MULTICS STAFF BULLETIN - 83

TO: MSB Distribution

FROM: J. Andrews

DATE: December 26, 1972

SUBJECT: SPS Index by Function

The information in this MSB is current through revision 37 of the
SPS. The SPS Index is used as the data base.

This MSB is divided into two parts. Part 1 is a list of the
categories and Part 2 is a list of the modules that comprise each
category.

SPS Index by Function

Use this index to locate all segments listed in the SPS having to do with a particular function (subject, command, module, etc.)

First choose a subject from Part 1 then refer to Part 2 for a list of segments related to that subject.

Please address comments concerning this index to J. Andrews, Honeywell, or send mail to JAndrews Multics.

Part 1

abbrev (see command utility)
absentee user facility
access control
active function
address space manager
Administrative Ring Protection
administrative subroutine
alm (see command utility)
archive (see command utility)
ARPA Network

backup
BASIC (see command utility)
BCPL (see command utility)
bind (see command utility)
binder (see user subroutine)
bos

card I/O
command
command (admin)
command (card I/O)
command (FS)
command (I/O)
command (ms)
command (SS)
command (tool)
command (UC)
command environment
command utility
command utility (abbrev)
command utility (alm)
command utility (archive)
command utility (back trace)
command utility (basic)
command utility (bcol)
command utility (bind)
command utility (binder)

ios_ (see user subroutine)
IOSIM (I/O System Interface Module)

library updater
limited service system
linker control
lisp (see command utility)

math library
message segment utility
metering (see page, system metering)
metering tool
MST checker
multilevel

obsolete (includes probe)
on-line dump analysis

page control
page metering
peruse text (see command utility)
PL/I run-time support
pl1/fortran I/O
pl1 runtime support
prelinker
printer DCM
probe (see obsolete)
process control
process initialization
processor control

qedx (see command utility)
quota control

reconfiguration
runtime support (see fortran,,pl1)

salvager
see GUS (Graphics User's Supplement)
see Operator's Guide to BOS
see SWS (Subsystem Writers Supplement)
segment control
shutdown
Special Active Functions (see active functions)
submission test
system administration
system assurance
system control
system data base (see data base)
system initialization
system initialization (I/O)
system initialization (SC)
system initialization (TC)

```
system metering
system writearound

tape DCM (Device Control Module)
tape DSM (Device Strategy Module)
traffic control
translator daemon

user control
user data base (see data base)
User Ring I/O
User Ring IOSIM
User Ring IPC
user subroutine
user subroutine (binder)
user subroutine (file_)
user subroutine (graphics)
user subroutine (hcs_)
user subroutine (I/O)
user subroutine (IMP)
user subroutine (ios_)
user subroutine (tool)

writearound (see system writearound)
```

Part 2

In the list that follows, the segments are arranged in
alphabetical order within specific categories. For example, the
names of all segments that deal with Administrative Ring
protection may be found on the following page.

```
absentee_dim_              01/12/71   absentee user facility
absentee_dim_util_         09/13/72   absentee user facility
absentee_overseer_         01/13/71   absentee user facility
absentee_test_         *1             absentee user facility
absentee_user_manager_ *3 12/30/71   absentee user facility
absentee_utility_          03/24/72   absentee user facility
lar_util_                  10/29/71   absentee user facility

uct                        12/22/70   access control
usercode                   07/14/70   access control

get_pathname               see MPM    active function
od                         see MPM    active function
user                       see MPM    active function
user                       see SWS    active function
wd                         see MPM    active function

and                        see MPM    (Special Active Functions)
```

divide		see MPM	(Special Active Functions)
equal		see MPM	(Special Active Functions)
exists		see MPM	(Special Active Functions)
greater		see MPM	(Special Active Functions)
index		see MPM	(Special Active Functions)
index_set		see MPM	(Special Active Functions)
length		see MPM	(Special Active Functions)
less		see MPM	(Special Active Functions)
minus		see MPM	(Special Active Functions)
mod		see MPM	(Special Active Functions)
not		see MPM	(Special Active Functions)
or		see MPM	(Special Active Functions)
plus		see MPM	(Special Active Functions)
substr		see MPM	(Special Active Functions)
times		see MPM	(Special Active Functions)
kst_entry_check		07/06/72	address space manager
kst_man		10/22/71	address space manager
sum		10/19/71	address space manager
admin_gate_		08/25/71	Administrative Ring protection
installation_tools_		04/11/72	Administrative Ring protection
message_segment_		01/11/72	Administrative Ring protection
mseg_access_		06/22/71	Administrative Ring protection
msu_		06/24/71	Administrative Ring protection
netp_		10/06/72	Administrative Ring protection
ring_1_tools_		07/27/72	administrative subroutine
host_id_	*3	10/12/71	ARPA Network
host_table	*4		ARPA Network
imp_dim_		08/10/71	ARPA Network
imp_dim_buf_		01/28/71	ARPA Network
imp_dim_db	*4		ARPA Network
imp_get_buffer	*1		ARPA Network
imp_gioc_		02/09/71	ARPA Network
imp_global_status	*1		ARPA Network
imp_init	*1		ARPA Network
imp_macros	*4		ARPA Network
imp_order	*1		ARPA Network
imp_read	*1		ARPA Network
imp_service	*1		ARPA Network
imp_status		01/28/71	ARPA Network
imp_thread	*1		ARPA Network
imp_validate_lock	*1		ARPA Network
imp_write	*1		ARPA Network
imoseg_		01/12/71	ARPA Network
logger_		09/28/71	ARPA Network
ncp_		09/18/72	ARPA Network
ncp_global_data		11/29/72	ARPA Network
ncp_macros		09/28/71	ARPA Network
ncp_main_	*3	03/29/69	ARPA Network
ncp_proc_data	*4		ARPA Network

nco_ring_	*3	09/28/71	ARPA Network
nco_status_		10/06/72	ARPA Network
nco_sym_		06/14/71	ARPA Network
nco_tbl_		10/06/72	ARPA Network
nco_tboo_		09/21/72	ARPA Network
nco_util_		10/31/72	ARPA Network
nco_write_force_		09/15/72	ARPA Network
net_converter_	*4		ARPA Network
net_db_		09/13/72	ARPA Network
net_driver	*4		ARPA Network
net_log_	*4		ARPA Network
net_tty_		11/02/71	ARPA Network
netcall		02/08/72	ARPA Network
nttydim_	*3	02/09/72	ARPA Network
print_host		10/15/71	ARPA Network
set_net_uid		10/05/71	ARPA Network
telnet_	*1		ARPA Network
backup_cleanup		06/16/70	backup
backup_dump	*3	06/15/70	backup
backup_dump_recurse		06/15/70	backup
backup_load	*3	01/12/70	backup
backup_load_dir_list		05/08/72	backup
backup_map_		04/12/72	backup
backup_util		04/12/72	backup
bk_arg_reader_	*4		backup
bk_input		01/26/71	backup
bk_output		08/28/70	backup
bk_retrieve	*4		backup
bk_ss_	*3	02/11/72	backup
reload	*3	05/29/70	backup
sort_branches	*4		backup
start_dump	*3	06/17/71	backup
boot	*1		bos
bos include files	*4		bos
eou	*1		bos
gioc	*1		bos
gioc1	*1		bos
load (BOS)	*1		bos
loaddm	*4		bos
patch (BOS)		04/16/69	bos
salv	*1		bos
setup	*1		bos
taped	*1		bos
check_cd		08/17/71	card I/O
coseg		11/17/71	card I/O
date_deleter		02/17/71	card I/O
flipper_dim		01/06/72	card I/O
fliptab		08/23/71	card I/O
mcc_		05/10/72	card I/O
mcc_dim		01/06/72	card I/O

```
mpc_deck_conv              *4            card I/O
raw_                       05/02/72      card I/O
raw_dim                    01/07/72      card I/O
rdr21                      10/25/72      card I/O
rdr21_dim                  01/07/72      card I/O
vipunch_                   06/27/72      card I/O
vipunch_dim                01/06/72      card I/O

abbrev                     see MPM       command
adjust_bit_count           see MPM       command
alm                        see MPM       command
alm_abs                    see MPM       command
answer                     see MPM       command
archive                    see MPM       command
archive_sort               see MPM       command
basic                      see MPM       command
basic_run                  see MPM       command
basic_system               see MPM       command
bind                       see MPM       command
calc                       see MPM       command
cancel_abs_request         see MPM       command
cancel_abs_request         10/15/71      command
canonicalize               12/30/71      command
change_default_wdir        see MPM       command
change_error_mode          see MPM       command
change_wdir                see MPM       command
check_info_segs            see MPM       command
copy                       see MPM       command
copy_mst                   01/12/70      command
cv_omf                     see SWS       command
debug                      see MPM       command
decam                      see MPM       command
display_component_name     see MPM       command
dprint                     see MPM       command
dpunch                     see MPM       command
dump_segment               see MPM       command
edit_mst_header            07/27/70      command
edm                        see MPM       command
enter                      see MPM       command
enter_abs_request          see MPM       command
error_table_compiler       see SWS       command
exec_com                   see MPM       command
expand                     07/14/70      command
file_output                see MPM       command
fortran                    see MPM       command
fortran_abs                see MPM       command
help                       see MPM       command
hold                       see MPM       command
home_dir                   see MPM       command
how_many_users             see MPM       command
if                         01/28/72      command
initiate (command)         see MPM       command
lisp                       see MPM       command
```

```
list_abs_requests                      see MPM    command
list_abs_requests                      10/12/71   command
list_ref_names                         see MPM    command
mail                                   see MPM    command
make_commands                          see SWS    command
make_peruse_text                       see MPM    command
new_proc                               see MPM    command
peruse_text                            see MPM    command
pl1                                    see MPM    command
pl1_abs                                see MPM    command
pre_page_on                            see SWS    command
print (Multics)                        see MPM    command
print_attach_table                     see MPM    command
print_bind_map                         see MPM    command
print_dartmouth_library                see MPM    command
print_default_wdir                     see MPM    command
print_entry_usage                      see MPM    command
print_link_info                        see MPM    command
print_linkage_usage                    see MPM    command
print_search_rules                     see MPM    command
print_wdir                             see MPM    command
program_interrupt                      see MPM    command
qedx                                   see MPM    command
ready                                  see MPM    command
ready_off                              see MPM    command
ready_on                               see MPM    command
release                                see MPM    command
reorder_archive                        see MPM    command
reprint_error                          see MPM    command
resource_usage                         see MPM    command
runoff                                 see MPM    command
runoff                          *4                command
set_com_line                           see MPM    command
set_dartmouth_library                  see MPM    command
set_ring_brackets                      see SWS    command
sort_file                              see MPM    command
start                                  see MPM    command
trace_stack                            see MPM    command
translate_gate                         see SWS    command
walk_subtree                           see MPM    command
who                                    see MPM    command

setquota                               06/14/71   command (admin)

iocall                                 see MPM    command (I/O)
iomode                                 see MPM    command (I/O)
line_length                            see MPM    command (I/O)

message_segment_addname                01/11/72   command (ms)
message_segment_create                 09/08/71   command (ms)
message_segment_delete                 09/03/71   command (ms)
message_segment_deleteacl              08/06/71   command (ms)
message_segment_deletename             01/12/72   command (ms)
```

8

```
message_segment_listacl              08/17/71   command (ms)
message_segment_rename               01/31/72   command (ms)
message_segment_setacl               08/20/71   command (ms)
message_table_                       02/08/72   command (ms)
message_table_compiler               12/29/71   command (ms)

addname                           see  MPM     command (SS)
create                            see  MPM     command (SS)
createdir                         see  MPM     command (SS)
delete                            see  MPM     command (SS)
delete_dir                        see  MPM     command (SS)
deleteacl                         see  MPM     command (SS)
deleteforce                       see  MPM     command (SS)
deletename                        see  MPM     command (SS)
fs_chname                         see  MPM     command (SS)
getquota                          see  MPM     command (SS)
link                              see  MPM     command (SS)
list                              see  MPM     command (SS)
listacl                           see  MPM     command (SS)
move                              see  MPM     command (SS)
movequota                         see  MPM     command (SS)
names                             see  MPM     command (SS)
rename                            see  MPM     command (SS)
set_bit_count                     see  MPM     command (SS)
set_search_dirs                   see  MPM     command (SS)
set_search_rules                  see  MPM     command (SS)
setacl                            see  MPM     command (SS)
status (command)                  see  MPM     command (SS)
terminate                         see  MPM     command (SS)
unlink                            see  MPM     command (SS)
where                             see  MPM     command (SS)

alarm_clock_meters                   11/15/72   command (tool)
bc                             *1               command (tool)
change_tuning_parameters             05/10/71   command (tool)
cleanup                              01/04/71   command (tool)
copy_out                             04/21/72   command (tool)
copy_words                           01/22/71   command (tool)
cross_reference                      07/16/71   command (tool)
dialup_times                         05/10/71   command (tool)
disk_queue                           06/02/71   command (tool)
dump_anstbl                          03/08/71   command (tool)
enter_abs_request              *4               command (tool)
error_table_compiler           *1               command (tool)
file_system_meters             *3 06/10/71      command (tool)
flush                             12/04/70      command (tool)
force_printer_detach              02/17/71      command (tool)
gate_sw                           06/27/72      command (tool)
gen_sst_card                      03/27/72      command (tool)
generate_mst                      01/12/71      command (tool)
get_library_source             *3 01/03/72      command (tool)
lcref                             11/19/71      command (tool)
install                           11/16/70      command (tool)
```

```
internal_routines              09/12/72   command (tool)
loc                            11/30/72   command (tool)
list_sub_tree                  05/10/72   command (tool)
meter_fim                      05/16/72   command (tool)
meter_gate                     05/01/70   command (tool)
meter_signal                   12/07/71   command (tool)
msl_add                        02/26/71   command (tool)
msl_global_format              12/30/71   command (tool)
msl_info                       12/29/71   command (tool)
msl_short_format               01/03/72   command (tool)
msl_transmog                   11/06/70   command (tool)
msl_ud                         02/12/71   command (tool)
ncp_test                       01/14/71   command (tool)
nothing                        01/12/70   command (tool)
page_multilevel_meters         12/05/72   command (tool)
patch_ring_zero                11/04/70   command (tool)
pmsm                     *1                command (tool)
pre_page_meters                05/17/71   command (tool)
print_apt_entry                05/04/71   command (tool)
print_aste_ptp                 04/23/71   command (tool)
print_command_usage      *4                command (tool)
print_configuration_deck       11/13/72   command (tool)
print_dump_tape          *3 12/22/71      command (tool)
print_error_message            05/05/71   command (tool)
repeat                         04/30/70   command (tool)
ring_zero_dump                 11/09/70   command (tool)
set_timax                      06/01/71   command (tool)
setcopysw                      07/01/71   command (tool)
source_submission_test   *3 07/28/71      command (tool)
source_test_                   11/22/72   command (tool)
submission_test          *4                command (tool)
submit_abs_request             09/21/71   command (tool)
system_performance_graph       07/13/71   command (tool)
tape_channel_clear             03/24/72   command (tool)
test_tape                *4                command (tool)
test_timer_manager             07/16/71   command (tool)
total_time_meters              05/06/71   command (tool)
traffic_control_meters         05/06/71   command (tool)
traffic_control_queue          05/17/71   command (tool)
translate_gate                 10/24/72   command (tool)
tty_lines                      11/24/70   command (tool)
unassign_device                03/15/71   command (tool)
update_include                 05/28/71   command (tool)

logout                         see MPM    command (UC)
print_pdt                      10/24/72   command (UC)
print_pnt                      11/25/70   command (UC)
print_sat                      11/25/70   command (UC)

cp_data                  *4                command environment
default_error_handler_         01/07/72   command environment
full_command_processor_  *4                command environment
full_find_command_       *4                command environment
```

10

```
            lsn_util               *4              command environment
            real_hold_             *4              command environment
            real_init_admin_       *4              command environment
            real_sdh_              *4              command environment
            rest_of_cu_            *4              command environment

            active_fnc_err_        see MPM         command utility
            adjust_bit_count_      see MPM         command utility
            bindec                 07/30/71        command utility
            change_wdir_           see MPM         command utility
            check_path_name_       05/29/70        command utility
            check_priv_access_     12/29/70        command utility .
            com_err_               see MPM         command utility
            com_query_             12/30/70        command utility
            command_processor_     03/26/70        command utility
            command_usage_data_    04/25/72        command utility
            copy_acl_              see MPM         command utility
            copy_names_            see MPM         command utility
            copy_seq_              see MPM         command utility
            cu_                    see MPM         command utility
            cu_                    see SWS         command utility
            cu_                    06/23/71        command utility
            decode_definition_     11/16/72        command utility
            decode_descriptor_     see MPM         command utility
            dl_handler_            02/08/72        command utility
            equal_                 see MPM         command utility
            find_acl_names_        01/05/72        command utility
            find_include_file_     *4              command utility
            form_bind_map_         07/21/71        command utility
            get_bound_seg_info_    10/06/72        command utility
            get_com_line           see MPM         command utility
            get_primary_name_      09/14/72        command utility
            get_wdir_              see MPM         command utility
            interpret_bind_map_    12/30/71        command utility
            proc_brackets_         08/02/71        command utility
            proc_parens_           06/30/71        command utility
            proc_quotes_           07/01/71        command utility
            ti_                    see MPM         command utility
            translator_info_       *4              command utility

            abbrev_                see SWS         command utility (abbrev)

            alm                    07/30/71        command utility (alm)
            alm_cross_reference_   11/27/72        command utility (alm)
            alm_definitions_       11/13/72        command utility (alm)
            alm_include_file_      *4              command utility (alm)
            alm_source_map_        11/27/72        command utility (alm)
            almsym_                08/03/71        command utility (alm)
            ascevl_                04/05/71        command utility (alm)
            decevl_                04/12/72        command utility (alm)
            decode_link_           04/07/71        command utility (alm)
            decsub_                07/28/72        command utility (alm)
            eb_data_               *4              command utility (alm)
```

exnevl_		07/21/71	command utility (alm)
getbit_	*1		command utility (alm)
getId_		03/29/71	command utility (alm)
glol_		05/26/71	command utility (alm)
inouts_		04/06/71	command utility (alm)
litevl_	*1		command utility (alm)
lstman_	*4		command utility (alm)
make_alm_object_map_		11/27/72	command utility (alm)
merge_		03/16/71	command utility (alm)
modevl_		03/16/71	command utility (alm)
multics_645_assembler_	*3	03/26/71	command utility (alm)
new_sthedr_	*4		command utility (alm)
object_		02/08/72	command utility (alm)
octevl_		03/26/71	command utility (alm)
oolook_		03/26/71	command utility (alm)
oakblt_		03/12/71	command utility (alm)
oass1_		03/12/71	command utility (alm)
oass2_		03/15/71	command utility (alm)
oostp1_	*1		command utility (alm)
oostp2_		08/02/71	command utility (alm)
orlst_		07/23/71	command utility (alm)
ornam_		03/15/71	command utility (alm)
ornter_		02/25/71	command utility (alm)
orwrd_		02/02/71	command utility (alm)
oulnk_		02/02/71	command utility (alm)
ousmb_		02/02/71	command utility (alm)
outout_	*1		command utility (alm)
outxt_		02/03/71	command utility (alm)
setid_		02/02/71	command utility (alm)
sthedr_	*3	07/15/71	command utility (alm)
table_		05/26/71	command utility (alm)
utils_	*3	02/08/71	command utility (alm)
varevl_		06/03/71	command utility (alm)
vfdevl_		08/09/71	command utility (alm)
archive_aux_		08/28/72	command utility (archive)
archive_data_		05/01/72	command utility (archive)
archive_key_		06/14/71	command utility (archive)
archive_star_		12/29/70	command utility (archive)
archive_util_		05/02/72	command utility (archive)
find_fault_frame	*4		command utility (back trace)
find_op_	*4		command utility (back trace)
interoret_ptr	*4		command utility (back trace)
list_frame_args	*4		command utility (back trace)
list_onunits_	*4		command utility (back trace)
trace_stack_	*4		command utility (back trace)
bcol_alm_	*4		command utility (bcol)
bcol_cae0	*4		command utility (bcol)
bcol_cae1		11/27/72	command utility (bcol)
bcol_cae2	*4		command utility (bcol)
bcol_cg0		11/27/72	command utility (bcol)

```
bcol_cg1            *4                command utility (bcol)
bcol_cg2            11/27/72          command utility (bcol)
bcol_cg3            11/27/72          command utility (bcol)
bcol_cg4            11/10/72          command utility (bcol)
bcol_cg5            11/27/72          command utility (bcol)
bcol_cg6            11/27/72          command utility (bcol)
bcol_driver        11/13/72          command utility (bcol)
bcol_io_            *4                command utility (bcol)
bcol_lex0          11/27/72          command utility (bcol)
bcol_lex1          11/10/72          command utility (bcol)
bcol_lex2          11/27/72          command utility (bcol)
bcol_lib_           *4                command utility (bcol)
bcol_plist         11/27/72          command utility (bcol)
bcol_report         *4                command utility (bcol)
bcol_trans0        05/08/72          command utility (bcol)
bcol_trans1        11/27/72          command utility (bcol)
bcol_trans2         *4                command utility (bcol)
bcol_trans3        11/29/72          command utility (bcol)
bcol_trans4        04/13/72          command utility (bcol)
bcol_utility       11/15/72          command utility (bcol)
bcol_version       11/10/72          command utility (bcol)

binder_            01/14/71          command utility (bind)
binder_vers_       04/06/71          command utility (bind)
dissect_object_    12/28/70          command utility (bind)
ext_link_          04/06/71          command utility (bind)
generate_def_      12/28/70          command utility (bind)
get_relinfo_       01/07/71          command utility (bind)
incorporate_options_  12/28/70       command utility (bind)
int_link_          04/05/71          command utility (bind)
make_bindmap_      07/21/71          command utility (bind)
make_bound_object_map_  09/12/72     command utility (bind)
make_defs_         12/28/70          command utility (bind)
parse_bindfile_    12/28/70          command utility (bind)
rebuild_object_    12/28/70          command utility (bind)
relocate_symbol_   09/07/72          command utility (bind)
temp_mgr_          04/02/71          command utility (bind)

append_relocation_bits_  06/26/70    command utility (binder)
comp_acc_          06/26/70          command utility (binder)
compute_link_info_ 06/26/70          command utility (binder)
erase_seg_num_     06/26/70          command utility (binder)
fix_linkage_section_  07/14/70       command utility (binder)
fndref_            09/21/70          command utility (binder)
get_ext_sym_       07/14/70          command utility (binder)
get_sym_def_       07/14/70          command utility (binder)
insert_seg_num_    07/14/70          command utility (binder)
relocate_segment_  07/14/70          command utility (binder)

ffip               03/02/70          command utility (calc)
ffop               03/02/70          command utility (calc)

db_alm             10/08/71          command utility (debug)
```

```
db_assign                        05/17/71   command utility (debug)
db_break                         06/04/71   command utility (debug)
db_data                          06/25/71   command utility (debug)
db_get_count                     05/17/71   command utility (debug)
db_print                         05/18/71   command utility (debug)
db_reg                           06/15/71   command utility (debug)
db_sym                           05/17/71   command utility (debug)
debug                            06/14/71   command utility (debug)
dissassemble                     05/18/71   command utility (debug)
get_break_map_ptr_               10/24/72   command utility (debug)
get_sym                          06/25/71   command utility (debug)
gr_print                         10/05/71   command utility (debug)
legal_f_                         06/18/71   command utility (debug)
scan_arg_                        05/17/71   command utility (debug)

find_operator_name_              12/15/71   command utility (deh)

eval_ec_if_test_         *4                 command utility (exec_com)
exec_com                         01/13/71   command utility (exec_com)
exec_com_                        01/13/71   command utility (exec_com)
process_input_string_            04/12/72   command utility (exec_com)

expand_                          09/17/70   command utility (expand)

dcl                              11/26/71   command utility (fortran)
endfile                          see MPM    command utility (fortran)
entry_vector             *1                 command utility (fortran)
expression_parse                 11/19/71   command utility (fortran)
flex                             12/30/71   command utility (fortran)
fortran                          12/22/71   command utility (fortran)
fortran_assign_parse             12/20/71   command utility (fortran)
fortran_blast_           *1                 command utility (fortran)
fortran_crse_parse               12/22/71   command utility (fortran)
fortran_data                     11/22/71   command utility (fortran)
fortran_data_image       *1                 command utility (fortran)
fortran_do_parse                 12/15/71   command utility (fortran)
fortran_error_messages           11/09/71   command utility (fortran)
fortran_error_messages.message 11/2/71      command utility (fortran)
fortran_format_parse             12/21/71   command utility (fortran)
fortran_if_parse                 12/20/71   command utility (fortran)
fortran_io_              *1                 command utility (fortran)
fortran_io_parse                 12/21/71   command utility (fortran)
fortran_parse                    12/21/71   command utility (fortran)
fortran_reserve                  09/12/72   command utility (fortran)
fortran_subroutine_parse         11/26/71   command utility (fortran)
fortran_symbol_print             11/10/71   command utility (fortran)
ft_link_vector           *1                 command utility (fortran)
ftn_io_input_            *1                 command utility (fortran)
ftn_lex_data                     12/20/71   command utility (fortran)
ftnio_                   *1                 command utility (fortran)
go_to_parse                      11/23/71   command utility (fortran)
initial_attribute                12/07/71   command utility (fortran)
make_format                      12/20/71   command utility (fortran)
```

```
operator_semantics          11/23/71   command utility (fortran)
prologue_entry              11/09/71   command utility (fortran)
reference_parse             11/26/71   command utility (fortran)
replace_parameters          11/26/71   command utility (fortran)
set_parameters              12/03/71   command utility (fortran)
stmnt_func_parse            12/01/71   command utility (fortran)
subscripter                 11/26/71   command utility (fortran)
type                        12/08/71   command utility (fortran)

lc_compute_result_          09/08/71   command utility (lisp)
lc_constants_               08/20/71   command utility (lisp)
lc_entries_                 09/08/71   command utility (lisp)
lc_labels_                  08/31/71   command utility (lisp)
lc_load_                    08/24/71   command utility (lisp)
lc_output_                  09/08/71   command utility (lisp)
lc_store_arg_               08/23/71   command utility (lisp)
lc_test_condition_          08/23/71   command utility (lisp)
lc_variables_               08/31/71   command utility (lisp)
lisp                        05/21/71   command utility (lisp)
lisp_                       07/21/71   command utility (lisp)
lisp_alloc_                 04/29/71   command utility (lisp)
lisp_buffer_man_            04/29/71   command utility (lisp)
lisp_char_fns_              02/02/71   command utility (lisp)
lisp_compiler_              09/03/71   command utility (lisp)
lisp_compiler_globals_      10/28/71   command utility (lisp)
lisp_define_                05/25/71   command utility (lisp)
lisp_err_                   05/25/71   command utility (lisp)
lisp_eval_utils_            07/23/71   command utility (lisp)
lisp_garbage_collector_     04/29/71   command utility (lisp)
lisp_get_atom_              04/29/71   command utility (lisp)
lisp_io_                    06/02/71   command utility (lisp)
lisp_lex_                   06/14/71   command utility (lisp)
lisp_list_utils_            06/03/71   command utility (lisp)
lisp_oblist_fns_            01/28/71   command utility (lisp)
lisp_operators_             11/24/71   command utility (lisp)
lisp_prologue_interpreter_  09/27/71   command utility (lisp)
lisp_property_fns_     *1              command utility (lisp)
lisp_save_                  04/29/71   command utility (lisp)
lisp_segment_manager_       05/04/71   command utility (lisp)
lisp_special_fns_           07/21/71   command utility (lisp)
lisp_standard_environment_ *1          command utility (lisp)
lisp_static_vars_           08/02/71   command utility (lisp)
lisp_utils_                 05/21/71   command utility (lisp)

msl_update                  04/01/70   command utility (msl)
msl_util                    12/09/70   command utility (msl)
msl_util1                   11/02/70   command utility (msl)

gm_data_                    01/19/71   command utility (mst gen)
gm_error_                   07/31/70   command utility (mst gen)
gm_path_list                01/21/71   command utility (mst gen)
gm_util1_                   07/31/70   command utility (mst gen)
gm_util_                    07/31/70   command utility (mst gen)
```

15

gm_write_first_seg_		07/31/70	command utility (mst gen)
builtin_function		12/15/71	command utility (pl1)
initialize_builtin	*1		command utility (pl1)
static_area	*1		command utility (pl1)
arith_data	*1		command utility (pl1/fortran)
arith_op		08/04/71	command utility (pl1/fortran)
assign_op		07/29/71	command utility (pl1/fortran)
assign_storage		07/30/71	command utility (pl1/fortran)
base_man		07/28/71	command utility (pl1/fortran)
c_a		07/30/71	command utility (pl1/fortran)
call_op		07/26/71	command utility (pl1/fortran)
cg_entry_vector	*1		command utility (pl1/fortran)
cg_error		07/28/71	command utility (pl1/fortran)
cg_signal_catcher	*1		command utility (pl1/fortran)
cg_stat	*4		command utility (pl1/fortran)
code_generator		07/28/71	command utility (pl1/fortran)
compare_expression	*1		command utility (pl1/fortran)
compile_block	*4		command utility (pl1/fortran)
compile_entry	*4		command utility (pl1/fortran)
compile_exp	*4		command utility (pl1/fortran)
compile_link	*4		command utility (pl1/fortran)
compile_messages		11/11/71	command utility (pl1/fortran)
compile_statement	*4		command utility (pl1/fortran)
compile_tree	*4		command utility (pl1/fortran)
complex_stuff	*1		command utility (pl1/fortran)
constant_zero	*4		command utility (pl1/fortran)
convert		11/24/71	command utility (pl1/fortran)
copy_expression		11/23/71	command utility (pl1/fortran)
copy_temp	*4		command utility (pl1/fortran)
create_array		12/03/71	command utility (pl1/fortran)
create_block		11/24/71	command utility (pl1/fortran)
create_bound		11/05/71	command utility (pl1/fortran)
create_context		12/05/71	command utility (pl1/fortran)
create_cross_reference		12/03/71	command utility (pl1/fortran)
create_identifier		11/24/71	command utility (pl1/fortran)
create_label		11/15/71	command utility (pl1/fortran)
create_list		11/23/71	command utility (pl1/fortran)
create_operator		12/03/71	command utility (pl1/fortran)
create_parameter		11/24/71	command utility (pl1/fortran)
create_reference		12/05/71	command utility (pl1/fortran)
create_statement		12/04/71	command utility (pl1/fortran)
create_storage		11/05/71	command utility (pl1/fortran)
create_symbol		11/24/71	command utility (pl1/fortran)
create_token		12/03/71	command utility (pl1/fortran)
declaration_parse		12/31/71	command utility (pl1/fortran)
declare_constant		11/29/71	command utility (pl1/fortran)
declare_descriptor		11/29/71	command utility (pl1/fortran)
declare_integer		11/11/71	command utility (pl1/fortran)
declare_label	*4		command utility (pl1/fortran)
declare_pointer		11/18/71	command utility (pl1/fortran)
declare_temporary		11/24/71	command utility (pl1/fortran)

16

display_pl1_map		07/22/71	command utility (pl1/fortran)
display_pl1_text		07/22/71	command utility (pl1/fortran)
display_text		07/21/71	command utility (pl1/fortran)
dummy		07/21/71	command utility (pl1/fortran)
error		11/23/71	command utility (pl1/fortran)
error_		11/26/71	command utility (pl1/fortran)
exp_op		07/23/71	command utility (pl1/fortran)
expmac	*4		command utility (pl1/fortran)
expmac_test	*4		command utility (pl1/fortran)
free_node		11/05/71	command utility (pl1/fortran)
gen_pl1_linkage		10/28/71	command utility (pl1/fortran)
gen_pl1_symbol		12/03/71	command utility (pl1/fortran)
get_array_size		11/11/71	command utility (pl1/fortran)
get_reference	*4		command utility (pl1/fortran)
get_size		12/03/71	command utility (pl1/fortran)
initialize_ext_static		11/02/71	command utility (pl1/fortran)
initialize_int_static	*4		command utility (pl1/fortran)
instruction_info	*1		command utility (pl1/fortran)
jump_op	*4		command utility (pl1/fortran)
link_vector	*1		command utility (pl1/fortran)
load (Multics)	*4		command utility (pl1/fortran)
m_a	*4		command utility (pl1/fortran)
macro_table	*1		command utility (pl1/fortran)
make_mod	*1		command utility (pl1/fortran)
min_max	*4		command utility (pl1/fortran)
name_assign	*4		command utility (pl1/fortran)
op_mnemonic	*1		command utility (pl1/fortran)
opcode_info	*1		command utility (pl1/fortran)
parse_error		01/10/72	command utility (pl1/fortran)
pl1_error_print		02/11/72	command utility (pl1/fortran)
pl1_get	*1		command utility (pl1/fortran)
pl1_print	*1		command utility (pl1/fortran)
pl1_stat	*1		command utility (pl1/fortran)
pl1_symbol_print		07/23/71	command utility (pl1/fortran)
pointer_builtins		08/03/71	command utility (pl1/fortran)
power_of_two	*1		command utility (pl1/fortran)
prepare_operand		07/23/71	command utility (pl1/fortran)
prepare_symbol_map		07/28/71	command utility (pl1/fortran)
refer_extent	*1		command utility (pl1/fortran)
set_indicators		07/23/71	command utility (pl1/fortran)
sort_on_dcl_type		07/30/71	command utility (pl1/fortran)
stack_temp		07/28/71	command utility (pl1/fortran)
state_man	*4		command utility (pl1/fortran)
statement_recognizer		03/23/72	command utility (pl1/fortran)
store	*1		command utility (pl1/fortran)
store_bit_address	*1		command utility (pl1/fortran)
string_op	*1		command utility (pl1/fortran)
sym_sort_alphabetic	*1		command utility (pl1/fortran)
tree_manager		11/22/71	command utility (pl1/fortran)
xr_man	*1		command utility (pl1/fortran)
build_peruse_text_		10/06/72	command utility (pt)
make_peruse_text		09/21/72	command utility (pt)

17

```
peruse_text                      09/21/72   command utility (pt)
peruse_text object segment       10/24/72   command utility (pt)
string_to_label_                 09/21/72   command utility (pt)

edx_util_                        11/12/70   command utility (qedx)
get_addr_                        11/24/70   command utility (qedx)
search_file_                     11/16/70   command utility (qedx)

drum_recs_                       07/08/71   command utility (spg)
spg_ring_0_info_                 07/07/71   command utility (spg)
spg_util_                        08/13/71   command utility (spg)

meter_util_                      05/02/72   command utility (tool)

cl_dcm                           05/06/71   communication line DCM
cl_status                        04/29/70   communication line DCM
cldim                            04/12/71   communication line DCM
cldim_                           04/02/71   communication line DCM
clseg                  *1                   communication line DCM

cref_analyze_                    08/09/71   cross-referencer
cref_listman_                    07/21/71   cross-referencer
cref_print_                      07/23/71   cross-referencer
cref_sort_                       08/03/71   cross-referencer

daemon_user_manager    *4                   daemon manager

check_dart_access_               10/15/71   Dartmouth subsystem
conv_600_bcd_                    09/27/71   Dartmouth subsystem
dart_access_util_                01/11/72   Dartmouth subsystem
dart_cat_control_                09/27/71   Dartmouth subsystem
dart_cat_locker_                 07/21/71   Dartmouth subsystem
dart_catalog_command_            08/16/71   Dartmouth subsystem
dart_command_simulator_          12/30/71   Dartmouth subsystem
dart_compiler_prepare_           09/23/71   Dartmouth subsystem
dart_editor_prepare_             02/12/71   Dartmouth subsystem
dart_io_mmes_                    04/26/71   Dartmouth subsystem
dart_login_responder_            03/23/72   Dartmouth subsystem
dart_non_trapping_mmes_          06/01/71   Dartmouth subsystem
dart_open_mme_                   05/27/71   Dartmouth subsystem
dart_runtime_prepare_            04/21/71   Dartmouth subsystem
dart_trapping_mmes_              10/14/70   Dartmouth subsystem
dartmouth_access_control_        08/02/71   Dartmouth subsystem
dartmouth_card_process           11/06/70   Dartmouth subsystem
dartmouth_catalog                09/09/71   Dartmouth subsystem
dartmouth_data_                  09/28/71   Dartmouth subsystem
dartmouth_initializer_           07/21/71   Dartmouth subsystem
dartmouth_mme_handler_           02/02/71   Dartmouth subsystem
dartmouth_mme_list               04/23/71   Dartmouth subsystem
dartmouth_overseer_              08/10/71   Dartmouth subsystem
dartmouth_util_                  01/03/72   Dartmouth subsystem
delete_carriage_returns_         08/13/71   Dartmouth subsystem
drtmth_mme_names_                02/16/71   Dartmouth subsystem
```

dump_algol_audit		07/19/71	Dartmouth subsystem
dump_dartmouth_catalog		12/29/71	Dartmouth subsystem
dump_dartmouth_tape		10/14/71	Dartmouth subsystem
dump_frn_table		05/27/71	Dartmouth subsystem
fiddle_		11/02/70	Dartmouth subsystem
header_dump_		09/24/71	Dartmouth subsystem
insert_carriage_returns_		08/13/71	Dartmouth subsystem
patch_dart_sequence_numbers		09/20/71	Dartmouth subsystem
read_dart_tape_file_	*4		Dartmouth subsystem
test_dartmouth		09/23/71	Dartmouth subsystem
fsdct		07/20/72	data base
lock_seg	*4		data base
archive_segment		05/10/72	data base (archive)
system_free_seg		10/18/71	data base (hardcore)
wired_hardcore_data		07/20/71	data base (hardcore utility)
mseg_meter_data_		09/08/71	data base (message segment)
operator_names		07/23/71	data base (pl1/fortran)
active_all_rings_data		08/16/71	data base (system)
ast		12/05/72	data base (system)
cmp	*4		data base (system)
cnt	*4		data base (system)
pdme	*4		data base (system)
ptw (old)	*4		data base (system)
ptw	*4		data base (system)
sst	*4		data base (system)
str	*4		data base (system)
sys_info		07/17/72	data base (system)
tseg		05/25/72	data base (tape DSM/DCM)
free_	*1		data base (user)
acl		03/27/72	directory control
append		12/14/70	directory control
appmode		04/21/71	directory control
branch_info_		02/11/71	directory control
chname		04/21/70	directory control
dc_pack		06/17/71	directory control
del_dir_tree		04/24/69	directory control
delentry		04/02/71	directory control
dir_cleanup		10/05/70	directory control
find_		08/17/71	directory control
fs_move		05/07/70	directory control
list_dir		06/16/71	directory control
match_star_		10/21/70	directory control
set		05/14/71	directory control

19

```
star_                               04/10/72    directory control
truncate                            04/05/71    directory control

dump_machine_cond_          *4                  error analysis
get_obr_                            12/15/71    error analysis
get_simple_names_                   12/08/71    error analysis
get_tbr_                            01/05/72    error analysis
linkage_error_                      12/20/71    error analysis
look_at_link_                       12/21/71    error analysis
pl1_frame_                          06/13/72    error analysis
special_messages_                   12/21/71    error analysis

call_deh_test_gate                  07/11/72    error checkout
deh_test1                           06/16/72    error checkout
deh_test2                           05/31/72    error checkout
deh_test3                           05/08/72    error checkout
deh_test4                           05/08/72    error checkout
deh_test5                           05/24/72    error checkout
deh_test6                           05/08/72    error checkout
deh_test7                           07/11/72    error checkout
deh_test8                           05/08/72    error checkout
deh_test9                           05/08/72    error checkout
deh_test_admin                      06/13/72    error checkout
deh_test_gate_                      06/27/72    error checkout
test_default_error_handler          05/31/72    error checkout
test_deh.ec                         05/08/72    error checkout
test_faults_                        05/10/72    error checkout
trace_link_                         12/15/71    error checkout

cl_tv_                      *4                   fast command loop
decode_descriptor_tv_      *4                   fast command loop
fast_hc_loc_tv             *4                   fast command loop
full_cp_tv_                *4                   fast command loop
get_at_entry_tv_           *4                   fast command loop
get_to_cl_tv_              *4                   fast command loop
process_overseer_tv_       *4                   fast command loop
rest_of_loa_tv_            *4                   fast command loop
sss_active_tv              *4                   fast command loop
tty_read_tv                *4                   fast command loop
tty_write_tv               *4                   fast command loop

fs_alloc                            04/25/69    file system utility
getuid                              03/17/71    file system utility
hash                                07/20/71    file system utility
hash_index                          12/17/70    file system utility
thread                              04/24/69    file system utility
util_                               12/11/70    file system utility
verify_lock                         06/03/71    file system utility

exit                       *1                   fortran runtime support
fortran_pause_             *1                   fortran runtime support
fortran_stop_             *1                   fortran runtime support
imag                       *1                   fortran runtime support
```

```
file                              03/26/71   FSIM
file_                             09/09/71   FSIM

assign                            see GIOC   Calls  (hcs_)
get_cur_status                    see GIOC   Calls  (hcs_)
get_status                        see GIOC   Calls  (hcs_)
list_change                       see GIOC   Calls  (hcs_)
list_connect                      see GIOC   Calls  (hcs_)
list_size                         see GIOC   Calls  (hcs_)
safety                            see GIOC   Calls  (hcs_)
unassign                          see GIOC   Calls  (hcs_)

bufi_                             04/07/71   graphics
bufo                              04/08/71   graphics
bufo_                             04/07/71   graphics
display_attach                    03/29/71   graphics
gf_int_                           04/07/71   graphics

check_trailer                     03/29/72   hardcore debugging
compare_trap                      06/02/71   hardcore debugging
copy_dump                         03/29/72   hardcore debugging
copy_fdump                        04/06/72   hardcore debugging
copy_salvager_output              04/12/72   hardcore debugging
debug_check                       07/07/71   hardcore debugging
extract                           04/07/72   hardcore debugging
ring0_init                  *4               hardcore debugging
syserr                            01/31/72   hardcore debugging
syserr_real                       01/31/72   hardcore debugging
xray_communications               07/06/71   hardcore debugging

parity_fault                      02/04/72   hardcore error handling
proc_info                         04/10/72   hardcore error handling
ring_zero_cleanup                 03/15/71   hardcore error handling

absadr                            01/06/71   hardcore I/O
channel                     *1               hardcore I/O
check                       *1               hardcore I/O
dn355                             07/26/72   hardcore I/O
dn355_init                        04/25/72   hardcore I/O
dn355_util                        02/24/72   hardcore I/O
dsu170_control                    01/04/71   hardcore I/O
gim1                        *1               hardcore I/O
gim2                        *1               hardcore I/O
gim3                              02/03/71   hardcore I/O
gim4                        *1               hardcore I/O
gim_alloc                         02/03/71   hardcore I/O
gioc_stat                   *1               hardcore I/O
mini_gim                          06/23/70   hardcore I/O
printer_dcm                       02/17/70   hardcore I/O
printer_status                    02/12/70   hardcore I/O
prt300_ge_ext_buffer_image  *4               hardcore I/O
prt_ccnv                          02/12/70   hardcore I/O
tape_checksum_                    07/07/71   hardcore I/O
```

```
trace                             01/12/71   hardcore I/O
trace_rsw                         01/05/71   hardcore I/O
tty_con                     *1                hardcore I/O
tty_ctl                           01/06/71   hardcore I/O
tty_free                          01/06/71   hardcore I/O
tty_index                         10/13/72   hardcore I/O
tty_init                          02/25/72   hardcore I/O
tty_inter                         01/05/71   hardcore I/O
tty_macros                  *1                hardcore I/O
tty_read                          01/08/71   hardcore I/O
tty_unlock                        01/08/71   hardcore I/O
tty_write                   *3 01/08/71      hardcore I/O

dstint                            07/21/71   hardcore IPC
dstm_                             03/15/71   hardcore IPC
hc_ipc                      *3 04/01/71      hardcore IPC

ex_acl                            06/23/71   hardcore protection
gate                        *3 09/09/71      hardcore protection
hcs_                              04/12/72   hardcore protection
hphcs_                            04/12/72   hardcore protection
imp_dim_gate_                     06/16/71   hardcore protection
makestack                   *3 02/05/71      hardcore protection
net_                              10/06/72   hardcore protection
phcs_                             09/12/72   hardcore protection
phnxhcs_                          07/14/72   hardcore protection
rest_of_gate                *4                hardcore protection
validate_arg                      04/13/70   hardcore protection

level                             04/05/71   hardcore utility
lock                        *3 03/17/71      hardcore utility
master_mode_ut              *3 02/09/71      hardcore utility
try_to_unlock_lock                01/01/72   hardcore utility

glm_assign                        09/14/72   hardware I/O

block                             .see Interprocess Communication (hcs_)
fast_hc_ipc_                      10/06/72   Interprocess Communication
fast_loc                    *4                Interprocess Communication
full_ipc_                         09/12/72   Interprocess Communication
Interprocess Communication        see MPM
ipc_                              see MPM    Interprocess Communication
wakeup                            see Interprocess Communication (hcs_)

daemon_exec_                      04/06/71   I/O daemon
daemon_init                       03/24/72   I/O daemon
io_daemon                         06/03/71   I/O daemon
ortdim_                           09/08/71   I/O daemon
read_cards                        02/18/70   I/O daemon
tail_sheet_                       02/08/71   I/O daemon

call_detacher                     03/15/71   IOAT Manager
ioam_                             04/06/71   IOAT Manager
```

ioam_check		03/15/71	IOAT Manager
ioam_ut		03/15/71	IOAT Manager
ioam_ut1		03/29/71	IOAT Manager
ioat		04/06/71	IOAT Manager
broadcast_		see MPM	User Ring IOSIM
discard_output_		see MPM	User Ring IOSIM
file_		see MPM	User Ring IOSIM
nstd_		see MPM	User Ring IOSIM
ntw_	*4		User Ring IOSIM
syn		see MPM	User Ring IOSIM
tape_		see MPM	User Ring IOSIM
tw_		see MPM	User Ring IOSIM
del_list_proc_		04/13/71	library updater
header_meld		04/01/70	library updater
internal_routines_table_		11/13/72	library updater
laddname		03/27/72	library updater
ldelete		04/07/72	library updater
ldeleteacl		07/11/72	library updater
ldeletename		04/21/72	library updater
llistacl		04/28/72	library updater
lnames		04/28/72	library updater
lpatch	*4		library updater
lrename		04/21/72	library updater
lsetacl		04/10/72	library updater
map_proc		04/01/70	library updater
object_test_	*4		library updater
replacer		04/01/70	library updater
source_update	*1		library updater
update_bind		12/23/71	library updater
update_handler_	*4		library updater
update_info		04/11/72	library updater
update_object		01/05/72	library updater
update_source		12/07/71	library updater
updater		04/03/70	library updater
lss_command_list_		01/12/71	limited service system
lss_login_responder_		01/11/71	limited service system
accept_alm_obj		11/20/72	linker control
datmk_	*1		linker control
datmk_util_	*1		linker control
fs_search		08/13/71	linker control
get_defname		07/13/72	linker control
get_defptr	*4		linker control
initiate_search_rules	*1		linker control
link_man		11/13/72	linker control
link_snap		04/22/71	linker control
lot_maintainer		08/05/69	linker control
make_cls	*4		linker control
make_lot	*4		linker control

asin_	*1	math library
asinh_	*1	math library
atan2_	*1	math library
cabs_	*1	math library
casin_	*1	math library
cexp_	*1	math library
clog_	*1	math library
code_	*1	math library
csin_	*1	math library
csqrt_	*1	math library
cxp1_	*1	math library
dasin_	*1	math library
dasinh_	*1	math library
datan2_	*1	math library
derf_	*1	math library
dexerfc_	*1	math library
dexp_	*1	math library
dlog_	*1	math library
dmod_	*1	math library
dsin_	*1	math library
dsinh_	*1	math library
dsqrt_	*1	math library
dtan_	*1	math library
dtanh_	*1	math library
dxp1_	*1	math library
dxp2_	*1	math library
erf_	*1	math library
exerfc_	*1	math library
exp_	*1	math library
iexp_	*1	math library
log_	*1	math library
round_	*1	math library
sin_	*1	math library
sinh_	*1	math library
sqrt_	*1	math library
tan_	*1	math library
tanh_	*1	math library
xp2_	*1	math library
xp3_	*1	math library
exil_handler_	12/30/71	message segment utility
exnd_handler_	08/06/71	message segment utility
ms_salv_util_	04/29/71	message segment utility
ms_salvager_	04/29/71	message segment utility
mseg_	01/10/72	message segment utility
mseg_add_	06/24/71	message segment utility
mseg_chname_	01/28/72	message segment utility
mseg_data_	08/02/71	message segment utility
mseg_initiate	*4	message segment utility
mseg_own_	07/29/71	message segment utility
mseg_util_	06/24/71	message segment utility
print_message_segment_meters	09/21/71	message segment utility
ptr_is_good_	06/22/71	message segment utility

ring_1_lock_		10/21/71	message segment utility
check_mst		08/13/71	MST checker
checker_		01/04/71	MST checker
checker_print_		02/01/71	MST checker
crossref_		01/08/71	MST checker
get_collection_		12/22/70	MST checker
loading_summary_		01/08/71	MST checker
mst_checker	*1		MST checker
rsw_ckr_		01/04/71	MST checker
sslt_manager_		07/06/71	MST checker
get_def_lth		12/22/70	MST checker (on-line)
tape_reader_		06/30/71	MST checker (on-line)
adjust_device		11/29/72	multilevel
assign_device		05/04/72	multilevel
areamk_	*2		obsolete
bin_dec	*2		obsolete
binder_data_	*2		obsolete
call_trace	*2		obsolete
cptr	*2		obsolete
ctl_char	*2		obsolete
cv_bin_	*2		obsolete
cv_string	*2		obsolete
debug_data	*2		obsolete
debug_util	*2		obsolete
dec_bin_	*2		obsolete
direct_output	*2		obsolete
dispatch_request	*2		obsolete
dump_process	*2		obsolete
eswa_	*2		obsolete
ftn_io_binary_	*2		obsolete
ftn_io_format_	*2		obsolete
ftn_io_init_	*2		obsolete
ftn_io_namelist_	*2		obsolete
ftn_io_output_	*2		obsolete
get_count	*2		obsolete
get_data_type	*2		obsolete
get_debug_segment	*2		obsolete
global	*2		obsolete
hbound_	*2		obsolete
lbound_	*2		obsolete
legal_frame	*2		obsolete
lg	*2		obsolete
list_arguments	*2		obsolete
machine_state	*2		obsolete
move_	*2		obsolete
ms_	*2		obsolete
multics_wdir	*2		obsolete
oct_bin_	*2		obsolete
parse_scan	*2		obsolete

patch (probe)	*2		obsolete
pdir	*2		obsolete
pl1_to_epl	*2		obsolete
print_args	*2		obsolete
print_it	*2		obsolete
print_object_map	*2		obsolete
print_seg_info	*2		obsolete
probe	*2		obsolete
quit_process_id	*2		obsolete
readacl	*2		obsolete
search_dup_entries_	*2		obsolete
seg_in_octal	*2		obsolete
setpath	*2		obsolete
size	*2		obsolete
smm	*2		obsolete
stack_frame_	*2		obsolete
status (hardcore)	*2		obsolete
tdope_	*2		obsolete
tio_	*2		obsolete
write_debug_line	*2		obsolete
writeacl	*2		obsolete
copy_dump_seg_		06/10/71	on-line dump analysis
format_dump_line_		05/26/71	on-line dump analysis
od_print_		06/02/71	on-line dump analysis
online_dump		05/25/71	on-line dump analysis
print_dump_seg_name_		06/07/71	on-line dump analysis
bulk_store_control	*4		page control
device_control		07/25/72	page control
drum_control		11/15/72	page control
free_store		07/25/72	page control
page		07/24/72	page control
page_error		07/28/72	page control
page_fault		07/28/72	page control
pc		11/13/72	page control
pc_trace		07/11/72	page control
pc_trace_pl1		07/11/72	page control
pc_wired		12/04/70	page control
pd_util		11/16/72	page control
pp_code_tree	*4		page control
pre_page		08/16/72	page control
page_trace		see MPM	command (page metering)
complex_decimal_op_	*4		PL/I run-time support
decimal_op_	*4		PL/I run-time support
dlexp_		12/09/70	PL/I run-time support
multi_decimal_op_	*4		PL/I run-time support
pl1_operators	*1		PL/I run-time support
pl1_time	*4		PL/I run-time support
translate_	*4		PL/I run-time support

Name	Flag	Date	Category
bvd_table		01/03/72	pl1/fortran I/O
ctn	*1		pl1/fortran I/O
dnd		01/11/72	pl1/fortran I/O
ntb	*1		pl1/fortran I/O
ntc	*1		pl1/fortran I/O
ntn	*1		pl1/fortran I/O
plio2_baseconv_		01/03/72	pl1/fortran I/O
plio2_ctn_		01/11/72	pl1/fortran I/O
plio2_genconv_		10/24/72	pl1/fortran I/O
plio2_ntb_		01/03/72	pl1/fortran I/O
plio2_ntc_		01/03/72	pl1/fortran I/O
plio2_ntn_		01/03/72	pl1/fortran I/O
pl2_operators	*1		pl1 runtime support
pre_link_1		02/12/71	prelinker
pre_link_2		02/23/71	prelinker
prtseg		04/28/71	printer DCM
proc_int_handler	*4		process control
terminate_process_		10/06/72	process control
init_admin_		09/12/72	process initialization
init_admin_util_		01/28/71	process initialization
init_proc		06/24/71	process initialization
call_bos		03/31/72	processor control
fault_error	*1		processor control
fim	*3	04/13/71	processor control
li		11/26/71	processor control
init_processor		10/26/70	processor control
master_vclock		11/15/72	processor control
parity_check		08/13/70	processor control
pds	*3	01/13/72	processor control
prds		02/09/71	processor control
scs		03/02/70	processor control
set_alarm_timer		06/03/71	processor control
signaller		12/30/70	processor control
sim_fault	*1		processor control
terminate_proc	*3	03/18/71	processor control
vclock_init	*4		processor control
wire_stack		05/21/71	processor control
wired_fim		11/10/71	processor control
quota		05/21/71	quota control
quota_util		01/12/71	quota control
quotaw		04/08/71	quota control
add_memory		11/30/70	reconfiguration
dsu270_reconfig		05/24/71	reconfiguration
freecore		04/16/71	reconfiguration
pc_abs	*3	11/30/70	reconfiguration

27

reconfig		11/30/70	reconfiguration
reconfigure		11/23/70	reconfiguration
start_cpu		08/20/70	reconfiguration
stop_cpu		01/04/71	reconfiguration
wire_proc		01/28/71	reconfiguration
init_salv_fsdcts		04/05/71	salvager
on_line_salvager		03/08/71	salvager (on-line)
periph_io	*1		salvager I/O
rsw_	*1		salvager
salv_activator		07/11/72	salvager
salv_check_map		05/26/71	salvager
salv_check_ptr	*3	06/23/70	salvager
salv_check_threads	*4		salvager
salv_clean_ast		03/02/71	salvager
salv_data	*3	06/03/71	salvager
salv_esd	*4		salvager
salv_free_store		10/24/72	salvager
salv_initializer		07/13/72	salvager
salv_name		07/06/71	salvager
salv_print		06/03/71	salvager
salv_rebuild_acl		07/26/72	salvager
salv_rebuild_directory	*3	06/23/70	salvager
salv_rebuild_names	*3	06/23/70	salvager
salv_stat		12/22/70	salvager
salv_truncate		09/14/72	salvager
salvage_directory		06/26/70	salvager
salvage_entry		06/23/70	salvager
salvager	*3	06/23/70	salvager
utility_print		01/27/71	salvager I/O
gf_dump			see GUS
gf_input_			see GUS
gf_int			see GUS
gsc_			see GUS
gsm_			see GUS
gui_			see GUS
rotate_scale_			see GUS
blast			see Operator's Guide to BOS
config			see Operator's Guide to BOS
core			see Operator's Guide to BOS
die			see Operator's Guide to BOS
dump			see Operator's Guide to BOS
esd			see Operator's Guide to BOS
fdump			see Operator's Guide to BOS
fill			see Operator's Guide to BOS
fmt			see Operator's Guide to BOS
loaddm			see Operator's Guide to BOS
print (BOS)			see Operator's Guide to BOS
proc			see Operator's Guide to BOS
restor			see Operator's Guide to BOS
runcom			see Operator's Guide to BOS

```
save                            see Operator's Guide to BOS
tapesyn                         see Operator's Guide to BOS
test                            see Operator's Guide to BOS
time                            see Operator's Guide to BOS
ttyt                            see Operator's Guide to BOS

alloc_                          see SWS     user subroutine
check_fs_errcode_               see SWS     user subroutine
condition_interpreter_          see SWS     user subroutine
dartmouth_initializer_          see SWS     user subroutine
dl_handler_                     see SWS     user subroutine
find_command_                   see SWS     user subroutine
form_link_info_                 see SWS     user subroutine
gate_meter                      see SWS     user subroutine (hcs_)
get_author                      see SWS     user subroutine (hcs_)
get_page_trace                  see SWS     user subroutine (hcs_)
get_raw_access_                 see SWS     user subroutine
get_search_rules                see SWS     user subroutine (hcs_)
get_system_free_area_           see SWS     user subroutine
get_to_cl_                      see SWS     user subroutine
GIOC Calls                      see SWS     user subroutine
initiate_search_rules           see SWS     user subroutine (hcs_)
interpret_condition_            see SWS     user subroutine
list_arg_                       see SWS     user subroutine
listen_                         see SWS     user subroutine
nd_handler_                     see SWS     user subroutine
parse_search_rules_             see SWS     user subroutine
pl1_frame_                      see SWS     user subroutine
process_overseer_               see SWS     user subroutine
quota_get                       see SWS     user subroutine (hcs_)
quota_move                      see SWS     user subroutine (hcs_)
reset_working_set               see SWS     user subroutine (hcs_)
search_dart_lib_                see SWS     user subroutine
set_lock_                       see SWS     user subroutine
standard_default_handler_       see SWS     user subroutine
start_governor_                 see SWS     user subroutine
system_info_                    see SWS     user subroutine
transform_command_              see SWS     user subroutine
unwinder_                       see SWS     user subroutine
user_info_                      see SWS     user subroutine

activate                            02/03/71    segment control
boundfault                          04/08/71    segment control
deactivate                          02/03/71    segment control
fs_get                        *3    04/28/71    segment control
get_aste                            02/09/71    segment control
get_otrs_                           05/06/71    segment control
kstsrch                             06/29/70    segment control
makeknown                           02/09/71    segment control
makeunknown                         04/02/71    segment control
move_device                         01/26/71    segment control
seg_fault                           12/22/70    segment control
setfaults                           02/02/71    segment control
```

29

updateb		06/21/72	segment control
emergency_shutdown		02/03/71	shutdown
shutdown		04/08/71	shutdown
shutdown_switch		05/21/71	shutdown
tc_shutdown		05/01/69	shutdown
wired_shutdown		05/26/71	shutdown
del_file_		12/05/72	submission test
set_chand_		11/20/72	submission test
access_name		07/16/72	system administration
account_print	*4		system administration
accounting		07/25/72	system administration
accounts_overseer_	*4		system administration
acct_print		7/16/72	system administration
acct_start_up.ec		02/17/72	system administration
adjust_cutoff_		12/06/72	system administration
admin_util		4/28/72	system administration
answer_table		09/19/72	system administration
as_data_		09/14/72	system administration
as_init_		09/14/72	system administration
as_who		07/26/72	system administration
biller.ec		04/05/72	system administration
build_urf	*4		system administration
charge_daemon_usage		12/06/72	system administration
charge_deck		11/13/72	system administration
charge_disk	*4		system administration
charge_projects_to_accts	*4		system administration
charge_user_		11/15/72	system administration
charge_user_registration	*4		system administration
charge_users_to_accts	*4		system administration
clear_projfile		07/20/72	system administration
clear_reqfile		07/20/72	system administration
compute_bill		05/05/72	system administration
console_edit	*4		system administration
console_report	*4		system administration
copy_as_meters	*4		system administration
copy_pnt	*4		system administration
create_homedir_		05/24/72	system administration
create_lines_file		06/28/72	system administration
daemon_acct_print		06/22/72	system administration
daily_log_process		07/14/72	system administration
daily_summary		06/13/72	system administration
device_acct_	*4		system administration
disk_stat		05/10/72	system administration
disk_stat_print	*4		system administration
disk_usage_stat	*4		system administration
disklow	*4		system administration
ed_installation_parms	*4		system administration
ed_mgt		07/26/72	system administration
edurf	*4		system administration
ehf	*4		system administration

```
erro                      *4              system administration
erf                       *4              system administration
err.ec                          04/06/72  system administration
fill_urf                  *4              system administration
format_attributes_              07/14/72  system administration
format_pdt                      04/18/72  system administration
format_sat                      04/21/72  system administration
gen_hist                  *4              system administration
get_password_                   05/06/72  system administration
get_uid_with_lastname     *4              system administration
get_user_                 *4              system administration
gfp                       *4              system administration
hist                      *4              system administration
histo                     *4              system administration
is_he_user                      06/19/72  system administration
is_legal_proj                   10/02/72  system administration
labl1                     *4              system administration
load_ctl_                       05/24/72  system administration
load_ctl_status                 05/10/72  system administration
lookup_attributes         *4              system administration
mailing_labels            *4              system administration
master.ec                       05/08/72  system administration
merg                      *4              system administration
merge_urf_pnt             *4              system administration
misc                      *4              system administration
new_user                  *4              system administration
not_ascii_                      03/23/72  system administration
pdt                             12/04/72  system administration
pdt_copy                  *4              system administration
ppro                      *4              system administration
print_disk                *4              system administration
print_log                       07/26/72  system administration
print_meters              *4              system administration
print_urf                 *4              system administration
process_daemon_cards            04/26/72  system administration
process_session_cards     *4              system administration
profile_data_                   10/24/72  system administration
proj_mtd                        05/21/72  system administration
proj_usage_report         *4              system administration
project_usage_report      *4              system administration
projfile                        05/02/72  system administration
punch_MIT_deck            *4              system administration
qfp                             05/10/72  system administration
read_config_                    04/28/72  system administration
remove_user               *4              system administration
rename_pnts_                    08/21/72  system administration
reqfile                         05/10/72  system administration
reset_disk_meters               08/23/72  system administration
reset_processed_flag            05/06/72  system administration
reset_usage               *4              system administration
rsh                             08/23/72  system administration
sat                             11/16/72  system administration
scramble_                       03/15/72  system administration
```

```
send_admin_command                         06/12/72    system administration
set_admin_data_                            10/06/72    system administration
sort_hist_file_                  *4                    system administration
sort_projfile                    *4                    system administration
sort_reqfile                     *4                    system administration
stat                             *4                    system administration
sweep                                      09/06/72    system administration
sweep_disk_                                11/13/72    system administration
sys_full_report                  *4                    system administration
tape_admin_                      *4                    system administration
tape_master_                     *4                    system administration
terminals_overseer_                        10/24/72    system administration
termseg                                    06/28/72    system administration
termuseg                                   05/08/72    system administration
up_ctr                           *4                    system administration
urfp                             *4                    system administration
urfsort                          *4                    system administration
user_histogram                             07/18/72    system administration
util.ec                          *4                    system administration
value                                      07/17/72    system administration
whotab                                     07/25/72    system administration
write_acct_bill                            05/02/72    system administration
write_billing_summary            *4                    system administration
write_out_bill                   *4                    system administration
write_user_usage_report          *4                    system administration


approved_routines_                         08/31/72    system assurance


admin                                      04/12/72    system control
system_info_                               09/21/71    system control
system_startup_                            04/22/71    system control


bootstrap1                                 04/10/72    system initialization
bootstrap2                                 06/18/71    system initialization
clock_init                                 01/31/72    system initialization
delete_segs                                12/14/70    system initialization
find                                       03/29/71    system initialization
init_branches                              12/29/70    system initialization
init_collections                           12/28/70    system initialization
init_root_sys_info                         04/05/71    system initialization
init_sst                                   06/21/72    system initialization
init_str_seg                               04/05/71    system initialization
initialize_faults                          12/01/72    system initialization
initializer                                12/15/70    system initialization
load_system                                04/17/69    system initialization
make_branches                              02/09/71    system initialization
make_fv_code                               07/21/71    system initialization
make_sdw                                   03/31/71    system initialization
master_mode_init                 *3        01/12/71    system initialization
prds_init                                  02/04/71    system initialization
rescue_slt                       *1                    system initialization
scas_init                                  12/22/70    system initialization
scs_init                                   10/06/70    system initialization
```

```
segment_loader                      06/23/70   system initialization
slt_manager                         02/16/71   system initialization
uct_init                            12/28/70   system initialization
update_sst_pl1                      11/21/72   system initialization

dct_sym                      *1                system initialization (I/O)
drum_init                           02/18/70   system initialization (I/O)
dsu270_init                         07/18/72   system initialization (I/O)
find_peripheral                     04/11/72   system initialization (I/O)
initialize_dims                     07/17/72   system initialization (I/O)
initialize_gim               *1                system initialization (I/O)
io_init                      *1                system initialization (I/O)
mini_gim_init                       02/03/71   system initialization (I/O)
tape_io                             02/09/71   system initialization (I/O)
tape_reader                         06/30/71   system initialization (I/O)

build_template_dsegs                07/07/71   system initialization (SC)
initialize_kst                      06/24/71   system initialization (SC)

build_template_pds                  02/05/71   system initialization (TC)
tc_init                             10/08/71   system initialization (TC)

record_command_usage_        *4                system metering

sss_writearound_             *1                system writearound

gloc_tape_data               *4                tape DCM
gloc_tdcm_status             *4                tape DCM
iom_tape_data                *4                tape DCM
iom_tdcm_status              *4                tape DCM
tape_data                           10/18/71   tape DCM
tape_init                           10/08/71   tape DCM
tdcm                         *3     11/02/71   tape DCM
tdcm_status                         10/08/71   tape DCM

tdsm_                        *1                tape DSM
tdsm_util_                   *1                tape DSM
tdsm_xmt_                    *1                tape DSM
tdsm_xtach_                  *1                tape DSM

act_proc                            11/17/72   traffic control
activate_segs                       04/08/71   traffic control
deact_proc                          12/09/70   traffic control
deactivate_segs                     04/16/71   traffic control
ios_                                12/21/70   traffic control
master_pxss_page                    12/16/70   page/traffic control
plm                                 04/05/71   traffic control
pxss                                04/29/72   traffic control
stop_process                        03/15/71   traffic control
tc_data                             02/11/72   traffic controller
template_pit                 *3     02/08/72   traffic control
wired_plm                           05/25/71   traffic control
```

33

```
translator_daemon                 01/21/71   translator daemon

act_ctl_                          08/10/71   user control
as_                               10/04/72   user control
as_meter_                         07/30/71   user control
asu_                              03/16/71   user control
aswa_                             03/08/71   user control
cp3_                              04/12/71   user control
cv_persmf                         07/25/72   user control
cv_pmf                            12/04/70   user control
cv_smf                            11/22/72   user control
dhodh_                            03/30/71   user control
dial_ctl_                         01/28/71   user control
dialup_                           05/10/72   user control
dpg_                              05/08/70   user control
installation_parms                09/24/71   user control
lg_ctl_                           07/18/72   user control
lines                             01/28/70   user control
login                             see MPM    user control
sys_log_                          06/14/71   user control
system_control_                   05/19/71   user control
test_dialup                *3     03/08/71   user control
up_pdt_                            03/30/71   user control
up_pnt_                            03/17/71   user control
up_sat_                           03/17/71   user control
up_sysctl_                        03/30/71   user control

attach_table                      05/13/70   User Ring I/O
broadcaster_                      10/15/71   User Ring I/O
discard_output_util_              01/07/72   User Ring I/O
flipper_                          04/07/72   User Ring I/O
get_at_entry_                     see MPM    User Ring I/O
get_device_status                 03/18/71   User Ring I/O
list_assigned_devices             03/16/71   User Ring I/O
nstd_dim                          03/24/72   User Ring I/O
oc_                               07/10/72   User Ring I/O
ocdim_                            06/28/72   User Ring I/O
printer_dim_                      10/14/71   User Ring I/O
pun21                             09/24/71   User Ring I/O
pun21_dim                         01/06/72   User Ring I/O
read_convert_              *3     09/06/72   User Ring I/O
rest_of_ttydim             *4                User Ring I/O
tape_                             07/28/71   User Ring I/O
tape_util_                        07/28/71   User Ring I/O
tape_xmt_                         07/27/71   User Ring I/O
tape_xtach_                       08/02/71   User Ring I/O
ttydim_                           03/02/70   User Ring I/O
tw_                               07/27/71   User Ring I/O
tw_write_                  *4                User Ring I/O
wait_for_dialup_           *4                User Ring I/O

ipcprm_                           09/14/72   User Ring IPC
```

```
abbrev_                         09/14/72    user subroutine
acm_                            02/25/71    user subroutine
all_rings_util_                 03/26/71    user subroutine
area_                           see MPM     user subroutine
ask_                            10/07/71    user subroutine
canonicalizer_              *4              user subroutine
check_star_                     02/04/71    user subroutine
clock_                          see MPM     user subroutine
command_query_                  see MPM     user subroutine
compare_ascii_                  see MPM     user subroutine
condition_                      see MPM     user subroutine
convert_binary_integer_         see MPM     user subroutine
convert_date_to_binary_         see MPM     user subroutine
convert_date_to_binary_    *4              user subroutine
cpu_time_and_paging_            see MPM     user subroutine
create_ips_mask_                01/14/71    user subroutine
cv_                             04/28/72    user subroutine
cv_dec_                         see MPM     user subroutine
cv_float_                       see MPM     user subroutine
cv_oct_                         see MPM     user subroutine
date_time_                      see MPM     user subroutine
date_time_                      07/08/71    user subroutine
datebin_                   *3 05/19/71      user subroutine
decode_clock_value_             see MPM     user subroutine
decode_object_                  see MPM     user subroutine
default_handler_                see MPM     user subroutine
delete_                         see MPM     user subroutine
establish_cleanup_proc_         see MPM     user subroutine
expand_path_                    see MPM     user subroutine
find_command_error_        *4              user subroutine
find_ex_acl_names_              09/20/71    user subroutine
formline_                       11/02/71    user subroutine
freen_                          05/10/72    user subroutine
get_default_wdir_               see MPM     user subroutine
get_dump_ptrs_                  06/08/71    user subroutine
get_entry_name                  05/06/71    user subroutine
get_group_id_                   see MPM     user subroutine
get_initial_ring_               04/06/72    user subroutine
get_lock_id_                    03/16/71    user subroutine
get_pdir_                       see MPM     user subroutine
get_process_id_                 see MPM     user subroutine
get_ring_                       see MPM     user subroutine
hash_                           03/30/71    user subroutine
hash_table                      08/03/71    user subroutine
idsort_                    *4              user subroutine
interpret_link_                 05/05/71    user subroutine
ioa_                            see MPM     user subroutine
ioa_                            see MPM     user subroutine
ios_                            see MPM     user subroutine
ios_                            09/19/72    user subroutine
link_unsnap_                    03/17/70    user subroutine
listen_                         08/20/71    user subroutine
lsm_                            11/10/72    user subroutine
```

35

```
lsm_fs_                              05/28/71    user subroutine
lsm_sym_                             05/28/71    user subroutine
make_msf_                  *4                    user subroutine
make_obj_map_              *1                    user subroutine
make_object_map_                     see MPM     user subroutine
make_object_map_                     02/01/71    user subroutine
move_names_                          see MPM     user subroutine
object_info_                         see MPM     user subroutine
parse_file_                          see MPM     user subroutine
print_ready_message_       *3 06/30/71           user subroutine
print_source_line_         *4                    user subroutine
random_                              see MPM     user subroutine
read_list_                           see MPM     user subroutine
rehash_                              08/02/71    user subroutine
rest_of_loa_               *4                    user subroutine
reversion_                           see MPM     user subroutine
revert_cleanup_proc_                 see MPM     user subroutine
ring_1_patch_                        07/11/72    user subroutine
set_lock_                            06/22/72    user subroutine
signal_                              see MPM     user subroutine
signal_                              03/15/71    user subroutine
status_                              07/16/72    user subroutine
stu_                                 see MPM     user subroutine
term_                                see MPM     user subroutine
term_                                06/20/72    user subroutine
timer_manager_                       see MPM     user subroutine
total_cpu_time_                      see MPM     user subroutine
unique_bits_                         see MPM     user subroutine
unique_chars_                        see MPM     user subroutine
unpack_system_code_                  see MPM     user subroutine
unwinder_                            07/07/71    user subroutine
user_info_                           see MPM     user subroutine
virtual_cpu_time_          *4                    user subroutine
who                                  09/03/71    user subroutine

symval_                              06/26/70    user subroutine (binder)

file_util                            03/17/71    user subroutine (file_)

plot_                                see MPM     user subroutine (graphics)

acl_add                              see MPM     user subroutine (hcs_)
append_branch                        see MPM     user subroutine (hcs_)
append_branchx                       see MPM     user subroutine (hcs_)
append_link                          see MPM     user subroutine (hcs_)
chname_file                          see MPM     user subroutine (hcs_)
chname_seg                           see MPM     user subroutine (hcs_)
del_dir_tree                         see MPM     user subroutine (hcs_)
delentry_file                        see MPM     user subroutine (hcs_)
delentry_seg                         see MPM     user subroutine (hcs_)
fs_get_brackets                      see MPM     user subroutine (hcs_)
fs_get_mode                          see MPM     user subroutine (hcs_)
fs_get_path_name                     see MPM     user subroutine (hcs_)
```

```
fs_get_ref_name          see MPM    user subroutine (hcs_)
fs_get_seg_ptr           see MPM    user subroutine (hcs_)
fs_move_file             see MPM    user subroutine (hcs_)
fs_move_seg              see MPM    user subroutine (hcs_)
get_usage_values         see MPM    user subroutine (hcs_)
initiate (hardcore)      see MPM    user subroutine (hcs_)
initiate_count           see MPM    user subroutine (hcs_)
make_ptr                 see MPM    user subroutine (hcs_)
make_seg                 see MPM    user subroutine (hcs_)
ring_0_peek              06/23/70   user subroutine (hcs_)
set_bc                   see MPM    user subroutine (hcs_)
set_bc_seg               see MPM    user subroutine (hcs_)
star_                    see MPM    user subroutine (hcs_)
status_                  see MPM    user subroutine (hcs_)
terminate_file           see MPM    user subroutine (hcs_)
terminate_name           see MPM    user subroutine (hcs_)
terminate_noname         see MPM    user subroutine (hcs_)
terminate_seg            see MPM    user subroutine (hcs_)
truncate_file            see MPM    user subroutine (hcs_)
truncate_seg             see MPM    user subroutine (hcs_)
unsnap_service           11/23/70   user subroutine (hcs_)

write_list_              see MPM    user subroutine (I/O)

decode_socket_           01/04/71   user subroutine (IMP)

ios_utility_             08/24/72   user subroutine (ios_)

gate_data_             *1           user subroutine (tool)
get_archive_file_      *3 06/01/71  user subroutine (tool)
get_library_ac_file       03/29/71  user subroutine (tool)
ring0_get_                01/13/71  user subroutine (tool)
update_archive_           06/01/71  user subroutine (tool)

acl_addl                 see acl_add
acl_delete               see acl_add
acl_list                 see acl_add
acl_replace              see acl_add
admin_mode_exit          see listen_
console_output           see file_output
deleteacl                see deleteacl
display_detach           see display_attach
dsu270_control           see dsu170_control
effmode                  see appmode
erase                    see display_attach
gen_tcd_card             see gen_sst_card
get_net_uid              see set_net_uid
get_proc_id              see getuid
gioc_bootstrap1          see bootstrap1
gioc_dsu270_control      see dsu270_control
gioc_dsu270_init         see dsu270_init
gioc_printer_dcm         see printer_dcm
gioc_printer_status      see printer_status
```

37