

## UNIVAC 90/30

## New Product Announcement: 8418 Disc Drives

The 8418 Disc Drives, announced for the UNIVAC 90/30 system in September 1975, provide removable disc storage capacities between those of the 28.9-million-byte 8416 Disc Drives and the 100-million-byte 8430 Disc Drives. The new 8418 Disc Storage Subsystem is available in two models: the 8418-94 with a capacity of 57.9 million bytes per drive and the 8418-92 with a capacity of 28.9 million bytes per drive. The subsystem is connected to the 90/30 through the F1621 Integrated Disc Adapter. An 8418 subsystem can include from one to four disc drives in single-unit increments, or a maximum of eight disc drives with the 2408 Integrated Disc Adapter Expansion Feature. Model 8418-94 and 8418-92 disc drives can be intermixed in any combination on the 90/30 Integrated Disc Adapter.

Both the 8418-92 and 8418-94 use the F1216-02 Disc Pack consisting of eight surfaces, of which seven are used for recording data and one is used as a positioning surface for a servo head. Each recording surface has 808 tracks for data and 7 spare tracks. The 8418-94 uses all 815 cylinders and has a capacity of 57,917,440 bytes per drive, while the 8418-92 uses only the outer 411 cylinders and has a capacity of 28,958,720 bytes per drive. Both drives use a Programmed Servo Offset technique to vary the accessor position for recovering from alignment inaccuracies and magnetic defects.

The functional specifications of the 8418 Disc Subsystems are as follows:

	<u>8418-92</u>	<u>8418-94</u>
Data capacity per drive (bytes)	28, 958, 720	57, 917, 440
Data capacity per 8-drive subsystem (bytes)	231, 669, 760	463, 339, 520
Tracks	2877 (including spares)	5705 (including spares)
Cylinders (7 tracks each)	404 + 7 spares	808 + 7 spares
Data heads	7 per disc drive	7 per disc drive
Head positioning times:		
Minimum	10 msec	10 msec
Average	27 msec	33 msec
Maximum	45 msec	60 msec
Rotational latency:		
Average	10.7 msec	10.7 msec
Maximum	21.4 msec	21.4 msec
Transfer rate	625KB per second	625KB per second

First customer deliveries are scheduled in November 1975 for the 8418-92 and in March 1976 for the 8418-94.

		<u>Purchase</u>	<u>Monthly Maint.</u>	<u>Rental (1-year lease)*</u>
F1621-00	Integrated Disc Adapter (provides interface and control for up to four 8416 and/or 8418 Disc Drives)	\$12,000	\$50	\$250
F1769-01	Corner Transition (allows the disc configuration to make a right-angle turn)	1,350	—	45
2048-00	IDA Expansion (expands capability of IDA to control up to eight 8416 and/or 8418 Disc Drives)	8,160	30	170
8418-92	Disc Storage Drive; 28.9 million bytes	14,880	75	310
8418-94	Disc Storage Drive; 57.9 million bytes	22,080	85	460
F1216-02	Disc Pack	500	—	25
F2198-00	Disc Storage Upgrade (converts 8418-92 to an 8418-94)	7,200	10	150

\*Rental prices do not include equipment maintenance.