

*Roach*

Multics Task Report

MTR - 086

Date: April 17, 1975  
From: John Gintell  
Subject: Contents of Multics system release 2.2

The following are those entities that are to be included in Multics Release 2.2 to be made on July 1, 1975. The principal reason for the creation of 2.2 is to provide to the Air Force a Standard release of Multics that contains the Access Isolation Mechanism. Sending this release to all sites will offer various enhancements and bug fixes to everyone. No site other than the Air Force will use the Access Isolation Mechanism at this time. It is not until the release of 3.1 that we expect the implementation and documentation to be sufficiently complete for other sites to use the mechanism.

There are no special documentation plans for this release. The user interface changes are minimal and will be covered by info segments and summary information in the Software Release Bulletin. The operational changes are also minimal for users who do not use the Access Isolation Mechanism and will also be covered by items in the SRB.

In order for these changes to be included in 2.2, they must have been submitted to MIT by May 1 and sent to Phoenix by June 1. If something must be included in 2.2 and will not meet this requirement special measures can be taken to get it included in 2.2. Note that most of the things described below have already been installed or submitted. The only item listed below for which the submission to MIT may be after the May 1 date is System and User control.

As a result of some of these installations there may be several small bug fixes that must be included as part of 2.2. The usual close coordination will be needed in order to insure that the system is complete.

A special situation will result because MCS will have been installed at both MIT and Phoenix prior to release of 2.2 and should not be included in 2.2. As a result, MCS will have to be temporarily removed at Phoenix and the old GIOC simulator reinstalled for the final testing of 2.2.

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

The new I/O Daemon that is part of the Access Isolation Mechanism will not be included as part of 2.2 because it will not have received sufficient exposure. It will be shipped separately to the Air Force at the time that 2.2 is sent to them. It will be included in 3.0.

In the lists below the following status notation applies:

(sm) submitted to MIT  
(im) installed at MIT  
(ip) installed at Phoenix  
(fw nn) planned MIT submission date

### Languages

PL/I and runtime (sm)  
Fortran and runtime (sm)  
BASIC and runtime (fw 18)

### Access\_Isolation\_Mechanism

Storage system modifications (25.0) (im)  
find\_ bug fix (fw 17)  
Salvager (im)  
Backup (im)  
Reloader (fw 18)  
(not to be confused with some previous submissions)  
Version 3 message segment facility (im)  
System and User Control (fw 19)  
(not to be confused with MCS compatible version already submitted)  
Protection audit logging mechanism (fw 17)  
New tools (including MST comparer) (fw 18)

### Performance\_Improvements

page control (25.5) (im)  
command loop using iox\_ (fw 18)  
absentee using iox\_ (fw 17)

**I/O\_software**

New I/O interfacier with timeout mechanism (ip)  
card reading and punch software (ip)  
printer software (ip)  
tape dcm (ip)  
TOLTS ??

**Miscellaneous**

iox\_ with move\_attach\_ (fw 18)  
secure mail command (sm)  
SCU restart bug fix (fw 16)  
miscellaneous commands and subroutines installed at MIT  
between February and May (sm)

