Enclosed is an Index of all MCR's issued through May 31, 1974. This index shows the status of every MCR in the following format:

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Multics Project internal working documentation. Not to be reproduced or distributed outside the Multics Project.
546 A 05/28/74 E. Stone
Fix bug in status-primitive

545 A 05/24/74 E. Stone
Prevent "deadly embrace" in get_aste

544 A 05/28/74 E. Stone
Change system initialization to initialize all faults before creating a hierarchy

543 A 05/28/74 R. Snyder
Bug in copy_out

542 A 05/28/74 B. Wolman
Bind debug with ioa_ and formline_

541 A 05/28/74 B. Morrison
gcos daemon root directory change

540 A 05/28/74 N. Morris
Fix bug in BOS DUMP

539 A 05/28/74 J. Homan
Minor bug fix in reset_use_totals

538 A 05/28/74 N. Morris
Fix BOS RESTOR Problem

537 R 05/28/74 S. Herbst
"-name" option with archive extract

536 W 05/28/74 S. Webber
Collect hardcore gate meters (summary only) in tc_data for spg use

535 A 05/28/74 P. Haber
Message segment check for Bad Header Data

534 P 05/28/74 S. Barr
Delete all code to handle Version 1 object segments in debug

533 P 05/28/74 S. Barr
Allow user to change stream_names for debug I/O

532 A 05/28/74 S. Barr
Change debug input default to decimal

531 A 05/28/74 S. Barr
Change debug assignment to use data descriptors

530 A 05/28/74 S. Herbst
Change to archive_star_

529 A 05/28/74 A. Kobziar
Reused addresses in FSDCT_ROOT

528 A 05/28/74 B. Wolman
Fix bugs in basic

527 A 05/28/74 M. Grady
Fix bug in configuration of dual synchronous HSLA subchannels

526 A 05/28/74 E. Stone
Alleviate problems in shutdown

525 P 05/28/74 M. Grady
Implementation of a DIM for the Terminet 1200

W 06/04/74

524 A 05/21/74 M. Weaver
Handling out_of_bounds_on stack

523 A 05/21/74 M. Meer
qedx: incorrect cleanup bug

522 A 05/21/74 S. Webber
Remove entries initiate_seg_initiate_seg_count from hcs_
Fix bug preventing all oc messages from coming out

Fix bug initiating segs with the copy switch on

Attempt to fix lockup fault problem when returning from BOS

Bug in archive

Bug in tty_inter

Recompile answering service with EIS compiler

Recompile message coordinator with EIS compiler

Improvements to console_report

Fixes to 355 software

Fixes to map355

Fix bug in BOS SAVE and RESTOR commands

Fix remote device driver for new gll5_dim interface

Bug fix for if command

Addition of get_salv_bit_ function to Version 1 message facility

New versions of sort_items_ and sort_items_indirect_

Fix for Message Segment Facility Bug

Change DN355 Interrupt Assignments

Automatic System ID Generation by MST Generator

Fix Bug in Tape DCM

Bug in Process_input_string

Fix Bugs in Meter_gate

Improper ACL setting in Delete_

dc_Pack Cleanup Handler Bug

Loss of form feeds on input

Fix Bug in del_dir_tree
Version 1 Message Segment Primitive Bug Fix

Emergency Fixes to I/O Coordinator

Repair problems introduced by change to tape controller specifications

Emergency Installation of pll_operators_

Modify initialization to ease the "high water mark" problem

change to abbrev

Bug fixes to Debug

Debug modification decimal default, new data assignment, allow choice of debug I/O

Addition of -unique option to sort_seg command

meter_oc_log command

mstrds command

Allow B, D, E, F, and I in numeric input fields

Fix error handling in GCOS Daemon and I/O subroutines

Fix message segment pointer validator

Change error_table_ messages

Study new scheduler and paging algorithms

Delete pll_operators_ from lang library

Shutdown/Startup reused address bug

Change LOADDM to accept command name arguments

Fix bug in interprocess communication interface

Changes to User ring 1 link Unsnapping

Fix bug in procedure "get_device_status".

fix handling of special interrupts in BOS

Modify BOS CORE command
Fix bug in bootstrap!

Fix bug in cv_dir_acl_

New GCOS Simulator

version 2 Message Segment Bug Fixes

GCOS Daemon and GCOS User Changes

Improve access checking in dprint_

Locking strategy in I/O daemon

Modification to the translator_segment_ interface to set the maximum length for segments

TTYDIM change for online T&D

Fix to meter_gate_subroutine

Add "report_reset" control argument to tty_meters

Fix bug in illegal_procedure's attempted simulation of the MVT instruction to zero length target strings

Install compiler tools tmg and compile_messages

The phonetic underscore

Fix bugs in BASIC

Implement I/O Interfacer

Fix bug in operator's console software when not using log

Fix bug in BOS command LD355

Fix 2 CPU bugs in operator's console software

New abs_usable-abs_wired mechanism

Install BOS ABS command

delete_ bug

Add new and consolidate existing character string BIF active functions

Add feature to system to allow partial wiring of bound_sss_wired_ (which contain pl1_operators_ and utilities)
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<td>Fix lost notify bug</td>
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<td>04/09/74</td>
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<td>Fix cross_reference to include type-6 (create if not found) links</td>
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<td>Rewrite list, listnames, and listtotals</td>
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<td>New ttydim/355 software</td>
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<td>A. Kobziar</td>
<td>Restor ability to call online salvager from use rings</td>
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<td>03/26/74</td>
<td>T. VanVleck,</td>
<td>Fix bug in SAC command</td>
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<td></td>
<td>D. Vinograd</td>
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New core freeing mechanism
Modify the acl commands to work for MSF
Install print_paging_histogram
Fix bugs in Version 1 APL
Change "assign_device" algorithm
Fix bugs in BOS PATCH command
New version of indent command
Correct bug in salv_truncate
EIS version of find_command_
boundfullcp_ with EIS
Fix bug in LD355 and Blast
Upgrade and fix bugs in some bound_debug_util_routines
Change OPC configuration card
Fix bug in BOS PRINT command
Command Name Usage Monitor

Bug in proc_brackets_
TTYDIM fixes
Fix bugs in BOS TSTCHN command
Entry Bound fix
355 fix
Change to config card format
Improvements in exists active function

Programs for processing SYSERR log
The Phonetic "_"
Change command interface of binder
Fix bugs in binder and make improvements
Restrict traps at first reference
Make I/O daemon perform deletions after crash
Correct bug in get_user_id_ that references a table with a null pointer

Upgrade submission testing programs

Fix bugs in include cross referencer

Modifications to network_exec_

Changes to the ARPA Network File Transfer Server (bound_ftp_server_)

Debug_check changes affecting salvager

Bug tracing via salvager

Modify Operator's Console Software for Operation of the System Control Console and Entry Model Console

Provide Protection for MTS500 subsystem shared by two systems

Fix problems resulting from list command upgrade

Fix up bound_acceptance_test_ for iox_

Retain entry point "iox_$control"

Fix "discard_" "seek_key" error code

Tighten IPS masking interface

Correct IPS masking bug in iox

Speed up metering gates

Read_cards calls unique_chars_ incorrectly

Deleteacl -brief Option

Improve error_table message for I/O

Gate descriptor security hole

Conversion of Network Control Program (NCP) to Version II PL/1

Miscellaneous Fixes to Network User Process Server TELNET IOSIM

Fix send_message to get around compiler bug

BOS compatibility changes for 6180 cache

MST Generator and checker changes for cache
373  P 02/26/74  B. Greenberg  Cache Multics, single-cpu version
   A 04/23/74
372  A 02/26/74  N. Morris  Change BOS not to print on every tape error
371  A 02/26/74  S. Webber  Update metering commands
370  A 02/26/74  S. Webber  Change quantum time measure from real cpu to virtual cpu
369  A 02/26/74  B. Wolman  Improve ioa_
368  A 02/26/74  S. Barr  new Tools command grab_tape_drive
367  A 02/26/74  P. Green  Do more argument checking in substr active function
366  A 02/26/74  S. Webber  Make "component" entry in print_gen_info_segment in bound_gm_
365  A 02/26/74  S. Webber  Fix duplicated metering bug in total_time_meters
364  A 02/26/74  S. Webber  Fix bugs in et.(eis_tester)
363  A 02/26/74  S. Webber  Add measure of "static" storage use in print_linkage_usage
362  A 02/26/74  S. Webber  Add new program set_proc required to Tool
361  A 02/26/74  S. Webber  Add new T & D program "test_cpu" to Tools
360  A 02/26/74  S. Herbst  bound_full_cp_conversion
359  A 02/26/74  E. Stone  set the max lengths of system initialization segments
358  A 02/19/74  T. VanVleck  Improve system administration reports
357  A 02/19/74  T. VanVleck  Make bad clock settings less fatal
356  A 02/19/74  T. VanVleck  Improve system administration programs
355  A 02/19/74  R. Klinger  process metering commands: sample.refs and print_sample.refs
354  A 02/19/74  R. Snyder  all_rings_util has an unused stacq subroutine
353  A 02/19/74  N. Morris  Modify IOM Manager for Online R & D Needs
352  A 02/19/74  S. Barr  Fix installation_Parms access in who command
351  A 02/19/74  R. Snyder  Fix bug in 355 initialization
350  A 02/19/74  B. Wolman  Rewrite formline_
349  A 02/19/74  M. Weaver  fix bug in find_condition_info_
348  A 02/19/74  M. Weaver  fix bug in signal_
347  A 02/19/74  R. Snyder  parity fault reporting is incorrect
346  A 02/12/74  N. Morris  Improve & extend IOM manager
345  A 02/12/74  N. Morris  Fix bug in init_salv_fsdcts
344  A 02/12/74  M. Meer  Convert LTS system for 256k
343  A 02/12/74  S. Herbst  recursion of archive command
342  A 02/12/74  D. MacLaren  Install indexed-file modules
341  A 02/12/74  N. Morris  Fix bug in initialization tape_reader
340  A 02/12/74  B. Wolman  Extend find_operator_name_ procedure
339  A 02/12/74  M. Smith  Interpret "disposal" properly in "tw_" and "hcs_tty_detach".
338  A 02/12/74  N. Morris  Fix bugs in IOM_manager's handling of overhead channels
337  A 02/12/74  A. Kobziar  Correcting maximum tree depth
336  A 02/12/74  S. Herbst  bugs in abbrev
335  A 02/12/74  S. Herbst  Star convention in Archive
334  A 02/12/74  R. Snyder  Fix to HSLA software
333  A 02/12/74  R. Snyder  Changes to handle 1200 baud terminets
332  A 02/12/74  S. Herbst  compare of zero length segments
331  A 02/12/74  M. Weaver  Fix bugs in datmk routines used by linker
330  A 02/05/74  M. Grady  Fix teco bug
329  A 02/05/74  S. Herbst  Bugs in archive command
328  A 02/05/74  B. Wolman  Install new numeric formatting function
327  A 02/05/74  A. Scherer  Update approved_routines_ table for online installations
326  A 02/05/74  A. Scherer  Fix illegal pointers in submission-testing programs
325  A 02/05/74  K. Pogran  Change in the Implementation of the Network Host Activation List
324  A 02/05/74  M. Weaver  Fix bugs in new condition mechanism
323  A 02/05/74  M. Weaver  Fix bugs in reprint-error
322  A 02/05/74  S. Herbst  Archive component names
321  A 02/05/74  B. Wolman  Correct and Extend Comparison Active Functions
Extend Arithmetic Active Functions
Correct bug in "&if...&then" part of process_input_string_
Answering Service 7.5
Recovery from ITT overflows
22-0 cleanup
Fix to synchronize hangups with answering service
Fix error in bound_debug_
Restrict system free area to be 64k
Correct and extend comparison active functions
Extend capabilities of arithmetic active functions
Star convention in archive command
Change setacl to apply to either directories or segments when used with star convention
Fix bugs in fault info routines
Fix bugs in memo command
Change entry definition in object segment
Message Coordinator Improvements
Fix bugs in answering service 7.4
Securable access to metering data
Gate Macro Fix
BOS command to read registers of non-bootload CPU
BOS command to search for parity errors
Replacement for system routine "expand_path_"
Fix bug in update option during system start up
Increase size of IOAT

Bug fix for tape_

Bug in archive_util_

Its fix for use with max_seg_size

Addressing bug in qedx

Warn users about unexpected disabling of ips interrupts

Miscellaneous changes to Answering Service and Process Initialization related to Network

Creation of New Library for ARPA Network Software

Fix tty_inter

Corrections to nstd_dim

Fix PL/1 Bug in Salv_Rebuild_Directory

Fix Setacl to work with star convention

Fix to tty_inter

Addition of entry tdcn_promote to hcs_

Modify tape DCM to support 2 channels

bugs in timer_manager_

TTY Output Integrity

ACI and BCI Pseudo-ops for Alm that can specify character count

Delete obsolete library procedures

Reinstall ftp_mail_

Process overseer for card-reading daemon

bugs in walk_subtree

Fix RUNCOM problem in BOS.

Argument descriptors

bound_Fortran_io_

bound_Fortran_
Install new BASIC
"abbrev_set_cp" entry in abbrev
change to test_timer_manager
Install new PL/1 compiler and runtime
Bug in Backup
Bug in Dumper
Install tape metering command
Additional feature in list_daemon_requests
Add new user_settable entry to system trace
Extend page_trace to handle new trace types
Add tool "instr_speed" to system
Fix bug in test_faults_(convert to 6180)
Fix Bug in msf_manager_-
Fix to 355 bug
change tape configuration cards
Installation of 355 software tools
Modify tape DCM to support 2 channels
gcos daemon changes
Install new LISP subsystem
Allow PL/1_operators_ to be different in outer rings
Fix bug in backup_load
change access requirement to truncate primitive
Install update_handler_ again and change interface
Fix bug in absentee dim's condition handler
Extend fsm to handle new meters
Fix unlocking bug in get_proc_id
Increase the size of STR_SEG
print_dump_tape does not recognize EOF on 9 track tape

edurf reports dates as 01/01/01

stop msa_manager_ from storing segment number in bit count of MSA components

Additions to the ARPA Network Host Table

Install procedure tracing program

Fix bugs in walk_subtree

Fix bugs in compare command

Fix bug which allows fsdct pages to get milled out

Centralization of debug card checking

Establish cleanup handlers in ringo ttydim

Fix to tty_ctl

Implement DSU_191's for Multics

Remove CACL's and segment "a" permission from salvager

Checking author and bit_count author names for non-ascii in Salvager

Fix double freeing of an allocation in acl-commands

change basic_system to call new basic

accept equal names containing ascii control characters

Upgrading of user process Network IOSIM to support new TELNET protocol and to add additional functions

Upgrading of Answering Service to support new Network TELNET

Insertion of a link into SSS to Network FTP process overseer because of change in default search rules

Remove 'a' segment access references from online installation tools

accept star names containing ascii control characters
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<td>Sort error_table alphabetically by entry name</td>
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<td>Addition of -date option to the print-log command</td>
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<td>M. Padlipsky</td>
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<td>R. Barnes</td>
<td>Install EIS version of PL/1 compiler</td>
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<td>Fix to the &quot;stars and bells&quot; bug in the message coordinator</td>
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<td>More history register and associative memory data to the PRDS</td>
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<td>Add meters to page control</td>
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<td>Place traps in system looking for &quot;lost notify's&quot;</td>
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<td>R. Freiburghouse</td>
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<td>B. Wolman</td>
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<td>12/18/73</td>
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<tr>
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<td>Repair defective tape software</td>
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<td>make the date_time active functions operate as commands</td>
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<tr>
<td>11/27/73</td>
<td>N. Morris</td>
<td>Type message on printer error in BOS</td>
</tr>
<tr>
<td>11/27/73</td>
<td>M. Smith</td>
<td>Install &quot;iox_&quot; I/O interface (MSB-113)</td>
</tr>
<tr>
<td>11/27/73</td>
<td>R. Mullen</td>
<td>BOS should not set masks in memory controllers from which it is not receiving interrupts</td>
</tr>
<tr>
<td>11/27/73</td>
<td>A. Kobziar</td>
<td>Fix locking bug in find_</td>
</tr>
<tr>
<td>11/27/73</td>
<td>T. VanVleck</td>
<td>Install new version of trace_stack</td>
</tr>
</tbody>
</table>
Implementation of the G115 remote computer interface

Fix bug in trace

Fix bug in truncate command when called with no arguments

Set TIMAX for Initializer to 1 sec. instead of 0

Modify disk accounting programs to use new quota primitives

Fix bug in ARDS charging

Fix I/O Daemon handling of multi-segment files

Remove installation-dependent ACL's from system tape

Prevent Initializer from looping if a process cannot be destroyed

Fix bug in ed_installation_parms

Fix bug in message coordinator

msa_manager_bug fix

Emergency installation of gcos simulator

Fix bug in dump_segment_command

Fix bug in print_aste_ptp when run on development

ACL extended access change

Improve listing tape system

Creation of system trace table

Fix bug in star_

Remove "pdir" abbrev mechanism from print_apt_entry

Message segment primitive changes

Hardcore updater modifications

Install corrected EIS conversion routines

Install profile command
148 A 11/13/73 R. Coren  New I/O Daemon
147 A 11/13/73 M. Weaver  Correction of stringsize fault handling
146 A 11/13/73 S. Webber  Fix bugs in pxss
145 A 11/13/73 S. Webber  Fix bug in signaller causing EIS problems
144 A 11/13/73 A. Kobziar  Fix zeroing reused page in salvager
143 A 11/06/73 R. Roach  Fix bug in start_dump (not printing maps)
142 A 11/06/73 G. Dixon  compare_entry_names (bug fix)
141 A 11/06/73 G. Dixon  Extended Star Convention (Phase Two)
140 A 11/06/73 T. VanVleck  Improve active functions for arithmetic and string manipulation
139 A 11/06/73 T. VanVleck  Install improved disk statistics program
138 A 11/06/73 T. VanVleck  Fix mail command to use set_lock_
137 A 11/06/73 B. Silver  Fix to syserr_real unlock bug
136 A 11/06/73 B. Wolman  Fix bug in remote formats
135 A 11/06/73 B. Wolman  Install upgraded PL/1 runtime
134 A 11/06/73 M. Smith  New "error_table_" codes
133 A 11/06/73 M. Smith  Replace "endfile" command by "close_file"
132 A 11/06/73 M. Smith  Signal "finish" and close files at process termination
131 A 11/06/73 M. Smith  Extend "list", "status", "copy", "move" to understand multi-segment files
130 A 11/06/73 E. Stone  Fix bugs in obtaining initializer console channel name
129 A 11/06/73 E. Stone  Fix access violation in creation of outer ring stacks
128 A 11/06/73 E. Stone  Fix bug in delete-subroutine
127 A 11/06/73 A. Kobziar  Salvager emergency shutdown
126 A 11/06/73 A. Kobziar  Remove null address dependence from Salvager
125 A 11/06/73 A. Kobziar  Add disk to Multics via salvager
124 A 11/06/73 R. Snyder  Fix to 1050 addressing problems
123 A 10/30/73 R. Mabee  runoff bug fix
bcpl_library bug fix
Install do command/active function
Install new PL1_operators_
Change definition of entry sequence
Bug fix to ring_l_lock
Removal of active mode of salvaging
Add new order to teletype DIMS, e.g. tw_, ntw_, g115_
Administrative exec_com for the Network Daemon
Provide "fast" gate entries into the hardcore
qedx: restriction on write with no pathname
Listing tape system: 7 or 9 track tape designation more detailed comparison in merging
Backup: Additional options for catchup-dump and dumper test runs
Backup: Consolidate and cleanup file attachment interface for maps and error files
Convert network IOSIM "changemode" call to not require a trailing period
Improve t1n output
Sort_file enhancements
fix bugs in plot_
Simplification of performance test analysis
Command name usage measurements
Change page multi-level removal algorithm to make pages recently faulted upon appear recently used
Remove pre-page commands and the hard core interface
01 A 10/23/73 S. Webber  Change memory reconfiguration code to check for parity errors in use being removed
00 A 10/23/73 S. Webber  Remove reused addr (and other) traps from page control
39 A 10/23/73 S. Webber  Change measure of time spent looping on the page table lock
38 A 10/23/73 M. Grady  trace_init
37 A 10/23/73 N. Morris  Fix bugs in fdump
36 A 10/23/73 E. Stone  Complete directory control access modifications
35 A 10/23/73 E. Stone  Cleanup gate entries
34 A 10/23/73 E. Stone  Offer 256k segments
33 A 10/23/73 E. Stone  Convert V1/PL1 modules in hardcore to V2/PL1
32 A 10/23/73 E. Stone  Correct restrictions in area package which prevent creation of 256k areas
31 A 10/23/73 E. Stone  Allow printing of large segments wire_stack
30 A 10/23/73 E. Stone  fix bugs in privileged_mode_ut and wire_stack
29 A 10/16/73 E. Stone  Increase the time record product field of a directory header to 2 words
28 A 10/16/73 E. Stone  Increase the max length, current length and records used fields of a directory entry to 18 bits
27 A 10/16/73 A. Scherer  Modification of cleanup to handle >doc>iml_info_segs. Preparation of cleanup to work with extended star/equals convention
26 A 10/16/73 A. Scherer  Conversion of update_include to version two. Elimination of calls to msl and archiving of duplicates include files in >udd>include>source
25 A 10/16/73 M. Meer  qedx changes
24 A 10/16/73 R. Snyder  Change to system trace package
23 A 10/16/73 N. Morris  fix printer chain images in BOS
22 A 10/16/73 R. Mullen  copy_fdump not to access data beyond end of dump partition
21 A 10/16/73 R. Snyder  Fix to DN355
<table>
<thead>
<tr>
<th>Date</th>
<th>Author</th>
<th>Task Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/16/73</td>
<td>W. Silver</td>
<td>Change to operator console software and syserr</td>
</tr>
<tr>
<td>10/16/73</td>
<td>N. Morris</td>
<td>Fix bug in fdump</td>
</tr>
<tr>
<td>10/16/73</td>
<td>N. Morris</td>
<td>Remove bulk store dependent code from emergency shutdown</td>
</tr>
<tr>
<td>10/16/73</td>
<td>T. VanVleck</td>
<td>Fix error in message routing DIM</td>
</tr>
<tr>
<td>10/16/73</td>
<td>T. VanVleck</td>
<td>Fix monor bug in rename_pnts_</td>
</tr>
<tr>
<td>10/16/73</td>
<td>P. Green, R. Coren</td>
<td>Add new mode to &quot;tw_&quot; - type DIMs</td>
</tr>
<tr>
<td>10/16/73</td>
<td>R. Kanodia</td>
<td>Performance improvement and bug fixes in IMP DIM</td>
</tr>
<tr>
<td>10/16/73</td>
<td>R. Kanodia</td>
<td>Updating the ARPA network host table</td>
</tr>
<tr>
<td>10/09/73</td>
<td>N. Morris</td>
<td>Change Multics standard tape format record length</td>
</tr>
<tr>
<td>10/09/73</td>
<td>N. Morris</td>
<td>Print detailed status on disk errors</td>
</tr>
<tr>
<td>10/09/73</td>
<td>R. Mullen</td>
<td>fix send_message * proj bug</td>
</tr>
<tr>
<td>10/09/73</td>
<td>M. Weaver</td>
<td>changes to signalling and unwinding</td>
</tr>
<tr>
<td>10/09/73</td>
<td>G. Dixon</td>
<td>fix msa_manager_'s setting of MSF indicator</td>
</tr>
<tr>
<td>10/09/73</td>
<td>S. Webber</td>
<td>Add &quot;mexp&quot; to system--a macro expander preprocesor for aim</td>
</tr>
<tr>
<td>10/09/73</td>
<td>S. Webber</td>
<td>Remove &quot;hcs_$reset_working_set&quot; function from the system</td>
</tr>
<tr>
<td>10/09/73</td>
<td>S. Webber</td>
<td>Fix reused address bug</td>
</tr>
<tr>
<td>10/09/73</td>
<td>G. Dixon</td>
<td>enter_daemon_request</td>
</tr>
<tr>
<td>10/09/73</td>
<td>N. Morris</td>
<td>Allow BOS to be loaded from tape handler other than drive 0</td>
</tr>
<tr>
<td>10/09/73</td>
<td>N. Morris</td>
<td>Install new BOS loader</td>
</tr>
<tr>
<td>10/09/73</td>
<td>R. Mullen</td>
<td>scs_init to detect multiple interrupt cell assignments</td>
</tr>
<tr>
<td>10/09/73</td>
<td>R. Snyder</td>
<td>Solution to hangup problem</td>
</tr>
<tr>
<td>10/04/73</td>
<td>R. Mullen</td>
<td>bug fix to get_seg_ptrs</td>
</tr>
<tr>
<td>10/04/73</td>
<td>R. Mullen</td>
<td>online_dump to process 256k segments</td>
</tr>
<tr>
<td>10/04/73</td>
<td>R. Kanodia</td>
<td>Unlocking bug in the IMP-DIM</td>
</tr>
</tbody>
</table>
Changes to default system condition handler and signalling of PL/1 conditions

New stack and fault information routines

Bug fix to 355 software

Extended star/equal convention (online library portion)

do command/active function

Change prt_300_conv to fix bug

fix bug in full_command_processor_

submit program "return_to"

Add new mode to TTY dm for apl

Merge privileged and unprivileged code in the traffic controller

Merge privileged and unprivileged code in alm kernel of page control

Avoid reused address problems

Remove >tools from default search path

Fix bugs in system_control

Fix bug causing lost status from 355

Change initializer process group ID to "Initializer.SysDaemon.z"

Remove obsolete code from io_daemon for initialization of big letter format matrix

Modify accounting package to check that total virtual CPU charged equals total virtual CPU used

Modification of hardcore MSL routines to add source types "mx" (.mexp) and "mt" (.mt)

Simplification of command loop interface to users

Lay trap for reused address bug

New commands for directory auditing

Install new billing program

New command/active function "user" and a new command/active function "system"
Fix bug in `get_defname`

Allow printing through perforations on output and permit 10 daemon to produce separator bar on perforation to aid the operator in output separation

Proposed changes to copy and move commands

new active function: `target`

two new control arguments added to `dump_segment (ds)` command

new active function: `esr`

new subroutine: `execute_search_rules_`

Record certain math subroutines in `alm`

Add ptr to operator transfer vector to base of stack

Change process destruction so that the driving process need not "wait" in ring zero for the target process to be stopped

Set the call limiters on all hardcore gates--in particular on signaller

Modify linker and add new stack frame flags

Allow the system to utilize >2**18 records on DSU-190 (temporary fix)

Fix bug in `bcpl`

Modification of hardcore programs in preparation for new tape mounting package

Fix bug causing both the PD hash crashes as well as (possibly all) reused address problems

Fix `alm`

Change "change_tuning_parameters" to use `com_query` so that it can be used in "exec_coms" and with "send_admin_command"

Fix bug in `ring_` causing extraneous `ring_` alarm faults
3 A 09/18/73 S. Webber  
Place traps in the system to search for the "reused address" bug

2 A 09/18/73 S. Webber  
Extend the size of device addresses from 17 to 18 bits

1 A 09/18/73 S. Webber  
Fix reconfiguration problems with deleting the boodeleting tload CPU

0 A 09/18/73 S. Webber  
Add new processor time metering for interrupts as a function of IOM channel number

9 P 09/18/73 N. Morris  
Modify BOS to handle tapes on the MTS-500
A 10/09/73

8 P 09/18/73 N. Morris  
Modification of IO in Multics initialization to handle the MTS-500 tapes and allow handling 1040 word Multics standard tape records
A 10/09/73

7 P 09/18/73 N. Morris  
Modify the tape DCM & tape DIMs to work with the MTS-500. Also allow reading & writing of 1040 word Multics standard tape records
A 10/09/73

6 A 09/18/73 N. Morris  
Modify BOS to run with DSS-191 system

5 A 09/18/73 N. Morris  
Fix the iom_manager not to crash the system when a system fault interrupt occurs for unassigned channel

4 A 09/25/73 R. Snyder  
Change LD355 to patch site configuration info into 355 core image

3 A 09/18/73 R. Snyder  
Speed up the processing of 355 fdumps

2 A 09/18/73 R. Snyder  
Enable the BOS 'BLAST' command to send to terminals hooked up to HSLA

1 A 09/18/73 S. Webber  
Map certain EIS illegal faults so that the faults are effectively ignored