TO: MTB Distribution

FROM: M. S. Hodges

DATE: June 6, 1974

SUBJECT: Multics Change Requests Index

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:

           MCR   Action
           No.   Taken and Date   Author   Title

                   A - Approved
                   P - Postponed
                   W - Withdrawn
                   R - Rejected

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_

521	A 05/21/74	S. Webber	Fix bug preventing all oc messages from coming out
520	A 05/21/74	S. Webber	Fix bug initiating segs with the copy switch on
519	A 05/21/74	S. Webber	Attempt to fix lockup fault problem when returning from BOS
518	A 05/21/74	S. Herbst	Bug in archive
517	A 05/21/74	R. Snyder	Bug in tty_inter
516	A 05/21/74	T. VanVleck	Recompile answering service with EIS compiler
515	A 05/21/74	T. VanVleck	Recompile message coordinator with EIS compiler
514	A 05/21/74	T. VanVleck	Improvements to console_report
513	A 05/21/74	R. Snyder	Fixes to 355 software
512	A 05/21/74	R. Snyder	Fixes to map355
511	A 05/21/74	N. Morris	Fix bug in BOS SAVE and RESTOR commands
510	A 05/21/74	R. Coren	Fix remote device driver for new g115_dim interface
09	A 05/21/74	D. Levin	Bug fix for if command
508	A 05/21/74	P. Haber	Addition of get_salv_bit_ function to Version 1 message facility
507	A 05/14/74	R. Klinger	New versions of sort_items_ and sort_items_indirect_
506	A 05/14/74	P. Haber	Fix for Message Segment Facility Bug
505	P 05/14/74 A 05/21/74	N. Morris	Change DN355 Interrupt Assignments
504	A 05/14/74	B. Greenberg	Automatic System ID Generation by MST Generator
503	A 05/14/74	N. Morris	Fix Bug in Tape DCM
502	A 05/14/74	S. Herbst	Bug in Process_input_string
501	A 05/14/74	S. Webber	Fix Bugs in Meter_gate
500	A 05/14/74	A. Kobziar	Improper ACL setting in Delete_
99	A 05/14/74	A. Kobziar	dc_Pack Cleanup Handler Bug
498	A 05/14/74	R. Snyder	Loss of form feeds on input
497	A 05/14/74	E. Stone	Fix Bug in del_dir_tree

496	A 05/14/74	P. Haber	Version 1 Message Segment Primitive Bug Fix
495	A 05/14/74	R. Coren	Emergency Fixes to I/O Coordinator
494	A 05/07/74	N. Morris	Repair problems introduced by change to tape controller specifications
493	A 05/02/74	R. Barnes	Emergency Installation of pl1_operators_
492	A 05/07/74	S. Webber	Modify initialization to ease the "high water mark" problem
491	R 05/07/74	S. Herbst	change to abbrev
490	A 05/07/74	S. Barr	Bug fixes to Debug
489	P 05/07/74 W 05/21/74	S. Barr	Debug modification decimal default, new data assignment, allow choice of debug I/O
488	A 05/07/74	R. Klinger	Addition of -unique option to sort_seg command
487	R 05/07/74	B. Silver	meter_oc_log command
486	A 05/07/74	B. Silver	mstrds command
485	A 04/30/74	B. Wolman	Allow B, D, E, F, and I in numeric input fields
484	A 04/30/74	T. Casey, P. Haber	Fix error handling in GCOS Daemon and I/O subroutines
483	A 04/30/74	P. Haber	Fix message segment pointer validator
482	A 04/30/74	T. Casey	Change error_table_ messages
481	A 04/30/74	S. Webber	Study new scheduler and paging algorithms
480	A 04/23/74	B. Wolman	Delete pl1_operators_ from lang library
479	A 04/23/74	B. Greenberg	Shutdown/Startup reused address bug
478	A 04/23/74	B. Greenberg	Change LOADDM to accept command name arguments
477	A 04/23/74	D. Wells	Fix bug in interprocess communication interface
476	A 04/23/74	D. Wells	Changes to User ring link Unsnapping
475	A 04/23/74	D. Wells	Fix bug in procedure "get_device_status"
474	A 04/23/74	N. Morris	fix handling of special interrupts in BOS
473	A 04/23/74	N. Morris	Modify BOS CORE command

472	A	04/23/74	N. Morris	Fix bug in bootstrap1
471	A	04/23/74	P. Kelley	fix bug in cv_dir_acl_
470	A	04/23/74	T. Casey	New GCOS Simulator
469	A	04/23/74	P. Haber	version 2 Message Segment Bug Fixes
468	A	04/23/74	P. Haber	GCOS Daemon and GCOS User Changes
467	A	04/23/74	R. Coren	Improve access checking in dprint_
466	A	04/23/74	R. Coren	Locking strategy in I/O daemon
465	R	04/16/74	R. Frankston	Modification to the translator_segment_ interface to set the maximum length for segments
464	A	04/16/74	R. Snyder	TTYDIM change for online T&D
463	A	04/16/74	R. Snyder	Fix to meter_gate_ subroutine
462	A	04/16/74	R. Snyder	Add "report_reset" control argument to tty_meters
461	A	04/16/74	S. Webber	Fix bug in illegal_procedure's attempted simulation of the MVT instruction to zero length target strings
460	A	04/16/74	R. Barnes	Install compiler tools tmg and compile_ messages
459	A	04/16/74	D. MacLaren	The phonetic underscore
458	A	04/16/74	B. Wolman	Fix bugs in BASIC
457	A	04/16/74	N. Morris	Implement I/O Interfacer
456	A	04/16/74	N. Morris	Fix bug in operator's console software when not using log
455	A	04/16/74	N. Morris	Fix bug in BOS command LD355
454	A	04/16/74	N. Morris	Fix 2 CPU bugs in operator's console software
453	A	04/16/74	B. Greenberg	New abs_usable-abs_wired mechanism
452	A	04/16/74	B. Greenberg	Install BOS ABS command
451	R	04/16/74	A. Kobziar	delete_ bug
450	R	04/09/74	G. Dixon	Add new and consolidate existing character string BIF active functions
449	A	04/09/74	S. Webber	Add feature to system to allow partial wiring of bound_sss_wired_ (which contair pl1_operators_ and utilities)

448	A 04/09/74	S. Webber	Fix lost notify bug
447	A 04/09/74	P. Green	Fix cross_reference to include type-6 (create if not found) links
446	A 04/09/74	S. Webber	Change post purge algorithms
445	A 04/09/74	S. Webber	Fix file system I/O frequency meters
444	A 04/09/74	S. Webber	Add new metering tool print_tuning_parameters
443	A 04/09/74	S. Webber	Change patch_ring_zero to use command_query_
442	A 04/09/74	P. Kelley	Incorporate the safety switch into the online updating tools
441	A 04/09/74	R. Klinger	Fix bug in print_sample_refs cleanup procedure
440	W 04/09/74	S. Herbst	mail destinations
439	A 04/09/74	S. Barr	Add cleanup handler to nstd
438	A 04/02/74	R. Snyder	HSLA software bug
437	A 04/02/74	J. Gintell	Minor enhancement and bug fix to proj_usage_report
436	A 04/02/74	B. Greenberg	Install print_paging_histogram (revised)
435	A 04/02/74	B. Greenberg	Table size CONFIG card
434	A 04/02/74	K. Pogran	Modifications to the ARPA Network Host Table
433	A 04/02/74	S. Herbst	secure mail command
432	A 04/02/74	T. Casey	Rewrite list, listnames, and listotals
431	A 04/02/74	R. Snyder	New ttydim/355 software
430	A 04/02/74	P. Belmont	file_status - status command for PL/1 files
429	A 03/26/74	D. Wells	Fix network portion of answering service to properly re-initialize pseudo-TTY
428	A 03/26/74	A. Kobziar	Restor ability to call online salvager from use rings
427	A 03/26/74	T. VanVleck, D. Vinograd	Fix bug in SAC command

426	A 03/26/74	B. Greenberg	New core freeing mechanism
425	A 03/26/74	E. Stone	Modify the acl commands to work for MSF
424	P 03/26/74 W 04/02/74	B. Greenberg	Install print_paging_histogram
423	A 03/26/74	P. Green, M. Smith	Fix bugs in Version 1 APL
422	A 03/26/74	N. Morris	Change "assign_device" algorithm
421	A 03/26/74	N. Morris	Fix bugs in BOS PATCH command
420	A 03/26/74	T. VanVleck	New version of indent command
419	A 03/26/74	E. Stone	Correct bug in salv_truncate
418	A 03/26/74	S. Herbst	EIS version of find_command_
417	A 03/26/74	S. Herbst	bound_full_cp_ with EIS
416	A 03/26/74	M. Grady	Fix bug in LD355 and Blast
415	A 03/26/74	M. Weaver	Upgrade and fix bugs in some bound_debug_util_ routines
414	A 03/19/74	N. Morris	Change OPC configuration card
413	A 03/19/74	N. Morris	Fix bug in BOS PRINT command
412	A 03/19/74	D. Kayden, R. Roach	Command Name Usage Monitor
411	A 03/19/74	S. Herbst	Bug in proc_brackets_
410	A 03/19/74	R. Snyder	TTYDIM fixes
409	A 03/19/74	N. Morris	Fix bugs in BOS TSTCHN command
408	A 03/19/74	B. Greenberg	Entry Bound fix
407	A 03/19/74	R. Snyder	355 fix
406	A 03/19/74	N. Morris	Change to config card format
405	P 03/19/74 W 04/09/74	G. G. Benedict	Improvements in exists active function
404	A 03/19/74	T. VanVleck	Programs for processing SYSERR log
403	R 03/19/74	M. MacLaren	The Phonetic "_"
402	R 03/19/74	M. Weaver	Change command interface of binder
401	A 03/19/74	M. Weaver	Fix bugs in binder and make improvements
400	A 03/19/74	M. Weaver	Restrict traps at first reference
399	A 03/19/74	R. Coren	Make I/O daemon perform deletions after crash

398	A	03/12/74	S. Barr	Correct bug in get_user_id_ that references a table with a null pointer
397	A	02/12/74	A. Scherer	Upgrade submission testing programs
396	A	03/12/74	P. Green	Fix bugs in include cross referencer
395	A	03/12/74	K. Pogran	Modifications to network_exec_
394	A	03/12/74	K. Pogran	Changes to the ARPA Network File Transfer Server (bound_ftp_server_)
393	A	03/12/74	A. Kobziar	Debug_check changes affecting salvager
392	A	03/12/74	A. Kobziar	Bug tracing via salvager
391	A	03/05/74	N. Morris	Modify Operator's Console Software for Operation of the System Control Console and Entry Model Console
390	A	03/05/74	N. Morris	Provide Protection for MTS500 subsystem shared by two systems
389	A	03/05/74	J. Gintell	Fix problems resulting from list command upgrade
388	A	03/05/74	R. Roach	Fix up bound_acceptance_test_ for iox_
387	A	03/05/74	M. Smith	Retain entry point "iox_$control"
386	A	03/05/74	M. Smith	Fix "discard_" "seek_key" error code
385	A	03/05/74	M. Smith	Tighten IPS masking interface
384	A	03/05/74	M. Smith	Correct IPS masking bug in iox
383	A	03/05/74	M. Smith	Speed up metering gates
382	A	03/05/74	G. Dixon	Read_cards calls unique_chars_ incorrectly
381	A	03/05/74	A. Kobziar	Deleteacl -brief Option
380	A	03/05/74	D. MacLaren	Improve error_table message for I/O
379	A	03/05/74	B. Greenberg	Gate descriptor security hole
378	A	03/05/74	D. Wells	Conversion of Network Control Program (NCP) to Version II PL/1
377	A	03/05/74	D. Wells	Miscellaneous Fixes to Network User Process Server TELNET IOSIM
376	A	02/26/74	P. Green	Fix send_message to get around compiler bug
375	P A	02/26/74 04/23/74	B. Greenberg	BOS compatibility changes for 6180 cache
374	P A	02/26/74 04/23/74	B. Greenberg	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 initializatic 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	R	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

320	A 02/05/74	B. Wolman	Extend Arithmetic Active Functions
319	A 02/05/74	S. Barr	Correct bug in "&if...&then" part of process_input_string_
318	A 02/05/74	T. VanVleck	Answering Service 7.5
317	A 02/05/74	T. VanVleck	Recovery from ITT overflows
316	A 02/05/74	E. Stone	22-0 cleanup
315	A 02/05/74	R. Snyder	Fix to synchronize hangups with answering service
314	A 02/05/74	B. Wolman	Fix error in bound_debug_
313	A 02/05/74	E. Stone	Restrict system free area to be 64k
312	W 01/26/74	B. Wolman	Correct and extend comparison active functions
311	W 01/26/74	B. Wolman	Extend capabilities of arithmetic active functions
310	P 01/26/74 W 02/12/74	S. Herbst	Star convention in archive command
309	P 01/26/74 A 02/05/74	A. Kobziar	Change setacl to apply to either directories or segments when used with star convention
308	A 01/26/74	M. Weaver	Fix bugs in fault info routines
307	A 01/26/74	P. Green	Fix bugs in memo command
306	A 01/26/74	T. VanVleck, R. Barnes	Change entry definition in object segment
305	A 01/26/74	T. VanVleck	Message Coordinator Improvements
304	A 01/26/74	T. VanVleck	Fix bugs in answering service 7.4
303	A 01/26/74	R. Mabee	Securable access to metering data
302	A 01/21/74	P. Haber	Gate Macro Fix
301	A 01/21/74	J. Hannigan	BOS command to read registers of non-bootload CPU
300	A 01/21/74	J. Hannigan	BOS command to search for parity errors
299	R 01/26/74	R. Frankstone	Replacement for system routine "expand_path_"
298	A 01/21/74	D. Vinograd	Fix bug in update option during system start up

297	A 01/26/74	D. Vinograd	Increase size of IOAT
296	A 01/26/74	B. Silver	Bug fix for tape_
295	A 01/26/74	S. Herbst	Bug in archive_util_
294	P 01/22/74 W 02/12/74	M. Meer	Its fix for use with max_seg_size
293	A 01/22/74	M. Meer	Addressing bug in qedx
292	P 01/22/74 A 02/12/74	M. Weaver	Warn users about unexpected disabling of ips interrupts
291	P 01/22/74 A 02/19/74	D. Wells	Miscellaneous changes to Answering Service and Process Initialization related to Network
290	A 01/22/74	D. Wells	Creation of New Library for ARPA Network Software
289	W 01/22/74	W. Snyder	Fix tty_inter
288	A 01/22/73	S. Barr	Corrections to nstd_dim
287	A 01/22/73	A. Kobziar	Fix PL/1 Bug in Salv_Rebuild_Directory
286	A 01/22/74	A. Kobziar	Fix Setacl to work with star convention
285	W 01/22/74	R. Snyder	Fix to tty_inter
84	A 01/22/74	D. Capps	Addition of entry tdcm_promote to hcs_
83	A 01/22/74	N. Morris	Modify tape DCM to support 2 channels
82	A 01/22/74	S. Herbst	bugs in timer_manager_
81	R 01/22/74	J. Rhodes	TTY Output Integrity
80	A 01/22/74	J. Rhodes	ACI and BCI Pseudo-ops for Alm that can specify character count
79	A 01/22/74	D. Jordan	Delete obsolete library procedures
78	A 01/22/74	A. Kobziar	Reinstall ftp_mail_
77	A 01/22/74	R. Coren	Process overseer for card-reading daemon
76	A 01/22/74	S. Herbst	bugs in walk_subtree
75	A 01/22/74	N. Morris	Fix RUNCOM problem in BOS
74	A 01/17/74	R. Freiburghouse	Argument descriptors
73	A 10/17/74	D. Levin	bound_Fortran_io_
72	A 01/17/74	D. Levin	bound_Fortran_

271	A 01/17/74	B. Wolman	Install new BASIC
270	A 01/17/74	S. Herbst	"abbrev_set_cp" entry in abbrev
	A 01/17/74	S. Herbst	change to test_timer_manager
268	A 01/17/74	R. Barnes	Install new PL/1 compiler and runtime
267	A 01/17/74	M. A. Meer	Bug in Backup
266	A 01/17/74	M. A. Meer	Bug in Dumper
265	A 01/17/74	M. Grady	Install tape metering command
264	A 01/17/74	R. Coren	Additional feature in list_daemon_requests
263	A 01/17/74	S. Webber	Add new user_settable entry to system trace
262	A 01/17/74	S. Webber	Extend page_trace to handle new trace types
261	A 01/17/74	S. Webber	Add tool "instr_speed" to system
260	A 01/17/74	S. Webber	Fix bug in test_faults_(convert to 6180)
259	A 01/17/74	E. Stone	Fix Bug in msf_manager_
258	A 01/08/74	R. Snyder	Fix to 355 bug
257	A 01/08/74	N. Morris	change tape configuration cards
256	A 01/08/74	D. Wells	Installation of 355 software tools
255	W 01/08/74	N. Morris	Modify tape DCM to support 2 channels
254	A 01/08/74	P. Haber	gcos daemon changes
253	A 01/08/74	D. Reed, D. Moon, A. Sunguroff	Install new LISP subsystem
252	A 01/08/74	E. Stone	Allow PL/1_operators_ to be different in outer rings
251	A 01/02/74	E. Stone	Fix bug in backup_load
250	P 01/02/74 W 01/08/74	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

44	A 01/02/74	S. Barr	print_dump_tape does not recognize EOF on 9 track tape
43	A 01/0/274	S. Barr	edurf reports dates as 01/01/01
42	A 01/02/74	G. Dixon	stop msa_manager_ from storing segment number in bit count of MSA components
41	A 01/02/74	K. T. Pogran	Additions to the ARPA Network Host Table
40	A 12/26/73	B. Wolman	Install procedure tracing program
39	A 12/26/73	S. Herbst	Fix bugs in walk_subtree
38	A 12/26/73	S. Herbst	Fix bugs in compare command
37	A 12/26/73	S. Webber	Fix bug which allows fsdct pages to get milled out
36	A 12/26/73	R. Snyder	Centralization of debug card checking
35	A 12/26/73	R. Sndyer	Establish cleanup handlers in ringo ttydim
34	A 12/26/73	R. Snyder	Fix to tty_ctl
33	A 12/26/73	N. Morris	Implement DSU_191's for Multics
32	A 12/26/73	A. Kobziar	Remove CACL's and segment "a" permission from salvager
31	A 12/26/73	A. Kobziar	Checking author and bit_count author names for non-ascii in Salvager
30	A 12/26/73	A. Kobziar	Fix double freeing of an allocation in acl-commands
29	A 12/26/73	B. Wolman	change basic_system to call new basic
28	A 12/26/73	G. Dixon	accept equal names containing ascii control characters
27	P 12/26/73 A 01/02/74	D. Wells	Upgrading of user process Network IOSIM to support new TELNET protocol and to add additional functions
26	P 12/26/74 A 01/02/74	D. Wells	Upgrading of Answering Service to support new Network TELNET
25	P 12/26/73 W 01/08/74	D. Wells	Insertion of a link into SSS to Network FTP process overseer because of change in default search rules
24	A 12/26/73	P. Kelley	Remove 'a' segment access references from online installation tools
23	A 12/26/73	G. Dixon	accept starnames containing ascii control characters

222	A 12/26/73	G. Dixon	sort error_table_ alphabetically by entry name
22~	A 12/26/73	K. Pogran	Addition of -date option to the print-log command
220	A 12/26/73	A. Scherer	Deletion of obsolete subsystem from tools
219	P 12/26/73 A 02/05/74	M. Padlipsky	neted: A Common Editor for the ARPA Network
218	A 12/18/73	R. Barnes	Install EIS version of PL/1 compiler
217	A 12/18/73	D. Levin	Fortran compiler
216	A 12/18/73	D. Levin	bound_Fortran_io_
215	A 12/18/73	D. Levin	Math Routines
214	A 12/18/73	R. Coren	"%" bug in debug command
213	A 12/18/73	D. Capps	Fix to the "stars and bells" bug in the message coordinator
212	A 12/18/73	S. Webber	More history register and associative memory data to the PRDS
211	A 12/18/73	S. Webber	Add meters to page control
2.	A 12/18/73	S. Webber	Place traps in system looking for "lost notify's"
209	A 12/18/73	R. Freiburghouse	Install the set_cc command
208	A 12/18/73	B. Wolman	Complete installation of EIS conversion routines
207	A 12/18/73	T. VanVleck	Install tape reconfiguration command
206	A 12/18/73	D. Wells	Fix bug in IMP DIM initialization
205	A 12/18/73	A. Scherer	Revised approved routines table for extended star/equals convention
204	A 12/18/73	A. Scherer	Revise approved_routines_TABLE FOR NEW ACL PRIMITIVES
203	A 12/11/73	N. Morris	Repair defective tape software
202	A 12/11/73	M. Meer	Bugs in listing tape system
201	A 12/11/73	M. Meer	Qedx addressing
2..	A 12/11/73	D. Jordan	Avoid hardware bug in slt_manage
199	A 12/11/73	N. Morris	Remove obsolete tape software
198	A 12/11/73	R. Coren	Improvements to debug command

97	A 12/11/73	M. Meer	QEDX default path
96	A 12/11/73	S. Webber	Put time out mechanism on waiting processes
95	A 12/11/73	B. Wolman	Allow EAQ output in floating point
94	R 12/11/73	R. Rakip	Busy drive recovery for generate_mst
93	A 12/11/73	K. Pogran	Modifications to network_exec_
92	A 12/11/73	D. Capps	Fix bug in operator SUBSTTY command
91	P 12/11/73 W 01/02/74	R. Mabee	Securable access to metering data
90	A 12/04/73	R. Snyder	Installation of TTYM
89	A 12/04/73	P. Kelley	Online installation documentation
88	P 12/04/73 A 12/18/73	P. Kelley	Increase size of online installation
87	A 12/04/73	G. Dixon	make the date_time active functions operate as commands
86	A 12/04/73	S. Webber	Place check in stop_process to crash system if called by initializer
85	A 12/04/73	R. Snyder	Fix to BOS BLAST command
84	A 12/04/73	T. Casey	New GCOS simulator
83	A 12/04/73	R. Mullen	Rewrite edm for speed and clarity
82	A 12/04/73	R. Snyder	Fix to system_trace
81	A 12/04/73	R. Snyder	Fix to DN 355
80	A 12/04/73	D. Wells	Correction to ARPA Network Self-identification processing
79	A 11/27/73	P. Haber	gcos_daemon bug fixes
78	A 11/27/73	R. Mullen	Fix "all 5's" bug in full_ipc_
77	A 11/27/73	N. Morris	Type message on printer error in BOS
76	P 11/27/73 A 12/04/73	M. Smith	Install "iox_" I/O interface (MSB-113)
75	A 11/27/73	R. Mullen	BOS should not set masks in memory controllers from which it is not receiving interrupts
74	A 11/27/73	A. Kobziar	Fix locking bug in find_
73	A 11/27/73	T. VanVleck	Install new version of trace_stack

172	A 11/20/73	M. Grady	Implementation of the G115 remote computer interface
𝗒	A 11/20/73	M. Grady	Fix bug in trace
170	A 11/20/73	C. Clingen	Fix bug in truncate command when called with no arguments
169	A 11/20/73	T. VanVleck	Set TIMAX for Initializer to 1 sec. instead of 0
168	A 11/20/73	T. VanVleck	Modify disk accounting programs to use new quota primitives
167	A 11/20/73	T. VanVleck	Fix bug in ARDS charging
166	A 11/20/73	T. VanVleck	Fix I/O Daemon handling of multi-segment files
165	A 11/20/73	T. VanVleck	Remove installation-dependent ACL's from system tape
164	A 11/20/73	T. VanVleck	Prevent Initializer from looping if a process cannot be destroyed
163	A 11/20/73	T. VanVleck	Fix bug in ed_installation_parms
162	A 11/20/73	T. VanVleck	Fix bug in message coordinator
1	A 11/20/73	G. Dixon	msa_manager_bug fix
160	A 11/20/73	T. Casey	Emergency installation of gcos 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	M. Meer	Improve listing tape system
155	A 11/13/73	R. Snyder	Creation of system trace table
154	A 11/13/73	G. Dixon	Fix bug in star_
153	A 11/13/73	S. Webber	Remove "pdir" abbrev mechanism from print_apt_entry
152	A 11/13/73	P. Haber	Message segment primitive changes
151	P 11/13/73 A 11/27/73	D. Jordan	Hardcore updater modifications
𝗒	A 11/13/73	B. Wolman	Install corrected EIS conversion routines
149	A 11/13/73	B. Wolman	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 ssatistics 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

122	A 10/30/73	R. Mabee	bcpl_library bug fix
121	A 10/30/73	B. Wolman	Install do command/active function
1⌒	A 10/30/73	B. Wolman	Install new PL1_operators_
119	A 10/30/73	B. Wolman	Change definition of entry sequence
118	A 10/30/73	P. Haber	Bug fix to ring_1_lock
117	A 10/30/73	A. Kobziar	Removal of active mode of salvaging
116	A 10/30/73	M. Grady, P. Green, R. Coren	Add new order to teletype DIMS, e.g. tw_, ntw_, g115_
115	A 10/30/73	K. Pogran	Administrative exec_com for the Network Daemon
114	A 10/23/73	S. Webber	Provide "fast" gate entries into the hardcore
113	A 10/23/73	M. Meer	qedx: restriction on write with no pathname
112	A 10/23/73	M. Meer	Listing tape system: 7 or 9 track tape designation more detailed comparison in merging
111 ⌒	A 10/23/73	M. Meer	Backup: Additional options for catchup-dump and dumper test runs
110	A 10/23/73	M. Meer	Backup: Consolidate and cleanup file attachment interface for maps and error files
109	A 10/23/73	D. Wells	Convert network IOSIM "changemode" call to not require a trailing period
108	A 10/23/73	R. Roach	Improve tln output
107	P 10/23/73 A 02/19/74	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 02/12/74	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

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
99	A 10/23/73	S. Webber	Change measure of time spent looping on the page table lock
98	A 10/23/73	M. Grady	trace_init
97	A 10/23/73	N. Morris	Fix bugs in fdump
96	A 10/23/73	E. Stone	Complete directory control access modifications
95	A 10/23/73	E. Stone	Cleanup gate entries
94	A 10/23/73	E. Stone	Offer 256k segments
93	A 10/23/73	E. Stone·	Convert V1/PL1 modules in hardcore to V2/PL1
92	A 10/23/73	E. Stone	Correct restrictions in area package which prevent creation of 256k areas
91	A 10/23/73	E. Stone	Allow printing of large segments wire_stack
90	A 10/23/73	E. Stone	fix bugs in privileged_mode_ut and wire_stack
89	A 10/16/73	E. Stone	Increase the time record product field of a directory header to 2 words
88	A 10/16/73	E. Stone	Increase the max length, current length and records used fields of a directory entry to 18 bits
87	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
86	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
85	A 10/16/73	M. Meer	qedx changes
84	A 10/16/73	R. Snyder	Change to system trace package
83	A 10/16/73	N. Morris	fix printer chain images in BOS
82	A 10/16/73	R. Mullen	copy_fdump not to access data beyond end of dump partition
81	A 10/16/73	R. Snyder	Fix to DN355

080	P 10/16/73 A 11/27/73	W. Silver	Change to operator console software and syserr
079	A 10/16/73	N. Morris	Fix bug in fdump
078	A 10/16/73	N. Morris	Remove bulk store dependent code from emergency shutdown
077	A 10/16/73	T. VanVleck	Fix error in message routing DIM
076	A 10/16/73	T. VanVleck	Fix monor bug in rename_pnts_
075	W 10/16/73	P. Green, R. Coren	Add new mode to "tw_" - type DIMs
074	A 10/16/73	R. Kanodia	Performance improvement and bug fixes in IMP DIM
073	A 10/16/73	R. Kanodia	Updating the ARPA network host table
072	A 10/09/73	N. Morris	change Multics standard tape format record length
071	A 10/09/73	N. Morris	Print detailed status on disk errors
070	A 10/09/73	R. Mullen	fix send_message * proj bug
069	A 10/09/73	M. Weaver	changes to signalling and unwinding
068	A 10/09/73	G. Dixon	fix msa_manager_'s setting of MSF indicator
067	A 10/09/73	S. Webber	Add "mexp" to system--a macro expanding preprocesor for alm
066	A 10/09/73	S. Webber	Remove "hcs_$reset_working_set" function from the system the sythe stem
065	A 10/09/73	S. Webber	Fix reused address bug
064	P 10/09/73 W 12/18/73	G. Dixon	enter_daemon_request
063	A 10/09/73	N. Morris	Allow BOS to be loaded from tape handler other than drive 0
062	A 10/09/73	N. Morris	Install new BOS loader
061	A 10/09/73	R. Mullen	scs_init to detect multiple interrupt cell assignments
060	A 10/09/73	R. Snyder	Solution to hangup problem
059	A 10/04/73	R. Mullen	bug fix to get_seg_ptrs
058	A 10/04/73	R. Mullen	online_dump to process 256k segments
057	A 10/04/73	R. Kanodia	Unlocking bug in the IMP-DIM

6	A 10/04/73	M. Weaver	Changes to default system condition handler and signalling of PL/1 conditions
5	A 10/04/73	M. Weaver	New stack and fault information routines
4	A 10/04/73	R. Snyder	Bug fix to 355 software
3	P 10/04/73 A 10/09/73	G. Dixon	Extended star/equal convention (online library portion)
2	R 10/04/73	G. Dixon	do command/active function
1	A 10/04/73	P. Green	Change prt_300_conv to fix bug
0	A 10/04/73	P. Green	fix bug in full_command_processor_
9	R 10/04/73	P. Green	submit program "return_to"
8	A 10/04/73	P. Green	Add new mode to TTY dm for apl
7	A 10/04/73	S. Webber	Merge privileged and unprivileged code in the traffic controller
6	A 10/04/73	S. Webber	Merge privileged and unprivileged code in alm kernel of page control
5	A 10/04/73	S. Webber	Avoid reused address problems
4	A 10/04/73	T. VanVleck	Remove >tools from default search path
3	A 10/04/73	T. VanVleck	Fix bugs in system_control
2	A 10/04/73	R. Snyder	Fix bug causing lost status from 355
1	A 10/04/73	T. VanVleck	Change initializer process group ID to "Initializer.SysDaemon.z"
0	A 10/04/73	T. VanVleck	Remove obsolete code from io_daemon for initialization of big letter format matrix
9	A 10/04/73	T. VanVleck	Modify accounting package to check that total virtual CPU charged equals total virtual CPU used
8	A 10/04/73	D. Jordan	Modification of hardcore MSL routines to add source types "mx" (.mexp) and "mt" (.mt)
7	A 10/04/73	M. Weaver	Simplification of command loop interface to users
6	A 10/04/73	S. Webber	Lay trap for reused address bug
5	A 10/04/73	T. VanVleck	New commands for directory auditing
4	A 10/04/73	T. VanVleck	Install new billing program
3	A 10/04/73	T. VanVleck	New command/active function "user" and a new command/active function "system"

032	A 09/25/73	M. Weaver	Fix bug in get_defname
031	A 09/18/73	T. VanVleck	Allow printing through perforations on output and permit 10 daemon to produce separator bar on perforation to aid the operator in output separation
030	A 09/25/73 (Approved for Study only)	T. Casey	Proposed changes to copy and move commands
029	R 09/25/73	T. Casey	new active function:target
028	A 09/25/73	T. Casey	two new control arguments added to dump_segment (ds) command
027	R 09/25/73	T. Casey	new active function: esr
026	R 09/25/73	T. Casey	new subroutine: execute_search_rules_
025	A 09/25/73	B. Wolman	Record certain math subroutines in alm
024	A 09/25/73	B. Wolman	Add ptr to operator transfer vector to base of stack
023	A 09/18/73	S. Webber	Change process destruction so that the driving process need not "wait" in ring zero for the 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 A 10/04/73	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	B. Wolman	Fix alm
015	A 09/18/73	S. Webber	Change "change_tuning_parameters" to use com_query_ so that it can be used in "exec_coms" and with "send_admin_command"
014	A 09/14/73	S. Webber	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 A 10/09/73		N. Morris	Modify BOS to handle tapes on the MTS-500
8	P 09/18/73 A 10/09/73		N. Morris	Modification of IO in Multics initialization to handle the MTS-500 tapes and allow handling 1040 word Multics standard tape records
7	P 09/18/73 A 10/09/73		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
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 syst⟨ 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