

## IBM System/370

## NEW PRODUCT ANNOUNCEMENT

**3348 MODEL 70F DATA MODULE:** A new fixed-head storage capability was unveiled for the larger System/370 computers with IBM's April 1974 announcement of the 3348 Model 70F Data Module for the 3340 Direct Access Storage Facility. This new Data Module combines both fixed-head and moving-head storage techniques.

Total storage capacity of the 3348 Model 70F Data Module is 69.8 million bytes, the same as that of the original 3348 Model 70 Data Module. However, the first five cylinders of each Model 70F data module, or a total of 502,080 bytes, are accessed by a fixed read-write arm, thus eliminating any head-positioning time required for accessing the data stored in these five cylinders. The remaining 69.3 million bytes of storage on the new data module is accessed by moveable heads with performance comparable to that of the original 3348 Model 70 Data Module.

The new 3348 Model 70F Data Module can be used on any 3340 Model A2 or B2 (dual-drive) Direct Access Storage Facility that has been equipped with the Fixed Head Feature. A 3340 disk drive with the Fixed Head Feature can also operate with standard 3348 Data Modules. Performance characteristics of the 3340 Direct Access Storage Facility with the new 3348 Model 70F Data Module in comparison with the original 3348 Model 70 Data Module are summarized below:

	With 3348 Model 70	With 3348 Model 70F	
	Data Module	Data Module	Cylinder 0 and Cylinders 6-695
	<u>Cylinders 0-695</u>	<u>Cylinders 1-5</u>	
Average seek time	25	0	25
Average rotational delay (msec)	10.1	10.1	10.1
Data rate (bytes/sec)	885,000	885,000	885,000
Bytes per track	8,368	8,368	8,368
Data cylinders	696	5	691
Tracks per cylinder	12	12	12
Capacity (bytes)	69,889,536	502,080	69,387,456

Like its predecessor, the Model 70F Data Module can be loaded automatically in 20 seconds and has a read-only capability as a standard feature.

Programming support for the 3340 with the Fixed Head Feature is the same as for the basic 3340 Direct Access Storage Facility, and will be provided under DOS/VS, OS/VS1 Release 3, and OS/VS2 Release 2. However, the new fixed-head storage facility will be available only with System/370 Model 135 and larger systems, although the original 3340 is also available for the System/370 Model 115 and Model 125.

Use of the 3348 Model 70F requires the installation of a Fixed Head Feature on each 3340 disk drive and adaptations to the central processor's Integrated Storage Control, Integrated File Adapter, or 3830 Model 2 Storage Control. Prices for the Fixed Head Feature are listed below; the other modifications to the mainframe attachments are performed by IBM at no charge.

The new fixed-head storage area can be used to house high-activity data, such as page data sets, ISAM and VSAM indexes, and CICS indexes and tables. Thus, when properly utilized, it should significantly enhance the performance of most System/370 installations under IBM's virtual storage operating systems.

First customer delivery of the 3348 Model 70F Data Module is scheduled for September 1974. The Fixed Head Feature for the 3340 Direct Access Storage Facility can be field-installed. □

	<u>Purchase Price</u>	<u>Monthly Maint.</u>	<u>Rental (1-Year Lease)</u>	<u>Rental (Extended Term Plan)</u>
3348 Model 70F	\$4,400	Time and Materials	\$165	\$140
Fixed Head Feature (For 3340 Model A2 or B2)	1,900	1.50	47	40