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## UNIVAC 90/60 and 90/70 NEW PRODUCT ANNOUNCEMENT

**8430 DISK STORAGE FACILITY:** In January 1974, UNIVAC announced a new disk storage facility designed to provide its 90/60 and 90/70 computer systems with mass storage capabilities equivalent to the IBM Model 3330 Disk Storage Facility. The new disk drive, designated the UNIVAC 8430 Disk Storage Facility, is being manufactured by Information Storage Systems, Inc. (ISS), which was acquired by Sperry Rand last year.

The UNIVAC 8430 Disk Storage Facility uses the industry-standard removable IBM 3336-type disk pack or equivalent, which can store up to 100,018,000 bytes. One Model 5039 Control Unit can control up to eight Model 8430 Disk Storage Drives, for a total of 800,146,000 bytes of on-line storage capacity. A second string of eight drives can be added to a 5039/8430 facility when the F2047 16-Drive Expansion feature is incorporated. A minimum 5039/8430 Disk Storage Facility consists of two Model 8430 Disk Drives and one Model 5039 Control Unit. Thus, a 5039/8430 subsystem can contain between 200 million and 1.6 billion bytes of on-line storage. Since the UNIVAC 8430 Disk Storage Facility utilizes the single-spindle-per-cabinet design (in contrast to the IBM multiple-spindle-per-cabinet configuration), additional disk drives can be added to a UNIVAC 8430 subsystem in single-drive increments up to the maximum of 16 disk drives per control unit.

The performance characteristics of the UNIVAC 8430 Disk Storage Facility include an average head positioning time of 27 milliseconds, an average rotational delay of 8.33 milliseconds, and a data transfer rate of 806,000 bytes per second. A Dual Channel Feature permits the 5039 control unit to be attached to two computers for shared operation or to two selector channels on the same computer. A Dual Access Feature permits simultaneous read and write operations on any two 8430 Disk Drives in a subsystem.

The new Model 8430 Disk Storage Facility supersedes the previously announced Model 8440 Disk Storage Facility for UNIVAC 90/60 and 90/70 computer systems, but is not available for UNIVAC 1100 Series computer systems. First delivery, with software support under the OS/7 Operating System, is scheduled for August 1974.

**UNIVAC 90/70 COMMUNICATIONS INTELLIGENCE CHANNEL:** UNIVAC also announced price increases for the Communications Intelligence Channel (CIC), the programmable communications channel for the 90/70 computer system. The new prices are listed below.

### EQUIPMENT PRICES

		Purchase Price	Monthly Maint.	Rental (1-Year Lease)*
<b>8430 DISK STORAGE FACILITY</b>				
5039-00	Control Unit; controls up to eight Model 8430 Disk Storage Drives	\$57,600	\$300	\$1,200
8430-00	Disk Storage Drive; provides a single disk drive	24,960	130	520
F2020-00	Dual Access; provides dual access and simultaneous read and write operations on any two disk drives. Required on both disk drives in the subsystem. Also requires two Model 5039 Control Units and two selector channels	4,320	10	90
F2046-00	Dual Channel; provides non-simultaneous access to one Model 5039 Control Unit from two selector channels	3,700	15	85
F2047-00	16-Drive Expansion; provides the capability to attach up to 16 Model 8430 Disk Drives to one Model 5039 Control Unit	7,680	40	160
F1230-00	Disk Pack; provides up to 100 million bytes of removable storage. (Maintenance contract is not available.)	750	-	40

\* Rental prices do not include equipment maintenance.

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<b>90/70 COMMUNICATIONS INTELLIGENCE CHANNEL</b>				
8580-00	Communications Intelligence Channel; includes basic CIC with locations for 16 line adapters (8 full-duplex or 16 half-duplex) and multiplexer positions to support them	25,680	190	535
F1822-99	Line Adapter Expansion; expands the number of line adapter locations from 16 to 64 (32 full-duplex or 64 half-duplex), and includes multiplexer positions for an additional 8 full-duplex or 16 half-duplex adapters	3,840	25	80
F1823-00	Multiplexer Expansion; expands the number of CIC multiplexer positions to permit interface and control of an additional 16 line adapters. A maximum of three units may also be used to support a total of 128 line adapters when 8581-99 is used	6,960	20	145
F1824-00	Dual Channel; permits non-simultaneous operation of the CIC on two 90/70 systems	1,920	5	40
F1825-00	Active Line Indicator; provides a display panel to display line activity on up to 16 half-duplex or 8 full-duplex communication lines	415	2	10
F1825-01	Line Indicator Expansion; expands the number of active line displays by 8 full-duplex or 16 half-duplex lines to a maximum of 7 expansions. Requires installation of F1825-00	415	2	10
F1826-00	Synchronous Line Adapter; provides a full-duplex or half-duplex interface to synchronous data sets conforming to RS-232 and CCITT. Compatible with MIL 188C low-level interface electrical characteristics. Requires cable selection	864	7	18
F1826-01	Synchronous Line Adapter; same as F1826-00 and provides reverse channel of up to 150 bits per second asynchronous; requires two ports	1,296	7	27
F1827-00	Synchronous Line Adapter; same as F1826-00 except permits exact compliance with the MIL 188C low-level interface; control line polarity is RS-232. Requires polarity selection	864	7	18
F1828-00	Asynchronous Line Adapter; provides a full-duplex or half-duplex interface to asynchronous data sets conforming to RS-232 and CCITT; compatible with MIL 188C low level interface electrical characteristics	672	6	14
F1828-01	Asynchronous Line Adapter; same as F1828-00 and provides reverse channel of up to 5 bits per second	864	7	18
F1828-02	Asynchronous Line Adapter; same as F1828-00 and provides reverse channel of up to 150 bits per second asynchronous; requires two ports	1,056	8	22
F1829-00	Asynchronous Line Adapter; same as F1828-00 except permits exact compliance with the MIL 188C low level interface. Control line polarity is RS-232. Requires polarity selection	672	6	14
F1830-00	Wideband Line Adapter; provides a synchronous full-duplex interface to an AT&T 300 Series data set operating at 40.8K bits per second with 56K bits per second top speed	1,056	8	22
F1830-01	Wideband Line Adapter; provides a synchronous full-duplex interface with an AT&T 300 Series data set at 50K bits per second. Includes autoanswering capability	1,056	8	22
F1831-00	Dial Adapter Single; provides the interface to both rotary or touch-tone auto dialing units. Requires a line adapter location for each Dialing Unit	672	6	14
F1832-00	Asynchronous Relay Line Adapter; provides an asynchronous full-duplex interface optionally compatible with either 20-75 MA neutral or 10-40 MA polar telegraph lines	672	6	14
8581-99	CIC Expansion; includes locations for 64 additional line adapters, 32 full-duplex or 64 half-duplex. Expands the CIC to its maximum configuration of 128 half-duplex lines. Also includes multiplexer positions for an additional 8 full-duplex or 16 half-duplex adapters. All features described under 8580-00 are applicable except F1822-99, F1824-00, and F1825-00	16,320	50	340
F1835-00	TWX Line Adapter; provides an interface to the USA TWX network	672	6	14
F1836-00	Telex Line Adapter; provides an interface to the USA WU Telex Network	672	6	14
F1841-00	Auto-Data Rate Detect; provides automatic transmission rate and code level detection for asynchronous input data. Used with F1828 or F1829. One required for CIC to service all asynchronous line adapters	1,056	5	22
F1842-00	Translate Expansion; provides for two additional programmable translation tables	1,440	7	30
F1849-00	Line Adapter Sharing; provides the ability for two CIC's to share a common set of line adapters. One feature is required for each set of 16 half-duplex or 8 full-duplex lines to be shared	1,440	7	30

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