TO: Distribution
FROM: M. S. Hodges
DATE: September 4, 1974
SUBJECT: Multics Change Requests Index

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

<table>
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<th>MCR No.</th>
<th>Action Taken and Date</th>
<th>Author</th>
<th>Title</th>
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<td></td>
<td>A - Approved</td>
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<tr>
<td></td>
<td>P - Postponed</td>
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<tr>
<td></td>
<td>W - Withdrawn</td>
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<td></td>
<td>R - Rejected</td>
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<th>Date</th>
<th>Name</th>
<th>Task Description</th>
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<tr>
<td>08/27/74</td>
<td>S. Webber</td>
<td>Change mechanism of calling initial procedure in a new process</td>
</tr>
<tr>
<td>08/27/74</td>
<td>S. Herbst</td>
<td>Fix bug in mseg_access</td>
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<tr>
<td>08/27/74</td>
<td>S. Barr</td>
<td>Add a wait for rewind completion to the detach entry for the nstd_tape_dim</td>
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<td>08/27/74</td>
<td>R. Barnes</td>
<td>Install p11_operators, any_to_any, and dec_ops</td>
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<td>08/27/74</td>
<td>S. Herbst</td>
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<td>T. Casey</td>
<td>Error checking by indent command</td>
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<td>B. Wolman</td>
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<td>Bind together debug, trace_stack, and trace</td>
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<td>Prepare library programs for unbundled library</td>
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<td>Fix BOS to run with Reader on any channel</td>
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<td>Add name tdcms_ to hcs</td>
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<td>08/20/74</td>
<td>P. Green</td>
<td>Make changes to Answering Service to Implement Access Isolation Mechanism</td>
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<td>D. MacLaren</td>
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<td>Make a branch for configuration deck in system_library_1</td>
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<tr>
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<td>N. Morris,</td>
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<td>08/13/74</td>
<td>A. Kobziar</td>
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<td>New Control Argument for indent command</td>
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<tr>
<td>08/13/74</td>
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<td>08/13/74</td>
<td>R. Mabee</td>
<td>Changes to bcpl, runoff, and bcpl library</td>
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Add tool check_sst to system
Fix numeric conversion problem in BOS
Fix Lockup Fault Problem in BOS
Modify BOS to run with URPMPC Peripherals
Add -lines option to tty_lines
Install find_common_acl_names_
Install extended_access_commands
Move hardcore printer interface to prtdcm_
Problem in TermNets Proc
Fix to BUILD355
Establish convention for user ring gate segments
Repair security hole in restart_fault_
Move 2 entries from hcs_ to phpcs_
Remove 2 entries from the gate hcs_
Installation of word_list and related commands
Fix bugs in exists active function
Change program parity_fault to log more information about op-not-complete
Fix bug in pc_abs
Fix bug in wire_proc locking strategy
Extend program interrupt mechanism
Improve submission tests to use now-working -rename feature of get_library_segment
Improve submission testing programs
Install lex_string_ and reduction_compiler
Update BOS FMT command
Implement Security Attributes in Salvager
Modification for enforcing the Access Isolation Mechanism with respect to Interprocess
Fix bug in queue_mseg_
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<td>S. Herbst</td>
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<td>R. Coren</td>
<td>Refine I/O Coordinator's algorithm for dropping queues</td>
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<td>Prevent I/O Daemon from deleting modified files</td>
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<td>Fix bug in I/O Coordinator &quot;test&quot; mode</td>
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<td>Move on units in status_ primitive from internal procedures to containing block</td>
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<td>S. Webber,</td>
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<td>S. Barr</td>
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<tr>
<td>07/23/74</td>
<td>G. AckermanLewis</td>
<td>Modify and extend the backup system to notify users about entries not backed up</td>
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<td>P. Kelley</td>
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<td>Fix to the &quot;CRECHO&quot; bug</td>
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<td>----------------------------------------------------------------------</td>
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<td>07/16/74</td>
<td>B. Wolman</td>
<td>Install new numeric formatting program \texttt{arithmetic_to_ascii}</td>
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<tr>
<td>07/16/74</td>
<td>B. Wolman</td>
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<td>07/11/74</td>
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<td>D. Wells</td>
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<td>R. Coren</td>
<td>Delete obsolete \texttt{bound_io_daemon}</td>
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<td>Fix bug in get_library_segment</td>
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<td>Recompile vfile_</td>
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<td>Add entry msf_acl to copy_acl_</td>
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<td>Fix bug in copy_seg_</td>
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<td>Fix bug in ipc_message_facility</td>
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<td>Make fixes to get_library_segment and its control lines</td>
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<td>New GCOS Simulator</td>
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<td>No_s_permission with status command</td>
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<td>06/18/74</td>
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<td>Recompile APL in EIS</td>
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<td>Delete obsolete I&amp;$&quot;print_attach_table&quot;</td>
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<td>06/18/74</td>
<td>M. Smith</td>
<td>Fix title parse in &quot;attach_ioname&quot;</td>
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<tr>
<td>06/18/74</td>
<td>M. Smith</td>
<td>Fix &quot;ioa$ioa_stream&quot; error code return</td>
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<tr>
<td>06/18/74</td>
<td>M. Smith</td>
<td>Fix &quot;tty_attach.p11&quot; error code returns</td>
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Recompile user-ring I/O in EIS
Proper handling of reused addresses in Salvager
Fix to map355 and build355
New version of create_lines_file
Install cumulative_page_trace, cpt
Remove outdated compatibility features in real_sdhi_
Temporary modification to online updating tool
Change directory hashing algorithm to use entire hash table
Special version of GCOS Library for MIT
fix bug in delete
add "-bftb" option to pll_abs
change translator_ec.ec
Implement 2 CPU cache software
Unify PL/I coded page wait strategy
Move cam/connect generator to page_fault
Implement I/O Buffer Manager
BOS DELREC Command to Protect Disk Record
Remove Obsolete Code from daemon_user_manager_
New Programs for System Administration: new_proj, edit_proj
Protect accounting job from blowup if files destroyed
Improved version of abbrev
Install a pause command in TOOLS
Change archive's use of the safety switch
Allow user to change switch names for det I/O
Getquota with extended star convention
Bug in full_find_command_
Addition of bindfile information to bound segments

Bug in indent

Conversion of tools to call ring_zero_peek

Bug fixes to 355 software for MDS2400

Status command on msf's

Zeroing Branch Pad Field by Salvager, Append.

Fix deficiencies in linkage fault tracing

Two hardcore interfaces for backup

Bugs in nd_handler_

Extend Segment and Directory Creation Primitives

Replace current APL system with "Super APL"

Move the "bound_dir_info" facility to sss

Extend abbrev ".I" functions

Move the "value" active function from tools to sss

Extend DPRINT to accept a "^edited" option

Extend DPRINT for "indent" option

Add a login option to set terminal-type

Install the "star" command as a standard product

Bug in copy_seg_

Bug in copy/move

Bug in get_equal_name

Installation of the net_host_status command

Implementation of a DIM for the TermiNet 120

Add new tool "post_purge_meters" to system

Add entries to error_table_ for trace package

Fix to tty_ctl
0550 R 06/04/74 M. Weaver
System handling of the finish condition
0549 A 06/04/74 M. Weaver
System handling of the finish condition
0548 A 06/04/74 M. Grady
Fix bug in tty_free
0547 A 06/04/74 S. Webber
Fix bug preventing system from doing a cold boot with more than 9 disks (191's) on-line
0546 A 05/28/74 E. Stone
Fix bug in status-primitive
0545 P 05/28/74 E. Stone
Prevent "deadly embrace" in get_aste
0544 A 05/28/74 E. Stone
Change system initialization to initialize all faults before creating a hierarchy
0543 A 05/28/74 R. Snyder
Bug in copy_out
0542 A 05/28/74 B. Wolman
Bind debug with loa_ and formline_
0541 A 05/28/74 B. Morrison
$gos daemon root directory change
0540 A 05/28/74 N. Morris
Fix bug in BOS DUMP
0539 A 05/28/74 J. Homan
Minor bug fix in reset_use_totals
0538 A 05/28/74 N. Morris
Fix BOS RESTOR Problem
0537 R 05/28/74 S. Herbst
"-name" option with archive extract
0536 W 05/28/74 S. Webber
Collect hardcore gate meters (summary only) in tc_data for spg use
0535 A 05/28/74 P. Haber
Message segment check for Bad Header Data
0534 P 05/28/74 S. Barr
Delete all code to handle Version 1 object segments in debug
0533 P 05/28/74 S. Barr
Allow user to change stream_names for debug I/O
0532 A 05/28/74 S. Barr
Change debug input default to decimal
0531 A 05/28/74 S. Barr
Change debug assignment to use data descriptors
0530 A 05/28.74 S. Herbst
Change to archive_star_
0529 A 05/28/74 A. Kobziar
Reused addresses in FSDCT ROOT
0528 A 05/28/74 B. Wolman
Fix bugs in basic
0527 A 05/28/74 M. Grady
Fix bug in configuration of dual synchronous HSLA subchannels
0526 A 05/28/74 E. Stone
Alleviate problems in shutdown
Implementation of a DIM for the TerminiNet 1200

Handling out_of_bounds on stack

gedx: incorrect cleanup bug

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 g115_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
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<td>S. Webber</td>
<td>Fix Bugs in Meter_gate</td>
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<td>A. Kobziar</td>
<td>Improper ACL setting in Delete_</td>
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<td>0494 A 05/07/74</td>
<td>N. Morris</td>
<td>Improper ACL setting in Delete_</td>
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<td>0485 A 04/30/74</td>
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<td>0477 A 04/23/74</td>
<td>D. Wells</td>
<td>Improper ACL setting in Delete_</td>
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**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 pl1_operators_**

**Modify initialization to ease the "high water mark" problem**

**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**

**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 pl1_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 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
0450 R 04/09/74 G. Dixon Add new and consolidate existing character string BIF active functions

0449 A 04/09/74 S. Webber Add feature to system to allow partial wiring of bound_sss_wired_ (which contain pill_operators_ and utilities)

0448 A 04/09/74 S. Webber Fix lost notify bug

0447 A 04/09/74 P. Green Fix cross-reference to include type-6 (create if not found) links

0446 A 04/09/74 S. Webber Change post purge algorithms

0445 A 04/09/74 S. Webber Fix file system I/O frequency meters

0444 A 04/09/74 S. Webber Add new metering tool print_tuning_parameters

0443 A 04/09/74 S. Webber Change patch_ring_zero to use command_query_

0442 A 04/09/74 P. Kelley Incorporate the safety switch into the online updating tools

0441 A 04/09/74 R. Klinger Fix bug in print_sample.refs cleanup procedure

0440 W 04/09/74 S. Herbst Mail destinations

0439 A 04/09/74 S. Barr Add cleanup handler to nstd

0438 A 04/02/74 R. Snyder HSLA software bug

0437 A 04/02/74 J. Gintel Minor enhancement and bug fix to proj_usage_report

0436 A 04/02/74 B. Greenberg Install print_paging_histogram (revised)

0435 A 04/02/74 B. Greenberg Table size CONFIG card

0434 A 04/02/74 K. Pogran Modifications to the ARPA Network Host Table

0433 A 04/02/74 S. Herbst Secure mail command

0432 A 04/02/74 T. Casey Rewrite list, listnames, and listtotals

0431 A 04/02/74 R. Snyder New ttydim/355 software

0430 A 04/02/74 P. Belmont file_status - status command for PL/1 files

0429 A 03/26/74 D. Wells Fix network portion of answering service to properly re-initialize pseudo-TTY

0428 A 03/26/74 A. Kobziar Restore ability to call online salvager from use rings
<table>
<thead>
<tr>
<th>Date</th>
<th>Author(s)</th>
<th>Task Description</th>
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<tbody>
<tr>
<td>03/26/74</td>
<td>T. VanVleck</td>
<td>Fix bug in SAC command</td>
</tr>
<tr>
<td>03/26/74</td>
<td>B. Greenberg</td>
<td>New core freeing mechanism</td>
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<tr>
<td>03/26/74</td>
<td>E. Stone</td>
<td>Modify the acl commands to work for MSFs</td>
</tr>
<tr>
<td>03/26/74</td>
<td>B. Greenberg</td>
<td>Install print Paging Histogram</td>
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<tr>
<td>03/26/74</td>
<td>P. Green, M. Smith</td>
<td>Fix bugs in Version 1 APL</td>
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<tr>
<td>03/26/74</td>
<td>N. Morris</td>
<td>Change &quot;assign_device&quot; algorithm</td>
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<tr>
<td>03/26/74</td>
<td>N. Morris</td>
<td>Fix bugs in BOS PATCH command</td>
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<tr>
<td>03/26/74</td>
<td>T. VanVleck</td>
<td>New version of indent command</td>
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<tr>
<td>03/26/74</td>
<td>E. Stone</td>
<td>Correct bug in salv_truncate</td>
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<tr>
<td>03/26/74</td>
<td>S. Herbst</td>
<td>EIS version of find_command</td>
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<tr>
<td>03/26/74</td>
<td>S. Herbst</td>
<td>bound_full_cp_ with EIS</td>
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<tr>
<td>03/26/74</td>
<td>M. Grady</td>
<td>Fix bug in LD355 and Blast</td>
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<tr>
<td>03/26/74</td>
<td>M. Weaver</td>
<td>Upgrade and fix bugs in some bound_debug_util_routines</td>
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<td>03/19/74</td>
<td>N. Morris</td>
<td>Change OPC configuration card</td>
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<tr>
<td>03/19/74</td>
<td>N. Morris</td>
<td>Fix bug in BOS PRINT command</td>
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<tr>
<td>03/19/74</td>
<td>D. Kayden, R. Roach</td>
<td>Command Name Usage Monitor</td>
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<td>03/19/74</td>
<td>S. Herbst</td>
<td>Bug in proc brackets</td>
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<tr>
<td>03/19/74</td>
<td>R. Snyder</td>
<td>TTYDIM fixes</td>
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<td>Fix bugs in BOS TSTCHN command</td>
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<td>Entry Bound fix</td>
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<td>03/19/74</td>
<td>R. Snyder</td>
<td>355 fix</td>
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<td>03/19/74</td>
<td>N. Morris</td>
<td>Change to config card format</td>
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<tr>
<td>03/19/74</td>
<td>G. G. Benedict</td>
<td>Improvements in exists active function</td>
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<tr>
<td>03/19/74</td>
<td>T. VanVleck</td>
<td>Programs for processing SYSERR log</td>
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<td>03/19/74</td>
<td>M. Maclaren</td>
<td>The Phonetic &quot;~&quot;</td>
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<tr>
<td>03/19/74</td>
<td>M. Weaver</td>
<td>Change command interface of binder</td>
</tr>
<tr>
<td>03/19/74</td>
<td>M. Weaver</td>
<td>Fix bugs in binder and make improvements</td>
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</tbody>
</table>
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 Proce
Server TELNET IOSIM
Fix send_message to get around compiler bug
0375 P 02/26/74 B. Greenberg BDS compatibility changes for 6180 cache
A 04/23/74

0374 P 02/26/74 B. Greenberg MST Generator and checker changes for cache
A 04/23/74

0373 P 02/26/74 B. Greenberg Cache Multics, single-cpu version
A 04/23/74

0372 A 02/26/74 N. Morris Change BOS not to print on every tape error
A 02/23/74

0371 A 02/26/74 S. Webber Update metering commands
A 02/26/74

0370 A 02/26/74 S. Webber Change quantum time measure from real cpu to virtual cpu
A 02/26/74

0369 A 02/26/74 B. Wolman Improve ioa_
A 02/26/74

0368 A 02/26/74 S. Barr new Tools command grab_tape_drive
A 02/26/74

0367 A 02/26/74 P. Green Do more argument checking in substr active function
A 02/26/74

0366 A 02/26/74 S. Webber Make "component" entry in print_gen_info_segment in bound_gm_
A 02/26/74

0365 A 02/26/74 S. Webber Fix duplicated metering bug in total_time_meters
A 02/26/74

0364 A 02/26/74 S. Webber Fix bugs in et.(eis_tester)
A 02/26/74

0363 A 02/26/74 S. Webber Add measure of "static" storage use in print_linkage_usage
A 02/26/74

0362 A 02/26/74 S. Webber Add new program set_proc_required to Tools
A 02/26/74

0361 A 02/26/74 S. Webber Add new T & D program "test_cpu" to Tools
A 02/26/74

0360 A 02/26/74 S. Herbst bound_full_cp_conversion
A 02/26/74

0359 A 02/26/74 E. Stone set the max lengths of system initialization segments
A 02/26/74

0358 A 02/19/74 T. VanVleck Improve system administration reports
A 02/19/74

0357 A 02/19/74 T. VanVleck Make bad clock settings less fatal
A 02/19/74

0356 A 02/19/74 T. VanVleck Improve system administration programs
A 02/19/74

0355 A 02/19/74 R. Klinger process metering commands: sample_refs and print_sample.refs
A 02/19/74

0354 A 02/19/74 R. Snyder all_rings_util_has an unused stacq subroutine
A 02/19/74

0353 A 02/19/74 N. Morris Modify IOM Manager for Online R & D Needs
Fix installation_parms access in who command

Fix bug in 355 initialization

Rewrite formline_

fix bug in find_condition_info_

fix bug in signal_

parity fault reporting is incorrect

Improve & extend IOM manager

Fix bug in init_salv_fsdcts

Convert LTS system for 256k

recursion of archive command

Install indexed-file modules

Fix bug in initialization tape_reader

Extend find_operator_name_ procedure

Interpret "disposal" properly in "tw_" and "hcs_$tty_detach".

Fix bugs in IOM_manager's handling of overhead channels

Correcting maximum tree depth

bugs in abbrev

Star convention in Archive

Fix to HSLA software

Changes to handle 1200 baud terminets

compare of zero length segments

Fix bugs in datmk routines used by linker

Fix teco bug

Bugs in archive command

Install new numeric formatting function

Update approved_routines_ table for onlin installations

Fix illegal pointers in submission-testing programs
Change in the implementation of the Network Host Activation List
Fix bugs in new condition mechanism
Fix bugs in reprint-error
Archive component names
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_

Fix its fix for use with max_seg_size

Addressing bug in qedx

Warn users about unexpected disabling of ioc 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 tdcm_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

Fix RUNCOM problem in BOS
0274 A 01/17/74 R. Freiburghouse Argument descriptors
0273 A 10/17/74 D. Levin bound_Fortran_io_
0272 A 01/17/74 D. Levin bound_Fortran_
0271 A 01/17/74 B. Wolman Install new BASIC
0270 A 01/17/74 S. Herbst "abbrev_set_cp" entry in abbrev
0269 A 01/17/74 S. Herbst change to test.timer_manager
0268 A 01/17/74 R. Barnes Install new PL/1 compiler and runtime
0267 A 01/17/74 M. A. Meer Bug in Backup
0266 A 01/17/74 M. A. Meer Bug in Dumper
0265 A 01/17/74 M. Grady Install tape metering command
0264 A 01/17/74 R. Coren Additional feature in list.daemon_requests
0263 A 01/17/74 S. Webber Add new user_settable entry to system trace
0262 A 01/17/74 S. Webber Extend page_trace to handle new trace types
0261 A 01/17/74 S. Webber Add tool "instr_speed" to system
0260 A 01/17/74 S. Webber Fix bug in test_faults_(convert to 6180)
0259 A 01/17/74 E. Stone Fix Bug in msf_manager_
0258 A 01/08/74 R. Snyder Fix to 355 bug
0257 A 01/08/74 N. Morris change tape configuration cards
0256 A 01/08/74 D. Wells Installation of 355 software tools
0255 A 01/08/74 N. Morris Modify tape DCM to support 2 channels
0254 A 01/08/74 P. Haber gc-os daemon changes
0253 A 01/08/74 D. Reed, Install new LISP subsystem
  D. Moon,
  A. Sunguroff
0252 A 01/08/74 E. Stone Allow PL/1_operators_ to be different in outer rings
0251 A 01/02/74 E. Stone Fix bug in backup_load
0250 P 01/02/74 E. Stone change access requirement to truncate primitive
  W 01/08/74
0249 A 01/02/74 E. Stone Install update_handler_ again and change interface
0248 A 01/02/74 E. Stone 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 EDF 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 I/OSIM 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 process overseer because of change in default search rules
Remove 'a' segment access references from online installation tools
0223 A 12/26/73 G. Dixon accept starnames containing ascii control characters
0222 A 12/26/73 G. Dixon sort error_table_ alphabetically by entry name
0221 A 12/26/73 K. Pogran Addition of -date option to the print-log command
0220 A 12/26/73 A. Scherer Deletion of obsolete subsystem from tools
0219 P 12/26/73 M. Padlipsky neted: A Common Editor for the ARPA Network
0218 A 12/18/73 R. Barnes Install EIS version of PL/1 compiler
0217 A 12/18/73 D. Levin Fortran compiler
0216 A 12/18/73 D. Levin bound_Fortran_io_
0215 A 12/18/73 D. Levin Math Routines
0214 A 12/18/73 R. Coren "%" bug in debug command
0213 A 12/18/73 D. Capps Fix to the "stars and bells" bug in the message coordinator
0212 A 12/18/73 S. Webber More history register and associative memory data to the PRDS
0211 A 12/18/73 S. Webber Add meters to page control
0210 A 12/18/73 S. Webber Place traps in system looking for "lost notify's"
0209 A 12/18/73 R. Freiburghouse Install the set_cc command
0208 A 12/18/73 B. Wolman Complete installation of EIS conversion routines
0207 A 12/18/73 T. VanVleck Install tape reconfiguration command
0206 A 12/18/73 D. Wells Fix bug in IMP DIM initialization
0205 A 12/18/73 A. Scherer Revised approved routines table for extended star/equals convention
0204 A 12/18/73 A. Scherer Revise approved_routines_TABLE FOR NEW ACL PRIMITIVES
0203 A 12/11/73 N. Morris Repair defective tape software
0202 A 12/11/73 M. Meer Bugs in listing tape system
0201 A 12/11/73 M. Meer Qedx addressing
0200 A 12/11/73 D. Jordan Avoid hardware bug in slt_manage
0199 A 12/11/73 N. Morris Remove obsolete tape software
0198 A 12/11/73 R. Coren
0197 A 12/11/73 M. Meer
0196 A 12/11/73 S. Webber
0195 A 12/11/73 B. Wolman
0194 R 12/11/73 R. Rakip
0193 A 12/11/73 K. Pogran
0192 A 12/11/73 D. Capps
0191 P 12/11/73 R. Mabee
w 01/02/74
0190 A 12/04/73 R. Snyder
0189 A 12/04/73 P. Kelley
0188 P 12/04/73 P. Kelley
A 12/18/73
0187 A 12/04/73 G. Dixon
0186 A 12/04/73 S. Webber
0185 A 12/04/73 R. Snyder
0184 A 12/04/73 T. Casey
0183 A 12/04/73 R. Mullen
0182 A 12/04/73 R. Snyder
0181 A 12/04/73 R. Snyder
0180 A 12/04/73 D. Wells
0179 A 11/27/73 P. Haber
gcos_daemon bug fixes
0178 A 11/27/73 R. Mullen
Fix "all 5's" bug in full_ipc_
0177 A 11/27/73 N. Morris
Type message on printer error in BOS
0176 P 11/27/73 M. Smith
Install "iox_" I/O interface (MSB-113)
A 12/04/73
0175 A 11/27/73 R. Mullen
BOS should not set masks in memory
controllers from which it is not receivi
interrupts
0174 A 11/27/73 A. Kobziar
Fix locking bug in find_
0173 A 11/27/73 T. VanVleck
Install new version of trace_stack

Improvements to debug command
QEDX default path
Put time out mechanism on waiting processes
Allow EAQ output in floating point
Busy drive recovery for generate_mst
Modifications to network_exec_
Fix bug in operator SUBSTTY command
Securable access to metering data
Installation of TTYM
Online installation documentation
Increase size of online installation
make the date_time active functions operate
as commands
Place check in stop_process to crash sys
if called by initializer
Fix to BOS BLAST command
New GCOS simulator
Rewrite edm for speed and clarity
Fix to system_trace
Fix to DN 355
Correction to ARPA Network Self
identification processing
Fix locking bug in find_
Install new version of trace_stack
0172 A 11/20/73 M. Grady
Implementation of the G115 remote computer interface

0171 A 11/20/73 M. Grady
Fix bug in trace

0170 A 11/20/73 C. Clingen
Fix bug in truncate command when called with no arguments

0169 A 11/20/73 T. VanVleck
Set TIMAX for Initializer to 1 sec. instead of 0

0168 A 11/20/73 T. VanVleck
Modify disk accounting programs to use new quota primitives

0167 A 11/20/73 T. VanVleck
Fix bug in ARDS charging

0166 A 11/20/73 T. VanVleck
Fix I/O Daemon handling of multi-segment files

0165 A 11/20/73 T. VanVleck
Remove installation-dependent ACL's from system tape

0164 A 11/20/73 T. VanVleck
Prevent Initializer from looping if a process cannot be destroyed

0163 A 11/20/73 T. VanVleck
Fix bug in ed_installation_parms

0162 A 11/20/73 T. VanVleck
Fix bug in message coordinator

0161 A 11/20/73 G. Dixon
msa_manager_bug fix

0160 A 11/20/73 T. Casey
Emergency installation of gcos simulator

0159 A 11/20/73 T. Casey
Fix bug in dump_segment_command

0158 A 11/20/73 S. Webber
Fix bug in print_aste_ptp when run on development

0157 A 11/13/73 P. Haber
ACL extended access change

0156 A 11/13/73 M. Meer
Improve listing tape system

0155 A 11/13/73 R. Snyder
Creation of system trace table

0154 A 11/13/73 G. Dixon
Fix bug in star_

0153 A 11/13/73 S. Webber
Remove "pdir" abbrev mechanism from print_apt_entry

0152 A 11/13/73 P. Haber
Message segment primitive changes

0151 A 11/13/73 D. Jordan
Hardcore updater modifications

0150 A 11/13/73 B. Wolman
Install corrected EIS conversion routines

0149 A 11/13/73 B. Wolman
Install profile command

0148 A 11/13/73 R. Coren
New I/O Daemon
<table>
<thead>
<tr>
<th>Date</th>
<th>Author</th>
<th>Task Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>11/13/73</td>
<td>M. Weaver</td>
<td>Correction of stringsize fault handling</td>
</tr>
<tr>
<td>11/13/73</td>
<td>S. Webber</td>
<td>Fix bugs in pxss</td>
</tr>
<tr>
<td>11/13/73</td>
<td>S. Webber</td>
<td>Fix bug in signaller causing EIS problems</td>
</tr>
<tr>
<td>11/13/73</td>
<td>A. Kobzlar</td>
<td>Fix zeroing reused page in salvager</td>
</tr>
<tr>
<td>11/06/73</td>
<td>R. Roach</td>
<td>Fix bug in start_dump (not printing maps)</td>
</tr>
<tr>
<td>11/06/73</td>
<td>G. Dixon</td>
<td>compare_entry_names (bug fix)</td>
</tr>
<tr>
<td>11/06/73</td>
<td>G. Dixon</td>
<td>Extended Star Convention (Phase Two)</td>
</tr>
<tr>
<td>11/06/73</td>
<td>T. VanVleck</td>
<td>Improve active functions for arithmetic and string manipulation</td>
</tr>
<tr>
<td>11/06/73</td>
<td>T. VanVleck</td>
<td>Install improved disk statistics program</td>
</tr>
<tr>
<td>11/06/73</td>
<td>B. Silver</td>
<td>Fix mail command to use set_lock</td>
</tr>
<tr>
<td>11/06/73</td>
<td>B. Wolman</td>
<td>Fix to syserr_real unlock bug</td>
</tr>
<tr>
<td>11/06/73</td>
<td>B. Wolman</td>
<td>Fix bug in remote formats</td>
</tr>
<tr>
<td>11/06/73</td>
<td>B. Wolman</td>
<td>Install upgraded PL/1 runtime</td>
</tr>
<tr>
<td>11/06/73</td>
<td>M. Smith</td>
<td>New &quot;error_table_&quot; codes</td>
</tr>
<tr>
<td>11/06/73</td>
<td>M. Smith</td>
<td>Replace &quot;endfile&quot; command by &quot;close_file&quot;</td>
</tr>
<tr>
<td>11/06/73</td>
<td>M. Smith</td>
<td>Signal &quot;finish&quot; and close files at process termination</td>
</tr>
<tr>
<td>11/06/73</td>
<td>M. Smith</td>
<td>Extend &quot;list&quot;, &quot;status&quot;, &quot;copy&quot;, &quot;move&quot; to understand multi-segment files</td>
</tr>
<tr>
<td>11/06/73</td>
<td>E. Stone</td>
<td>Fix bugs in obtaining initializer console channel name</td>
</tr>
<tr>
<td>11/06/73</td>
<td>E. Stone</td>
<td>Fix access violation in creation of outer ring stacks</td>
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<tr>
<td>11/06/73</td>
<td>E. Stone</td>
<td>Fix bug in delete-subroutine</td>
</tr>
<tr>
<td>11/06/73</td>
<td>A. Kobzlar</td>
<td>Salvager emergency shutdown</td>
</tr>
<tr>
<td>11/06/73</td>
<td>A. Kobzlar</td>
<td>Remove null address dependence from Salvager</td>
</tr>
<tr>
<td>11/06/73</td>
<td>A. Kobzlar</td>
<td>Add disk to Multics via salvager</td>
</tr>
<tr>
<td>11/06/73</td>
<td>R. Snyder</td>
<td>Fix to 1050 addressing problems</td>
</tr>
<tr>
<td>10/30/73</td>
<td>R. Mabee</td>
<td>runoff bug fix</td>
</tr>
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<td>10/30/73</td>
<td>R. Mabee</td>
<td>bcpl_library bug fix</td>
</tr>
<tr>
<td>10/30/73</td>
<td>B. Wolman</td>
<td>Install do command/active function</td>
</tr>
</tbody>
</table>
0120 A 10/30/73 B. Wolman
Install new PLI_operators

0119 A 10/30/73 B. Wolman
Change definition of entry sequence

0118 A 10/30/73 P. Haber
Bug fix to ring_1_lock

0117 A 10/30/73 A. Kobziar
Removal of active mode of salvaging

0116 A 10/30/73 M. Grady, P. Green, R. Coren
Add new order to teletype DIMS, e.g. tw_, ntw_, gl15_

0115 A 10/30/73 K. Pogran
Administrative exec_com for the Network Daemon

0114 A 10/23/73 S. Webber
Provide "fast" gate entries into the hardcore

0113 A 10/23/73 M. Meer
qedx: restriction on write with no pathname

0112 A 10/23/73 M. Meer
Listing tape system: 7 or 9 track tape designation more detailed comparison in merging

0111 A 10/23/73 M. Meer
Backup: Additional options for catchup-dump and dumper test runs

0110 A 10/23/73 M. Meer
Backup: Consolidate and cleanup file attachment interface for maps and error files

0109 A 10/23/73 D. Wells
Convert network IDSIM "changemode" call to not require a trailing period

0108 A 10/23/73 R. Roach
Improve tin output

0107 P 10/23/73 R. Roach
A 02/19/74
Sort_file enhancements

0106 A 10/23/73 R. Roach (for J. Klensin)
fix bugs in plot_

0105 A 10/23/73 R. Roach
Simplification of performance test analysis

0104 P 10/23/73 R. Roach
R 02/12/74
Command name usage measurements

0103 A 10/23/73 S. Webber
Change page multi-level removal algorithm to make pages recently faulted upon appear recently used

0102 A 10/23/73 S. Webber
Remove pre-page commands and the hard core interface

0101 A 10/23/73 S. Webber
Change memory reconfiguration code to check for parity errors in use being removed

0100 A 10/23/73 S. Webber
Remove reused addr (and other) traps from page control
Change measure of time spent looping on the page table lock

trace_init

Fix bugs in fdump

Complete directory control access modifications

Cleanup gate entries

Offer 256k segments

Convert V1/PL1 modules in hardcore to V2/PL1

Correct restrictions in area package which prevent creation of 256k areas

Allow printing of large segments

wire_stack

fix bugs in privileged_mode_ut and wire_stack

Increase the time record product field of a directory header to 2 words

Increase the max length, current length and records used fields of a directory entry 18 bits

Modification of cleanup to handle >doc>iml_info_segs. Preparation of cleanup to work with extended star>equals convention

Conversion of update-include to version two. Elimination of calls to msi and archiving of duplicates include files in >udd>include>source

qedx changes

Change to system trace package

fix printer chain images in BOS

copy_fdump not to access data beyond end of dump partition

Fix to DN355

Change to operator console software and syserr

Fix bug in fdump

Remove bulk store dependent code from emergency shutdown
0077  A 10/16/73  T. VanVleck  Fix error in message routing DIM
0076  A 10/16/73  T. VanVleck  Fix monor bug in rename_pnts
0075  W 10/16/73  P. Green,  Add new mode to "tw" - type DIMs
    R. Coren
0074  A 10/16/73  R. Kanodia  Performance improvement and bug fixes in IMI
                        DIM
0073  A 10/16/73  R. Kanodia  Updating the ARPA network host table
0072  A 10/09/73  N. Morris  change Multics standard tape format record
                           length
0071  A 10/09/73  N. Morris  Print detailed status on disk errors
0070  A 10/09/73  R. Mullen  fix send_message -> proj bug
0069  A 10/09/73  M. Weaver  changes to signalling and unwinding
0068  A 10/09/73  G. Dixon  fix msa_manager's setting of MSF indicator
0067  A 10/09/73  S. Webber  Add "mexp" to system--a macro expanding
                           preprocessor for aim
0066  A 10/09/73  S. Webber  Remove "hcs$_reset_working_set" function
                           from the system
0065  A 10/09/73  S. Webber  Fix reused address bug
0064  P 10/09/73  G. Dixon  enter_daemon_request
    W 12/18/73
0063  A 10/09/73  N. Morris  Allow BOS to be loaded from tape handler
                           other than drive 0
0062  A 10/09/73  N. Morris  Install new BOS loader
0061  A 10/09/73  R. Mullen  scs_init to detect multiple interrupt cell
                           assignments
0060  A 10/09/73  R. Snyder  Solution to hangup problem
0059  A 10/04/73  R. Mullen  bug fix to get_seg_ptrs
0058  A 10/04/73  R. Mullen  online_dump to process 256K segments
0057  A 10/04/73  R. Kanodia  Unlocking bug in the IMP-DIM
0056  A 10/04/73  M. Weaver  Changes to default system condition handler
                           and signalling of PL/1 conditions
0055  A 10/04/73  M. Weaver  New stack and fault information routines
0054  A 10/04/73  R. Snyder  Bug fix to 355 software
0053  P 10/04/73  G. Dixon  Extended star/equal convention (online
    A 10/09/73  library portion)
0052 R 10/04/73 G. Dixon do command/active function
0051 A 10/04/73 P. Green Change prt_300_conv to fix bug
0050 A 10/04/73 P. Green fix bug in full_command_processor_
0049 R 10/04/73 P. Green submit program "return_to"
0048 A 10/04/73 P. Green Add new mode to TTY dm for apl
0047 A 10/04/73 S. Webber Merge privileged and unprivileged code in the traffic controller
0046 A 10/04/73 S. Webber Merge privileged and unprivileged code in aim kernel of page control
0045 A 10/04/73 S. Webber Avoid reused address problems
0044 A 10/04/73 T. VanVleck Remove >tools from default search path
0043 A 10/04/73 T. VanVleck Fix bugs in system_control
0042 A 10/04/73 R. Snyder Fix bug causing lost status from 355
0041 A 10/04/73 T. VanVleck Change initializer process group ID to "Initializer.SysDaemon.z"
0040 A 10/04/73 T. VanVleck Remove obsolete code from io_daemon for initialization of big letter format matrix
0039 A 10/04/73 T. VanVleck Modify accounting package to check that total virtual CPU charged equals total virtual CPU used
0038 A 10/04/73 D. Jordan Modification of hardcore MSL routines to add source types "mx" (.mexp) and "mt" (.mt)
0037 A 10/04/73 M. Weaver Simplification of command loop interface to users
0036 A 10/04/73 S. Webber Lay trap for reused address bug
0035 A 10/04/73 T. VanVleck New commands for directory auditing
0034 A 10/04/73 T. VanVleck Install new billing program
0033 A 10/04/73 T. VanVleck New command/active function "user" and a new command/active function "system"
0032 A 09/25/73 M. Weaver Fix bug in get_defname
0031 A 09/18/73 T. VanVleck Allow printing through perforations on output and permit ID daemon to produce separator bar on perforation to aid the operator in output separation
0030 A 09/25/73 T. Casey Proposed changes to copy and move commands
(Approved for Study only)
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 aim

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

Place traps in the system to search for the "reused address" bug

Extend the size of device addresses from 17 to 18 bits

Fix reconfiguration problems with deleting the bootload CPU

Add new processor time metering for interrupts as a function of IOM channel number

Modify BOS to handle tapes on the MTS-500
<table>
<thead>
<tr>
<th>Date</th>
<th>Person</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>09/18/73</td>
<td>N. Morris</td>
<td>Modification of IO in Multics initialization to handle the MTS-500 tapes and allow handling 1040 word Multics standard tape records</td>
</tr>
<tr>
<td>09/18/73</td>
<td>N. Morris</td>
<td>Modify the tape DCM &amp; tape DIMs to work with the MTS-500. Also allow reading &amp; writing of 1040 word Multics standard tape records</td>
</tr>
<tr>
<td>09/18/73</td>
<td>N. Morris</td>
<td>Modify BOS to run with DSS-191 system</td>
</tr>
<tr>
<td>09/18/73</td>
<td>N. Morris</td>
<td>Fix the icm_manager not to crash the system when a system fault interrupt occurs for an unassigned channel</td>
</tr>
<tr>
<td>09/25/73</td>
<td>R. Snyder</td>
<td>Change LD355 to patch site configuration info into 355 core image</td>
</tr>
<tr>
<td>09/18/73</td>
<td>R. Snyder</td>
<td>Speed up the processing of 355 fdumps</td>
</tr>
<tr>
<td>09/18/73</td>
<td>R. Snyder</td>
<td>Enable the BOS 'BLAST' command to send to terminals hooked up to HSLA</td>
</tr>
<tr>
<td>09/18/73</td>
<td>S. Webber</td>
<td>Map certain EIS illegal faults so that the faults are effectively ignored</td>
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