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IBM System/3 Model 10

NEW PRODUCT ANNOUNCEMENT

3410/3411 MAGNETIC TAPE SUBSYSTEM: These compact, low-cost tape units, designed primarily to bring magnetic tape capabilities to the System/3 Model 10, are also available for use with the IBM System/360 (Models 22, 25, 30, 40, and 50) and System/370 (Models 135, 145, and 155). The 3410 is a tape unit only, while the 3411 contains both a tape unit and the subsystem control unit. The compact, waist-high cabinets are cable-connected to one another at the front corners, making it possible to place them side by side or at any angle up to 90 degrees to one another.

The 3410 and 3411 are available in three models, whose principal characteristics are as follows:

	Model 1	Model 2	Model 3
Tape speed, inches/sec	12.5	25	50
Recording density, bpi	1600	1600/800*	1600/800*
Data rate, bytes/sec:			
At 1600 bpi (phase-encoded)	20,000	40,000	80,000
At 800 bpi (NRZI)	Not avail.	20,000*	40,000*
Inter-block gap, inches	0.6	0.6	0.6
Rewind time, minutes/2400' reel	3	3	2

*Requires Dual Density feature.

All three models use half-inch tape recorded in the standard IBM 9-track formats. A single 3410/3411 subsystem, consisting of a 3411 Magnetic Tape Unit and Control and up to three additional 3410 Magnetic Tape Units, can be connected to a System/3 Model 10 Disk System. Model 1, 2, and 3 tape units cannot be intermixed in a subsystem. A System/3 Attachment is required on the 3411, and a 3411 Magnetic Tape Attachment is required on the 5410 Processing Unit. The Processing Unit Expansion Feature A is a prerequisite. In addition, every 3410 and 3411 tape unit must be equipped with either the Single Density (1600 bpi) or Dual Density (1600 or 800 bpi) feature; the Dual Density capability is not available for the Model 1 units.

Features of the 3410/3411 subsystem include single-capstan drive, linear rewind, simplified tape threading, and a push-pull quick-release latch. As in the high-performance 3802/3420 subsystem, the tape units are connected to the control unit in radial rather than series fashion to facilitate maintenance. Only digital signals are transmitted across the interface to reduce the sensitivity to noise. The 3410/3411 subsystem was announced on October 7, 1971. Deliveries to System/3 users are scheduled to begin in October 1972.

MAGNETIC TAPE PROGRAMMING SUPPORT: The new 3410/3411 Magnetic Tape Subsystem will be supported by means of extensions to existing software facilities for System/3 Model 10 disk systems. No software support for the 3410/3411 subsystem will be provided for card-oriented Model 10 systems that lack disk storage.

A new System Control Program feature, available in September 1972 at no additional charge, will provide for the initialization and use of magnetic tape files. The feature will accommodate fixed or variable-length records, blocked or unblocked records, ANSI or IBM label formats, and ASCII or EBCDIC data codes. It will also accumulate and record tape error statistics.

A new Disk RPG II Magnetic Tape Feature, available in September 1972 at a monthly charge of $30, will enable RPG II programmers to handle magnetic tape files. The feature supports sequential input and output files. The records must be of fixed length, and may be either blocked or unblocked and in either EBCDIC or ASCII code.

IBM will also update several previously announced Program Products to support the 3410/3411 subsystem. Release 3 of System/3 Subset ANS COBOL, scheduled for December 1972, will support the processing of magnetic tape files with fixed or variable-length records, blocked or unblocked formats, and EBCDIC or ASCII data codes. Release 2 of System/3 Disk FORTRAN IV, also scheduled for December 1972, will provide I/O support for both formatted and unformatted records on both magnetic tape and 5444/5445 Disk Storage Drives. The System/3 Disk Sort program will support magnetic tape files for input and output, and the 1255 Magnetic Character Reader Utility Program will be able to write its output records on magnetic tape; these two facilities are scheduled for September 1972.

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INCREASED COMMUNICATIONS CAPABILITIES: IBM introduced several new communications facilities for System/3 Model 10 disk systems in October 1971. Included are a second Binary Synchronous Communications Adapter (BSCA), improved communications software, support of the IBM 3270 Information Display System, and local attachment of the 3271 Control Unit for on-site display units. All are scheduled to become available in September 1972.

The Second BSCA feature enables a System/3 Model 10 to control transmission simultaneously over two communications lines. The Second BSCA transmits data in the Binary Synchronous Communications mode at 600, 1200, 2000, 2400, or 4800 bits per second; the wide-band (50,000 bps) transmission rate is available only for the First BSCA. Either or both of the BSCA's can serve as point-to-point switched, point-to-point non-switched, multi-point tributary station, or multi-point control station adapters.

The BSCA Multiline/Multipoint Feature is a set of communications I/O control routines supplied as an extension of the Disk System Control Programs. The feature provides macro-instruction control of the currently supported BSC terminals.

Support for the 3270 Information Display System enables stand-alone 3275 Display Stations and/or multi-station 3271 Control Units to be connected, in multi-drop fashion, to a voice-grade line connected to a BSCA on the System/3.

The EIA Local Attachment permits one 3271 Control Unit to be cable-connected to either the First or Second BSCA without the use of a modem or data communications line. Up to 32 display stations can in turn be connected to the 3271. The 3271 must be located within 40 feet of the System/3 Processing Unit, but the individual display stations can be up to 2000 feet from the 3271.

EXPANDED APPLICATIONS SOFTWARE: Since DATAPRO 70's current report on the System/3 Model 10 was published, IBM has added the following new packaged application programs for card systems: Law Enforcement System ($80/month), Property and Liability Accounting ($65/month), Retail Unit Inventory Techniques ($75/month), and Utility Billing ($80/month).

In addition, IBM has extended the System/3 Application Customizer Service by offering a complete Application Development Service. Users of System/3 card systems can have their applications completely designed, programmed, tested, and documented by IBM for the following fixed fees: Order Writing and Invoicing, $1,525; Inventory Accounting, $1,075; Accounts Receivable, $1,400; Sales Analysis, $1,300. □

		Purchase Price	Monthly Maint.	Rental (short-term lease)	Rental (12-month lease)	Rental (24-month lease)
3410	Magnetic Tape Unit:					
	Model 1; 20 KB	7,700	45	185	170	155
	Model 2; 40/20 KB	10,300	50	245	225	206
	Model 3; 80/40 KB	12,800	55	305	281	256
3411	Magnetic Tape Unit and Control:					
	Model 1; 20 KB	17,000	70	405	373	340
	Model 2; 40/20 KB	21,600	75	515	474	433
	Model 3; 80/40 KB	26,300	80	625	575	525
3211	Single Density Feature (for 3410 & 3411)	2,500	7.50	55	51	67
3221	Dual Density Feature (for 3410 & 3411, Models 2 & 3 only)	3,600	27	80	74	67
7003	System/3 Model 10 Attachment (required on 3411)	3,150	3	75	69	63
7951	3411 Magnetic Tape Attachment (required on 5410 Processing Unit)	4,800	10	160	—	—
2084	Second BSCA (for 5410 Processing Unit; 5732 and 2074 are prerequisites)	13,760	65	265	—	—
1325	Auto Call Feature (for 2084)	2,075	1	40	—	—
4723	Internal Clock Feature (for 2084)	1,295	1	25	—	—
7487	Station Selection Feature (for 2084)	1,035	1	20	—	—
7851	Text Transparency Feature (for 2084)	1,035	1	20	—	—
3602	EIA Local Attachment (for 2084)	1,000	1	25	—	—
3601	EIA Local Attachment (for First BSCA)	1,000	1	25	—	—