

TO: Distribution
 FROM: Gary C. Dixon
 DATE: June 10, 1976
 SUBJECT: Installation of MSS 28.6

MSS 28.6 was installed on Thurs., June 3, 1976. Included in this system are: a new I/O assignment manager with removal of obsolete code; the removal of the Device Signal Table; a new mode, "ctl_char", for the tty_DIM; fixes to the interface between the answering service and ring zero preventing the tying up of the Initializer process and the message coordinator when user processes can not be initialized; the move of the flagbox segment to the BOS toehold; the implementation of the io_call order in tty_; the implementation of quick "put edit" statements; a change to sub_err_ to make it a support procedure; and, the addition of a new area management routine with interfaces for manipulating areas.

I. System Change Log

Chng MCR

Change

- # 1606 1764 (parts 1 & 3), 1766, 1788 (parts 2 & 3)
 Makes "initporc: ...,direct" work in PMF segments; enforces the restriction on vinitprocs; accepts relative pathnames for initial procedures; avoids process creation loops by logging out the user when a fatal process error is detected during process initialization; eliminates calls to syserr when fatal errors occur during process initialization.
- # 1607 1803, 1813, 1824
 Implements a new I/O assignment manager (ioam_) with simplified functionality; deletes the DST; fixes tty_write to omit extraneous white space at the ends of certain output lines; implements a new mode "ctl_char" in tty_ I/O module specifying that ASCII control characters are accepted as input, rather than ignored.

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I. System Change Log (continued)

Chng MCR	Change
# 1608 1780	Implements three new area management utilities: define_area_, area_info_, and release_area_.
# 1609 1851	Implements quick 'put edit' statements; fixes any_to_any_ bug in complex decimal conversion.
# 1610 1727	Moves the Multics system initialization flagbox segment into the BOS foothold.
# 1611 No MCR	Recompiles and installs two IMP programs for which there was no source in the system libraries.
# 1612 1819	Makes the sub_err_ program a support procedure.
# 1613 1712	Implements the io_call order request in the tty_ I/O module.

II. Segment Change Log

Segment Name	Bound Segment	Change #
any_to_any_.alm	bound_sss_wired_	R 1609
bootstrap1.alm	-	R 1607,1610
call_detacher.alm	bound_iom_active	D 1607
deact_proc.pl1	bound_process_creation	R 1607
define_area_.pl1	bound_sss_active_	A 1608
dn355.pl1	bound_355_wired	R 1607
dstm_.pl1	bound_tc_wired	D 1607
hcs_.mexp	-	R 1607
hphcs_.mexp	-	R 1607
imp_dcm_data.pl1	bound_imp_dlm_	R 1611
imp_dcm_data_masked.pl1	bound_imp_status	R 1611
init_proc.pl1	bound_process_creation	R 1606
init_pvt.pl1	bound_temp_1	R 1607
ioam_.pl1	bound_iom_active	R 1607
ioam_check.alm	bound_iom_active	D 1607
ioam_ut.pl1	bound_iom_active	D 1607
ioam_ut1.pl1	bound_iom_active	D 1607
ncp_assign_.pl1	bound_network0_	R 1607
ncp_control_.pl1	bound_network0_	R 1607
pl1_operators_.mexp	bound_sss_wired_	R 1609
put_field_.alm	bound_sss_wired_	R 1609
put_format_.alm	bound_sss_wired_	A 1609
sub_err_.pl1	bound_error_handlers_	R 1612

II. Segment Change Log (continued)

<u>Segment Name</u>	<u>Bound Segment</u>	<u>Change #</u>
tc_init.pl1	bound_init_2	R 1607
terminate_proc.pl1	bound_error_active	R 1606
tty_free.pl1	bound_355_wired	R 1607
tty_index.pl1	bound_tty_active	R 1607
tty_init.pl1	bound_io_init	R 1607
tty_io_call_control_.pl1	bound_iox_	R 1613
tty_lock.pl1	bound_355_wired	R 1607
tty_read.pl1	bound_tty_active	R 1607
tty_write.pl1	bound_tty_active	R 1607

Include Files

area_info.incl.pl1		A 1608
area_structures.incl.alm		R 1608
area_structures.incl.pl1		R 1608
desc_types.incl.alm		A 1609
fgpx.incl.alm		R 1610
fgpx.incl.pl1		R 1610
pic_image.incl.alm		A 1609
plio2_ps.incl.alm		R 1609
plio_fb.incl.alm		A 1609
plio_format_codes.incl.alm		A 1609
plio_sb.incl.alm		A 1609
tty.incl.pl1		R 1607
tty_mode_names.incl.pl1		R 1607

Bindfiles

bound_error_active.bind		R 1606
bound_iom_active.bind		R 1607
bound_sss_active_.bind		R 1608
bound_sss_wired_.bind		R 1609
bound_tc_wired.bind		R 1607

III. Bound Segment Change Log

<u>Bound Segment</u>	<u>Change</u>
bound_355_wired	replaced: dn355 tty_free tty_lock
bound_error_active	replaced: terminate_proc
bound_error_handlers_	replaced: sub_err_

III. Bound Segment Change Log (continued)

<u>Bound Segment</u>	<u>Change</u>
bound_init_2	replaced: tc_init
bound_io_init	replaced: tty_init
bound_lom_active	replaced: loam_ deleted: loam_ut loam_ut1 call_detacher loam_check
bound_lox_	replaced: tty_io_call_control_
bound_network0_	replaced: ncp_assign_ ncp_control_
bound_process_creation	replaced: deact_proc init_proc
bound_sss_active_	added: define_area_
bound_sss_wired_	added: put_format_ replaced: pl1_operators_ any_to_any_ put_field_
bound_tc_wired	deleted: dstm_
bound_temp_1	replaced: init_pvt
bound_tty_active	replaced: tty_write tty_read tty_index
bound_imp_dlm_	replaced: imp_dcm_data
bound_imp_status	replaced: imp_dcm_data_masked

IV. Header Change Log

The header was changed for 28-6 to: delete the DST segment (dst_seg) and remove the name dstm_ from bound_tc_wired; replace names call_detacher, loam_, loam_check, loam_ut, and loam_ut1 with name for simplified loam_ on bound_lom_wired. add the names define_area_, release_area_, and get_next_area_ptr_ to bound_sss_active_; change the maximum length of the I/O

IV. Header Change Log (continued)

attachment table (IOAT) from 16K to 4K.