

TO: Distribution

FROM: Peter B. Kelley

DATE: July 29, 1974

SUBJECT: Installation of MSS 23.14 & MSS 23.14a

The hardcore system MSS 23.14a was installed at 0800 on July 29, 1974. This system includes: installation of the cache software for Multics; moving the history registers and associative memory data from the pds to the prds; improvement of several error table messages referring to the I/O switch; and, several bug fixes. The system libraries were updated at 1430 on Tuesday, July 30, 1974.

I. System Change Log

<u>Chng</u>	<u>MCR</u>	<u>Change</u>
# 1331	212,373,590	Installs the cache software for Multics; fixes several bugs, and, moves the history registers from the pds to the prds.
# 1332	380	Improves several error table messages referring to the I/O switch.
# 1333	-	Fixes crawl-out in privileged_mode_ut and fixes lockup problem. (Both were bugs in MSS 23.14 which was pulled.)

II. Segment Change Log

<u>Segment Name</u>	<u>Bound Segment</u>	<u>Chang</u>
activate_segs.pl1	bound_process_creation	R 13
bootstrap1.alm	-	R 13
error_table_.et	-	R 13
fil.alm	-	R 13
ii.alm	-	R 13

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II. Segment Change Log (continued)

Segment Name	Bound Segment	Change #
init_processor.alm	-	R 1331,1333
initialize_faults.pl1	bound_init_1	R 1331
make_sdw.pl1	bound_init_1	R 1331
page_fault.alm	bound_page_control	R 1331,1333
pc.pl1	bound_page_control	R 1331
pds.alm	-	R 1331
prds.alm	-	R 1331
privileged_mode_ut.alm	bound_priv_1	R 1331,1333
pxss.alm	-	R 1331
ring_0_peek.pl1	bound_file_system	R 1331
scas_init.pl1	bound_temp_1	R 1331
scs.alm	-	R 1331
seg_fault.pl1	bound_system_faults	R 1331
setfaults.pl1	bound_system_faults	R 1331
tc_data.alm	-	R 1331
wired_fin.alm	-	R 1331

Include Files

ast.incl.alm	R 1331
ast.incl.pl1	R 1331
cache_node_reg.incl.alm	A 1331
sdw.incl.alm	R 1331
sdw.incl.pl1	R 1331
site.incl.alm	R 1331
site.incl.pl1	R 1331

Bindfiles

bound_priv_1.bind	R 1331
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III. Bound Segment Change Log

Bound Segment	Change
bound_temp_1	replaced: scas_init
bound_file_system	replaced: ring_0_peek
bound_priv_1	replaced: privileged_mode_ut
bound_page_control	replaced: page_fault pc
bound_init_1	replaced: initialize_faults make_sdw

III. Bound Segment Change Log (continued)

<u>Bound Segment</u>	<u>Change</u>
bound_process_creation	replaced: activate_segs
bound_system_faults	replaced: seg_fault setfaults

IV. Header Change Log

1331 The header was modified to change the access for return_to_ring_0_ to "read, execute". The access for bound_page_control, emergency_shutdown, ii, fim, wired_fim, and restart_fault was changed to "read, execute, privileged". The keyword "cache" was added to the entry prds. The "cur_length" attribute of prds was changed to 3072.