IBM

3430

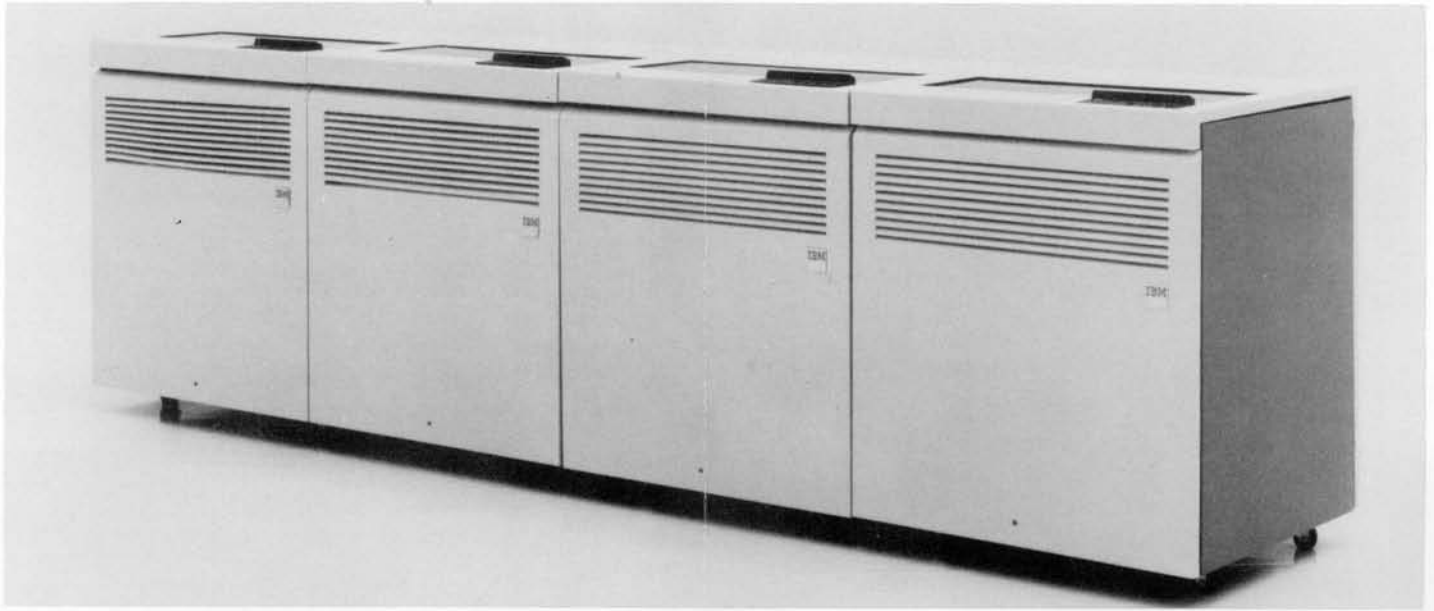**Magnetic Tape
Subsystem**

The 3430 tape subsystem is IBM's new entry into the existing family of 1/2'' tape drives.

3430 incorporates design concepts that provide higher performance and RAS, than its predecessor product 3410/11 model 3.

PRODUCT DESCRIPTION

The 3430 magnetic tape subsystem will generate or read 1/2''tapes, in 6250 Group Coded Recording and 1600 Phase Encoded, using nine tracks format.

3430 will support all tape application areas of processing, journalling, archiving, disaster recovery and save/restore. There are two models available in 3430 subsystem: Model A01 and B01.

- □ 3430–A01: Contains the subsystem control unit, tape transport, transport logic, power and cooling.

  Provides the communications between the drive units and host attachments via standard 370 interface.

- □ 3430–B01: Contains a tape transport, transport logic, power and cooling.

The minimum subsystem configuration is one 3430–A01 and the maximum configuration is one 3430–A01 and three 3430–B01.

IBM INTERNAL USE ONLY

Characteristics

□	Tracks	9
□	Tape Speed	50 Inches/second
□	Recording Densities	6250/1600 bytes/inches
□	Data Rate	312/80 KB/second
□	Rewind speed	180 inches/second
□	Nominal IBG	.45/.60 inches

Design Features

- □ Single direct–drive capstan motor with 2 phase tacho-meter.
- □ LSI Logic
- □ Functional packaging of logic boards and mechanical assemblies.
- □ Radial attachment of tape units.
- □ Internal cables between the Model A01 and B01's.
- □ Read/write head, photosensor, cleaner blade, erase head, and tape guides in vacuum columns.
- □ One meter–high (39.37'') tape unit with near horizontal transport deck.
- □ CE/Operator Panels.

System/Program Support

The 3430 will be attached to IBM System 370 models 135
through 168, 3031, 3033, 43XX, Sys 38, via Standard
Interface and operates under control of CPS 5.0,
VSE/AF 1.3.5, VM/SP 3.0 or VSE/AF 2/3 and
SSX/VSE REL. 2 defined as 3410.

Optional Features

The subsystem has one optional feature only: A device
adapter card is added to basic control unit, when third tape
is ordered.

Serviceability Maintenance

- □ Instantaneous Failure Detection (IFD) with automatic
  Fault Symptom Code generation and presentation via
  sense data.

- □ B01 units and TU portion of A01 have separate
  power down capabilities to facilitate concurrent
  service.

- □ Microdiagnostic and OLT's are available but are used
  primarily for fix verification.

- □ Hex LED's to report microprocessor errors.

- □ Diagnostic automatically checkout subsystem
  operations during power—on and load—ready
  operation.

- □ Maintenance Analysis Procedures (MAP's) and MIM
  START section will be used at all times to fix the
  faults.

- □ Forced Error Logging Mode aids to CE in analyzing
  intermittent errors.

- □ FRU Replacement/History table.

CE Career Path

The 3430 subsystem is classified as medium systems I/O's,
(Product Category 3).

For A/FE 3430 is cassified as General Product and will be
served by General System and Data System CSR's.