

TO: Distribution  
FROM: Peter B. Kelley  
DATE: July 23, 1976  
SUBJECT: Installation of MSS 28.10

The hardcore system 28.10 was installed at 9:17 on Thurs., July 22, 1976. This system includes: a new disk DIM with better error recovery; a realtime deadline scheduler; fixes for online salvager problems; fixes for bugs in volume map; cleans up volume initialization; removes >unb from the initializer's search rules; adds partition rebuilding; and, adds a trap for recent trailer problems.

### I. System Change Log

<u>Chng MCR</u>	<u>Change</u>
# 1629 1843	Adds the realtime/deadline scheduler.
# 1629 1883	Provides better handling when a disk drive drops offline.
# 1629 1927	Switches salvager output to Operator's console if unable to successfully initialize any printer after n minutes, where n is specified by "PDLY n" on the SALV config. card.
# 1629 1910	Adds "alarm" order to ocdim_ for use by the message coordinator.
# 1629 1928	Rearranges the structure of a directory when it is rebuilt.
# 1629 1929	Provides for the rebuilding of disk packs in order to add/delete partitions.
# 1629 1987	Causes the segment online_salvager_output to appear in the global hardcore address space.
# 1629 1998	Reorganizes disk pack initialization and fixes bugs.
# 1629 2010	Fixes bugs in load_vol_map
# 1629 2011	Sets traps for system trailer segment problems.

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## II. Segment Change Log

<u>Segment Name</u>	<u>Bound Segment</u>	
act_proc.pl1	bound_process_creation	R 1629
deactivate_segs.pl1	bound_process_creation	R 1629
disk_control.pl1	bound_page_control	R 1629
disk_error_data.alm	bound_page_control	D 1629
disk_error_data.cds	bound_page_control	A 1629
disk_init.pl1	bound_temp_1	R 1629
disk_rebuild.pl1	bound_salvager	A 1629
disk_rebuild_caller.pl1	bound_salv_callers	A 1629
disk_table.pl1	-	R 1629
hphcs_.mexp	-	R 1629
init_branches.pl1	bound_init_2	R 1629
init_disk_pack_.pl1	-	R 1629
init_empty_root.pl1	bound_temp_1	R 1629
init_vol_header_.pl1	-	A 1629
initializer_gate_.mexp	-	R 1629
iol_usurp_channels.pl1	bound_lom_active	R 1629
load_vol_map.pl1	bound_disk_util	R 1629
ocdcm_.pl1	bound_error_wired	R 1629
ocdim_.pl1	bound_oc_	R 1629
on_line_salvager.pl1	bound_salvager	R 1629
pds.alm	-	R 1629
pxss.alm	-	R 1629
salv_caller.pl1	-	D 1629
salv_caller.pl1	bound_salv_callers	A 1629
salv_data	-	R 1629
salv_print_online.pl1	bound_salvager	R 1629
salvage_directory.pl1	bound_salvager	R 1629
salvage_entry.pl1	bound_salvager	R 1629
salvage_pv.pl1	bound_salvager	R 1629
salvager.pl1	bound_salvager	R 1629
sc_init_.pl1	bound_system_control_	R 1629
seg_fault.pl1	bound_system_faults	R 1629
sys_info.alm	-	R 1629
system_startup_.pl1	-	R 1629
tc.pl1	bound_process_creation	R 1629
tc_data.alm	-	R 1629
tc_init.pl1	bound_init_2	R 1629
utility_print.pl1	bound_util_print	R 1629
vm_vio.pl1	bound_salvager	R 1629

## II. Segment Change Log (continued)

Bind Segments

bound_page_control.bind	R 1629
bound_process_creation.bind	R 1629
bound_salv_callers.bind	A 1629
bound_salvager.bind	R 1629
bound_sss_wired.bind	R 1629

Include Segment

apte.incl.alm	R 1629
apte.incl.pl1	R 1629
disk_error_interp.incl.pl1	A 1629
disk_pack.incl.pl1	R 1629
dskdcl.incl.pl1	R 1629
error_interp.incl.pl1	D 1629
salv_data.incl.pl1	R 1629
tc_meters.incl.alm	R 1629
tcm.incl.pl1	R 1629
wcte.incl.alm	R 1629
work_class_info.incl.pl1	R 1629

## III. Bound Segment Change Log

<u>Bound Segment</u>	<u>Change</u>
bound_disk_util	replaced: load_vol_map
bound_init_2	replaced: tc_init init_branches
bound_iom_active	replaced: iol_usurp_channels
bound_page_control	replaced: disk_control disk_error_data
bound_process_creation	replaced: tc act_proc deactivate_segs
bound_salv_callers	added: salv_caller disk_rebuild_caller

## III. Bound Segment Change Log (continued)

<u>Bound Segment</u>	<u>Change</u>
bound_salvager	added: disk_rebuild replaced: salvage_entry salvage_directory salv_print_online salvager salvage_pv vm_vio on_line_salvager
bound_system_control_	replaced: sc_init_
bound_system_faults	replaced: seg_fault
bound_temp_1	replaced: disk_init init_empty_root
bound_util_print	replaced: utility_print
bound_error_wired	replaced: oc dcm_
bound_oc_	replaced: oc dim_