

UNIVAC 1100 Series

New Product Announcement

1100/80, 1100/83, AND 1100/84: UNIVAC has announced three new computer systems and a new disk storage subsystem for its 1100/80 Series of large mainframe computers. The three new systems, designated the 1100/80, 1100/83, and 1100/84, augment the company's top-line series at both the low end and high end. The new systems are based on two new processors, one of which appears to have replaced the 3032-99 that previously formed the basis for the 1100/81 uniprocessor system and the 1100/82 dual-processor system. The 1100/80 family now consists of the newly announced 1100/80 entry-level system, which incorporates the new 3032-87 processor, and the 1100/81, 1100/82, 1100/83, and 1100/84 systems with one, two, three, and four CPU's, respectively, all based on the new 3032-91 processor.

The 3032-91 processor is a 50-nanosecond unit that is basically the same as the 3032-99 processor that was previously employed in the 1100/81 uniprocessor system, and is, in fact, priced identically to its predecessor. The new processor however, includes four word channels that were available as options on the earlier 3032-99 processor.

The entry-level 3032-87 is a limited-expandability version of the 3032-91 with only 4K 36-bit words of buffer storage, instead of the 8K words incorporated in the 3032-91 model. It provides only 70 percent of the performance obtained from the larger CPU. The 3032-87 processor is limited to 1024K words of backing store (main memory), whereas the 3032-91 can support up to 4096K words. The 3032-87 can, however, be upgraded to 3032-91 status by the addition of the F2335-99 Performance Enhancement option, which adds the additional 4K words of buffer storage and the capability to access up to 4096K words of backing store.

The new processors feature three significant improvements over the earlier versions. Main memory is built from faster 16K-bit memory chips, resulting in reduced physical size, reduced cost, and larger memory increments. The basic I/O subsystem includes four word channels in addition to the byte multiplexer channel and block multiplexer channel that were standard on the previous models. A new Scientific Accelerator Module, which increases the execution speed of floating-point and extended fixed-point arithmetic operations, can be attached to the new processors. In addition, an improved System Availability Unit controls the physical paths between the I/O subsystem and peripheral subsystems.

The 1100/80 entry-level system includes one processor, 4K words of buffer storage, 512K words of backing store, one byte multiplexer channel, one block multiplexer channel, four word channels, a maintenance unit, system console, and a motor/alternator. Purchase price is \$1,447,670, and monthly rental is \$34,185 on a 1-year lease. UNIVAC estimates that this smallest 1100/80 system will provide about 30 percent greater internal performance than IBM's recently announced Model 3031 at a price that is about 7 percent lower.

The basic 1100/83 system includes three processors with 24K words of buffer storage, 1536K words of backing store, two byte multiplexer channels, two block multiplexer channels, eight word channels, one system console, system maintenance unit, system transition unit, and two motor/alternators. Purchase price is \$3,677,228, and monthly rental is \$105,285 on a 1-year lease. The 1100/83 will provide about three times the performance levels of a basic 1100/81. Compared to IBM systems, UNIVAC says the 1100/83 offers about 1.25 times the performance of the IBM 3033 for about the same price.

The 1100/84 is a four-processor system that is said to provide a 60 percent performance advantage over the IBM 3033 while priced only 10 percent higher. A basic 1100/84 system includes 32K words of buffer storage, 2048K bytes of backing store, two byte multiplexer channels, two block multiplexers, eight word channels, two maintenance units, two system consoles, and two motor/alternators. The system purchase price is \$4,639,783, and the monthly rental is \$133,620 on a 1-year lease.

MODEL 8450 DISK SUBSYSTEM: This new high-performance disk subsystem is available for use with all members of the 1100 Series of computers except the 1108, and also for use with the UNIVAC 90/80 computers. The 8450 Dual Disk Drive is a dual-drive, fixed-media unit, each drive having a capacity of 67.1 million 36-bit words. In addition, 241,920 words of fixed-head storage can be added to each spindle. Average head-positioning time is 23 milliseconds, and average rotational delay is 8.3 milliseconds (3600 rpm). The

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data transfer rate for the ISS-manufactured unit is 1.26 million bytes per second. The 8450 subsystem requires a 5046-95 controller that controls up to sixteen 8430, 8433, or 8450 disk drives (eight dual-drive units).□

EQUIPMENT PRICES

		Purchase Price	Monthly Maint.	Rental (1-year lease)	Rental (5-year lease)
PROCESSORS AND FEATURES					
3032-87	1100/80 Processor; includes one IOU with one byte multiplexer, one block multiplexer, and one word channel module with four word channels; 4K words of buffer storage; 524K words of backing store; system maintenance unit; transition unit; system console; and one motor/alternator	\$1,447,670	\$2,420	\$34,185	\$25,640
3032-91	1100/81 Processor; includes one IOU with one byte multiplexer, one block multiplexer, one word channel module with four word channels, and space for one additional module; 8K words of buffer storage; 524K words of backing store; system maintenance unit; transition unit; system console; and one motor/alternator	1,621,690	2,575	38,290	28,720
F2883-00	Scientific Accelerator Module	124,235	175	2,935	2,200
F2335-99	Performance enhancement; converts an 1100/80 to an 1100/81; includes 4K words of buffer storage	174,020	155	4,105	3,080
3032-89	Cluster Expansion for 1100/83 and 1100/84 configurations; one required; provides 8K words of buffer storage, processor, system maintenance unit, and motor/alternator	806,710	1,280	19,015	14,260
3033-98	IOU Expansion; provides additional channels; includes one byte multiplexer, one block multiplexer, and four word channels; also includes a system console; can be expanded to accommodate 16 word channels	350,000	685	8,080	6,210
F2336-00	4K words of buffer storage; expands buffer storage from 8K words to 12K words	208,150	330	5,860	3,680
F2335-00	Buffer Expansion; provides 4K words to expand buffer storage from 12K to 16K words or the buffer storage in a two-cluster system from 24K to 32K words	98,055	155	2,070	1,735
7037-99	524K words of backing store	315,000	500	8,575	5,575
F2350-99	Expansion backing store for use with 7037-99 storage; 524K words	200,000	300	5,440	3,540
3033-99	IOU Expansion; provides a second I/O processing unit; includes cabinet and IOU with one byte multiplexer and four word channels; space for two additional 4-channel modules	241,920	385	5,710	4,280
2525-00	System Availability Unit; interfaces with two IOU word channels, 24 multi-access subsystems, and one channel transfer switch remote operator panel	79,360	125	2,060	1,550
8450 DISK SUBSYSTEM					
8450-99	8450 Dual Disk Drive; 67.1 million words per spindle, 134.2 million words total per unit	\$66,000	\$226	\$2,140	\$1,390
8450-97	8450 Dual Disk Drive with 241,920 words of fixed-head storage; 134.68 million words total per unit	74,600	250	2,390	1,590
F2717-99	Fixed-Head Conversion for 8450-99 dual disk drive; provides 241,920 words; \$100 field installation charge	13,600	24	250	200
5046-95	Control for up to 16 8430, 8433, or 8450 disk drives; controls four sets of four drives; each set can include 8430/8433 drives or 8450 drives; 16 additional drives can be controlled through addition of the F2837-00 expansion control	102,000	400	2,700	1,800
5046-93	Dual 5046 controls for dual-access systems	176,448	700	5,015	3,260
F2837-00	Power Control Expansion for subsystems greater than 16 drives	7,680	40	185	120
F2837-00	8450 Expansion for 5046-95 control; 32 drives max.	6,000	45	150	100
F2720-00	8430/8433 Expansion for 5046-95 control; 16 drives max.				
F2555-00	Shared Peripheral Interface for multiprocessor systems; includes second 36-bit interface; permits 5046-95 to be shared by two processors	6,600	29	138	102
F2718-99	8450 Dual Access; provides dual access and simultaneous operations on any two 8450 drives; requires two 5046-95 controls	2,688	14	56	42