

Data General Commercial Systems Family

► **LANGUAGES:** *Interactive Cobol* is currently supported on the CS systems, and implements the Level 1 ANSI Cobol-1974 Nucleus, Table Handling, Sequential I/O, Relative I/O, Indexed Sequential (ISAM) I/O, and Library modules, and includes several Level 2 modules. It provides for complex conditions (AND, OR, NOT, and parentheses) and sign conditions, and supports the standard 96-character ASCII set and floating point data formats. Nested IF and PERFORM UNTIL statements are provided for structured programming.

A Screen Section is included in the Data Division for entry and inquiry/response formats. Screen interaction is allowed through the ACCEPT and DISPLAY verbs.

Interactive Cobol supports sequential, relative, and indexed sequential (ISAM) access methods. ISAM allows up to five search keys. ISAM keys can be up to 100 bytes long, and records up to 4K bytes in length are allowed. Record and file lockout are provided for multi-user applications. The Printed Access Scheduling System (PASS) allows the operator to determine the printing sequence of print files.

Fortran IV includes all the features of standard ANSI Fortran. Extensions beyond the standard include re-entrant programs, double-precision and mixed-mode arithmetic, relational and logical operators, extended array capabilities, abnormal returns and additional I/O capabilities. Fortran IV runs under both operating systems and requires a minimum of 32K bytes of memory, and 256K bytes of storage. Full program chaining and overlay operations are permitted.

Fortran V is a superset of Data General's Fortran IV, ANSI Fortran, IBM Fortran IV (H extended) and Univac Fortran V. Special compiler features include local and global code optimization, comprehensive error checking and diagnostics and re-entrant code. Fortran V requires a minimum of 64K bytes of memory, hardware multiply/divide, the floating point processor, 1M byte of disk storage and a console terminal.

Business Basic developed as a spin-off of the still-viable RDOS Extended Basic and can be run under RDOS. Extensions to Basic for business applications in multiple-terminal environments include a multiple-keyed indexed sequential file access method, dynamic record allocation, 6-character variable names and commercial string functions. Business Basic users double-precision integer arithmetic eliminating the rounding problem of floating-point arithmetic.

Business Basic requires a minimum of 64K bytes of memory, a real-time clock and 10M bytes of disk storage. The language is also offered to users of the AOS operating system and features multiple-keyed indexed sequential file access, dynamic record allocation, screen management, common area, direct block I/O and IF-THEN-ELSE logic.

Macro Assembler adds extensive macro capabilities and will normally be used by assembly-level programmers.

COMMUNICATIONS: *Xodiac Network Management System:* Provides network management for systems operating under AOS. It enables users to transparently:

- Access remote terminals as virtual consoles,
- Access remote systems devices and AOS files,
- Transfer files between AOS systems, and
- Communicate with and control processes on remote systems.

It transmits either directly through communications links or inter-computer links, or indirectly through public packet-switched networks on the X.25 packet switching protocol.

Components of the Xodiac system include: AOS X.25, the connection protocol; AOS RMA, the resource management agent; AOS VTA, the virtual terminal agent; AOS NET-GEN, the network generation program; AOS FTA, the file transfer agent; AOS RIA, the remote INFOS agent, and AOS RDA, the remote data base agent. The modular architecture provides a transparent interface for remote AOS-based systems.

Data General describes Xodiac as consisting of four layers. The physical link layer includes the hardware used for intersystem links. The link control layer, made up of AOS device drivers, is the software interface to the physical link level. The connection layer, the third, segments messages into network packets, establishes and maintains connections (called virtual circuits) between local and remote hosts, and multiplexes packets across the network connection. The connection layer is implemented as logical extensions to AOS and a separate AOS X.25 manager process. The fourth layer (functional) performs the required functions between two AOS Xodiac systems to access resources or facilities such as files, devices and AOS processes.

Xodiac users can interact through either the functional or connection layers. The functional layer allows an authorized operator to manipulate system-controller resources on another system. The connection layer allows for less structured communication between two processes.

REMOTE JOB ENTRY CONTROL PROGRAM (RJE80): Allows for remote job entry and communications between CS Series 100-B or 200 processors and IBM 360/370 systems, or between CS Series 100-B or 200 processors and other Data General computers. Support is provided for four types of RJE systems:

- Point-to-point communications between a CS system emulating an IBM 2780/3780 and an IBM 360/370 host;
- Point-to-point communications between two Data General systems running RJE80;
- Multi-drop Data General systems emulating IBM 3780 slave terminals, communicating with an IBM 360/370 host;
- Multi-drop Data General Systems emulating IBM 3780 slave terminals, communicating with a Nova or Eclipse master system also running RJE80.

Features of RJE80 include horizontal and vertical printer format control; error detection on transmission and reception; and disk, tape, or card transmission to remote systems. Transmission between host systems may be to unattended RJE80 systems, and because of device dependent I/O capabilities, any combination of I/O devices can be utilized without additional software.

IBM HASP-II WORKSTATION EMULATOR: Lets a CS Series 100-B or CS Series 200 emulate an IBM HASP workstation (IBM 360-20), working in conjunction with an IBM 360/370. Other features, of the HASP II workstation emulator program, collect and block data records for transmissions to remote computer systems or terminal systems. Efficiency of data transmission is achieved by interleaving and data compression. Multileaving capability can include up to seven input and seven output data streams. The emulator supports both disk and tape storage. Hardware requirements include a card reader or magnetic tape drive, line printer, and a real-time clock.

X.25 SOFTWARE PACKAGE: Allows host computers interface to packet-switching networks, supporting point-to-point communications between the CS Series 100-B or 200 and other Data General computers. The X.25 package is supported under both the RDOS and AOS operating systems. ►

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► **Communications Access Manager (CAM):** Supports all types of standard communications, with or without a DCU Data Control Unit. CAM is modular and can be generated by the Communications System Generation Program (COMGEN) to include only those program segments required for each individual system. It operates under either AOS or RDOS, and since it uses the operating system's run-time-desired interrupt service, it is brought into main memory from disk only as needed. This frees large segments of memory in a real-time communications system for other processing tasks. Portions of CAM can also reside in the memory of a DCU, if it is present, further reducing main memory overhead.

CAM software supports both standard and special user-defined protocols, including Bisync (BSC) and an asynchronous terminal line procedure. Synchronous and asynchronous protocols can be intermixed. Multi-drop lines are supported through polling and selection sequences. Modem control support for auto answer/auto disconnect is a standard feature.

CAM operates on any Eclipse processor with 32K bytes of main memory, a real-time clock, and a communications chassis.

UTILITIES: The utility library for the CS systems includes standard file sort/merge, copy, and reorganization programs as well as an RJE80 communications subsystem and a HASP workstation emulator. Program development utilities include a text editor and an interactive debugger. Special features of the text editor include text insertion from other files, global search and replace, and relocation of multiple sections. The interactive debugger allows programmers to start, stop, or suspend program execution, to set traps (break points), and to show the results of the current process on the CRT. While execution is suspended, the programmer can examine and change the contents of storage, using Cobol-like verbs, and then rerun the program from the previous breakpoint. The following standard utilities are also included: Sort/Merge, Copy, Filestats, Analyze, Reorg, Delete, Append, Rename, Xfer, and Print. Additional utilities include Busitext for word processing, Busipen for graphics, and Busigen for report and program generation.

The *Busigen* program generator is an interactive program which generates programs executable in Business Basic. Busigen runs under DOS, RDOS, AOS, and AOS/VS, however, within the commercial family only the CS Series 100 and 200 support Busigen. Knowledge of Business Basic is not required to use the program generator. Instead of writing code, users respond to a series of menu screen selections; Busigen thus generates programs based on the user's responses.

Busigen software also generates report writer programs to access a database file. The user creates a report format by stepping through a series of prompts which request the name of the data file the report will access, the report title, and the data fields to be used. In addition, conditional reporting and calculation routines can be incorporated into the report.

The following application programs can be developed, supported and documented with Busigen: data entry, record update, record delete, inquiry, file maintenance, and report writer. All programs are generated in a standard format and may include alpha checks, numeric checks, and range checks.

Busipen graphics software can create a variety of standardized pie charts, bar charts, and line graphs on the Dasher G300 display terminal. The optional (model 6156) graphics

printer can provide hard copy reproductions of screen images from the Dasher G300 display.

Busipen software is written in Business Basic and runs under the DOS, RDOS, AOS, and AOS/VS operating systems. Users can enter interactively such specifications as titles, legends, and filters, as well as integrating pie, bar, and line chart routines—available as swappable programs—into their applications. Standardized chart formats can be stored, allowing the user to compare different data sets. Of the Commercial systems, only the CS Series 100-B and 200 support Busipen.

OFFICE AUTOMATION: The *Comprehensive Electronic Office System (CEO)* is available with any CS Series 200 system running AOS. CEO consists of a word processing package and CEO Information Management. CEO Word Processing features all standard word processing functions including global search and replace, user-defined keys and commands, calculator functions, annotation facility and an optional Spell facility based on American Heritage and user-defined dictionaries. CEO Information Management integrates electronic mail, electronic filing and administrative support functions such as phone message handling, personal calendar, and meeting scheduling. Integration of CEO to data processing is accomplished through the Xodiac communications system, IBM-compatible SNA, and HASP.

Busitext text processing software is available for all CS models and for any Data General system capable of supporting Business Basic. Busitext moves, deletes, or copies specified blocks of text; finds or replaces words or text strings; provides flexible cursor positioning, uses the same display terminal for both data and text processing; and allows integration of Busitext software and Business Basic data processing files. Operating system support includes MP/OS, DOS, RDOS, AOS, and AOS/VS.

APPLICATIONS: Applications Systems Marketing, a newly-formed group within Data General's Information Systems Division, has been established to recruit qualified Independent Software Vendors (ISVs) to develop and market application software for Data General's Eclipse information systems within the computational, decision support, and business application areas. A list of qualified ISVs is available from Data General.

PRICING

POLICY: Data General offers the CS Series on a purchase-only basis with various types of hardware maintenance available. Standard OEM discounts are available from Data General on request.

SUPPORT: The *On-Call Service* contract is one of the most comprehensive and flexible in the industry. Coverage can be selected by the customer for any consecutive 9-hour period between 8 a.m. and 6 p.m., and extended coverage is available up to 24 hours a day, 7 days a week. This agreement allows for unlimited remedial maintenance and includes all parts, labor and normal travel costs. *Per-Call Service* offers an alternative to On-Call Service for situations where response is not so critical and monthly maintenance billing is not convenient. All service requests are billed separately for parts, labor and travel.

Using *Depot Service*, a faulty printed circuit board may be mailed to one of three Depot Centers for product repair. Depot Centers are located in Colorado Springs, Colorado; Milford, Massachusetts; and Mississauga (Toronto), Ontario. Either flat rate or time and material rate charges are available. ►

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► The *Hardware Subscription Service* provides automatic updates, additions, and notification of new documentation on all Data General hardware for a fixed yearly fee. It is available to any owner of Data General equipment including owners who have purchased their equipment through another vendor. Initial subscriptions include updates for one year. Discounts are available for multiple subscriptions.

SOFTWARE SERVICE/SUPPORT: Data General offers separately-priced software support packages (called Software Product Service Agreements) that include toll-free telephone support, remote access and monitoring, software and documentation updates, and optional quarterly on-site preventive maintenance and on-site remedial support (North America only). A telephone call to the Software Support Center is the first point of contact for customer software support.

Three levels of SPSA are available. Level 1 includes all the services listed above; Level 2 includes all services except quarterly preventive maintenance; and, Level 3 includes all services except the two on-site services. SPSAs are component-priced. Prices range from \$20 to \$370 per month, depending on the software product.

Local software consulting services are also available on an hourly basis for specialized technical consulting. The Software Subscription Service (SSS), also available separately from SPSAs, provides software and documentation updates and revisions. A documentation-only SSS provides monthly newsletters and documentation, but no media.

TRAINING: Data General provides training for customers in the U.S. at Westboro, Massachusetts; El Segundo, California; Chicago, Illinois; Atlanta, Georgia; Dallas, Texas; and McLean, Virginia. Training centers are also located at Victoria, Australia; Greenford, Middlesex, England; Paris, France; Frankfurt/M., West Germany; Madrid, Spain; and Stockholm, Sweden.

On-site software training is available when necessary. Costs are approximately \$1200 per day for instructional charges including the instructor's daily expenses, instructor's travel expenses, and \$250 per weekend for subsistence when incurred. This price includes all student documentation.

SAMPLE CONFIGURATIONS: Typical configurations for various CS Series systems are listed below. All necessary interfaces may not be included in the configurations.

CS Series 200-A base system:

microEclipse processor with 256K memory, 5-slot chassis and 29" cabinet,	\$13,500
15MB fixed disk with 1.26MB diskette,	8,000
3 Dasher D210 terminals and keyboards,	2,985
230 lpm band printer	9,615
TOTAL	34,100

CS Series 200-B base system:

Eclipse processor with 1MB memory, 16-slot chassis, and 60" cabinet,	\$26,070
73MB fixed disk,	18,000
6 Dasher D410 terminals and keyboards,	9,810
1600 bpi tape drive, and	16,500
300 lpm line printer	8,900
TOTAL	79,280

CS Series 200-C packaged system:

Eclipse processor with 1MB memory, 60" cabinet, 16-slot chassis, 147MB fixed disk and 1600 bpi magnetic tape drive,	\$67,033
5 Dasher D410 terminals & keyboards,	8,175
5 Dasher D460 terminals & keyboards,	8,925
436 lpm band printer, and	13,300
55 cps letter quality printer	5,200
TOTAL	102,633 ►

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EQUIPMENT PRICES

		<u>Purchase Price</u>	<u>On-Call Service</u>
BASE SYSTEMS*			
CS Series 100-B			
All CS Series 100 Base Systems include a microEclipse processor, an 8-slot chassis, and partial battery backup.			
E9490	Includes 128K bytes of memory and 29-inch cabinet	\$9,450	\$88
E9491	Includes 128K bytes of memory and 60-inch cabinet	10,720	88
E9492	Includes 256K bytes of memory and 29-inch cabinet	9,950	89
E9493	Includes 256K bytes of memory and 29-inch cabinet	11,220	89
E9494	Includes 512K bytes of memory and 29-inch cabinet	10,950	112
E9495	Includes 512K bytes of memory and 60-inch cabinet	12,220	112
E9496	Includes 1M byte of memory and 60-inch cabinet	14,220	127
E9497	Includes 512K bytes of memory and 29-inch cabinet	10,950	112
E9498	Includes 1M byte of memory and 60-inch cabinet	14,220	160

Note: Models E9490-E9496 include RDOS; Models E9497 and E9498 include AOS.

CS Series 200

The following CS Series 200-A Base Systems include a microEclipse processor.

E9920	Includes 256K bytes of memory, a 5-slot chassis, and 29-inch cabinet	13,550	120
E9921	Includes 256K bytes of memory, 5-slot chassis and 60-inch cabinet	14,820	120
E9922	Includes 512K bytes of memory, a 5-slot chassis, and 29-inch cabinet	17,550	160
E9923	Includes 512K bytes of memory, 5-slot chassis and 60-inch cabinet	18,820	160
E9924	Includes 256K bytes of memory, a 16-slot chassis, a 60-inch cabinet, and partial battery backup	17,320	160
E9925	Includes 512K bytes of memory, 16-slot chassis, a 60-inch cabinet and partial battery backup	21,320	200
E9926	Includes 512K bytes of memory, a 5-slot chassis, and a 29-inch cabinet	18,820	160
E9927	Includes 512K bytes of memory, 16-slot chassis, partial battery backup and 60-inch cabinet	21,320	200

The following CS Series 200-B Base Systems include an Eclipse processor, 16-slot chassis, 60-inch cabinet, and partial battery backup.

E9940	Includes 256K bytes of memory	22,070	170
E90158	Includes 512K bytes of memory	24,070	188
E90160	Includes 1M byte of memory	26,070	230
E90161	Includes 512K bytes of memory and PIT (programmable interval timer)	25,020	201
E90163	Includes 1M byte of memory and PIT	29,020	221
E9947	Includes 1.5M bytes of memory and PIT	33,020	261
E9948	Includes 2M bytes of memory and PIT	37,020	301

The following CS Series 200-C Base Systems include an Eclipse processor, partial battery backup, 16-slot chassis and 60-inch cabinet.

E90114	Includes 512K bytes of memory	34,140	270
E90115	Includes 1M bytes of memory	38,140	290
E90117	Includes 512K bytes of memory	34,140	270
E90118	Includes 1M bytes of memory	38,140	290
E90119	Includes 1.5M bytes of memory	42,140	320

Note: Models E9920-E9925, E9940, E90160, E90114 & E90115 include RDOS; Models E9926, E9927, E90161, E90163, E90117 and E90110 include AOS.

*All base CS Series systems require one master console and disk drive.

PACKAGED SYSTEMS

CS Series 100-B

All CS Series 100 packaged Systems include a microEclipse processor, 8-slot chassis, and partial battery backup.

E90177	Includes 256K bytes of memory, 29-inch cabinet, and a 15-megabyte disk drive with a 1.26-megabyte diskette	17,550	186
E90178	Includes 256K bytes of memory, 60-inch cabinet, a 15-megabyte disk drive, 1600 bpi magnetic tape drive	20,000	170
E90179	Includes 256K bytes of memory, 60-inch cabinet, a 25-megabyte disk, 15-megabyte cartridge tape drive	25,630	183
E90180	Includes 256K bytes of memory, 60-inch cabinet, a 25-megabyte disk drive with a 1600 bpi tape drive	26,730	194
E90181	Includes 256K bytes of memory, 60-inch cabinet, 50-megabyte disk drive, Micro BMC, 15-megabyte cartridge tape drive	28,315	254
E90182	Includes 256K bytes of memory, 60-inch cabinet, 50-megabyte disk drive, Micro BMC, 1600 bpi magnetic tape drive	29,415	265

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		<u>Purchase Price</u>	<u>On-Call Service</u>
E90183	Includes 512K bytes of memory, 60-inch cabinet, 50-megabyte disk drive, Micro BMC, 15-megabyte cartridge tape drive	29,220	287
E90184	Includes 512K bytes of memory, 60-inch cabinet, 50-megabyte disk drive, Micro BMC, 1600 bpi magnetic tape drive	30,320	298

Note: Models E90175-E91082 include RDOS; Models E90183 and E90184 include AOS.

CS Series 200

The following CS Series 200-A packaged Systems include a microEclipse processor, 256K bytes of memory, a 16-slot chassis and 60-inch cabinet, partial battery backup and RDOS.

E90186	Includes a 25M byte fixed disk and 15M byte cartridge tape drive	31,370	256
E90187	Includes a 25M byte fixed disk and 1600 bpi magnetic tape drive	32,670	267
E90188	Includes a 50M byte fixed disk and 15M byte cartridge tape drive	33,320	285
E90189	Includes 50M byte fixed disk and 1600 bpi magnetic tape drive	34,620	296
E90190	Includes 73M byte fixed disk and 1600 bpi magnetic tape drive	42,140	301
E90191	Includes 147M byte fixed disk and 1600 bpi magnetic tape drive	48,120	331

The following CS Series 200-B packaged Systems include an Eclipse processor, 16-slot chassis and 60-inch cabinet, and partial battery backup.

E90192	Includes 256K bytes of memory, a 25-megabyte fixed disk drive and 15M byte cartridge tape drive	36,480	266
E90193	Includes 256K bytes of memory, 25M byte fixed disk drive and 1600 bpi magnetic tape drive	37,780	277
E90194	Includes 256K bytes of memory, 50-megabyte disk drive and 15M byte cartridge tape drive	38,070	295
E90195	Includes 256K bytes of memory, 50-megabyte disk drive and 1600 bpi magnetic tape drive	39,370	306
E90196	Includes 256K bytes of memory, 73-megabyte disk drive and 1600 bpi magnetic tape drive	46,870	311
E90197	Includes 256K bytes of memory, 147-megabyte disk drive and 1600 bpi magnetic tape drive	52,870	341
E90198	Includes 512K bytes of memory, 50-megabyte disk drive and 15M byte cartridge tape drive	40,070	313
E90199	Includes 512K bytes of memory, 50M byte disk drive and 1600 bpi magnetic tape drive	41,370	324
E90200	Includes 512K bytes of memory, 73M byte disk drive and 1600 bpi magnetic tape drive	48,870	329
E90201	Includes 512K bytes of memory, 147M byte disk drive and 1600 bpi magnetic tape drive	54,870	359
E90202	Includes 512K bytes of memory, 50M byte disk drive, PIT and 1600 bpi magnetic tape drive	42,320	337
E90203	Includes 512K bytes of memory, 73M byte disk drive, PIT and 1600 bpi magnetic tape drive	49,820	342
E90204	Includes 512K bytes of memory, 147M byte disk drive, PIT and 1600 bpi magnetic tape drive	55,820	372
E90205	Includes 1M bytes of memory, 147M byte disk drive, PIT and 1600 bpi magnetic tape drive	60,080	392

The following CS Series 200-C packaged systems include an Eclipse processor, 16-slot chassis and 60-inch cabinet, and partial battery backup.

E90206	Includes 512K bytes of memory, 50M byte disk drive and 1600 bpi magnetic tape drive	51,440	406
E90207	Includes 512K bytes of memory, 73M byte disk drive and 1600 bpi magnetic tape drive	58,940	411
E90208	Includes 1M byte of memory, 147M byte disk drive and 1600 bpi magnetic tape drive	68,940	461
E90209	Includes 512K bytes of memory, 73M byte disk drive and 1600 bpi magnetic tape drive	58,940	411
E90210	Includes 1M byte of memory, 147M byte disk drive and 1600 bpi magnetic tape drive	67,033	461

Note: Models E90192-E90201 & E90206-E90208 include RDOS; Models E90202-E90205 and E90209-E90210 include AOS. All CS Series systems include the Right-to-Use Interactive Cobol or Business Basic.

MASS STORAGE

6220/-D	5-megabyte fixed-disk drive with a controller; the 6220-D includes a 1.26-megabyte diskette drive, for the CS Series 100.	4,175/6,175	34/71
6220-TT	Table-top version of the 6220	4,175	34
6225/-D	5-megabyte fixed-disk drive with controller; the 6225-D includes a 1.26-megabyte diskette drive, for the CS Series 200 only	4,500/6,600	42/79
6222/-D	15-megabyte fixed-disk drive with controller; the 6222-D includes a 1.26-megabyte diskette drive, for the CS Series 100	5,600/7,600	41/78
6222-TT	Table-top version of the 6222	5,550	41
6227/-D	15-megabyte fixed-disk drive with controller; the 6227-D includes a 1.26-megabyte diskette drive, for the CS Series 200	5,900/8,000	49/86
6102	12.5 megabyte non-removable disk drive	6,655	50
6105	25 megabyte non-removable disk drive	8,910	54
6096-A	1.26-megabyte diskette drive with a controller	4,400	55
6096-B	Dual 1.26-megabyte diskette drives (offering a total of 2.52 megabytes of storage) with a controller	5,940	83
6096-C	1.26-megabyte add-on diskette to increase storage on 12.5- or 25-megabyte drives (6102 and 6105)	4,180	39
6097-A	1.26-megabyte diskette drive with a controller for 12.5- or 25-megabyte disk drives, chassis, and a power supply; for the CS Series 200 only	4,620	66

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6097-B	Dual 1.26-megabyte disk drives (offering a total of 2.52 megabytes of storage) with a controller for 12.5- or 25-megabyte disk drives, chassis, and a power supply; for the CS Series 200 only	6,160	95
6122	277-megabyte disk drive with a high-speed channel controller, an adapter for up to four drives, cables, and a disk pack; for the CS Series 200 only	43,350	252
6122-A	Same as 6122, except allows second, third, and fourth drives to be added	37,850	189
6160	73-megabyte high performance, non-removable disk drive, including controller and cables; for the CS Series 200 only	18,000	90
6160-A	73-megabyte add-on disk drive for the 6160 or 6161	14,500	78
6161	147-megabyte high performance non-removable disk drive, including controller and cables; for the CS Series 200 only	24,000	120
6161-A	147-megabyte add-on disk drive for the 6160 or 6161	20,500	108
MAGNETIC TAPE EQUIPMENT			
6026	Transport and controller; industry-compatible, 9-track, NRZI, 10.5-inch reels, 800/1600 bpi, 8 drives per controller	16,500	133
6123/6125	Streaming tape drive; industry-compatible, 8.5-inch reels, 1600 bpi, streams at 30 ips off-line	6,600/6,800	51
PRINTERS			
4422-A	Dot matrix; 150 cps, 136 columns, 96-character set, upper and lower case, serial interface, multilingual type fonts are printer-resident and switch-selectable; for the CS Series 100	2,290	45
6041	Dot matrix; 60 cps, 132 columns, 96-character set, upper and lower case, serial interface, optional multilingual fonts; for the CS Series 100 and 200 only	2,450	30
6156	Dot matrix; 80 cps, 80 columns, 96-character set, upper and lower case, G300 interface, graphics slave printer, no multilingual type fonts; for the CS Series 100 and 200 only	1,600	32
6191	Dot matrix; 180 cps, 132 columns, 96-character set, upper and lower case, programmed I/O interface (PIO), optional multilingual type fonts; for the CS Series 200 only	4,450	56
6192	Same as 6191 except with data channel interface (DCH); for the CS Series 200 only	5,150	59
4354	Dot matrix; 340 cps, 132 columns, 96-character set, upper and lower case, serial interface, optional multilingual type fonts; for the CS Series 100 and 200	5,150	65
4353-P	Same as 4354 except with programmed input/output interface (PIO); for the CS Series 100 only	5,715	74
4355	Same as 4354 except with programmed input/output interface (PIO); for the CS Series 200 only	5,300	85
4356	Same as 4354 except with data channel interface (DCH); for the Series 200 only	5,600	97
4324-P	Band; 230 lpm, 132 columns, 96-character set, upper and lower case, programmed input/output interface (PIO), optional multilingual type fonts; for the CS Series 100 only	9,615	115
4323-P	Band; 200 lpm, 132 columns, 96-character set, upper case only, programmed input/output interface (PIO), optional multilingual type fonts; for the CS Series 100 only	9,415	115
4326	Band; 230 lpm, 132 columns, 96-character set, upper and lower case, programmed input/output interface (PIO), optional multilingual type fonts; for the CS Series 200 only	9,200	112
4328	Same as 4326 except with data channel interface (DCH); for the CS Series 200 only	9,200	117
4325	Band; 300 lpm, 132 columns, 64-character set, upper case only, programmed input/output interface (PIO), optional multilingual type fonts; for the CS Series 200 only	8,900	112
4327	Same as 4325 except with data channel interface (DCH); for the CS Series 200 only	8,900	117
4363	Band; 436 lpm, 132 columns, 96-character set, upper and lower case, data channel interface (DCH), optional multilingual type fonts; for the CS Series 200 only	13,300	160
4364	Band; 600 lpm, 132 columns, 64-character set, upper and lower case, data channel interface (DCH), optional multilingual type fonts; for the CS Series 200 only	12,900	160
4320/4322	Letter quality; 55 cps, 132 columns, 96-character set, upper and lower case, serial interface, optional multilingual type fonts; for the CS Series 100 and 200	5,200/6,900	68/105
TERMINALS			
6150	Dasher G300 graphics display; 640 x 240 picture element (pixel) matrix, does not include keyboard; for the CS Series 100 and 200	3,500	21
6151	Keyboard for 6150	400	4
6242	Dasher D210 Terminal Monitor	745	11
6243	Dasher D211 Terminal Monitor	945	13
6245	Keyboard for Models 6242 and 6243	250	2
6255	Dasher D410 Terminal Monitor	1,385	15
6256	Dasher D460 Terminal Monitor	1,535	17
6246	Keyboard for Models 6255 and 6256	250	2
COMMUNICATIONS			
4241/4242	ULM universal line multiplexer, for the CS Series 100 and 200	1,590	20
4243	ULM universal line multiplexer for the CS Series 100 and 200	3,070	33
4226-P	Single line synchronous subsystem with CRC, for the CS Series 100	715	12
4207-S	Asynchronous interface board, for the CS Series 100	285	7
4227-P	ALM-4 programmable asynchronous line multiplexer, for the CS Series 100 only	935	14
4254	DCU/200 Data Control unit, for the AOS-based CS Series 200 with the Xodiac character or bit synchronous communication line	4,480	48
4346	Programmable synchronous interface (CSI), for AOS-based CS Series 200s for the Xodiac character communication line	1,840	18

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4340	AMI-8 Asynchronous modem interface, for the CS Series 200 only	2,760	22
4342-PCA	ATI—16 Asynchronous terminal interface, for the CS Series 200 only	3,740	36
4348	BSI-1 Bit synchronous interface, for the CS Series 200 with the Xodiac bit synchronous communication	1,990	17
4078-P	Asynchronous single-line controller, for the CS Series 200	460	9
4463	Universal sync/async 4 line MUX for the Series 100 only	1050	5

LICENSED SOFTWARE

		<u>License Fees</u>	
		<u>Initial</u>	<u>Subsequent</u>
30140-01H, Q, W	MP/OS Busitext	1,900	250
3709-09H, Q, M	RDOS Business Basic	2,445	660
30112-09H, Q, M	RDOS Interactive Cobol	4,080	2,510
30142-01H, Q, M	RDOS Busitext	2,400	500
30137-01H, Q, M	RDOS Busigen	1,675	1,000
30132-01H, Q, M	RDOS Busipen	1,850	750
3888-09H, M, Q	AOS Business Basic	5,870	3,525
30113-09H, M, Q	AOS Interactive Cobol	4,975	2,510
30143-01H, M, Q	AOS Busitext	2,800	1,000
30138-01H, M, Q	AOS Busigen	3,085	1,000
30133-01H, M, Q	AOS Busipen	2,400	750
3626	Fortran IV	2,400	500
3627	Fortran V	3,880	2,180 ■