TO: MTB Distribution
FROM: M. S. Hodges
DATE: February 12, 1974
SUBJECT: Multics Change Requests Index

Enclosed is an Index of all MCR's issued through February 5, 1974. This index shows the status of every MCR in the following format:

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<th>Author</th>
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253 A 01/06/74 D. Reid, D. Noon, Install new LISP subsystem
A. Sunguroff

255 A 01/06/74 E. Stone Allow PL/l_operators_ to be different in outer
rings

251 A 01/02/74 E. Stone Fix bug in backup_load

250 P 01/02/74 E. Stone change access requirement to truncate primitive

249 A 01/02/74 E. Stone Install update_handler_ again and change
interface

248 A 01/02/74 E. Stone Fix bug in absentee dim's condition handler

247 A 01/02/74 S. Webber Extend fsm to handle new meters

246 A 01/02/74 S. Webber Fix unlocking bug in get_proc_id

245 A 01/02/74 S. Webber Increase the size of STR_SEG

244 A 01/02/74 S. Barr print_dump_tape does not recognize EOF on
9 track tape

243 A 01/02/74 S. Barr edurf reports dates as 01/01/01

242 A 01/02/74 G. Dixon stop msa_manager_ from storing segment number
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241 A 01/02/74 K. T. Pogran Additions to the ARPA Network Host Table

240 A 12/26/73 D. Wolman Install procedure tracing program

239 A 12/26/73 S. Herbst Fix bugs in walk_subtree

238 A 12/26/73 S. Herbst Fix bugs in compare command

237 A 12/26/73 S. Webber Fix bug which allows fsdct pages to get milled
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236 A 12/26/73 R. Snyder Centralization of debug card checking

235 A 12/26/73 R. Snyder Establish cleanup handlers in ringo ttydim

234 A 12/26/73 R. Snyder Fix to tty_ctl

233 A 12/26/73 N. Morris Implement DSU_191's for Multics

232 A 12/26/73 A. Kobziar Remove CACL's and segment "a" permission from
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231 A 12/26/73 A. Kobziar Checking author and bit_count author names for
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230 A 12/26/73 A. Kobziar Fix double freeing of an allocation in
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229 A 12/26/73 B. Wolman  
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228 A 12/26/73 G. Dixon  
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227 P 12/26/73 D. Wells  
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A 01/02/74

226 P 12/26/74 D. Wells  
Upgrading of Answering Service to support new Network TELNET

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225 P 12/26/73 D. Wells  
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224 A 12/26/73 P. Kelley  
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223 A 12/26/73 G. Dixon  
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222 A 12/26/73 G. Dixon  
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221 A 12/26/73 K. Pogran  
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220 A 12/26/73 A. Scherer  
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219 P 12/26/73 M. Padlipsky  
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A 02/05/74

218 A 12/18/73 R. Barnes  
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217 A 12/18/73 D. Levin  
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216 A 12/18/73 D. Levin  
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215 A 12/18/73 D. Levin  
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214 A 12/18/73 R. Coren  
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213 A 12/18/73 D. Capps  
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212 A 12/18/73 S. Webber  
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211 A 12/18/73 S. Webber  
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210 A 12/18/73 S. Webber  
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209 A 12/10/73 R. Freiburghouse  
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184 A 12/04/73 T. Casey
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183 A 12/04/73 R. Mullen
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182 A 12/04/73 R. Snyder
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181 A 12/04/73 R. Snyder
Fix to DM 355

180 A 12/04/73 D. Wells
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179 A 11/27/73 P. Haber
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178 A 11/27/73 R. Mullen
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177 A 11/27/73 N. Morris
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176 A 11/27/73 M. Smith
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A 12/04/73

175 A 11/27/73 R. Mullen
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174 A 11/27/73 A. Kobziar
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173 A 11/27/73 T. VanVleck
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172 A 11/20/73 M. Grady
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171 A 11/20/73 M. Grady
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170 A 11/20/73 C. Clingen
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169 A 11/20/73 T. VanVleck
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168 A 11/20/73 T. VanVleck
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167 A 11/20/73 T. VanVleck
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166 A 11/20/73 T. VanVleck
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165 A 11/20/73 T. VanVleck
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164 A 11/20/73 T. VanVleck
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163 A 11/20/73 T. VanVleck
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162 A 11/20/73 T. VanVleck
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161  A 11/20/73  G. Dixon  msa_manager_bug fix
160  A 11/20/73  T. Casey  Emergency installation of ncos simulator
159  A 11/20/73  T. Casey  Fix bug in dump_segment_command
158  A 11/20/73  S. Webber  Fix bug in print_aste_ptp when run on development
157  A 11/13/73  P. Haber  ACL extended access change
156  A 11/13/73  H. Heer  Improve listing tape system
155  A 11/13/73  R. Snyder  Creation of system trace table
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152  A 11/13/73  P. Haber  Message segment primitive changes
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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  K. 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
Install upgraded PL/1 runtime
New "error_table_" codes
Replace "endfile" command by "close_file"
Signal "finish" and close files at process termination
Extend "list", "status", "copy", "move" to understand multi-segment files
Fix bugs in obtaining initializer console channel name
Fix access violation in creation of outer ring stacks
Fix bug in delete-subroutine
Salvager emergency shutdown
Remove null address dependence from Salvager
Add disk to Multics via salvager
Fix to 1050 addressing problems
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_1_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 marking
111  A 10/23/73  M. Meer
Backup: Additional options for catchup-dump and dumper test runs

109  A 10/23/73  D. Wells
Convert network I05111 "changemode" call to not require a trailing period

108  A 10/23/73  R. Roach
Improve tln output

107  P 10/23/73  R. Roach
Sort_file enhancements

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

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

104  P 10/23/73  R. Roach
Command name usage measurements

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

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

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

100  A 10/23/73  S. Webber
Remove reused addr (and other) traps from page control

099  A 10/23/73  S. Webber
Change measure of time spent looping on the page table lock

098  A 10/23/73  M. Grady
trace_init

097  A 10/23/73  N. Morris
Fix bugs in fdump

096  A 10/23/73  E. Stone
Complete directory control access modifications

095  A 10/23/73  E. Stone
Cleanup gate entries

094  A 10/23/73  E. Stone
Offer 256k segments

093  A 10/23/73  E. Stone
Convert V1/PL1 modules in hardcore to V2/PL1

092  A 10/23/73  E. Stone
Correct restrictions in area package which prevent creation of 256k areas

091  A 10/23/73  E. Stone
Allow printing of large segments

090  A 10/23/73  E. Stone
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 to 18 bits

Modification of cleanup to handle >doc>im1_info_segs. Preparation of cleanup to work with extended star/equals convention

Conversion of update_include to version two. Elimination of calls to msl and archiving of duplicates include files in >lld>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

Fix error in message routing DIM

Fix monor bug in rename_pnts_

Add new mode to "tw_" - type DIMs

Performance improvement and bug fixes in IMP DIM

Updating the ARPA network host table

change Multics standard tape format record length

Print detailed status on disk errors

fix send_message * proj bug

changes to signalling and unwinding

fix msa_manager-'s setting of MSF indicator
Add "mexp" to system--a macro expanding preprocessor for alm

Remove "hcs$_reset_working_set" function from the system

Fix reused address bug

enter_daemon_request

Allow BOS to be loaded from tape handler other than drive 0

Install new BOS loader

scs_init to detect multiple interrupt cell assignments

Solution to hangup problem

bug fix to get_seg_ptrs

online_dump to process 256k segments

Unlocking bug in the IMP-DIM

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 IN 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 target process to be stopped
022 A 09/25/73 S. Webber
Set the call limiters on all hardcore gates—in particular on signaller

021 P 09/25/73 M. Weaver
Modify linker and add new stack frame flags

020 A 09/25/73 N. Morris
Allow the system to utilize >2**18 records on DSU-190 (temporary fix)

019 A 09/25/73 R. Freiburghouse
Fix bug in bcpl

018 A 09/25/73 D. Capps
Modification of hardcore programs in preparation for new tape mounting package

017 A 09/25/73 S. Webber
Fix bug causing both the PD hash crashes as well as possibly all reused address problems

016 A 09/18/73 R. Wolman
Fix aln

015 A 09/18/73 S. Webber
Change "change_tuning_parameters" to use com_query_ so that it can be used in "exec_coms" & "send_admin_command"

014 A 09/14/73 S. Webber
Fix bug in ring_ causing extraneous ring_alarm faults

013 A 09/18/73 S. Webber
Place traps in the system to search for the "reused address" bug

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

011 A 09/18/73 S. Webber
Fix reconfiguration problems with deleting the bootload CPU

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

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

008 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

007 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

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

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

004 A 09/18/73 N. Morris
Add new processor time metering for interrupts as a function of IOM channel number
<table>
<thead>
<tr>
<th>Date</th>
<th>Action</th>
<th>Relevant Person(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>09/25/73</td>
<td>Change</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>Speed up</td>
<td>R. Snyder</td>
<td>Speed up the processing of 355 fdumps</td>
</tr>
<tr>
<td>09/18/73</td>
<td>Enable</td>
<td>R. Snyder</td>
<td>Enable the ROS 'BLAST' command to send to terminals hooked up to HSLA</td>
</tr>
<tr>
<td>09/18/73</td>
<td>Map</td>
<td>S. Webber</td>
<td>Map certain EIS illegal faults so that the faults are effectively ignored</td>
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