

TO: Distribution
FROM: George T. Williams
DATE: September 7, 1977
SUBJECT: Installation of MSS 31.13

I. SYSTEM CHANGE LOG

MCR MODIFICATIONS FOR MSS 31-13

- 9999 Fixes bug in `privileged_mode_ut` which causes system to loop by not wiring enough.
- 2789 Provides page fault counter on segments. This item is stored in the VTOCE. Directories don't have a page fault counter.
- 2817 Change `attach_name` to process quotes in attach descriptions.
- 2846 Fix area management bugs: (1) area not signalled for allocations greater than 2^{*18} words; (2) maximum allocation size off by 2 words; (3) `zero_on_alloc` didn't work for `no_freeing` areas.
- 2808 Cause `msf_manager_` to honor setting of safety switches on `msf` components when `msf_manager_$adjust` is called with the truncation switch set. Components with safety switch on will be zeroed but not deleted.
- 2787 Change `imp_status_driver` from `loc` to `aim` (`loc` obsolete).
- 2693 Check the validity of the "type" and "containing" fields in directories. Guard each thread-following loop with a count and a check against the number of items which should be on the thread. If an error is detected, signal "bad_dir_". Modify hardcore gate macros to accept a fifth optional argument which sets up a handler for `bad_dir_`; the handler will invoke `verify_lock`, to cause the online salvager to be invoked, and will then retry the file system operation once.
- 2701 Combine `star_` and `list_dir_` into a single program eliminating `dc_pack`. Sort VTOC entries in `star_` to minimize realtime delay. Copy whole directory into internal storage

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I. SYSTEM CHANGE LOG (continued)

MCR MODIFICATION

instead of copying single items.

2847 Eliminate out-of-service for directories.

2364 Make status_ return all information except names in the no_s_permission case.

II. SEGMENT CHANGE LOG

SEGMENT NAME		BOUND SEGMENT
acc_list.pl1	R	bound_file_system
acc_name.pl1	A	-
acc_name.pl1	R	bound_system_faults
access_class_check.pl1	R	bound_priv_procs
access_mode.pl1	R	bound_system_faults
acl.pl1	R	bound_file_system
acl.pl1	R	bound_file_system
activate.pl1	R	bound_system_faults
active_hardcore_data	R	-
admin_gate_.alm	R	-
alloc_.alm	R	bound_sss_wired_
append.pl1	R	bound_file_system
asd.pl1	R	bound_file_system
attach_name.pl1	R	bound_iox_
check_gate_acl_.pl1	R	bound_file_system
chname.pl1	R	bound_file_system
correct_quesd.pl1	R	bound_system_faults
dc_pack.pl1	D	bound_file_system
define_area_.pl1	R	bound_sss_active_
del_dir_tree.pl1	R	bound_file_system
delentry.pl1	R	bound_file_system
error_table_.alm	R	-
ex_acl.pl1	R	bound_mseg_prim
find.pl1	R	bound_system_faults
find_dirsegno.pl1	R	bound_system_faults
find_entry.pl1	R	bound_system_faults
fs_alloc.pl1	R	bound_system_faults
fs_get.pl1	R	bound_system_faults
hardcore.header	R	-
hash.pl1	R	bound_system_faults
hc_backup_.alm	R	-
hcs_.alm	R	-
hphcs_.alm	R	-
imp_status_driver.alm	R	bound_imp_status
initializer.pl1	R	bound_active_1
initiate.pl1	R	bound_system_faults

II. SEGMENT CHANGE LOG (continued)

SEGMENT NAME		BOUND SEGMENT
link_snap.pl1	R	bound_system_faults
list_dir.pl1	D	bound_file_system
list_inacl_all.pl1	R	bound_file_system
lock.pl1	R	bound_system_faults
make_msf_.pl1	R	bound_fsim_
make_seg.pl1	R	bound_file_system
mhcs_.aim	A	-
msf_manager_.pl1	R	bound_fsim_
on_line_salvager.pl1	R	bound_salvager
page_fault.aim	R	bound_page_control
phcs_.aim	R	-
privileged_mode_ut.aim	R	bound_priv_1
quota.pl1	R	bound_file_system
reclassify.pl1	R	bound_priv_procs
retv_copy.pl1	R	bound_hc_backup
retv_util.pl1	R	bound_hc_backup
ringer_.pl1	R	bound_file_system
salv_dir_checker_.pl1	R	bound_salvager
set.pl1	R	bound_file_system
set_sons_ivld.pl1	R	bound_file_system
star_.pl1	R	bound_file_system
status_.pl1	R	bound_system_faults
sum.pl1	R	bound_system_faults
system_privilege_.aim	R	-
template_address_space.pl1	R	bound_system_faults
template_address_space_.aim	R	-
truncate.pl1	R	bound_file_system
tty_.pl1	R	bound_iox_
uid_path_util.pl1	R	bound_system_faults
update_vtoce.pl1	R	bound_vtoc_man
validate_entryp.pl1	R	bound_system_faults
vclock.aim	D	bound_system_faults
verify_lock.pl1	R	bound_file_system
vtoc_attributes.pl1	R	bound_system_faults

BIND SEGMENTS

bound_file_system.bind	R
bound_system_faults.bind	R

II. SEGMENT CHANGE LOG (continued)

INCLUDE SEGMENTS

ahd.incl.pl1	R
aste.incl.a1a	R
aste.incl.pl1	R
dcpack_info.incl.pl1	A
dir_error_bits.incl.pl1	A
gate_macros.incl.a1a	R
sc_info.incl.pl1	R
star_info.incl.pl1	R
system_free_seg.incl.pl1	R
vtoce.incl.pl1	R