MULTICS INSTALLATION BULLETIN

TO: Distribution

FROM: Peter B. Kelley

DATE: May 24, 1974

SUBJECT: Installation of MSS 23.10

The hardcore system MSS 23.10 was installed at 0900 on Wednesday, May 22, 1974. This system includes major modifications to page control which speed up the page control process, fixes several bugs, removes several bug checks, merges the unprivileged and privileged parts of the page control mechanism and adds some new meters. The system libraries were updated at 1657 on Thursday, May 23, 1974.

I. System Change Log

Chng MCR   **Change**

 # 1299 046, 047, 066, 099, 100, 102, 211, 262, 263
    The unprivileged and privileged parts of the kernal of page control were merged; the unprivileged pxss was merged with code from master_pxss_page to form a new privileged pxss; the system trace mechanism kept by each process was extended; the reset-working set function has been reduced to do very little; the loop lock meters for the page table lock and traffic control lock are changed to measure real clock time; several reused address bug checks were removed; internal speed ups to page control were made; and several bugs were fixed.

 # 1300 093 The directory control include files were modified to correspond with the EIS compiler's changes to structure packing.

II. Segment Change Log

Segment Name	Bound Segment	Change #
bulk_store_control.alm	bound_page_control	R 1299
delete_pd_records.pl1	bound_process_creation	R 1299
device_control.alm	bound_page_control	R 1299
disk_control.pl1	bound_page_control	R 1299
get_page_trace.pl1	bound_file_system	R 1299
hcs_.mexp	-	R 1299
initialize_faults.pl1	bound_init_1	R 1299
link_snap.pl1	bound_system_faults	R 1299
master_pxss_page.alm	-	D 1299
page.alm	bound_page_control	R 1299
page_fault.alm	bound_page_control	R 1299
page_util.alm	bound_page_control	D 1299
pc.pl1	bound_page_control	R 1299
pc_abs.pl1	-	R 1299
pd_util.alm	bound_page_control	R 1299
pds.alm	-	R 1299
post_purge.alm	bound_page_control	A 1299
pre_page.alm	bound_page_control	D 1299
privileged_mode_ut.alm	bound_priv_1	R 1299
pxss.alm	-	R 1299
restart_fault.alm	-	R 1299
signaller.alm	-	R 1299
tc_init.pl1	bound_init_2	R 1299
template_pds.alm	-	R 1299
wired_fim.alm	-	R 1299
wired_shutdown.pl1	bound_tc_wired	R 1299

Include Files

		Change #
apte.incl.alm		R 1299
apte.incl.pl1		R 1299
cmp.incl.alm		R 1299
cmp.incl.pl1		R 1299
cnt.incl.alm		R 1299
cnt.incl.pl1		R 1299
dir_acl.incl.pl1		R 1300
dir_allocation_area.incl.pl1		R 1300
dir_entry.incl.pl1		R 1300
dir_link.incl.pl1		R 1300
dir_name.incl.pl1		R 1300
page_info.incl.alm		R 1299
page_trace.incl.alm		R 1299
sys_trace.incl.pl1		R 1299
tc_meters.incl.alm		R 1299

II. Segment Change Log (continued)

Segment Name	Bound Segment	Change #
trace_types.incl.alm		R 1299
trace_types.incl.pl1		R 1299

Bindfiles

bound_page_control.bind		R 1299

III. Bound Segment Change Log

Bound Segment	Change	
bound_page_control	added:	post_purge
	replaced:	page_fault
		pd_util
		page
		device_control
		pc
		disk_control
		bulk_store_control
	deleted:	page_util
		pre_page
bound_system_faults	replaced:	link_snap
bound_file_system	replaced:	get_page_trace
bound_init_2	replaced:	tc_init
bound_init_1	replaced:	initialize_faults
bound_process_creation	replaced:	delete_pd_records
bound_tc_wired	replaced:	wired_shutdown
bound_priv_1	replaced:	privileged_mode_ut

IV. Header Change Log

The header was changed to add the name page_fault to bound_page_control and to delete the entry name master_pxss_page.