

TO: Distribution
FROM: Peter B. Kelley
DATE: May 13, 1976
SUBJECT: Installation of MSS 28.4

The hardcore system MSS 28.4 was installed on Monday, April 26, 1976. This system includes the new volume registration, virtual mounting, and master directory control. The salvager invocation has been made automatic. Bugs have been fixed in salvager, initialization, IO disk, ESD and reload. Backup has been sped up. About 35 hardcore modules not previously converted to EIS PL/I were recompiled with the EIS compiler. Bugs were also fixed in `system_control_`, `ntape_`, and the restriction of absentee arguments to 168 characters or less was removed.

I. System Change Log

Chng MCR

Change

- # 1585 1635,1636,1721,1707,1640
New features including: volume registration, virtual mounting, master directory control. The salvager invocation has been made automatic. Bugs have been fixed in salvager, initialization, IO disk, ESD, and reload.
- # 1586 1730 Many segments were re-compiled to eliminate non EIS modules from the system.
- # 1587 1722 Remove the restriction of absentee arguments to 168 characters or less.
- # 1588 1578 Correct the eof detection in `ntape_`, and also fix `record_long` on read bug.
- # 1589 1694 Fixes test mode to work in `system_control_`, and adds static handlers to the Initializer process.

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II. Segment Change Log

<u>Segment Name</u>	<u>Bound Segment</u>	<u>Change #</u>
absentee_real_init_admin.pl1	bound_command_loop_	R 1587
accept_fs_disk.pl1	bound_disk_util	R 1585
activate.pl1	bound_system_faults	R 1585
add_memory.pl1	bound_process_creation	R 1586
admin_gate_.mexp	-	R 1585
append.pl1	bound_file_system	R 1585
backup_load.pl1	bound_reloader_	R 1585
backup_load_dir_list.pl1	bound_reloader_	R 1585
backup_map_.pl1	bound_reloader_	R 1585
bk_arg_reader_.pl1	bound_reloader_	R 1585
bk_ss_.alm	bound_reloader_	R 1585
check_mdc_.pl1	bound_mdir_control	A 1585
check_vtoce_branch.pl1	bound_salvager	R 1585
clock_init.pl1	bound_temp_1	R 1586
crawlout_default_handler_.pl1	bound_sss_active_	R 1586
create_ips_mask_.pl1	bound_lpc_	A 1585
create_vtoce.pl1	bound_vtoc_man	R 1585
cv_bin_.pl1	bound_sss_active_	R 1586
date_name_.pl1	bound_sss_active_	R 1586
delentry.pl1	bound_file_system	R 1585
delete_pd_records.pl1	bound_process_creation	R 1585
demand_deactivate.pl1	bound_system_faults	A 1585
dir_dump.pl1	bound_salvager	R 1585
disk_control.pl1	bound_page_control	R 1585
disk_table_.pl1	-	R 1585
dstm_.pl1	bound_tc_wired	R 1586
error_table_.et	-	R 1585
fast_hc_lpc.pl1	bound_tty_active	R 1586
find_pathname_.pl1	bound_error_handlers_	R 1586
free_unused_pages.pl1	bound_init_1	R 1586
fs_get.pl1	bound_system_faults	R 1585
fs_move.pl1	bound_file_system	R 1586
fsout_vol.pl1	bound_disk_util_wired	R 1585
get_aste.pl1	bound_system_faults	R 1585
get_page_trace.pl1	bound_file_system	R 1586
get_ppr_.pl1	bound_error_handlers_	R 1586
get_system_free_area_.pl1	bound_fsm_	R 1586
hcs_.mexp	-	R 1585
hdx.pl1	-	A 1585
hphcs_.mexp	-	R 1585
hvr_.pl1	-	A 1585
imp_status_wired.pl1	bound_iom_wired	R 1586
imp_thread.pl1	bound_imp_status	R 1586
imp_wakeup.pl1	bound_imp_status	R 1586

II. Segment Change Log (continued)

<u>Segment Name</u>	<u>Bound Segment</u>	<u>Change #</u>
init_collections.pl1	bound_init_1	R 1585
init_disk_pack.pl1	-	R 1585
init_ivt.pl1	bound_temp_2	A 1585
init_pvt.pl1	bound_temp_1	R 1585
initialize_kst.pl1	bound_process_creation	R 1585
initializer_gate.mexp	-	R 1585
initializer_mdc.mexp	-	A 1585
initlate.pl1	bound_system_faults	R 1585
ios_signal.pl1	bound_command_loop_	R 1586
ipc.pl1	bound_command_loop_	R 1586
ipcprm.pl1	bound_ipc_	R 1586
linkage_error.pl1	bound_error_handlers_	R 1586
load_system.pl1	bound_init_2	R 1586
load_vol_map.pl1	bound_disk_util	R 1585
logical_volume_manager.pl1	bound_disk_util	A 1585
make_seg.pl1	bound_file_system	R 1586
master_dir_control.pl1	-	D 1585
match_star_name.pl1	bound_sss_active_	R 1586
mdc.mexp	-	R 1585
mdc_create.pl1	bound_mdir_control	A 1585
mdc_lock.pl1	bound_mdir_control	A 1585
mdc_priv.mexp	-	A 1585
mdc_repair.pl1	bound_mdir_control	A 1585
mdc_set.pl1	bound_mdir_control	A 1585
mdc_util.pl1	bound_mdir_control	A 1585
mdcs_util.pl1	bound_mdir_control	A 1585
mdx.pl1	-	A 1585
meter_oc_log.pl1	bound_error_wired	R 1586
mountedp.pl1	bound_system_faults	A 1585
ntape_attach.pl1	bound_lox_	R 1588
oc_trans_output.pl1	bound_sss_wired_	R 1586
pc_trace.pl1.pl1	bound_page_control	R 1586
phcs.mexp	-	R 1585
prds_init.pl1	bound_active_1	R 1585
print_ready_message.pl1	bound_command_loop_	R 1585
private_logical_volume.pl1	bound_system_faults	A 1585
quota.pl1	bound_file_system	R 1585
rcp_device_info.pl1	bound_rcp_	R 1585
rcp_disk.pl1	bound_rcp_	R 1585
rcp_init.pl1	bound_lo_init	R 1585
rcp_init_disk_sharing.pl1	bound_lo_init	R 1585
rcp_tape.pl1	bound_rcp_	R 1585
read_disk.pl1	bound_disk_util_wired	R 1585
release.pl1	bound_command_loop_	R 1586
salv_caller.pl1	-	A 1585
salv_check_map.pl1	bound_salvager	R 1585
salv_data.alm	-	D 1585
salv_data.cds	-	A 1585

II. Segment Change Log (continued)

Segment Name	Bound Segment	Change #
salv_err_msg.pl1	bound_salvager	R 1585
salvage_directory.pl1	bound_salvager	R 1585
salvage_entry.pl1	bound_salvager	R 1585
salvage_pv.pl1	bound_salvager	R 1585
salvager.pl1	bound_salvager	R 1585
sc_init.pl1	bound_system_control_	R 1589
sc_parse.pl1	bound_system_control_	R 1585
sc_signal_handler.pl1	bound_system_control_	R 1589
seg_fault.pl1	bound_system_faults	R 1585
segment_loader.pl1	bound_init_1	R 1586
segment_mover.pl1	bound_system_faults	R 1585
set.pl1	bound_file_system	R 1585
set_alarm_timer.pl1	bound_tc_wired	R 1586
set_kst_attributes.pl1	bound_system_faults	A 1585
set_lock.pl1	bound_ipc_	A 1585
status.pl1	bound_system_faults	R 1585
system_control.pl1	bound_system_control_	R 1589
system_startup.pl1	-	R 1585
system_trace.pl1	bound_lom_wired	R 1586
terminate.pl1	bound_system_faults	R 1585
timer_manager.pl1	bound_command_loop_	R 1586
uid_path_util.pl1	bound_system_faults	A 1585
unique_bits.pl1	bound_sss_active_	R 1586
unique_chars.pl1	bound_sss_active_	R 1586
unwinder.pl1	bound_sss_active_	R 1586
update_kste_access.pl1	bound_system_faults	R 1585
utility_print.pl1	bound_util_print	R 1585
verify_label.pl1	-	R 1585

Include Files

aste.incl.alm	R 1585
aste.incl.pl1	R 1585
backup_preamble_header.incl.pl1	R 1585
bk_ss.incl.pl1	R 1585
create_branch_info.incl.pl1	R 1585
dir_entry.incl.pl1	R 1585
disk_table.incl.pl1	R 1585
diskdcl.incl.pl1	R 1585
fs_dev_types.incl.pl1	R 1585
fs_vol_label.incl.pl1	R 1585
fsdct.incl.alm	D 1585
fsdct.incl.pl1	R 1585
fsdisk_errcodes.incl.pl1	R 1585
fsdisk_errors.incl.pl1	R 1585
kst.incl.pl1	R 1585
kst_attributes.incl.pl1	A 1585
lvt.incl.pl1	A 1585

II. Segment Change Log (continued)

<u>Segment Name</u>	<u>Bound Segment</u>	<u>Change #</u>
mdc_data.incl.pl1		A 1585
mdcs.incl.pl1		A 1585
pvt.incl.aim		R 1585
pvt.incl.pl1		R 1585
rcodes.incl.pl1		R 1585
reload_set_info.incl.pl1		R 1585
salv_data.incl.pl1		R 1585
salv_options.incl.pl1		A 1585
sst.incl.pl1		R 1585
status_info.incl.pl1		R 1585
system_control_commands.incl.pl1		R 1585
volume_registration.incl.pl1		A 1585

Bindfiles

bound_disk_util.bind	R 1585
bound_disk_util_wired.bind	R 1585
bound_file_system.bind	R 1585
bound_lpc_.bind	R 1585
bound_mdir_control.bind	A 1585
bound_page_control.bind	R 1585
bound_process_creation.bind	R 1585
bound_salvager.bind	R 1585
bound_system_faults.bind	R 1585
bound_temp_2.bind	R 1585

III. Bound Segment Change Log

<u>Bound Segment</u>	<u>Change</u>
bound_active_1	replaced: prds_init
bound_command_loop_	replaced: lpc_ print_ready_message_ release absentee_real_init_admin_ timer_manager_ ios_signal_
bound_disk_util	added: logical_volume_manager replaced: load_vol_map accept_fs_disk
bound_disk_util_wired	replaced: read_disk fsout_vol

III. Bound Segment Change Log (continued)

<u>Bound Segment</u>	<u>Change</u>
bound_error_handlers_	replaced: get_ppr_ linkage_error_ find_pathname_
bound_error_wired	replaced: meter_oc_log_
bound_file_system	replaced: delentry quota append make_seg set fs_move get_page_trace
bound_fsim_	replaced: get_system_free_area_
bound_imp_status	replaced: imp_wakeup imp_thread
bound_init_1	replaced: free_unused_pages init_collections segment_loader
bound_init_2	replaced: load_system
bound_io_init	replaced: rcp_init rcp_init_disk_sharing
bound_iom_wired	replaced: imp_status_wired system_trace
bound_lox_	replaced: ntape_attach
bound_ipc_	added: set_lock_ create_ips_mask_ replaced: ipcprm_
bound_mair_control	added: mdc_util_ mdc_create_ mdc_set_ mdc_repair_ check_mdc_ mdc_lock_ mdc_util_
bound_page_control	replaced: disk_control pc_trace_pl1

III. Bound Segment Change Log (continued)

<u>Bound Segment</u>	<u>Change</u>
bound_process_creation	replaced: initialize_kst add_memory delete_po_records
bound_rcp_	replaced: rcp_tape_ rcp_disk_ rcp_device_info_
bound_reloader_	replaced: backup_load backup_load_dir_list backup_map_ bk_arg_reader_ bk_ss_
bound_salvager	replaced: salvage_entry salv_check_map salvage_directory salv_err_msg dir_dump check_vfoce_branch salvager salvage_pv
bound_sss_active_	replaced: crawlout_default_handler_ unwinder_ cv_bin_ unique_bits_ unique_chars_ date_name_ match_star_name_
bound_sss_wired_	replaced: oc_trans_output_
bound_system_control_	replaced: system_control_ sc_signal_handler_ sc_parse_ sc_init_
bound_system_faults	added: private_logical_volume set_kst_attributes mountedp demand_deactivate uid_path_util replaced: fs_get update_kste_access seg_fault activate initiate

III. Bound Segment Change Log (continued)

<u>Bound Segment</u>	<u>Change</u>	
		status_ terminate_ get_aste segment_#over
bound_tc_wired	replaced:	dstm_ set_alarm_timer
bound_temp_1	replaced:	clock_init init_pvt
bound_temp_2	added:	init_ivt
bound_tty_active	replaced:	fast_hc_ipc
bound_util_print	replaced:	utility_print
bound_vtoc_man	replaced:	create_vtoce

IV. Header Change Log

The hardcore header was changed to add the fabricate segments ivt and mdc_data. Also added were the segment bound_mdir_control, and the gates initializer_mdc_ and mdc_priv_.