated code. Other features of Meta Symbol include self-defining constants, full use of lists and subscripted elements, automatic alignment of instructions on word boundaries, etc. Meta Symbol runs on the Xerox 550 and 560.

The Xerox Assembly Processor (AP) is a four-phase macro assembler that executes in the background area of CP-R. AP allows recursive procedures, conditional coding to control assembly, arithmetic and Boolean operators, and updating of source programs during assembly.

TEXT: Xerox offers a TEXT Publication Processor under CP-V that is functionally identical with IBM's AT/360.

UTILITY ROUTINES: Sort/merge programs are offered for both CP-R and CP-V systems. All are generalized programs which are controlled by user-supplied parameters, and all can accommodate either fixed- or variable-length records. Each software level also includes an appropriate number of data transcription, diagnostic, mathematical, and other utility routines.

RPG II: An RPG II compiler is available to execute as a background program on the Xerox 530 under RBM, and both RPG and RPG II are available on the Xerox 560 under the CP-V operating system. Additional features implemented include the ability to automatically include and selectively execute subroutines, the EXCEPT operation code to provide output during total or detail calculations; user control of report line spacing; AND/OR functions; chain operation code and specialized edit codes; and the capability to access indexed sequential files.

BASIC: An extended BASIC compiler is usable in either batch or on-line mode on Xerox 560 systems under CP-V.

APL: Full APL is available under CP-V and does not require that the system be dedicated to APL exclusively. A graphic interface to APL programs is available.

EXTENDED DATA BASE MANAGEMENT SYSTEM: EDMS is a generalized data base management system that conforms to the CODASYL Data Base Task Group recommendations. It provides various file organization schemes for data access and retrieval. EDMS is designed to be used with COBOL, FORTRAN, and Meta Symbol programs and runs on the Xerox 560 under CP-V. ►

Xerox 530, 550, & 560

INTERACTIVE DATA BASE PROCESSOR (IDP): IDP offers query and report generation capabilities for batch and on-line users accessing EDMS data bases. Capability is also provided for sorting data for reports and accumulation of counts and totals.

MANAGE/TERMINAL-ORIENTED MANAGE (TOM): This generalized file retrieval and update program enables non-technical personnel to manipulate files and generate reports from files. TOM facilitates file access from remote terminals.

APPLICATION PROGRAMS: A number of applications programs are available from Xerox on an unbundled (separately priced) basis.

General Purpose Discrete Simulator (GPDS) is a version of IBM's GPSS that runs on a Xerox processor under CP-V.

Functional Mathematical Programming System (FMPS) is a linear programming system developed jointly with Bonner and Moore Associates. FMPS operates on a Xerox 560.

GAMMA III is an adjunct to FMPS that formulates linear programming problems into specialized matrix notation to simplify FMPS input.

CIRC is a sophisticated circuit design and analysis tool for electrical engineers that runs under CP-V. Three versions are available: CIRC-DC (direct current), CIRC-AC (alternating current), and CIRC-TR (transient analysis).

Simulation Language (SL-1) provides digital or hybrid simulation through a superset of IBM's Continuous System Simulation Language (CSSL) under CP-R or CP-V. A version called CSS/3 is available for the Xerox 530.

In addition to the applications supported by Xerox, more than 1,000 programs are listed in the Xerox Users' Group Catalog of Programs.

USERS' GROUP: Xerox has a users' group composed of over 1200 active members. Semi-annual meetings are held, and a newsletter, *User News*, is published monthly. A number of Special Interest Groups have been formed, covering topics such as commercial applications, real-time operation, educational applications, etc. A comprehensive catalog of the Xerox Users' Group program is available from Xerox. For further information, contact: Secretary, Xerox Users' Group, Xerox Corporation, 701 South Aviation Blvd., El Segundo, California 90245.

PRICING

EQUIPMENT: All necessary control units, I/O processors, and adapters are included in the indicated prices for the following typical configurations, and the quoted one-year rental prices include equipment maintenance. Note that numerous special interface units and communications controllers for real-time and on-line use have not been included.

XEROX 530 CARD/TAPE SYSTEM: Consists of an 8K-word Central Processor, 7315 Magnetic Tape Controller and Tape Unit and one additional 7316 Magnetic Tape Unit (60KB), 7121 Card Reader (200 cpm), and 3451 Line Printer (350 lpm). Purchase price is \$80,110, and monthly rental is \$2,612 on a one-year

lease. For purchased systems, monthly maintenance is \$881.

XEROX 550 MEDIUM-SCALE SYSTEM: Consists of a 32K-word Central Processor, 3214 RAD Storage System (2.9 MB), 3243 Cartridge Disk Drive (11.4 MB), 3332 Magnetic Tape Controller and Tape Unit and additional 3335 Magnetic Tape Unit (36/72 KB), 7121 Card Reader (200 cpm), 7165 Card Punch (100 cpm), 3461 Line Printer (300 lpm), and 4591 Printer-Keyboard. Purchase price is \$329,710, and monthly rental is \$10,141 on a one-year lease. For purchased systems, monthly maintenance is \$1,992.

XEROX 560 TAPE/DISK SYSTEM: Consists of an 80K-word Central Processor, two 3214 RAD Storage Systems (5.8 MB), four 3277 Disk Drives (400 MB), 3340 Magnetic Tape Control and four 3347 Magnetic Tape Units (100/200 KB), two 7140 Card Readers (1500 cpm), 7165 Card Punch (100 cpm), two 3465 Line Printers (1250 lpm), and a 4591 Printer-Keyboard. Purchase price is \$980,844, and monthly rental is \$24,525 on a one-year lease. For purchased systems, monthly maintenance is \$6,007.

SOFTWARE: Xerox was among the first mainframe vendors to price applications software separately. This policy applies to the major applications systems developed by Xerox or by outside sources under contract to Xerox. Such software is currently limited to a handful of applications-oriented packages. Operating systems, utilities, and language processors are bundled at no additional cost to users. A number of the separately priced applications packages are provided at no charge to qualified educational institutions.

SUPPORT: Xerox has formed a Commercial Systems Integration Group to provide systems engineering and field support to customers. "Emergency" operating system software support is available from Field Engineers at \$25/hour on weekdays and \$28/hour on Sundays and holidays. On-site custom software assistance is provided by Systems Engineers at \$25/hour for small Xerox 530 systems and \$30/hour for more complex systems.

EDUCATION: Xerox maintains an Education Center in Los Angeles at which standard and special courses are taught. These courses cover all aspects of Xerox computer usage and range in length from 2 to 10 days, at costs ranging from \$100 to \$300. A training program consisting of a number of courses may be desired, depending upon customer requirements. On-site training can be arranged at negotiated charges.

CONTRACT TERMS: Xerox offers a purchase agreement for its computer systems, and 1, 4, or 6-year lease terms. A 9-hour weekday principal period of maintenance is included at no additional charge for leased systems. Additional maintenance support is available: Saturday or Sunday coverage is offered at a premium of 20% of the separate maintenance charge; 16-hour maintenance is available for 5, 6, or 7 days per week at premiums of 40%, 70%, or 90%, respectively, of the separate maintenance charge; and 24-hour maintenance is available for 5, 6, or 7 days per week at premiums of 110%, 125%, or 140%, respectively, of the separate maintenance charge. ■

Xerox 530, 550, & 560

EQUIPMENT PRICES

		<u>Purchase Price</u>	<u>Monthly Maint.</u>	<u>Rental (1-year lease)*</u>	<u>Rental (4-year lease)*</u>	<u>Rental (6-year lease)*</u>
XEROX 530 PROCESSOR AND MAIN STORAGE						
4101	530 CPU with 8K words of core memory (includes first IOP with 16 channels, extended arithmetic including multiply/divide, six general registers, two real-time clocks, fault interrupts, memory protect, power monitor, six levels of external interrupt, and first keyboard/printer control)	20,000	162	798	718	638
4151	8K Core Memory Module	5,500	49	342	308	274
4105	Two-byte interface for first IOP	1,500	16	57	51	46
4118	Floating Point Arithmetic	3,500	38	190	171	154
4119	Field Addressing Instructions	1,500	16	57	51	46
4125	Priority Interrupt, 12 levels	600	6	23	21	18
4170	External Interface Feature	400	6	16	15	14
4171	Second IOP with 12 I/O Channels	5,000	38	190	171	154
4175	Two-byte Interface for second IOP	1,500	16	57	51	46
4180	DMA	1,200	11	45	41	36
4185	Dual Processor Adapter	5,000	38	190	171	154
4190	Second Keyboard/Printer Control	1,650	6	66	59	52
4191	KSR-35 Keyboard/Printer	3,300	16	125	114	91
4192	ASR-35 Keyboard/Printer	5,000	16	188	171	148
4193	KSR-33 Keyboard/Printer	1,300	16	51	46	40
4194	ASR-33 Keyboard/Printer	1,700	16	68	63	57
SPECIAL PACKAGED XEROX 530 SYSTEMS						
41C1	Paper Tape System (consists of a 4101 processor and a 7060 paper tape reader/punch)	25,000	240	1,000	912	827
41C2	Paper Tape plus Punched Card system (consists of a 4101 processor, 7060 paper tape reader/punch, and 7121 card reader)	29,500	295	1,220	1,119	1,023
41C3	Paper Tape plus Punched Card Plus Line Printer System (consists of a 4101 processor, 7060 paper tape reader/punch, 7121 card reader, and 3451 Line Printer)	47,000	545	1,670	1,539	1,423
41C4	Card System (consists of a 4101 processor and 7121 card reader)	24,500	221	1,031	937	846
41C5	Card System plus Line Printer (consists of a 4101 processor, 7121 card reader, and 3451 line printer)	42,000	455	1,370	1,257	1,156
41C6	Card System plus Line Printer and one Magnetic Tape Drive (consists of a 4101 processor, 7121 card reader, 3451 line printer, and 7315 magnetic tape drive & controller)	52,000	655	1,970	1,807	1,656
41C7	Card system plus Line Printer and two Magnetic Tape Drives (consists of a 4101 processor, 7121 card reader, 3451 line printer, 7315 magnetic tape drive & controller, and 7316 magnetic tape drive)	59,000	835	2,420	2,229	2,056
XEROX 550 PROCESSOR AND MAIN STORAGE						
4501	Xerox 550 Basic System; includes Basic Processor and MIOP, System Control Processor, 16K words of 2-port memory, four blocks of 16 general-purpose registers, memory map and access protection, and extended arithmetic unit. The System Control Processor contains four real-time clocks, power fail-safe, watchdog timer, configuration control, 14 internal interrupts, external control subsystem, and remote assist facility	104,700	648	3,180	2,989	2,862
4525	External Interrupts, 12 levels	2,000	16	74	70	67
4561	16K Core Memory Unit with two ports	26,000	119	882	829	762
4562	16K Core Memory Increment	24,000	104	814	765	734
4566	Two-Port Expansion for Memory (2 per 4561)	8,000	65	286	269	258
4570	Direct I/O Interface	2,500	22	88	87	86
4580	I/O Cluster	8,000	65	265	249	238
4581	Additional MIOP	15,000	89	530	498	477
4582	I/O Adapter	10,000	65	371	349	329
4591	KSR 35 Keyboard Printer	3,300	16	125	114	91
XEROX 560 PROCESSOR AND MAIN STORAGE						
4601	Xerox 560 Basic System; includes Basic Processor and MIOP, System Control Processor, 16K words of 2-port memory, four blocks of 16 general-purpose registers, memory map and access protection, extended arithmetic unit, floating point, and byte string and decimal instructions. The System Control Processor contains four real-time clocks, power fail-safe, watchdog timer, configuration control, 14 internal interrupts, external control subsystem, and remote assist facility	162,700	836	3,604	3,388	3,138

* Rental prices include monthly maintenance charges.

Xerox 530, 550, & 560

XEROX 560 PROCESSOR AND MAIN STORAGE (Continued)		Purchase Price	Monthly Maint.	Rental (1-year lease)*	Rental (4-year lease)*	Rental (6-year lease)*
4625	External Interrupts, 12 levels	2,000	16	74	70	67
4661	16K Core Memory Unit with two ports	26,000	119	882	829	792
4662	16K Core Memory Increment	24,000	104	814	765	734
4666	Two-Port Expansion for Memory (2 per 4661)	8,000	65	286	269	258
4670	Direct I/O Interface	2,500	22	88	87	86
4680	I/O Cluster	8,000	65	265	249	238
4681	Additional MIOP	15,000	89	530	498	477
4682	I/O Adapter	10,000	65	371	349	329
4691	KSR 35 Keyboard Printer	3,300	16	125	114	91
MASS STORAGE						
3201	Rotating Storage Controller for up to eight 3203 or 3204 RAD Storage Units or 3231, 3232, or 3233 Cartridge Disk Drives in any combination	6,000	54	212	201	191
3203	RAD Storage Unit; 1.31 MB, 755,200 bytes/sec.	17,000	130	622	583	550
3204	RAD Storage Unit; 2.62 MB, 755,200 bytes/sec.	30,000	189	1,100	1,034	979
3211	Rotating Storage Controller (for up to eight 3214 RAD Storage Units or 3242 or 3243 Cartridge Disk Drives in any combination)	8,000	70	212	201	191
3214	RAD Storage Unit; 2.4 MB, 755,200 bytes/sec.	32,000	200	880	825	787
3215	Two 2.88 MB RAD Storage Units; 5.76 MB, 755,200 bytes/sec	42,000	297	1,155	1,089	1,023
3231	Cartridge Disk Drive; 2.4 MB, 246,000 bytes/sec.	5,500	54	204	191	187
3232	Cartridge Disk Drive; 4.9 MB, 246,000 bytes/sec.	9,000	81	330	310	304
3233	Cartridge Disk Drive; 9.8 MB, 246,000 bytes/sec.	16,000	140	544	512	501
3242	Cartridge Disk Drive; 5.7 MB, 286,000 bytes/sec.	9,000	81	330	310	304
3243	Cartridge Disk Drive; 11.4 MB, 286,000 bytes/sec.	16,000	140	544	512	501
3246	Disk Cartridge	250	NC	NC	NC	NC
1049	Dual Access for 3201/3211 Rotating Storage Controllers	1,000	11	30	29	25
3275	Rotating Memory Processor (RMP) and two 100 MB Disk Driver	89,500	416	2,316	2,051	1,940
3276	RMP and seven 100 MB Disk Drives	181,000	1,026	4,622	4,346	4,028
3277	100 MB Disk Drive	22,500	167	710	589	561
3279	Disk Cartridge	800	NC	55	55	55
1051	Second RMP for Dual Access	45,000	194	1,193	1,118	1,060
1052	Dual Access for Disk Drive	4,380	22	121	110	94
7201	Rapid Access Data (RAD) Controller (for up to eight 7202, 7203, or 7204 RAD Storage Units in any combination)	8,480	39	212	199	189
7202	RAD Storage Unit; 0.75 MB, 188,000 bytes/sec.	14,300	103	358	336	319
7203	RAD Storage Unit; 1.5 MB, 188,000 bytes/sec.	26,400	137	660	620	587
7204	RAD Storage Unit; 3.0 MB, 188,000 bytes/sec.	38,500	200	963	905	851
7240	Disk Controller (connected to any I/O Channel for up to 8 spindles in 7242 and/or 7246 Disk Storage Units)	21,200	112	530	498	472
7242	Disk Storage Unit; Removable, Dual Spindle, 49.15 MB	27,500	303	880	827	783
7244	Disk Pack for 7242 or 7246 Disk Storage Units; 24.58 MB	660	NC	34	34	34
7246	Disk Storage Unit; Removable, Single Spindle, 24.58 MB	16,500	229	495	465	440
7247	Device Pooling Feature, Single Spindle (for 7246 to provide dual access by two 7240's)	5,500	45	137	130	122
7250	Controller for 7251/7251	8,480	38	212	199	189
7251	Cartridge drive, 2.3 MB	6,050	54	154	138	121
7252	Cartridge disc, 4.6 MB	9,900	81	248	220	198
7254	Cartridge disc pack	220	—	—	—	—
MAGNETIC TAPE INPUT/OUTPUT						
3322	Magnetic Tape Controller and one Tape Unit; 36 KB	13,690	119	696	481	453
3325	Add-on Tape Unit; 36 KB	8,690	97	420	383	350
3332	Magnetic Tape Controller and one Tape Unit; 36/72 KB	33,470	157	825	775	737
3335	Add-on Tape Unit; 36/72 KB	14,690	97	431	407	389
1045	Expansion Adapter	1,500	7	53	50	48
1046	ASCII Translation Option	1,000	6	27	21	16
3340	Magnetic Tape Controller; 75/125 ips	24,000	103	598	560	527
3345	Tape Unit; 800/1600 bpi, 60/120 KB	17,641	108	517	486	458
3347	Tape Unit; 800/1600 bpi, 100/200 KB	23,622	124	672	631	594
1047	Second Controller for Dual Access	7,270	32	201	191	180
7315	Magnetic Tape Controller and one Tape Unit	16,960	216	636	583	530
7316	Add-on Tape Drive; 60 KB	13,200	194	495	464	440
7322	Tape Unit; 60 KB	13,200	194	495	464	440
7330	Magnetic Tape Controller; 1600 bpi	30,104	123	753	707	670

* Rental prices include monthly maintenance charges.

Xerox 530, 550, & 560

		<u>Purchase Price</u>	<u>Monthly Maint.</u>	<u>Rental (1-year lease)*</u>	<u>Rental (4-year lease)*</u>	<u>Rental (6-year lease)*</u>
MAGNETIC TAPE INPUT/OUTPUT (Continued)						
1038	Magnetic Tape Controller; 800 bpi option for 7330	4,240	28	106	99	94
1039	Extended Width Interface for 1600 bpi Controller	2,750	17	69	66	62
7332	Tape Unit; 1600 bpi, 120 KB	20,350	172	479	450	426
7333	Tape Unit; 1600 bpi, 240 KB	28,435	212	671	630	597
7361	Magnetic Tape Controller; 556 bpi	6,360	45	159	149	142
7362	Tape Unit; 19.7 KB	20,900	144	523	492	465
7365	BCD Option	2,200	NC	55	52	51
7371	7-Channel Tape System Controller	23,320	112	583	548	519
7372	7-Channel Tape Unit; 200/556/800 bpi, 15/41.7/60 KB	29,700	212	743	698	661
7374	Binary Packing Option	3,520	NC	88	84	79
OTHER INPUT/OUTPUT UNITS						
7121	Card Reader (including control); 200 cpm	7,950	59	233	219	208
7122	Card Reader (including control); 400 cpm	12,720	137	424	399	377
7140	Card Reader (including control); 1500 cpm	25,440	206	636	598	566
7160	Card Punch (including control); 300 cpm	33,920	286	848	797	755
7165	Card Punch (including control); 100 cpm	20,776	151	519	489	463
3451	Buffered Line Printer; 350 lpm	22,000	250	450	420	400
3461	Buffered Line Printer; 300 lpm	17,000	162	514	488	424
3463	Buffered Line Printer; 700 lpm	33,500	243	933	877	830
3464	Buffered Line Printer; 500 lpm	36,500	265	1,018	956	906
3465	Buffered Line Printer; 1250 lpm	52,000	297	1,452	1,362	1,243
3466	Buffered Line Printer; 925 lpm	55,000	329	1,537	1,442	1,367
1050	Second Printer Control for Access Switching	2,500	22	88	85	82
7060	Paper Tape Reader (7062), Punch (7063), Spooler (7064), w/Controller & Rack (7061)	11,660	97	318	299	283
7061	Paper Tape Equipment Cabinet & Controller	7,420	34	186	175	165
7062	Paper Tape Reader; 300 cps	2,200	17	55	52	51
7063	Paper Tape Punch; 120 cps	2,750	29	69	66	63
7064	Paper Tape Spooler	1,650	12	42	40	37
7530	Incremental Graph Plotter (11-inch)	13,780	86	345	324	307
7531	Incremental Graph Plotter (30-inch)	23,320	114	583	548	519
7534	Graph Plotter Controller (For 7530 or 7531)	3,180	27	101	95	90
7580	Graphic Display Unit (including control)	45,000	300	1,124	1,058	1,002
COMMUNICATIONS CONTROLS						
3625	Communication Processor; includes 8K memory and CPU interfaces	36,600	179	1,200	1,125	1,075
3630	Communications Processor Expansion Feature	7,670	30	240	225	215
3635	Send/Receive Unit	5,900	30	215	198	175
3636	4K Data Memory Increment	1,650	9	59	52	46
3650	Dual Multimode Line Interface	1,200	7	43	38	30
7601A-E	Data Set Controller	7,420	39	186	175	165
7602	Full Duplex Feature (for 7601)	880	0	22	21	20
7603	Automatic Dialing Feature (for 7601)	880	0	22	21	20
7604	Local Batch Terminal Controller	8,904	39	223	210	198
7605A-E	Procedure-Oriented Data Set Controller	10,070	54	252	237	225
7611	Character-Oriented Communications Subsystem (for up to 64 simultaneous remote devices)	11,130	51	279	263	249
7612	Timing Module for 7615/7616 (a maximum of 5 may be connected to a 7611)	275	0	7	7	7
7613	Line Interface Unit (a maximum of 7 may be connected to a 7611 for up to 64 lines)	1,100	0	28	26	25
7615A-D	Formatted Send Module (one per 7611 line)	275	3	7	7	7
7616A-D	Formatted Receive Module (one per 7611 line)	275	3	7	7	7
7623	DC Power Supply (for 7611)	1,100	6	28	26	25
7618	Automatic Dialing Unit (controls 1 Bell System 800 Series Automatic Call Unit)	6,050	45	152	143	135
7619	Additional Dialing Position (up to 15 may be added to a 7618 for a total of 16 dialers)	550	0	14	14	13
7630	Communications Controller Plus 8 Lines	14,840	51	371	349	331
7631	8-Line Expansion Unit	8,380	33	160	151	143

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Xerox 530, 550, & 560

		<u>Purchase Price</u>	<u>Monthly Maint.</u>	<u>Rental (1-year lease)*</u>	<u>Rental (4-year lease)*</u>	<u>Rental (6-year lease)*</u>
COMMUNICATIONS CONTROLS (Continued)						
7650	Channel Interface Unit for inter-processor data transmission	8,250	56	207	195	185
7670	Remote Batch Terminal; includes control unit, operator's console, 250-lpm bar printer, 200-cpm card reader, and 75-to-200-cpm card punch	36,000	180	900	846	801

* Rental prices include monthly maintenance charges.

SOFTWARE PRICES

<u>Program Product</u>	<u>Monthly Use Fee</u>	<u>Prepaid Use Fee</u>
SL-1	200	10,000
FMPS	Not avail.	15,000
GAMMA III	Not avail.	7,500
GPDS	72	3,600
CIRC-DC	78	3,900
CIRC-AC	24	1,200
CIRC-TR	59	2,950
ACES (Administrative and Classroom Education System):		
Control Program	30	1,500
Financial Accounting	17	850
Payroll and Personnel	33	1,650
Stores Inventory	17	850
Accounts Payable	33	1,650
Student Work Continuation Program	50	2,500
Attendance Accounting	16	800
Student Scheduling	16	800
Mark Reporting, Education Planning, and Guidance Reporting	26	1,300
Test Reporting	32	1,600