

TO: Distribution
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SUBJECT: Installation of MSS 30.3, 30-3a, and 30-3b

I. SYSTEM CHANGE LOG

MCR MODIFICATIONS FOR MSS 30.3 30.3a 30.3b

- 2329 Fixes msf_manager_\$acl_ (add delete copy) to modify the directory ACL of an MSF containing no components.
- 2268 Fix for lfecho problem on LSLA so that in lfecho and echoplex modes a carriage return is echoed at the terminal as CR,LF
- 2372 Fixes default_error_handler_ to handle illegal procedure better. Will now print:
"Error: illegal_procedure condition by..."
instead of: "Error: condition by..."
- 2172 Adds new entrypoint to cu_. Replacing most cu_ entrypoints that take pointer arguments with entrypoints that take entry value arguments.
The following additions were made:
add cu_\$get_command_processor corresponding to cu_\$get_cp
add cu_\$set_command_processor corresponding to cu_\$set_cp
add cu_\$get_cl_intermediary corresponding to cu_\$get_cl
add cu_\$set_cl_intermediary corresponding to cu_\$set_cl
add cu_\$get_ready_procedure corresponding to cu_\$get_ready_proc
add cu_\$set_ready_procedure corresponding to cu_\$set_ready_proc
add cu_\$generate_call corresponding to cu_\$gen_call
The old entrypoints will continue to exist.
- 2359 Fixes a bug in alloc_ which causes excessive zeroing on Free, leading to lockup fault in some cases. Changes Free logic to zero only potentially non-zero words.
- Retain an entry, which was accidentally omitted, to allow disk_table simulator to work.

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I. SYSTEM CHANGE LOG (continued)

MCR MODIFICATION

- 2360 Changes the ring-0 AIM access-setting primitive to set entry.dtem.
- 2358 Makes the salvager set directories security out-of-service when AIM errors are encountered.
- 2315 Allows the attachment of DSKx_00 via RCP (for T & D).
- 2378 Fixes bugs in management of FNP's and TTY channels.
- 2376 Provide the hooks for capability of forcing a segment to be written to disk.
- 2381 Fixes RCP to allow privileged users to mount virgin disk packs.
- 2386 Fix bug which crashes system with vtoc interrupt error.
- 2320 Disk rebuilder will not copy partitions names "bos" or "alt"
- 2369 Add any_other handler to ESD so that faults will cause a message.
- 2340 Countervalidate "I/O" disk labels. Allows larger class of I/O packs to be mounted; Initializer/Rebuilder will interrogate operator about overwriting disks.
- 2361 Defines a 'demounted' state of a drive with respect to the Storage System disk_table manager.
- 2357 Prevent restart of innately bad EIS IPR machine conditions. Allow restart of certain modifications of EIS fault machine conditions.
- 2225 Fixes init_hardcore_gates to know about xhcs.
- Emergency fix for get_system_free_area
- 2321 Fixes the disk DIM to output new, more appropriate, error messages.
- 2283 Repeat RCP mount messages for tapes and "I/O" disks every four minutes until they are satisfied or cancelled.
- 2389 Prevents system crash caused by taking a bounds fault on a directory being salvaged.
- 2397 Fixes masking problem introduced in MSS 29.0 (system controller masking and reading algorithm).

I. SYSTEM CHANGE LOG (continued)

MCR MODIFICATION

- Fixes the `lsot_fault_handler_` to work when invoked in `ring-0`.
- Fixes an AIM retrieval problem: when retrieving upgraded directories with the `-noquota` option, attempts are made to move quota from the parent of the upgraded directory. For all other cases of directory creation with `-noquota`, a line is added to the map giving the quota not reloaded.
- 2381 Allow virgin disk packs to be mounted (inadvertently left out of the 30.3a installation).
- Add name `rcp_copy_` to `bound_rcp_` (should have been added with MSS 30.3)

II. SEGMENT CHANGE LOG

SEGMENT NAME	BOUND SEGMENT
<code>alloc_.alm</code>	R <code>bound_sss_wired_</code>
<code>backup_load_dir_list.pl1</code>	R <code>bound_reloader_</code>
<code>command_query_.pl1</code>	A <code>bound_command_loop_</code>
<code>countervaildate_label_.pl1</code>	A <code>bound_mdxdx_</code>
<code>cu_.alm</code>	R <code>bound_command_loop_</code>
<code>default_error_handler_.pl1</code>	R <code>bound_error_handlers_</code>
<code>disk_control.pl1</code>	R <code>bound_page_control</code>
<code>disk_error_data.cds</code>	R <code>bound_page_control</code>
<code>disk_init.pl1</code>	R <code>bound_temp_1</code>
<code>disk_rebuild.pl1</code>	R <code>bound_salvager</code>
<code>disk_rebuild_caller.pl1</code>	R <code>bound_mdxdx_</code>
<code>disk_table_.pl1</code>	R <code>bound_mdxdx_</code>
<code>dn355_messages.alm</code>	R <code>bound_355_wired</code>
<code>flm_util.alm</code>	R <code>bound_interceptors</code>
<code>force_write.pl1</code>	A -
<code>get_disk_segs.pl1</code>	R <code>bound_temp_1</code>
<code>get_system_free_area_.pl1</code>	R <code>bound_fsm_</code>
<code>hardcore.header</code>	R -
<code>hdx.pl1</code>	R <code>bound_mdxdx_</code>
<code>init_disk_pack_.pl1</code>	R <code>bound_mdxdx_</code>
<code>init_hardcore_gates.pl1</code>	R <code>bound_temp_2</code>
<code>initializer_mdc_.mexp</code>	R -
<code>ioi_usurp_channels.pl1</code>	R <code>bound_lom_active</code>
<code>lsot_fault_handler_.pl1</code>	R <code>bound_sss_wired_</code>
<code>load_fnp_.pl1</code>	R <code>bound_mcs_init_</code>
<code>lv_request_.pl1</code>	A <code>bound_hc_initializer_aux1_</code>
<code>mdx.pl1</code>	R <code>bound_mdxdx_</code>
<code>msf_manager_.pl1</code>	R <code>bound_fsm_</code>

II. SEGMENT CHANGE LOG (continued)

SEGMENT NAME		BOUND SEGMENT
on_line_salvager.pl1	R	bound_salvager
page.alm	R	bound_page_control
page_fault.alm	R	bound_page_control
privileged_mode_ut.alm	R	bound_priv_1
rcp_check_attach_.pl1	R	bound_rcp_
rcp_copy_.pl1	R	bound_rcp_
rcp_device_info_.pl1	R	bound_rcp_
rcp_disk_.pl1	R	bound_rcp_
rcp_init.pl1	R	bound_io_init
rcp_initializer_.pl1	R	bound_rcp_
rcp_mount_timer_.pl1	A	bound_rcp_
rcp_mount_timer_poll_.pl1	A	bound_hc_initializer_auxl_
rcp_ring1_init_.pl1	R	bound_rcp_
rcp_sys_.mexp	R	-
rcp_tape_.pl1	R	bound_rcp_
reclassify.pl1	R	bound_priv_procs
rest_of_cu_.alm	R	bound_command_loop_
restart_fault.alm	R	-
salv_check_ptr.pl1	R	bound_salvager
salvage_directory.pl1	R	bound_salvager
shcs_.mexp	A	-
vtoc_man.pl1	R	bound_vtoc_man
wired_shutdown.pl1	R	bound_tc_wired

BIND SEGMENTS

bound_command_loop_.bind	R
bound_hc_initializer_auxl_.bind	A
bound_maxhdx_.bind	R
bound_rcp_.bind	R

INCLUDE SEGMENTS

disk_error_interp.incl.pl1	R
disk_table.incl.pl1	R
dskdcl.incl.pl1	R
io_syserr_msg.incl.pl1	R
rcp_data.incl.pl1	R
rcp_data_info.incl.pl1	R