

TO: Distribution  
FROM: Ross E. Klinger  
DATE: December 30, 1974  
SUBJECT: ANSI Standard Tape I/O Module - Project Status

### I. SIGNIFICANT EVENTS

Testing of Version Two of the IBM Tape I/O Module is complete, with the exception of the non-labeled tape capability. A meeting with Multics COBOL compiler development group was held on December 3 to discuss COBOL tape requirements. As a result of that meeting, the control facilities of the I/O Module have been enhanced.

### II. TASK STATUS

The I/O Module now supports IBM standard labeled tapes.

The volume initialization facility was expanded to permit automatic initialization in certain cases. For those cases which require querying for permission, code was added to differentiate among cases, in order to more explicitly specify why initialization is necessary.

A mechanism to detect and prevent multiple I/O requests from different command levels was incorporated, in addition to a mechanism which prevents multiple attachments to different files of the same file set.

The `iox_$control` facility was enhanced by the addition of five new operations: "file\_status", "volume\_status", "feov" (force end of volume, for COBOL), "close\_rewind" (to support COBOL CLOSE), and "retention" (to specify resource disposition after attachment).

The ANSI MPM documentation is 75% complete; the IBM documentation 50% complete.

### III. FUTURE PLANS

During the first week of January, the non-labeled logic module will be written and tested.

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Multics Project internal working documentation. Not to be reproduced or distributed outside the Multics Project.

The IBM documentation will be completed, and an MCR submitted. The I/O Modules will be included in Multics SR3.0. The I/O Modules will be installed in the MIT IML on an interim basis, so that they may be put into production as soon as possible.

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PROJECT \_\_\_\_\_ ANSI Standard Tape I/O Module \_\_\_\_\_ AREA \_\_\_\_\_ ANSI Tape Module: Version Three \_\_\_\_\_

TASK DESCRIPTION	PERSONNEL	SIARI	FINISH	M-W	CHANGES-STATUS
ANSI Tape Module: correct Version	Klinger	109/11/74	10/16/74	5.2	Done
Two deficiencies		109/11/74	10/18/74	5.4	
ANSI Tape Module: convert to lox_ interfaces	Klinger	110/11/74	10/28/74	1.6	Done
		110/07/74	10/25/74	2.4	
ANSI Tape Module: test lox_ version (without volume switching)	Klinger	110/21/74	10/31/74	1.4	Done
		110/29/74	11/06/74	1.4	
Tape Mount simulator: support volume switching	Klinger	110/29/74	10/30/74	.2	Done
		111/07/74	11/08/74	.2	
ANSI Tape Module: support multi-volume files	Klinger	110/31/74	11/06/74	1	Done
		111/11/74	11/15/74	1	
ANSI Tape Module: support lox_position and lox_read_length entry points	Klinger	111/18/74	11/22/74	1	Done
		111/18/74	11/22/74	1	
ANSI Tape Module: support processing of EBCDIC data in tape files	Klinger				Done
ANSI Tape Module: enhance volume initialization, file locking, and lox_scanrol functions	Klinger	112/16/74	12/20/74	1.0	Done
		112/16/74	12/20/74	1.0	
ANSI Tape Module: support ANS COBOL OPEN and CLOSE	Klinger	112/23/74	12/31/74	1.2	Done
		112/23/74	12/30/74	1.0	

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PROJECT \_\_\_\_\_ ANSI Standard Tape I/O Module \_\_\_\_\_ AREA \_\_\_\_\_ IBM Tape Module \_\_\_\_\_

TASK DESCRIPTION	PERSONNEL	START	FINISH	M-W	CHANGES-STATUS
IBM Tape Module: support IBM Standard Labeled Tapes	Klinger	11/25/74	12/10/74	2.0	Done
IBM Tape Module: allow attach options to supply information from a MISSING HDR2 label	Klinger	11/25/74	12/10/74	2.0	Done
IBM Tape Module: support DOS tape formats	Klinger				Done
IBM Tape Module: support non-labeled tapes	Klinger	12/11/74	12/13/74	0.6	Completion date has
IBM Tape Module: support processing of ASCII data in tape files	Klinger	12/31/74	01/10/75	1.6	slipped

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PROJECT \_\_\_\_\_ ANSI Standard Tape I/O Module \_\_\_\_\_ AREA \_\_\_\_\_ Documentation \_\_\_\_\_

TASK DESCRIPTION	PERSONNEL	START	FINISH	M-H	CHANGES-STATUS
ANSI I/O Module: provide MPM documentation	Klinger	08/19/74	12/31/74	2.0	75% done
IBM I/O Module: provide MPM documentation	Klinger	08/26/74	01/03/74	2.0	50% done
ANSI/IBM I/O Modules: provide PLM documentation for I/O Modules	Klinger	01/02/75	01/16/75	2.0	

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