

TO: Distribution
FROM: Grace Ackerman-Lewis
DATE: July 7, 1975
SUBJECT: Installation of MSS 25.8

The hardcore system MSS 25.8 was installed on Thursday, June 26, 1975 at 08:57. This system contains: a fix for a bug in `expand_path_`; a change to copy `syserr` log from ring 0 into the hierarchy as necessary to maintain a full history of `syserr` messages; a change to improve the speed of PL/1 `record_directed` I/O on keyed files and for delete statements; fixes for some bugs in `record_io_`; a change to use the new `abs_io_DIM` for absentee jobs; implementation of the fast reloader; a change to propagate for a performance gain and the implementation of `iox_$move_attach`; a fix for a bug in `trap_caller_caller_` which did not modify the machine conditions correctly. The system libraries were updated on Thursday, June 26, 1975 at 17:52.

I. System Change Log

<u>Chng</u>	<u>MCR</u>	<u>Change</u>
# 1436	1164	Improve the speed of PL/1 record I/O on keyed files and for delete statements. Fix some bugs in the installed <code>record_io_</code> .
# 1437	1037, 1038, 1039, 1054, 1141, 1133, 11	Implement fast reloader which uses new <code>hphcs_\$rotate_tape_drives</code> , <code>pioi_\$set_max_buffer_len</code> , <code>bound_rtape_</code> , and <code>hphcs_\$set_for_reloader</code> .
# 1438	1104, 1105	Change propagate for a performance gain and implement <code>iox_\$move_attach</code> .
# 1439	461, 820, 861, 980	Change <code>syserr</code> log to be copied from ring0 into the hierarchy as necessary to maintain a full history of <code>syserr</code> messages. Routines for selective auditing of protection events will be installed, but will not be enabled.

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I. System Change Log (continued)

Chng MCRChange

- # 1441 --- Fix a bug in `expand_path_` which causes random faults depending on stack history.
- # 1442 1239 Fix a bug in `trap_caller_caller_` which did not modify the machine conditions correctly. This caused programs with `trap-before-links` traps to fail and often terminate the process.

II. Segment Change Log

<u>Segment Name</u>	<u>Bound Segment</u>	<u>Change #</u>
<code>absentee_real_init_admin_.pl1</code>	<code>bound_command_loop_</code>	R 1437
<code>admin_gate_.mexp</code>	-	R 1439
<code>append.pl1</code>	<code>bound_file_system</code>	R 1437
<code>audit_gate_.mexp</code>	-	A 1439
<code>backup_load.pl1</code>	<code>bound_reloader_</code>	R 1437
<code>backup_load_dir_list.pl1</code>	<code>bound_reloader_</code>	R 1437
<code>bk_arg_reader_.pl1</code>	<code>bound_reloader_</code>	R 1437
<code>bk_input.pl1</code>	<code>bound_reloader_</code>	R 1437
<code>bk_ss_.alm</code>	<code>bound_reloader_</code>	R 1437
<code>dir_control_error.pl1</code>	<code>bound_system_faults</code>	R 1439
<code>expand_path_.pl1</code>	-	R 1441
<code>fim.mexp</code>	-	R 1439
<code>find_ioch.pl1</code>	<code>bound_iox_</code>	R 1438
<code>hcs_.mexp</code>	-	R 1437
<code>hphcs_.mexp</code>	-	R 1437
<code>illegal_procedure.pl1</code>	<code>bound_error_wired</code>	R 1439
<code>phcs_.mexp</code>	-	R 1439
<code>propagate.pl1</code>	<code>bound_iox_</code>	R 1439
<code>protection_audit_.pl1</code>	<code>bound_system_faults</code>	R 1439
<code>record_io_.alm</code>	<code>bound_sss_wired_</code>	R 1436
<code>reload.pl1</code>	<code>bound_reloader_</code>	R 1437
<code>rtape_.alm</code>	<code>bound_rtape_</code>	A 1437
<code>rtape_attach_.pl1</code>	<code>bound_rtape_</code>	A 1437
<code>rtape_checksum_.alm</code>	<code>bound_rtape_</code>	A 1437
<code>rtape_detach_.pl1</code>	<code>bound_rtape_</code>	A 1437
<code>rtape_dim_data_.alm</code>	<code>bound_rtape_</code>	A 1437
<code>rtape_labeler_.pl1</code>	<code>bound_rtape_</code>	A 1437
<code>rtape_read_.pl1</code>	<code>bound_rtape_</code>	A 1437
<code>rtape_util_.pl1</code>	<code>bound_rtape_</code>	A 1437
<code>rtape_write_.pl1</code>	<code>bound_rtape_</code>	A 1437
<code>rtbcm_.pl1</code>	<code>bound_rtape_</code>	A 1437
<code>rtbcm_status_.pl1</code>	<code>bound_rtape_</code>	A 1437

II. Segment Change Log (continued)

<u>Segment Name</u>	<u>Bound Segment</u>	<u>Change #</u>
set.pl1	bound_file_system	R 1437
syserr_log_copy.pl1	bound_file_system	A 1439
syserr_log_init.pl1	bound_temp_1	R 1439
syserr_logger.pl1	bound_error_wired	R 1439
syserr_real.pl1	bound_error_wired	R 1439
trap_caller_caller_.pl1	bound_system_faults	R 1442
<u>Include Files</u>		
audit_flags.incl.alm		A 1439
bk_ss_.incl.pl1		R 1437
reload_set_info.incl.pl1		A 1437
rtbcm_info.incl.pl1		A 1437
rtseg.incl.pl1		A 1437
syserr_log.incl.pl1		R 1439
<u>Bindfiles</u>		
bound_command_loop_.bind		R 1437
bound_error_wired.bind		R 1439
bound_file_system.bind		R 1439, 1437
bound_reloader_.bind		R 1437
bound_rtape_.bind		A 1437
bound_system_faults.bind		R 1439, 1442

III. Bound Segment Change Log

<u>Bound Segment</u>	<u>Change</u>
bound_rtape_	added: rtdcm_ rtdcm_status_ rtape_ rtape_checksum_ rtape_read_ rtape_write_ rtape_labeler_ rtape_attach_ rtape_detach_ rtape_util_ rtape_dim_data_
bound_sss_wired_	replaced: record_io_
bound_system_faults	replaced: trap_caller_caller_ dir_control_error_ protection_audit_

III. Bound Segment Change Log (continued)

<u>Bound Segment</u>	<u>Change</u>
bound_temp_1	replaced: syserr_log_init
bound_command_loop_	replaced: absentee_real_init_admin_
bound_error_wired	replaced: illegal_procedure syserr_logger syserr_real
bound_file_system	added: syserr_log_copy replaced: append set
bound_reloader_	replaced: backup_load backup_load_dir_list bk_ss_ bk_input reload bk_arg_reader_
bound_iox_	replaced: find_ioch propagate

IV. Header Change Log

The hardcore header was changed to insert the entry bound_rtape_ before operator_pointers_, to insert the entry audit_gate_ before bound_355_wired and to add the name tc_shutdown to syserr_log_copy.