

TO: Distribution  
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 SUBJECT: Installation of MSS 32.0

## I. SYSTEM CHANGE LOG

### MCR MODIFICATIONS FOR MSS 32.0

- 2822 Turns on charging for tape, disk, and private logical volume usage, by having RCP signal the answering service for each assign, attach, and unassign.
- 2819 Implements the new entry point `command_processor_saf`, a simplified version of `command_processor$return_val`.
- 2828 Installs a new version of `command_processor_`.
1. Active functions are expanded a command at a time rather than the whole command line at once.
  2. Mismatched iteration sets are diagnosed before any commands are executed.
  3. Quotes are stripped from active function return values before concatenating. For example, if A returns "2" (quoted), the line `loc_ "1[A]` prints 12 instead of the old way 1"2.
  4. TAB, SPACE, FORM FEED and VERTICAL TAB are treated equally as leading and trailing white space.
  5. There is no longer a restriction on maximum command line size and maximum active function return value size.
  6. The result of an active function invocation is treated as a single token if the active function invocation was preceded by two vertical bars. For example, `loc_ |[fun]` prints `abc"def` if that was the string returned by fun.
  7. The following commands and subroutines are obsolete and will be deleted some time in the future:
    - `set_con_line`
    - `get_con_line`
    - `command_processor$set_line`
    - `command_processor$get_line`
    - `full_command_processor_`
    - `proc_brackets_`

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## I. SYSTEM CHANGE LOG (continued)

## MCR MODIFICATION

proc\_parens\_  
proc\_quotes\_

- 2522 Establishes a condition wall when faults are signalled. The wall, which catches all conditions except program\_interrupt, will be established whenever the system default on-unit is invoked for a signalled condition.
- 2823 Enables the setting of a "process directories allowed" switch in the logical volume entries of the disk table.
- 2908 Adds a pointer to the stack header that always points to the ring's original combined linkage area. Changes hcs\_\$assign\_linkage to allocate using this pointer.
- 2909 Adds the run unit depth to snapped links.
- 2798 Sets up static handlers for the condition "term".
- 2836 Merges bound\_command\_loop\_ and bound\_lox\_.
- 2837 Merges loa\_ and rest\_of\_loa\_ into a single source program.
- 2838 Removes the transfer vectors standard\_default\_handler\_, full\_cp\_tv\_, and cl\_tv\_.aim from bound\_command\_loop\_.
- 2839 Merges cu\_ and rest\_of\_cu\_ into one source program.
- 2917 Converts message\_table\_ to aim.
- 2861 Upgrades the mos memory polling mechanism for 16k chips.
- 2951 Fixes hcs\_ to conform to the gate format expected by meter\_gate, so meter\_gate will work again.
- Fixes a bug in fim\_util that could crash the system.

## II. SEGMENT CHANGE LOG

SEGMENT NAME		BOUND SEGMENT
absentee_real_init_admin_.pli	R	bound_command_loop_
attach_name.pli	A	bound_command_loop_
cl_tv_.aim	D	bound_command_loop_
command_processor_.pli	R	bound_command_loop_
cp_data_.aim	R	bound_command_loop_
cu_.aim	R	bound_command_loop_

## II. SEGMENT CHANGE LOG (continued)

SEGMENT NAME	BOUND SEGMENT
daemon_reat_init_admin_.pli	R bound_command_loop_
decode_descriptor_.pli	R bound_command_loop_
default_error_handler_.pli	R bound_error_handlers_
discard_attach.pli	A bound_command_loop_
disk_table_.pli	R bound_mdxhdx_
error_table_.alm	R -
flm_table.alm	R bound_interceptors
flm_util.alm	R bound_interceptors
find_locb.pli	A bound_command_loop_
full_cp_tv_.alm	D bound_command_loop_
get_at_entry_.pli	R bound_command_loop_
get_temp_segments_.pli	R bound_command_loop_
get_to_cl_.pli	R bound_command_loop_
get_tpr_.pli	R bound_error_handlers_
hardcore.header	R -
hc_device_acct_.pli	A bound_hc_initizr_auxl_
hc_initizr_auxl_init_.pli	A bound_hc_initizr_auxl_
hcs_.alm	R -
initializer_adc_.alm	R -
loa_.pli	R bound_command_loop_
los_.pli	R bound_command_loop_
los_signal_.pli	R bound_command_loop_
los_write_around_.pli	A bound_command_loop_
lox_.alm	A bound_command_loop_
link_mon.pli	R bound_system_faults
link_snap.pli	R bound_system_faults
listen_.pli	R bound_command_loop_
lv_request_.pli	R bound_hc_initizr_auxl_
mdx.pli	R bound_mdxhdx_
message_table_.alm	R bound_error_handlers_
nbs_memory_check.pli	R bound_error_wired
ntape_attach.pli	A bound_command_loop_
proc_int_handler.pli	R bound_tc_wired
process_overser_.pli	R bound_command_loop_
propagate.pli	A bound_command_loop_
rcp_check_attach_.pli	R bound_rcp_
rcp_init.pli	R bound_io_init
rcp_initializer_.pli	R bound_rcp_
rcp_mount_timer_.pli	R bound_rcp_
rcp_sys_.alm	R -
real_sdh_.pli	D bound_command_loop_
rest_of_cu_.alm	D bound_command_loop_
rest_of_loa_.pli	D bound_command_loop_
signal_.pli	R bound_sss_active_
special_messages_.pli	R bound_error_handlers_
standard_default_handler_.alm	D bound_command_loop_
syn_attach.pli	A bound_command_loop_
sys_info	R -
timer_manager_.pli	R bound_command_loop_

## II. SEGMENT CHANGE LOG (continued)

SEGMENT NAME	BOUND SEGMENT
tty_.pl1	A bound_command_loop_
tty_io_call_control_.pl1	A bound_command_loop_
user_real_init_admin_.pl1	R bound_command_loop_

## BIND SEGMENTS

bound_command_loop_.bind	R
bound_error_handlers_.bind	R
bound_hc_initizr_auxl_.bind	R
bound_mdxdx_.bind	R
bound_rcp_.bind	R

## INCLUDE SEGMENTS

disk_table.incl.pl1	R
gate_macros.incl.aia	R
linkdci.incl.pl1	R
message_table_entry.incl.aia	A
message_table_entry.incl.pl1	A
rcp_account_msg.incl.pl1	A
rcp_data.incl.pl1	R
rcp_message.incl.pl1	R
scr.incl.pl1	R
stack_header.incl.aia	R
stack_header.incl.pl1	R
static_handlers.incl.pl1	R