Enclosed are copies of Multics Change Requests which were approved from 01 October through 15 October 75.
## Multics Change Request

**TITLE:** Add ring 1 AIM privileges for the Initializer

**AUTHOR:** Jerold C. Whitmore

**Category (Check One):**
- Lib. Maint. Tools
- Sys. Anal. Tools
- Sys. Prog. Tools
- 355

**STATUS**
- Expired: 04/7/75

**DOCUMENTATION CHANGES**
- Document
- Specify One or More

### Use these headings:

#### Summary:
Add a call to system privilege $ring1_priv on to system_startup_pll which will allow the initializer to read absentee requests from the queues for users of all authorizations.

#### Reasons:
system_startup currently sets dir, ipc and soos privileges for the initializer. Ring 1 privileges was omitted by mistake.

#### Implications:
Emergency fix for MR3.0.
(Already installed in Phoenix)
## Multics Change Request

**Title:** Fix for bound_dumper

**Author:** Jerold C. Whitmore

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**Category: Documentation Changes**

- Document Specify One or More

**User/Operations-visible Interface change?** Yes

**Incompatible change?** Yes

**Performance:** Same

**Replaces MCR**

**Objections/Comments:**

Use these headings: Summary of Proposal, Reasons for Proposal, Implications, Detailed Proposal.

**Summary:** One call to com.err in start dump.pl1 uses an undefined code rather than the first half of the ios_status variable. Fix the reference.

**Reasons:** Stack garbage can cause com.err to take an out of bounds fault on the error_table. This has been in the system for a long time, but first showed up during the installation of 2.2S at APDSC.

**Implications:** Emergency fix for MR3.0.

(Already installed in Phoenix)
**TITLE:** Fix IO Daemon bugs for 3.0

**AUTHOR:** Jerold C. Whitmore

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- **Status: Written**
- **Date:** 09/24/75
- **Expires:** 10/7/75

**Category (Check One):**
- Lib. Maint. Tools
- Sys. Anal. Tools
- Sys. Prog. Tools

**Document:**
- Salvager
- MPM (Vol. Sect.)
- Ring Zero
- PLMS (AN #)
- Ring One
- MOSN (Sect.)
- SysDaemon/Admin.
- MPAM (Sect.)
- Runtime
- MSAM (Sect.)

**Objections/Comments:**

Use these headings: Summary of Proposal, Reasons for Proposal, Implications, Detailed Proposal.

**Summary:** Change the call to output request in the three driver modules (printer, punch, G115) to use an automatic variable for an error code rather than an undefined parameter. Change the number of elements for the punch error message to be correct.

**Reasons:** Output request will set its error code argument to zero. The undefined parameter causes stack garbage to be used as an pointer with unknown results.

**Implications:** Emergency fix for 3.0 (Already installed in Phoenix)
TITLE: General IO Daemon fixes

AUTHOR: Jerold C. Whitmore

- Coded in [X] PL/I [ ] AIM [ ] other-
- explain in DETAILED PROPOSAL
- Planned for System MR
- Fixes Bug Number(s)
- Documented in MTR
- User/Operations-visible Interface change? [X] yes [ ] no
- Incompatible change? [ ] yes [X] no
- Performance: [X] Worse [ ] Better [ ] Same
- Replaces MCR

Category (Check One)
- Lib. Maint. Tools
- Sys. Anal. Tools
- Sys. Prog. Tools

Document (Specify One or More)
- Document
- Specify One or More

DOCUMENTATION CHANGES
- MPM (Vol, Sect.)
- MPAM (Sect.)
- MOSN (Sect.)
- MSAM (Sect.)

Objections/Comments:
- Info Segs
- Other (Name)
- None (Reason) X

Use these headings: Summary of Proposal, Reasons for Proposal, Implications, Detailed Proposal.

Summary:

1) Change printer driver to set the banner line length to the default device line length after a new device command.

2) Correct synchronization of messages to the control terminal to avoid errors when the terminal is hung up.

3) Order a hangup to the control terminal before detaching by command.

Reasons:

Currently:

1) If the banner is set for 8x11 requests, switching back to normal requests still uses the narrow banner. (Bad)

2) If the control terminal is blocked for input and is hung up by the operator, the driver still tries to say "driver continuing" on the detached stream.

3) With all terminals now going through the answering service, a dialed terminal or an attached slave remains assigned to the process after an explicit detach by driver command. It should be hung up before detaching to return it to the answering service.
**TITLE:** Fix bug in full_find_command

**AUTHOR:** S. Herbst

**SUMMARY:**
Change full_find_command to use its associative memory if the entry name portion of a given pathname, rather than the entire pathname, is 16 characters or less in length.

**REASON:**
Currently, if a pathname is longer than 16 characters, the associative memory is not updated even though it may already contain an entry for the same command name.

**Example:**

```
list
>yudd>m>tac>x>list
list
```
**Summary:**

TTY makes calls to the hardcore DIM to read and write using a pointer to the caller's buffer. This pointer may contain a bit offset. The hardcore DIM expects a word aligned pointer and a character offset. This causes errors on input in cases where the caller's buffer pointer is not word aligned and certain canonical editing is done, (i.e. a backspace followed by erase or kill characters).

**Proposal:**

TTY will call hardcore using a word aligned pointer and set offset to the character position as found in the bit offset portion of the pointer.
**Title:** Remove non-system ACLs from Gates on Hardcore Header  

**Author:** R. A. Roach  

**Planned for System:** not applicable  
**Fixes Bug Number(s):** not applicable  
**Documented in MTB:** not applicable  
**Incompatible Change:** no  
**User/Operations-visible Interface Change:** no  
**Coded in:** ( )PL/I ( )ALM (B)other-see below  
**Performance:** ( )better (M)same ( )worse  

**DOCUMENTATION CHANGES (specify one or more):**  
- XPM (vol,sect)  
- MOSN (sect)  
- PLMs (AN#)  
- Info Segs  
- Other  
- hardcore.header  

**OBJECTIONS/COMMENTS:**  

---  

**SUMMARY:** Remove all but SysDaemon and SysAdmin ACL entries from gates on the hardcore header. All other entries will be added via commands in system_start_up, etc.  

**REASON:** To ease distribution problems and to centralize the granting of such access.  

**IMPLICATIONS:** Will have to implement a process for requesting access to gates on the system tape to replace getting access by submitting hardcore changes (probably a letter to IPC requesting to be added to an ACL).
SUMMARY: 1) Maintain the time of the last syserr message copied from ring 0 in the ring 4 syserr log.

2) Append syserr messages copied from ring 0 to the latest ring 4 syserr log segment instead of creating a new ring 4 syserr log segment each time messages are copied from ring 0.

3) Make minor changes to utility procedure log_util_ that supports the ring 4 syserr log.

REASONS: 1) The ring 4 syserr log exists as a complete and reliable (i.e., backed up) history of significant system events. Currently, syserr_log_man_ in ring 4 uses a parameter stored in the ring 0 syserr log to determine where to start copying messages into the ring 4 log. If the ring 4 log is backed up, or a problem (e.g., record quota overflow, crash) occurs after syserr messages have been copied out of ring 0 but before they are appended to the ring 4 log, the ring 4 log can become missing messages. If the time of the last syserr message copied is kept in the ring 4 log, it is backed up with the log. By always copying all messages in the ring 0 log that were created after the time kept in the ring 4 log, messages in the ring 0 log are not deleted by copying, "holes" in the ring 4 log (caused by backup or problems during copying) will be filled automatically.

2) Currently, each time the answering service copies the syserr log from ring 0 (at every shutdown and occasionally while Multics is running), a new log segment is created in ring 4 to contain new messages. Experience has shown that these segments are typically short (average 6 pages on MIT service, 1-2 pages on CISL service). This
proliferation of small segments results in much page breakage.

3) Searching, adding, and date-deleting of messages in the ring 4 syserr log can be simplified with minor changes to log_util_.

IMPLICATIONS: The ring 4 syserr log will be more complete, will be more immune from crashes and bugs, will use less storage, and will require less code to manage. These changes will be fully upward compatible with existing ring 4 syserr logs.

DETAILED PROPOSAL: Make the following changes

perm_syserr_log.inc1.pl1 - Add the structure

dcl 1 psl_head aligned based,
  2 first_time fixed bin (71),
  2 last_time fixed bin (71);

first_time and last_time are the times of the first and last messages in the ring 4 log. This information is kept in >sci>perm_syserr_log>log_address_seg.

syserr_log_copy$init (hardcore) - Add a new parameter, the time of the last message already copied into ring 4. The ring 0 syserr log's last_copied parameter (used to decide when the ring 0 syserr log absolutely needs to be copied into ring 4) is set by this entry to the first message after that time. This resynchronizes the ring 0 and ring 4 logs at each answering service initialization.

hphcs$_copy_syserr_log_init - Change from 2 to 3 arguments.

syserr_log_man$ias_copy$init - Add code to obtain the time of the last syserr message copied (from the ring 4 log), and pass it to ring 0 via hphcs$_copy_syserr_log_init.

syserr_log_man$ias_copy$log - Replace code that automatically creates a new log segment each time the ring 0 log is copied with code to append messages to the end of the latest ring 4 log segment, and to create a new log segment only when the current one reaches 64K. Add code to maintain psl_head.first_time and psl_head.last_time.

syserr_log_man$strim - Add code to really delete over-aged messages instead of rethreading around them, to save storage.

log_util$create_log - Change interface to take as a parameter the length in words of a header data region where the caller may store header information about the log. Return a pointer to this header data region instead of a pointer to the base of the log addressing segment.

log_util - Change all entries taking a pointer to a log addressing segment to take a pointer to the header data region.

log_util$seek - Change the interface definition to simplify searching of the ring 4 log.
TITLE: Fix bug in copy_acl

AUTHOR: S. Herbst

-Coded in [X] PL/I [ ] ALM [ ] other
-explain in DETAILED PROPOSAL
-Planned for System MR
-Fixes Bug Number(s)
-Documented in MTB
-User/Operations-visible
-Interface change? [ ] yes [X] no
-Incompatible change? [ ] yes [X] no
-Performance: [ ] Better [X] Same
-Replaces MCR

Category (Check One)
Lib. Maint. Tools
Sys. Anal. Tools
Sys. Prog. Tools
355
BOS
Salvager
Ring Zero
Ring One
SysDaemon/Admin.
Runtime
User Cmd/Subr.

Expirees 04/27/76

DOCUMENTATION CHANGES

Document Specify One or More

SUMMARY:

Fix bug in copy_acl that causes an acl entry for *.SysDaemon.* to be added when copying the acl of a segment.
**TITLE:** Change mailbox\_update\_message\_index

**AUTHOR:** S. Herbst

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**Written** | 9/29/75  
**Status** | A 10/27/75  
**Expires** | 04/26/76

**Coded in:** FL/I

**Planned for System MR**

**Fixes Bug Number(s)**

**Documented in MTE**

**User/Operations-visible**

**Interface change?** yes

**Incompatible change?** no

**Performance:** Better

**Replaces MCR**

**Objections/Comments:**

**Use these headings:** Summary of Proposal, Reasons for Proposal, Implications, Detailed Proposal.

**SUMMARY:**

Change mailbox\_update\_message\_index to accept a length argument smaller than the length of the message being updated.

**REASONS:**

Messages are composed of blocks that may be scattered in the message segment. The current update\_message call requires rewriting the entire message, which for a long message can be time-consuming. The proposed feature makes it inexpensive to change the mail\_format header of a message, for example to turn on the has\_been\_read bit.
The caller must have read and delete extended access to the message segment.

REWRITING MESSAGES IN A QUEUE MESSAGE SEGMENT

Entry: message_segment_$update_message_index

message_segment_$update_message_file

This entry point is used to rewrite an existing message in a queue message segment.

Usage

declare message_segment_$update_message_index
entry (fixed bin, fixed bin(18), bit(72) aligned, ptr, fixed bin(35));

call message_segment_$update_message_index
(index, message_length, message_id, messagep, code);

or:

declare message_segment_$update_message_file
entry (char(*), char(*), fixed bin(18), bit(72) aligned, ptr, fixed bin(35));

call message_segment_$update_message_file
(dir_name, ent_name, message_length, message_id, messagep, code);

1. index Input
2. message_length Input
3. message_id Input

5-20 AN69
**TITLE:** RCP bug fixes  

**AUTHOR:** B. Silver

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<td>DOCUMENTATION CHANGES</td>
<td>Planned for System MR 3.0</td>
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**STATUS:** Written 09/29/75  
**DATE:** Expires 10/07/75

**SUMMARY:**

Fix bugs in RCP that:

1. fail to reset validation level when leaving ring 1.
2. crashes system when detaching an Entry Model Console.

**REASONS:**

Returning to a higher ring with the validation level set to 1 allows a user to violate ring 1 security.

Fixing the console bug will allow TOLTS console tests to be run.
**Multics Change Request**

**TITLE:** vfile bug fixes

**AUTHOR:** M. Asherman

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**Category (Check One):**

- **Lib. Maint. Tools**
- **Sys. Anal. Tools**
- **Sys. Prog. Tools**
- **Document**

**User/Operations-visible Interface change?**

- Yes [x] No

**Incompatible change?**

- Yes [x] No

**Performance:**

- Worse [ ] Better [ ] Same [ ]

- Replaces MCR

**User/Operations-visible BOS**

- Salvager
- Ring Zero
- Ring One
- SysDaemon/Admin.
- MOSN (Sect.)
- Runtime
- MPAM (Sect.)
- User Command/Subr.
- MSAM (Sect.)

**Objections/Comments:**

- Info Segs
- Other (Name)
- None (Reason)

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**SUMMARY:**

Fix four unreported bugs in vfile:

in indexed files -

1. false duplications may be introduced in large indices (generally >5000 entries);

2. keys sometimes garbled on overflow in files which have been converted from old to new versions;

3. total record length statistic in new and converted files may be incorrect.

in sequential files -

4. spurious end of file descriptors may exist in multi-segment files.

**IMPLICATIONS:**

If (1) or (2) has occurred, the file should be salvaged.

The other errors will be handled automatically.
Summary

An error in handling reference names can cause `iox_$attach_ioname` to find the wrong i/o module.

Detailed proposal

If `iox_$attach_ioname` is given a pathname `ioname` argument, it will attempt to initiate the segment with a reference name the same as the i/o module name. If however, the code returned is `error_table$_namedup` or `error_table$_segknown`, it is possible that some other segment remains initiated with this reference name. In this case, a subsequent call to `hcs$_make_ptr` will return a pointer into the wrong segment.

`iox_$attach_ioname` should be changed to terminate the reference name before attempting to initiate the segment. This is the only way it can be certain that the segment is initiated correctly.
**TITLE:** Eliminate inconsistencies in list command user interface

**AUTHOR:** T. Casey

**Category (Check One):**
- Lib. Maint. Tools
- Sys. Anal. Tools
- Sys. Prog. Tools
- Salvager
- Ring Zero
- Ring One
- SysDaemon/Admin.
- Runtime
- User Cmd/Subr.

**Planned for System:** MR 3.1

**Documentoation Changes:**
- MPM
- MPF (Vol, Sect.)
- Commands
- PLMS (AN #)
- MSGN (Sect.)
- MPAM (Sect.)
- MSAM (Sect.)

**Objections/Comments:**

Use these headings: Summary of Proposal, Reasons for Proposal, Implications, Detailed Proposal.

**SUMMARY:**

1. Add -link_path (-lp) control argument to allow user to say explicitly that link pathnames should be printed.

2. Add the count (ct) column to the set of columns that can be sorted on.

**REASONS:**

1. The draft documentation currently says:

   "There is no control argument to specify that link paths should be printed. They will be printed in all cases except the following..."

   That was a poor design decision. There is a control argument for every other column, in addition to the defaults that operate when the arguments are not given. The link path column should not be treated differently from all the others.

2. The count column is the only one that cannot be sorted on. Aside from consistency arguments, it is occasionally useful to be able to sort by count. It will put all the
multiply-named entries first in the list. This can be used to see the names of multiply-named entries after having listed the directory with the -primary argument, without having to watch the whole directory being listed again, or doing a status -nm on each multiply named entry.

**IMPLICATIONS:**

A more complete and consistent interface.

**DETAILED PROPOSAL:**

See attached excepts from MPM section
The following control arguments are used to specify which columns should be printed:

- *name, -nm* print the names column.
- *record, -rec* print the records column.
- *mode, -md* print the mode column.
- *date_time_used, -dtu* print the date-time used column.
- *date_time_modified, -dta* print the date-time modified column.
- *count, -ct* print the count column (which gives the total number of names, for multiply-named entries only).
- *link_path, -lp* print the link path column.

The link path column is never printed for branches, and the records, mode, and date-time used columns are never printed for links.

The default is to print the names, records, and mode columns for branches, and the names and link path columns for links. However, if the *-brief* control argument, or any of the control arguments corresponding to the default columns, are given, then the defaults are overridden, and only the names column, plus those columns selected explicitly by control arguments, will be printed.
The following control arguments specify the order in which entries will be printed, within each entry type:

-sort sort_key sort entries according to either name, records, mode, data_time_used, date_time_modified, or count, as specified by the sort_key, or by the default described below.

The sort_key can be one of the following keywords:

- name, nm sort entries by primary name.
- record, rec sort entries by records used (largest first).
- mode, md sort entries by mode.
- date_time_used, dtu sort entries by date_time_used (most recent first).
- date_time_modified, dtm sort entries by date_time_modified (most recent first).
- count, ct sort entries by number of names (most names first).

If sort_key is omitted, the default column on which to sort is determined as follows: if neither date is being printed, sort by primary name; if one of the dates is being printed, sort by that date; if both dates are being printed, sort by date-time modified.

Links can only be sorted by name or date-time modified. When sorting by any other column is specified, links will remain in the order in which they are found in the directory.

If -sort is not given, entries will be printed in the order in which they are found in the directory.

-reverse, -rv This argument is used to reverse the order in which entries are printed. If -sort is also given, the sort will be reversed. Otherwise entries will be printed in the reverse of the order in which they are found in the directory.
TITLE: Add -first argument to list command

AUTHOR: T. Casey

SUMMARY:

Add the control argument -first N (-ft N) to the list command, to allow users to specify the maximum number of entries of each type that will be printed. When this argument is used, the heading lines will contain the totals for all the entries that would have been printed if -first had not been given.

REASONS:

This is a straight-forward device to put a limit on the number of lines that will be printed by an invocation of the list command. It provides a clean way to accomplish the same thing as hitting QUIT after N lines have been printed. It is cheaper than hitting QUIT, and there are circumstances under which hitting QUIT is undesirable because of side affects other than cost. Other methods for limiting the amount of output, such as starnames or from-to dates are not suitable when one's object is to avoid tying up a terminal with a lot of printing, since one can only guess how many entries will match starnames or fall within given dates.

DETAILED PROPOSAL:

See attached except from MPM section.
-first N, -ft : list only the first N entries (after sorting, if specified) of each entry type being listed. The heading lines will contain the totals figures for all entries that would have been listed, if -first had not been given. This argument is useful to avoid tying up a terminal by listing a large directory, when only the first few entries are of interest.
**TITLE:** Fix ring alarm bug  
**AUTHOR:** B. Silver

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- **Coded in:** [X] PL/1 [X] ALM [ ] other-
- **explain in DETAILLED PROPOSAL**
- **Planned for System MR**
- **Fixes Bug Number(s)**
- **Documented in MDB**
- **User/Operations-visible Interface change?** [X] yes [ ] no
- **Incompatible change?** [ ] yes [X] no
- **Performance:** [X] Better [ ] Same
- **Worse**
- **Replaces MCR**

**Objections/Comments:**

- **Document**
  - Specify One or More
  - Document
  - Specify One or More
  - Info Segs
  - Other (Name)
  - None (Reason) [X]

Use these headings: Summary of Proposal, Reasons for Proposal, Implications, Detailed Proposal.

**SUMMARY:**

Fix a bug in the ring alarm mechanism that prevents it from successfully resetting the validation level.

**REASONS:**

The ring alarm mechanism is necessary to prevent returning to an outer ring with the validation level set to the lower ring. This can happen if an inner ring sets the validation level and then fails to reset it.

**IMPLICATIONS:**

Unwanted ring alarm faults will be eliminated. Bugs involving the setting of the validation level that are introduced into rings 0 and 1 will not result in a security hole. The ring alarm mechanism also protects user ring subsystems that operate on behalf of higher rings.

**DETAILED PROPOSAL:**

Change level and ring alarm so that when setting the validation level the ring alarm register will be set to the new validation level plus one. It is currently set to the validation level.
TITLE: Fix bug in reconfigure_rsc

AUTHOR: Bill Silver

Category (Check One)

- Lib. Maint. Tools
- Sys. Anal. Tools
- Sys. Prog. Tools
- 355

Document Specify One or More

- Document
- Specify One or More

DOCUMENTATION CHANGES

- Lib. Maint. Tools
- Sys. Anal. Tools
- Sys. Prog. Tools
- 355

User/Operations-visible

- Yes
- No

- Salvager
- MPM (Vol, Sect.)
- Ring Zero
- PLMS (AN #)
- Ring One
- MOSN (Sect.)
- SysDaemon/Admin.
- MPAM (Sect.)
- Runtime
- MSAM (Sect.)
- User Cmd/Subr.

Objections/Comments:

- Info Segs
- Other (Name)
- None (Reason) X

Use these headings: Summary of Proposal, Reasons for Proposal, Implications, Detailed Proposal.

SUMMARY:

Delete messages typed by deldev and adddev operator commands. These messages say that a device is being added or deleted.

REASONS:

The user ring command program cannot know whether or not the delete or add operation was successful. It currently types a message in any case. If the operation is successful, RCP will type a similar message on the operator's console and thus make the message typed by the command redundant. If the add or delete operation was not successful then the message typed by the command is erroneous.

DETAILED PROPOSAL:

Modify rcp_reconfigure so that it no longer types a message saying that it is adding or deleting a device.

Note: This change has been made in Phoenix and is part of MR3.0
### Multics Change Request

**Title:** Change abbrev\_set\_cp to abbrev\_$set\_cp

**Author:** Steve Herbst

**Written:** 09/26/75

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**Code in:** √ PL/I  □ AIM  □ other

- **Detailed Proposal:**
  - Planned for System MR
  - Fixes Bug Number(s) 355
  - Documented in MTR
  - Coded in PL/I
  - Written 09/26/75
  - Other Category

**Document**

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<th>Change</th>
<th>Specify One or More</th>
</tr>
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<tbody>
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<td>√</td>
<td>Document</td>
</tr>
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<td></td>
<td>Specify One or More</td>
</tr>
</tbody>
</table>

- **User/Operations-visible Interface change?** √ yes  no
- **Performance:** √ Better  □ Same  □ Worse
- **Replaces MCR**

**Objections/Comments:**

None (Reason) PIM 67 ok

Use these headings: Summary of Proposal, Reasons for Proposal, Implications, Detailed Proposal.

**Summary:**

Change the name of entry point abbrev\_set\_cp to abbrev\_$set\_cp in conformance to standard.

**Reasons:**

There was no reason for the trailing underscore on this recently added entry point.

**Implications:**

Not currently called by the system.

A correction to the 3.0 SRB should be issued. (This entry was included in the SRB; it should not have been included.)