TO: Distribution

FROM: George T. Williams

DATE: August 3, 1977

SUBJECT: Installation of MSS 31.10

I.   SYSTEM CHANGE LOG

MCR MODIFICATIONS FOR MSS 31-10

2618 Installs tools to trace machine conditions. The command
     mc_trace implements a Machine Condition trace or snapshot
     facility.

2751 Fix race condition in IOI. Provides a simple interlock for
     sensitive operations in IOI (such as a connect) which must
     not take place at the same time as a force detach.

2759 Delete the obsolete hold (hd) command.

2467 Adds add_suffix entrypoint to expand_pathname_ and
     absolute_pathname_ The subroutine expands a
     relative/absolute pathname then adds a specified suffix if
     the suffix is not already present.

2763 Prevent a loop in the directory salvager.

2716 Improve hardcore binary messages. The calling sequence to
     syserr$binary has been changed by replacing the binary data
     block size with a message format number.

2718 Modifies the syserr calls which indicate that a segment has
     been damaged to be syserr$binary calls and place unambiguous
     identification of the segment in the binary log.

2699 Stop sequestering failing operations in Disk Dim.

9999 Fixes a coding bug in create_vtoce which could crash on disk
     error.

9999 Fixes a calling sequence bug in the KST garbage-collector.

I.   SYSTEM CHANGE LOG (continued)

MCR MODIFICATION

2825 Fixes a problem in the updating of Time-page-product for a
     deleted directory.

2761 Puts an AST unlock trap in dir-unlock code. This checks if
     the AST is locked to a process at the time it attempts to
     unlock a directory.

2781 Force VTOCE update on DIRW unlocks when needed. Causes a
     VTOCE update to be performed ona directory at unlock time if
     the file map of the directory has changed (e.g., a page has
     been grown) if in 'DIRW' (directory forcewrite)mode.

2782 Changes virgin disk pack reading from rcp 'priv' to 'sys'.

II.   SEGMENT CHANGE LOG

SEGMENT NAME		BOUND SEGMENT
absolute_pathname_.pl1	A	bound_expand_path_
create_vtoce.pl1	R	bound_vtoc_man
delete_vtoce.pl1	R	bound_vtoc_man
disk_control.pl1	R	bound_page_control
expand_pathname_.pl1	R	bound_expand_path_
fim_util.alm	R	bound_interceptors
free_store.alm	R	bound_page_control
garbage_collect_kst.pl1	R	bound_system_faults
hardcore.header	R	-
hardware_fault.pl1	R	bound_error_active
ii.alm	R	bound_interceptors
ioi_assign.pl1	R	bound_iom_active
ioi_assign_dte.pl1	R	bound_iom_active
ioi_check.pl1	D	bound_iom_active
ioi_connect.pl1	R	bound_iom_active
ioi_get_special_status.pl1	R	bound_iom_active
ioi_log_status.pl1	R	bound_iom_wired
ioi_set.pl1	R	bound_iom_active
ioi_suspend_devices.pl1	R	bound_iom_active
ioi_unassign.pl1	A	bound_iom_active
ioi_validate.pl1	A	bound_iom_active
ioi_workspace.pl1	R	bound_iom_active
lock.pl1	R	bound_system_faults
mdc_repair_.pl1	R	bound_mdir_control
mos_memory_check.pl1	R	bound_error_wired
page_error.alm	R	bound_page_control
page_fault.alm	R	bound_page_control
pc.pl1	R	bound_page_control
pds	R	-

II. SEGMENT CHANGE LOG (continued)

SEGMENT NAME		BOUND SEGMENT
phcs_.alm	R	-
rcp_disk_.pll	R	bound_rcp_
release.pll	R	bound_command_loop_
salv_dir_checker_.pll	R	bound_salvager
salvage_pv.pll	R	bound_salvager
sst_seg	R	-
syserr_real.pll	R	bound_error_wired
terminate_.pll	R	bound_system_faults
trace_mc.pll	A	bound_hc_tuning
validate_call_.alm	A	bound_iom_active
vtoc_man.pll	R	bound_vtoc_man
wired_fim.alm	R	bound_interceptors

BIND SEGMENTS

bound_command_loop_.bind	R
bound_expand_path_.bind	R
bound_hc_tuning.bind	R

INCLUDE SEGMENTS

ioi_data.incl.pll	R
mc_trace_buf.incl.pll	A
mctseg.incl.alm	A
segdamage_msg.incl.pll	A
sst.incl.pll	R
syserr_binary_def.incl.alm	A
syserr_binary_def.incl.pll	A
syserr_data.incl.pll	R
syserr_log.incl.pll	R
syserr_message.incl.pll	R