

IBM 4300 Series

Product Enhancement

On October 20, 1982, IBM announced the following enhancements to the 4300 Series: the addition of 4331 Model Group 1 features to the 4321, increased memory capacity and the addition of 4331 Model Group 2 features to the 4331 Model Group 11, two new 4341 processor models, a new model in the 3262 Line Printer series, and Release 2 of the Small Systems Executive/VSE (SSX/VSE) operating system.

In addition, IBM announced reductions in purchase prices and monthly maintenance charges for selected models. However, monthly rental/lease charges for some models were increased. Effective October 20, 1982, purchase prices were reduced as follows: from 20 to 34 percent on the 4321 and 4331-11 processors and features; from 8 to 18 percent on the 4341 processors and features; from 5 to 20 percent on the 3203 and 3262 printers; 35 percent on the 3310 disk drives; from 35 to 65 percent on the 3340/3344 disk drives and the 3830 disk controller; from 5 to 25 percent on the 3370 and 3375 disk drives; and from 23 to 30 percent on the 3410 and 3411 magnetic tape units. Effective November 1, 1982, monthly maintenance charges were reduced about 9 to 11 percent on the 4341 processors and features and about 10 to 20 percent on the 3310 and 3344 disk drives and the 3830 disk controller. Rental and lease charges will increase by 5 to 10 percent on the 3262 printers and by 12 percent on the 3370 and 3375 disk drives, effective February 1, 1983.

4321 ENHANCEMENTS: The 4321 was previously a preconfigured system for which no multiplexer channels or other options were available. IBM is now offering the 4321 with all of the optional features that were available for the 4331 Model Group 1, except the 1401/1440/1460 Compatibility feature. The 4321 now supports one byte multiplexer channel and one block multiplexer channel. The communications adapter has been enhanced to support up to eight BSC, SDLC, or start/stop communications lines. The DASD adapter has been enhanced to support 3340/3344 and 3370 disk drives in addition to 3310 disk drives. Moreover, the 4321 can now be field upgraded to the 4331 Model Group 2 only. The field upgrade to the 4331 Model Group 11 is no longer available. The 4321 with the enhanced features is scheduled for shipment on February 1, 1983.

4331 ENHANCEMENTS: The 4331 Model Group 11 is now available with up to four megabytes of main memory, twice the previous maximum. In addition, the Model Group 11 now supports a number of optional features that were previously available only on the 4331 Model Groups 1 and 2, including the 5424 Multi-Function Card Unit Adapter, Loop Adapters, and Direct Access Storage Compatibility feature. The communications adapter has been enhanced to support up to eight BSC, SDLC, or start/stop communications lines. The group of five additional communications lines (feature 1605) will be withdrawn from marketing and will not be shipped after January 31, 1983. First customer shipments of the 4331 Model Group 11 with these new features are scheduled for February 1, 1983.

4341 ENHANCEMENTS: IBM announced two new 4341 models: the entry-level 4341 Model Group 9 and the top-of-the-line 4341 Model Group 12. The 4341 Model Group 9 is available with one, two, or four megabytes of main memory. A 2048-byte buffer is standard. The Model Group 9 has an internal processor cycle time of 150 to 300 nanoseconds, the same as the 4341 Model Groups 10 and 1. The standard Model Group 9 system includes one byte multiplexer channel and two block multiplexer channels. Three additional block multiplexer channels are available as an option. The maximum aggregate data transfer rate is 11 megabytes per second in data streaming mode. The 4341 Model Group 9 can be field upgraded to a 4341 Model Group 10. The new model will be available in March 1983.

The 4341 Model Group 12 is available with 2, 4, 8, 12, or 16 megabytes of main memory. A 16,384-byte buffer is standard. The 4341 Model Group 12 has a processor cycle time of 115 to 230 nanoseconds, compared to 120 to 240 nanoseconds on the 4341 Model Groups 11 and 2. The Model Group 12 comes with one byte multiplexer channel and five block multiplexer channels. The maximum aggregate data transfer rate is 13 megabytes per second. The 4341 Model Groups 10, 1, 11, and 2 can be field upgraded to a Model Group 12. 

- ▷ IBM also announced the 4341 Problem Analysis feature, a no-charge microcode change designed to improve availability and serviceability. The Problem Analysis feature can be initiated by the local console operator if a failure occurs on a local or remote 4341 processor. Problem Analysis provides screen messages that lead the user through the steps required to resolve the problem. Service information can also be sent to IBM Field Engineering via the Remote Support Facility. Using the Remote Operator Console Facility, a central site can run a subset of Problem Analysis on remote 4341s.

3262 MODEL 5 PRINTER: The 3262 Model 5 Line Printer connects to a 4300 Series processor via a byte or block multiplexer channel. The Model 5 operates at 650 lines per minute with a 48-character print set. Like the 3262 Models 1 and 11, the 3262 Model 5 features 132 print positions, horizontal spacing of 10 characters per inch, and vertical spacing of 6 or 8 lines per inch. Available only on the Model 5, however, is a fine horizontal adjustment that allows the operator to horizontally position printed characters in predetermined print positions. The maximum amount of movement is the width of 1.5 print positions (3.8 millimeters or 0.150 inch). First customer shipments for the 3262 Model 5 are scheduled for the third quarter of 1983.

SSX/VSE RELEASE 2: SSX/VSE Release 2 includes all of the functions of Release 1 plus a number of enhancements, including additional functions, additional hardware support, and additional software support. Whereas SSX/VSE Release 1 supported only the 4321 and 4331 processors, Release 2 also supports 4341 systems with local terminals and 3310 or 3370 DASDs. Release 2 can also run as a guest operating system under VM/370 on 4300 systems with 3310 or 3370 DASDs. Enhanced functions include the option to define 16 megabytes of virtual storage and the option to increase the number of partitions to 12. SSX/VSE Release 2 supports the following additional hardware devices: the 3601/3602/4701 Finance Communications Systems, models of the 3278/3279 display stations with 2560- and 3440-character displays, 3211 printers, 8775 display stations via loop attachment, magnetic character readers, optical character readers, and 3370 DASDs. Additional software support includes support for the following program products: VS Fortran Release 2, RM Basic, Structured Query Language/Data System (SQL/DS), Network Communications Control Facility (NCCF), Network Problem Determination Application (NPDA) Version 2, Development Management System/Cross System Product (DMS/CSP), Entry Level Interactive Application System (ELIAS), and Screen Definition Facility/CICS. SSX/VSE Release 2 also supports up to 8 terminal controllers per SNA communications line. Release 1 supported only one terminal controller per line. SSX/VSE Release 2 will be available in February 1983, at which time Release 1 will be withdrawn from marketing. However, IBM will continue to support Release 1 until December 31, 1983. ▷

EQUIPMENT PRICES

		<u>Purchase</u>	<u>Monthly Maint.</u>	<u>Monthly Rental*</u>	<u>2-Year Lease*</u>
4321 J11	Processor with 1,048,576 bytes of main memory, one DASD Adapter, one 8809 Magnetic Tape Adapter, one Display/Printer Adapter, and one Communications Adapter	\$ 64,000	\$ 281.50	\$ 4,455	NA
4331 J11	Processor with 1,048,576 bytes of main memory, 4K-byte buffer, one byte and one block multiplexer channel, one DASD Adapter, one 8809 Magnetic Tape Adapter, one Display/Printer Adapter, and one Communications Adapter	82,420	310.50	4,790	4,083
4331 K11	Same as 4331 J11, but with 2,097,152 bytes of memory	92,420	336.50	5,340	4,563
4331 L11	Same as 4331 J11, but with 4,194,304 bytes of memory	112,420	388.50	6,440	5,523
4341 J9	Processor with 1,048,576 bytes of main memory, 2K-byte buffer, and one byte and two block multiplexer channels	81,000	388.00	6,345	5,400
4341 K9	Same as 4341 J9, but with 2,097,152 bytes of memory	91,000	414.00	6,903	5,875
4341 L9	Same as 4341 J9, but with 4,194,304 bytes of memory	111,000	466.00	8,019	6,825
4341 K12	Processor with 2,097,152 bytes of main memory, 16K-byte buffer, and one byte and five block multiplexer channels	360,000	900.00	17,625	15,000
4341 L12	Same as 4341 K12, but with 4,194,304 bytes of memory	380,000	952.00	18,741	15,950
4341 M12	Same as 4341 K12, but with 8,388,608 bytes of memory	420,000	1,055.00	20,973	17,850
4341 N12	Same as 4341 K12, but with 12,582,912 bytes of memory	460,000	1,160.00	23,205	19,750
4341 P12	Same as 4341 K12, but with 16,777,216 bytes of memory	500,000	1,265.00	25,437	21,650
	4321 J11 to 4331 J2 Upgrade (no change in memory capacity)	40,000	—	—	—
	4341 J9 to 4341 K10 Upgrade	69,000	—	—	—
	4341 K2 to 4341 K12 Upgrade (no change in memory capacity)	30,000	—	—	—
	Additional Memory, per megabyte	10,000	—	—	—
3262-5	Line Printer; 650 lpm	17,000	180.00	823	700

*Rental and lease prices include equipment maintenance.

SOFTWARE PRICES

<u>License</u>	<u>One-Time Charge</u>		<u>Monthly Charge</u>		<u>Monthly Licensed Program Support Charge</u>	<u>Monthly Multiple Licensed Program Support Charge</u>
	<u>Basic License</u>	<u>DSLO License</u>	<u>Basic License</u>	<u>DSLO License</u>		
5666-265 SSX/VSE Release 2	\$20,000	\$15,000	\$1,150	\$862	\$98	\$156□