

TO: Distribution
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SUBJECT: Installation of MSS 32.2

I. SYSTEM CHANGE LOG

MCR MODIFICATIONS FOR 32.2

- 2873 Add the capability to MCS of supporting six (6) new line types: 3 synchronous and 3 asynchronous. Sites will supply their own control tables.
- 2793 Two ring zero routines and an include file have been modified to incorporate changes to:
1. implement the ring 0 portion of the new 'retpms' op block;
 2. force a g115 output block to remain intact throughout its journey to the fnp from the g115_dim.
- 2948 Modifies the fnp patching mechanism to write data from the dia to a temporary buffer. Once the data is transferred, FNP software will move it to its final destination.
- 2868 Restore two (2) error table entries that had been inadvertently deleted.
- 2921 Add two (2) entries to the error_table_.
- 2857 Reclassify all master directory control segments as system segments when they are created.
- 2860 Fixes two (2) master directory control bugs:
1. refuse to delete a logical volume registration if there are still master directories on the volume;
 2. allow an empty master directory to be deleted even if the volume registration for its volume no longer exists.
- 2845 Provide ways of turning on a segment's perprocess_static_switch and turn it on in segments containing the procedures listed in MTB 330 plus any others that show up when testing run units.

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I. SYSTEM CHANGE LOG (continued)

MCR MODIFICATION

- 2961 Modify the old backup to use tape_mult. Also have bound_tape moved to the >tools directory.
- 2912 Modify the tape DCM (TDCM) to allow reading and writing records longer than 4096 words (new limit is 45056 words).
- 2913 Rewrite of tape_mult_read using a greatly simplified algorithm affording greater speed and better error recovery.
- 2970 Fix a number of hardcore programs that would not recompile with V2PL1 compiler.
- 2949 Output PD-active bit for any PD reconfig.
- 2882 When disks go offline they will no longer cause page_fault signal. Causes processes which encounter page_fault_error status (failure to read a page in) to be made to wait on an event which will be notified when a disk is determined to be operative again. This will cause processes to hang in ring zero, non-quittably, in cases where the error page_fault_error was signaled in the faulting ring.

II. SEGMENT CHANGE LOG

SEGMENT NAME	BOUND SEGMENT
bk_input.pll	R bound_reloader
create_ips_mask .pll	R bound_ipc
create_vtoce.pll	R bound_vtoce_man
deactivate.pll	R bound_system_faults
delete_pd_records.pll	R bound_hc_reconfig
demount_pv.pll	R bound_disk_util
device_control.alm	R bound_page_control
discard_attach.pll	R bound_command_loop
disk_control.pll	R bound_page_control
dn355.pll	R bound_355_wired
dn355_messages.alm	R bound_355_wired
error_table.alm	R -
evict_page.alm	R bound_page_control
flagbox_mgr.pll	R bound_active_l
get_ast.pll	R bound_system_faults
hardcore.header	R -
hdx.pll	R bound_mdxdx
load_fnp .pll	R bound_mcs_init
makeknown .pll	R bound_system_faults
mdc .alm	R -
mdc_create .pll	R bound_mdir_control

II. SEGMENT CHANGE LOG (continued)

SEGMENT NAME	BOUND SEGMENT
mdc_init.pll	A bound_mdir_control
mdc_lock.pll	R bound_mdir_control
mdc_repair.pll	R bound_mdir_control
mdc_set.pll	R bound_mdir_control
mdc_status.pll	R bound_mdir_control
mdcs_util.pll	R bound_mdir_control
ocdim.pll	R bound_oc
page_error.alm	R bound_page_control
page_fault.alm	R bound_page_control
parse_tape_reel_name.pll	A bound_tape_mult
pre_link_1.alm	R -
set_kst_attributes.pll	R bound_system_faults
tape_checksum.alm	A bound_tape_mult
tape_dim_data.alm	A bound_tape_mult
tape_mult_read.pll	R bound_tape_mult
tdcm.pll	A bound_tape_mult
tdcm_attach.pll	A bound_tape_mult
tdcm_detach.pll	A bound_tape_mult
tdcm_message.pll	A bound_tape_mult
tty_index.pll	R bound_tty_active
tty_read.pll	R bound_tty_active
tty_write.pll	R bound_tty_active
update_vtoce.pll	R bound_vtoc_man
wired_hardcore_data.alm	R -

BIND SEGMENTS

bound_command_loop.bind	R
bound_file_system.bind	R
bound_iom_active.bind	R
bound_iom_wired.bind	R
bound_ipc.bind	R
bound_mdir_control.bind	R
bound_tape_mult.bind	R
bound_temp_1.bind	R

II. SEGMENT CHANGE LOG (continued)

INCLUDE SEGMENTS

mailbox ops.incl.pll	R
sst.incl.alm	R
sst.incl.pll	R
tdcm_info.incl.pll	R
tmdb.incl.pll	R