TO: Distribution

FROM: Franklin C. Smith

DATE: November 8, 1977

SUBJECT: Installation of MSS 32.3

I.   SYSTEM CHANGE LOG

MCR   MODIFICATIONS FOR MSS 32-3

2865 Adds tape label checking to rcp_tape_.

2866 Increases the size of the default privileged IOI workspace
     from 10 to 32 pages.

2989 Changes the linker not to reallocate an external variable
     when a linkage fault occurs on the variable which specifies
     more storage than was initially allocated.

2820 Fix bugs in new command processor.

2969 Change the padding character used by bcd_to_ascii_ if the
     output string is longer than the input string from NUL to
     blank. Move bcd_to_ascii_ and ebcdic8_to_ascii_ to
     >system_library_1.

2971 Fix a bug in which tdcm_message_ used the wrong number of
     arguments to ipc_$decl_ev_call_chn.

2991 Bug fixes to 32.1 scheduler:
         1. Quit_count meter will not clobber loading_idle meter.
         2. set_cpu_monitor will not use stack garbage.
         3. The last event suffering a notify timeout will be
     remembered in tc_data.
         4. Correctly return to pds.

2996 Changes get_defptr_ to bypass hardware bug 095, in which an
     xed fails if the xed is on an odd boundary and the operand
     of the first instruction xed'd is on a page boundary.

2822 Fixed a bug in rcp caused by a segment left out of a
     previous installation.

I. SYSTEM CHANGE LOG (continued)

MCR   MODIFICATION

2853 Fix bug in quota with respect to moving quota to upgraded
     directories.

2873 Fix a bug in tty_write.

2892 Bug fixes and improvements to the volume reloader:
     1. Improves performance by buffering VTOCE's.
     2. Better argument checking.
     3. Correct operation in cold boot environment.
     4. Decoding of uid pathnames to tell operator what was
     skipped on tape errors.

2896 Fixes two bugs in the volume retriever:
     1. Corrects calling sequence to makeknown.
     2. Sets a pointer before using it.

3002 Fixes bugs in ocdcm_:
     1. Reassign the operator's console to syserr before
     trying to write on it.
     2. Reassign the operator's console to syserr at ESD time.

3005 Make device accounting work right when a force-unassign
     occurs, by passing the device user process id in the event
     message instead of using the sender process id.

3006 Rename the term and susp signals to trm_ and sus_.

---- Fix uninitialized variable bug in default_error_handler.

---- Reinstall make_sdw.

2993 Makes sum$dirmod validate the entry pointer it gets from the
     KST before using it in a call to activate.

II. SEGMENT CHANGE LOG

SEGMENT NAME		BOUND SEGMENT
authenticate_.pl1	A	bound_tape_label_util_
bcd_to_ascii_.alm	A	bound_tape_label_util_
bindnames	A	-
canon_tape_label_.pl1	A	bound_tape_label_util_
command_processor_.pl1	R	bound_command_loop_
dbm_man.pl1	R	bound_hc_backup
default_error_handler_.pl1	R	bound_error_handlers_
display_volume_log.pl1	R	bound_volume_rldr_ut_
ebcdic8_to_ascii_.pl1	A	bound_tape_label_util_

II. SEGMENT CHANGE LOG (continued)

SEGMENT NAME		BOUND SEGMENT
ebcdic_to_ascii_.alm	A	bound_tape_label_util_
error_table_.alm	R	-
flm_table.alm	R	bound_interceptors
get_defptr_.alm	R	bound_sss_active_
hardcore.header	R	-
hc_backup_.alm	R	-
hc_device_acct_.pl1	R	bound_hc_initizr_auxl_
hc_dmpr_primitives.pl1	R	bound_hc_backup
hcs_.alm	R	-
link_snap.pl1	R	bound_system_faults
make_sdw.pl1	R	bound_init_1
ocdcm_.pl1	R	bound_error_wired
pxss.alm	R	-
quota.pl1	R	bound_file_system
rcp_.alm	R	-
rcp_authenticate_device_.pl1	A	bound_rcp_
rcp_check_attach_.pl1	R	bound_rcp_
rcp_copy_.pl1	R	bound_rcp_
rcp_force_unassign_.pl1	R	bound_rcp_
rcp_init.pl1	R	bound_io_init
rcp_initializer_.pl1	R	bound_rcp_
rcp_priv_.alm	R	-
rcp_priv_check_labels_.pl1	A	bound_rcp_
rcp_ring1_init_.pl1	R	bound_rcp_
rcp_tape_.pl1	R	bound_rcp_
recover_volume_log.pl1	R	bound_volume_rldr_ut_
reload_volume_.pl1	R	bound_volume_reloader_
reloader.pl1	R	bound_volume_reloader_
retv_copy.pl1	R	bound_hc_backup
retv_util.pl1	R	bound_hc_backup
rldr_arg_reader_.pl1	R	bound_volume_reloader_
rldr_check_pvol_.pl1	R	bound_volume_reloader_
rldr_finish_.pl1	R	bound_volume_reloader_
rldr_input_.pl1	R	bound_volume_reloader_
rldr_label_.pl1	R	bound_volume_reloader_
rldr_output_.pl1	R	bound_volume_reloader_
rldr_report_.pl1	R	bound_volume_reloader_
rldr_volume_map_.pl1	R	bound_volume_reloader_
rldr_vtoc_buffer_.pl1	A	bound_volume_reloader_
rldr_vtoc_header_.pl1	R	bound_volume_reloader_
set_ext_variable_.pl1	A	bound_system_faults
sourcenames	A	-
status_.pl1	R	bound_system_faults
sum.pl1	R	bound_system_faults
sys_info	R	-
system_startup_.pl1	R	-
tape_mult_attach_.pl1	R	bound_tape_mult_
tape_mult_labeler_.pl1	R	bound_tape_mult_
tdcm_.pl1	R	bound_tape_mult_

II.   SEGMENT CHANGE LOG (continued)

SEGMENT NAME   BOUND SEGMENT

tdcm_message_.pl1   R   bound_tape_mult_
tty_write.pl1   R   bound_tty_active
vtoc_attributes.pl1   R   bound_system_faults

BIND SEGMENTS

bound_command_loop_.bind   R
bound_rcp_.bind   R
bound_system_faults.bind   R
bound_tape_label_util_.bind   A
bound_volume_reloader_.bind   R

INCLUDE SEGMENTS

rcp_account_msg.incl.pl1   R
rcp_com_seg.incl.pl1   R
rcp_data.incl.pl1   R
rcp_message.incl.pl1   R
rldr_control.incl.pl1   R
rldr_data_.incl.pl1   R
rldr_skip_list.incl.pl1   A
rldr_vtoc_buffer.incl.pl1   A
tc_meters.incl.alm   R
tcm.incl.pl1   R
tdcm_info.incl.pl1   R
tedb.incl.pl1   R
variable_tables.incl.pl1   R