TO:        Distribution

FROM:      Grace Ackerman-Lewis

DATE:      January 20, 1976

SUBJECT:   Installation of MSS 27.5


The hardcore system MSS 27.5 was installed on Tuesday, January 6, 1975 at 08:53.  This system includes: the installation of new area management code; the replacement of system_control_ with a new bound segment; a change to the reloader to cause it to recover if it gets a data_not_in_expected_format fixes for error messages in the disk DIM; and support for the new mst generator. The system libraries were updated on Tuesday, January 6, 1975 at 16:16.


## I. System Change Log

**Chng MCR**              **Change**

# 1532 1138 Replace system_control_ by a new bound segment.

# 1533 1534,1529
          Install new area management code that no longer uses buddy system areas.  Allow PL/1 signalling in ring 0.

# 1534 1501 Reloader will attempt to recover if data_not_in_expected_format rather than reject the tape.

# 1535 1480 Fix error message in the disk DIM.

# 1536 1544,1558
          Install support for new mst generator which in turn, supports prelinking.  Fix bugs in hardcore tape software which arose using tape_mult_ io module in writing mst's.

# 1537 1327,1528
          Install hardcore support for prelinking.


---------

## II. Segment Change Log

| Segment Name | Bound Segment | Change # |
|---|---|---|
| absentee_real_init_admin_.pl1 | bound_command_loop_ | R 1537 |
| act_proc.pl1 | bound_process_creation | R 1537 |
| alloc_.alm | bound_sss_wired_ | A 1533 |
| alloc_.pl1 | bound_sss_active_ | D 1533 |
| area_.pl1 | bound_sss_active_ | D 1533 |
| area_assign_.pl1 | bound_sss_active_ | D 1533 |
| bk_input.pl1 | bound_reloader_ | R 1534 |
| bootstrap2.alm | - | R 1537 |
| buddy_alloc_.pl1 | bound_sss_active_ | A 1533 |
| buddy_area_.pl1 | bound_sss_active_ | A 1533 |
| buddy_area_assign_.pl1 | bound_sss_active_ | A 1533 |
| buddy_freen_.pl1 | bound_sss_active_ | A 1533 |
| copy_on_write_handler.pl1 | bound_command_loop_ | D 1537 |
| copy_on_write_handler_.pl1 | bound_sss_wired_ | A 1537 |
| daemon_real_init_admin_.pl1 | bound_command_loop_ | R 1537 |
| disk_control.pl1 | bound_page_control | R 1535 |
| error_table_.et | - | R 1537 |
| execute_sc_command_.pl1 | bound_system_control_ | A 1532 |
| fim.mexp | - | R 1537 |
| fin_admin_.pl1 | bound_system_control_ | A 1532 |
| find_communications_seg_.pl1 | bound_system_control_ | A 1532 |
| freen_.pl1 | bound_sss_active_ | D 1533 |
| init_hardcore_gates.pl1 | bound_temp_2 | R 1537 |
| initialize_kst.pl1 | bound_process_creation | R 1537 |
| interpret_oncode_.pl1 | bound_error_handlers_ | A 1533 |
| isot_fault_handler_.pl1 | bound_sss_wired_ | A 1537 |
| kill_sc_process_.pl1 | bound_system_control_ | A 1532 |
| iot_maintainer.alm | - | R 1537 |
| makeknown_.pl1 | bound_system_faults | R 1537 |
| makestack.pl1 | bound_file_system | R 1537 |
| object_info_.pl1 | bound_sss_active_ | R 1536 |
| old_alloc_.alm | bound_sss_active_ | D 1533 |
| old_area_.alm | bound_sss_active_ | D 1533 |
| old_freen_.alm | bound_sss_active_ | D 1533 |
| ondata_.alm | bound_sss_wired_ | A 1533 |
| pds.alm | - | R 1537 |
| pl1_operators_.mexp | bound_sss_wired_ | R 1533 |
| pl1_signal_.pl1 | bound_sss_wired_ | A 1533 |
| plm.pl1 | bound_process_creation | R 1537 |
| restart_fault.alm | - | R 1537 |
| sc_admin_command_.pl1 | bound_system_control_ | A 1532 |
| sc_command.pl1 | bound_system_control_ | A 1532 |
| sc_init_.pl1 | bound_system_control_ | A 1532 |
| sc_parse_.pl1 | bound_system_control_ | A 1532 |

## II. Segment Change Log (continued)

| Segment Name | Bound Segment | Change # |
|---|---|---|
| sc_signal_handler_.pl1 | bound_system_control_ | A 1532 |
| sc_stat_.alm | bound_system_control_ | A 1532 |
| signaller.alm | - | R 1537 |
| start_cpu.pl1 | bound_process_creation | R 1537 |
| system_control_.pl1 | bound_system_control_ | A 1532 |
| tape_checksum_.alm | bound_init_1 | R 1536 |
| tape_checksum_.alm | bound_tape_ | R 1536 |
| tape_reader.pl1 | bound_init_1 | R 1536 |
| template_address_space.pl1 | bound_system_faults | A 1537 |
| template_address_space_.alm | - | A 1537 |
| template_area_header.alm | bound_sss_wired_ | A 1533 |
| user_real_init_admin_.pl1 | bound_command_loop_ | R 1537 |

### Include Files

| | | |
|---|---|---|
| area_structures.incl.alm | | A 1533 |
| create_info.incl.pl1 | | R 1537 |
| gate_macros.incl.mexp | | R 1537 |
| kst.incl.pl1 | | R 1537 |
| iot.incl.pl1 | | R 1537 |
| sc_stat_.incl.pl1 | | R 1532 |
| system_control_commands.incl.pl1 | | A 1532 |

### Bindfiles

| | | |
|---|---|---|
| bound_command_loop_.bind | | R 1537 |
| bound_error_handlers_.bind | | R 1533 |
| bound_sss_active_.bind | | R 1533 |
| bound_sss_wired_.bind | | R 1533 |
| bound_system_control_.bind | | A 1532 |
| bound_system_faults.bind | | R 1537 |

## III. Bound Segment Change Log

| Bound Segment | Change | |
|---|---|---|
| bound_system_control_ | added: | system_control_ |
| | | find_communications_seg_ |
| | | sc_admin_command_ |
| | | sc_command |
| | | sc_signal_handler_ |
| | | sc_parse_ |
| | | execute_sc_command_ |
| | | fin_admin_ |
| | | kill_sc_process_ |
| | | sc_init_ |

III. Bound Segment Change Log (continued)

| Bound Segment | Change | |
|---|---|---|
| | | sc_stat_ |
| bound_reloader_ | replaced: | bk_input |
| bound_page_control | replaced: | disk_control |
| bound_error_handlers_ | added: | interpret_oncode_ |
| bound_sss_active_ | added: | buddy_alloc_ |
| | | buddy_freen_ |
| | | buddy_area_ |
| | | buddy_area_assign_ |
| | replaced: | object_info_ |
| | deleted: | alloc_ |
| | | freen_ |
| | | area_ |
| | | area_assign_ |
| | | old_alloc_ |
| | | old_freen_ |
| | | old_area_ |
| bound_init_1 | replaced: | tape_reader |
| | | tape_checksum_ |
| bound_tape_ | replaced: | tape_checksum_ |
| bound_command_loop_ | replaced: | user_real_init_admin_ |
| | | daemon_real_init_admin_ |
| | | absentee_real_init_admin_ |
| | deleted: | copy_on_write_handler |
| bound_process_creation | replaced: | start_cpu |
| | | act_proc |
| | | initialize_kst |
| | | dim |
| bound_file_system | replaced: | makestack |
| bound_sss_wired_ | added: | template_area_header |
| | | alloc_ |
| | | copy_on_write_handler_ |
| | | pl1_signal_ |
| | | ondata_ |
| | | isot_fault_handler_ |
| | replaced: | pl1_operators_ |
| bound_system_faults | added: | template_address_space |
| | replaced: | makeknown_ |

### III. Bound Segment Change Log (continued)

**Bound Segment**                              **Change**


bound_temp_2                              replaced:   init_hardcore_gates


### IV. Header Change Log

The hardcore header was changed to replace the header entry for
system_control_ by a new bound segment, bound_system_control_; to
add the names copy_on_write_handler_ and isot_fault_handler_ to
bound_sss_wired; to add the names alloc_, old_alloc_, freen_,
old_freen_, area_, old_area_, area_assign_, pll_signal_,
math_error_, pll_signal_from_ops_, help_pll2_signal_ and ondata
to bound_sss_wired; to delete the names area_assign_, alloc_,
area_, freen_, old_alloc_, old_area_, and old_freen_ from
bound_sss_active, and add the names buddy_alloc_, buddy_freen_,
buddy_area_, and buddy_area_assign to bound_sss_active; to add
the names initiate_count and template_address_space to
bound_system_faults; to add the segment template_address_space_
to the header before hcs_; to delete the name
copy_on_write_handler from bound_command_loop_; to add the name
interpret_oncode_ to bound_error_handlers_; to change
system_control_ to a bound segment.