

TO: Distribution
FROM: R. B. Rakip
DATE: December 27, 1973
SUBJECT: Installation of 21.7

The hardcore system, MSS 21.7, was installed at 09:00 on Friday, December 21, 1973. This system deleted the obsolete TDSM interface; included more MTS-500 support code; put call limiters on hardcore gates; implemented changes for 256k segments in the file system and its interface module; added the MDS remote computer device type in the TTY DIM and fixed bugs which involved the segments oxss, page_fault, trace, active_all_rings_data, init_sys_var and admin_gate_. The system libraries were updated at 15:44 on Wednesday, December 26, 1973.

I. System Change Log

<u>Change #</u>	<u>Change</u>
1217	Delete the obsolete interface, TDSM.
1218	Change default tty channel of initializer to otw_ and default dim to oc_. Correct bug in conversion of tty channel number picked up from OPTY configuration card.
1219	Allow fsm to work with files having a max_length of 64k or 256k which will allow present MSF's to be manipulated for a time after 256k segs are installed. Fix a bug in MSF termination.
1220	Install modules preparatory to 256k segments.
1221	Add new device type to TTY DIM for Monawk remote computer and also ring 0 implementation of read_status order call.

Multics Project Internal documentation. Not to be reproduced or distributed outside the Multics Project.

I. System Change Log (continued)

<u>Change #</u>	<u>Change</u>
1222	Add notify timeout; add notify system_trace; add notify check to make sure it works and add page_fault meters.
1223	Add more changes to support MTS-500.
1224	Place call limiters on hardware gates and fix a bug in signaller which doesn't restore EIS registers correctly.
1225	Fix a bug in trace which computed the length of the line to be printed on a PRT300 incorrectly.
1226	Correct an editing error in admin_gate_.

II. Segment Change Log

<u>Segment Name</u>	<u>Bound Segment</u>	<u>Change #</u>
active_all_rings_data.alm	-	R 1218
admin_gate_.mexp	-	R 1226
error_table_.et	-	R 1220
file.pl1	bound_fsm_	R 1219
file_util.pl1	bound_fsm_	R 1219
init_hardcore_gates.pl1	bound_temp_2	R 1224
init_sys_var.pl1	bound_temo_2	R 1218
initialize_faults.pl1	bound_init_1	R 1224
int1_branches.pl1	bound_init_2	R 1224
make_msf_.pl1	bound_fsm_	R 1219
make_seg.pl1	bound_file_system	R 1220
makestack.pl1	bound_file_system	R 1220
msf_manager_.pl1	bound_fsm_	R 1219
page_fault.alm	bound_page_control	R 1222
oxss.alm	-	R 1222
restart_fault.alm	-	A 1224
return_to_ring_0_.alm	-	R 1224
seg_fault.pl1	bound_system_faults	R 1224
signaller.alm	-	R 1224
sys_info.alm	-	R 1220
tape_data.alm	-	P 1223
tape_init.pl1	bound_io_init	R 1223
tdcm.pl1	bound_lom_active	R 1223
tdcm_status.pl1	bound_lom_wired	R 1223
tdsm_.alm	bound_tdsm_	D 1217
tdsm_util_.pl1	bound_tdsm_	D 1217
tdsm_xmt_.pl1	bound_tdsm_	D 1217
tdsm_xtach_.pl1	bound_tdsm_	D 1217
terminate_proc.pl1	bound_error_active	R 1220
trace.pl1	bound_lom_wired	R 1225

II. Segment Change Log (continued)

<u>Segment Name</u>	<u>Bound Segment</u>	<u>Change #</u>
tty_init.pl1	bound_lo_init	R 1221
<u>Include Files</u>		
file_plb.incl.pl1		R 1219
oxss_page_stack.incl.alm		R 1222
signaller_stack.incl.alm		A 1224
sst.incl.alm		R 1222
sst.incl.pl1		R 1222
tape_data.incl.pl1		R 1223
tc_meters.incl.alm		R 1222
tcm.incl.pl1		R 1222
<u>Bind Files</u>		
bound_tdsm_.bind		D 1217

III. Bound Segment Change Log

<u>Bound Segment</u>	<u>Change</u>
bound_error_active	Replaced terminate_proc
bound_file_system	Replaced make_seq makestack
bound_fsm_	Replaced file file_util make_msf_ msf_manager_
bound_init_1	Replaced initialize_faults
bound_init_2	Replaced int1_branches
bound_lo_init	Replaced tape_init tty_init
bound_lom_active	Replaced tdcn
bound_lom_wired	Replaced tdcn_status trace
bound_page_control	Replaced page_fault
bound_system_faults	Replaced seq_fault

III. Bound Segment Change Log (continued)

<u>Bound Segment</u>	<u>Change</u>
bound_tdsm_	Deleted tdsd_ tdsd_util_ tdsd_xmt_ tdsd_xtach_
bound_temp_2	Replaced init_hardcore_gates init_sys_var

IV. Header Change Log

Change #1217 removed the entire entry for bound_tdsd_; #1223 changed the cur_length of tape_data to 2500 and #1224 added an entry for restart_fault, changed signallers access from write to privileged and its call cinbrack from 7 to 0.