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MULTICS TECHNICAL BULLETIN

MTB-114

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:

<u>MCR</u> <u>No.</u>	<u>Action</u> <u>Taken and Date</u>	<u>Author</u>	<u>Title</u>
	A - Approved		
	P - Postponed		
	W - Withdrawn		
	R - Rejected		

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0730	A	08/27/74	S. Webber	Change mechanism of calling initial procedure in a new process
0729	A	08/27/74	S. Herbst	Fix bug in mseg_access_
28	A	08/27/74	S. Barr	Add a wait for rewind completion to the detach entry for the nstd_ tape dim
0727	A	08/27/74	R. Barnes	Install pil_operators_, any_to_any, and dec_ops_
0726	A	08/27/74	S. Herbst	Implement status "names" option
0725	A	08/27/74	T. Casey	Error checking by indent command
0724	A	08/20/74	B. Wolman	Install new version of basic
0723	A	08/20/74	B. Wolman	Fix bugs in basic
0722	A	08/20/74	P. Janson	New ring 1 gate macros
0721	A	08/20/74	B. Wolman	Bind together debug, trace_stack, and trace
0720	A	08/20/74	S. Herbst	Implement new matching strategy in acl_commands
0719	A	08/20/74	R. Barnes	Install compare_object
0718	A	08/20/74	A. Scherer	Prepare library programs for unbundled library
0717	A	08/20/74	N. Morris	Fix BDS to run with Reader on any channel
0716	A	08/20/74	B. Silver	Deletion of set file protect on tape detach
0715	A	08/20/74	B. Silver	Add name tdcn_ to hcs_
0714	A	08/20/74	P. Green	Make changes to Answering Service to Implement Access Isolation Mechanism
0713	A	08/20/73	D. MacLaren	vfile_ bugs
0712	A	08/20/74	N. Morris	Make a segment for the BDS toehold
0711	A	08/20/74	N. Morris	Make a branch for configuration deck in system_library_1
0710	A	08/20/74	N. Morris,	Fix bugs reading HALF/FULL switch in BDS and Multics
0709	A	08/13/74	A. Kobziar	Deleted Directory Quota
0708	P A	08/13/74 08/27/74	T. Casey	New Control Argument for indent command
707	A	08/13/74	T. Casey	New GCDS Simulator
0706	A	08/13/74	R. Mabee	Changes to bcpl, runoff, and bcpl library

0705	A	08/13/74	S. Webber	Add tool check_sst to system
0704	A	08/13/74	N. Morris	Fix numeric conversion problem in BDS
0703	A	08/13/74	N. Morris	Fix Lockup Fault Problem in BDS
0702	A	08/13/74	N. Morris	Modify BDS to run with URMPC Peripherals
0701	A	08/13/74	R. Roach	Add -lines option to tty_lines
0700	A	08/13/74	S. Herbst	Install find_common_acl_names_
0699	A	08/13/74	S. Herbst	Install extended_access_commands
0698	A	08/13/74	J. Whitmore	Move hardcore printer interface to prtdev_
0697	A	08/06/74	R. Snyder	Problem in TermiNets Proc
0696	A	08/06/74	R. Snyder	Fix to BUILD355
0695	A	08/06/74	S. Webber	Establish convention for user ring gate segments
0694	A	08/06/74	S. Webber	Repair security hole in restart_fault_
0693	A	08/06/74	R. Mullen	Move 2 entries from hcs_ to phpcs_
0692	A	08/06/74	R. Mullen	Remove 2 entries from the gate hcs_
0691	A	08/06/74	J. Stern	Installation of word_list and related commands
0690	A	08/06/74	G. Benedict	Fix bugs in exists active function
0689	A	08/06/74	S. Webber	Change program parity_fault to log more information about op-not-complete
0688	A	08/06/74	S. Webber	Fix bug in pc_abs
0687	A	08/06/74	S. Webber	Fix bug in wire_proc locking strategy
0686	P	08/06/74	S. Webber	Extend program interrupt mechanism
0685	A	08/13/74	A. Scherer	Improve submission tests to use now-working -rename feature of get_library_segment
0684	A	07/30/74	A. Scherer	Improve submission testing programs
0683	P	07/30/74	G. Dixon	Install lex_string_ and reduction_compiler
0682	A	07/30/74	D. Kayden	Update BDS FMT command
0681	A	07/30/74	A. Kobziar	Implement Security Attributes in Salvager
0680	A	07/30/74	D. Hunt	Modification for enforcing the Access Isolation Mechanism with respect to Interprocess
0679	A	07/30/74	S. Herbst	Fix bug in queue_mseg_

0678	R	07/30/74	S. Herbst	Implement new mseg commands
0677	A	07/30/74	B. Silver	New iox_\$\$position type value
76	A	07/30/74	R. Snyder	Bug in ii
0675	A	07/30/74	S. Barr	Change grab_tape_drive so it ignores the process limit if the user is privileged
0674	A	07/30/74	R. Mullen	Backup to call new hcs_ entries
0673	A	07/30/74	R. Mullen	New backup record types
0672	A	07/30/74	R. Mullen	Backup bugfixes
0671	A	07/30/74	A. Scherer	Fix unreported bug in get_library_segment which occurs when source segment has a two-character name
0670	A	07/23/74	R. Coren	Refine I/O Coordinator's algorithm for dropping queues
0669	A	07/23/74	R. Coren	Prevent I/O Daemon from deleting modified files
0668	A	07/23/74	R. Coren	Fix bug in I/O Coordinator "test" mode
0667	A	07/23/74	E. Stone	Move on units in status_ primitive from internal procedures to containing block
0666	A	07/23/74	R. Snyder	Error in tty_read
0665	P	07/23/74	J. Broughton	A new symbolic debugger - probe
0664	A	07/23/74	J. Broughton	Add runtime routine to stu_ to convert pointer to offset
0663	A	07/23/74	J. Broughton	Fix bugs in stu_
0662	A	07/23/74	J. Gintell, S. Webber, S. Barr	Study the problems associated with "small" process, build a prototype
0661	R	07/23/74	G. AckermanLewis	Modify and extend the backup system to notify users about entries not backed up
0660	A	07/23/74	P. Kelley	Improve consistency of msa_manager_
0659	A	07/23/74	N. Morris	Fix bug in BDS FDUMP mechanism
0658	A	07/23/74	R. Snyder	Fix to the "CRECHO" bug
0657	A	07/23/74	R. Coren	Bug fix to "restart" command in I/O daemon
556	W	07/16/74	G. Dixon	supply missing error_table_ code for sort_seg
0655	A	07/16/74	J. Homan	Change to punch_MIT_deck

0654	A	07/16/74	B. Wolman	Install new numeric formatting program arithmetic_to_ascii_
0653	A	07/16/74	B. Wolman	Fix bug in pil_operators_
0652	A	07/11/74	S. Herbst	Implement mail_table_manager_
0651	A	07/11/74	T. VanVleck	Fix bugs in answering service
0650	A	07/11/74	D. Levin	Remove file_manager from standard system
0649	A	07/11/74	D. Levin	New FORTRAN common implementation
0648	A	07/11/74	T. VanVleck	Fix bug in black & white chart
0647	A	07/11/74	T. VanVleck	Improvements to accounts_overseer_
0646	W	07/11/74	D. Wells	Extension of MCR's 200 and 201
0645	A	07/11/74	D. Wells	Creation of New Library for ARPA Network Software
0644	A	07/11/74	R. Snyder	Bug in tty control tables
0643	A	07/11/74	S. Herbst	Fix MSF bug in copy_seg_
0642	A	07/11/74	S. Herbst	Install new mail command
0641	A	07/11/74	P. Haber	Message Segment Bug Fixes
0640	A	07/11/74	M. Grady	Fix bug in tty_write
0639	A	07/11/74	M. Grady	Fix bug in tty_dim for MDS 2400
0638	A	07/11/74	A. Kobziar	msf_manager_ acf handling
0637	A	07/11/74	R. Coren	Fix bug in I/O Coordinator
0636	A	07/02/74	D. Wells	Installation of "user_telnet" and some related programs in the Network Library
0635	P A	07/02/74 08/27/74	D. Wells	Modifications to NCP to standardize access control & handle processing terminatio conditions
0634	A	07/02/74	D. Wells	Fixes to the system tool "mexp"
0633	A	07/02/74	R. Coren	Delete obsolete bound_io_daemon
0632	A	07/02/74	S. Webber	Install new version of tool "dump_pemap"
0631	A	07/02/74	S. Webber	Add tool "ol_dump" to system
0630	A	07/02/74	J. Whitmore	Addition of security check module to hardcore
0629	A	07/02/74	M. Weaver	Turn printer on after a condition

0628	A	07/02/74	S. Herbst	Fix bug in get_library_segment
0627	A	07/02/74	G. Dixon	Fix bugs in sort_seg
0626	A	07/02/74	N. Morris	Enable Operator to Specify tape drive in BDS SALV
0625	F W	07/02/74 07/11/74	S. Herbst	Fix MSF bug in copy_seg_
0624	A	07/02/74	M. Weaver	Fix bug in com_err_
0623	P A	07/02/74 07/16/74	S. Herbst	Report msf error with status command
0622	A	06/25/74	D. MacLaren	Recompile vfile_
0621	A	06/25/74	T. VanVleck	Fix bug in enter command
0620	A	06/25/74	J. Gintell	Improve add_copyright command
0619	A	06/25/74	A. Kobziar	Implement Security Attributes in Storage System, Part 2
0618	P A	06/25/74 07/02/74	A. Kobziar	Implement Security Attributes in Storage System, Part 1
0617	A	06/25/74	S. Herbst	Implement the "-long" option with abc
0616	P A	06/25/74 07/16/74	S. Herbst	adjust_bit_count on MSF's
0615	A	06/25/74	S. Herbst	Add entry msf_acl to copy_acl_
0614	P A	06/25/74 07/16/74	S. Herbst	Fix bug in copy_seg_
0613	A	06/25/74	S. Herbst	Fix bug in ipc_message_facility
0612	A	06/18/74	A. Scherer	Make fixes to get_library_segment and its control lines
0611	A	06/18/74	T. Casey	New GCDS Simulator
0610	A	06/18/74	S. Herbst	no_s_permission with status command
0609	A	06/18/74	M. Smith	Fix APL take/drop bug
0608	A	06/18/74	M. Smith	Fix APL transpose bug
0607	A	06/18/74	M. Smith	Recompile APL in EIS
0606	A	06/18/74	M. Smith	Delete obsolete IDS "print_attach_table"
0605	A	06/18/74	M. Smith	Fix title parse in "attach_ioname"
0604	A	06/18/74	M. Smith	Fix "ioa_\$ioa_stream" error code return
0603	A	06/18/74	M. Smith	Fix "tty_attach.pl1" error code returns

0602	A	06/18/74	M. Smith	Recompile user-ring I/O in EIS
0601	P	06/18/74	A. Kobziar	Proper handling of reused
	A	07/30/74		addresses in Salvager
0600	A	06/18/74	R. Snyder	Fix to map355 and build355
0599	A	06/18/74	D. Vinograd	New version of create_lines_file
0598	A	06/18/74	J. Gintell	Install cumulative_page_trace, cpt
0597	A	06/18/74	M. Weaver	Remove outdated compatibility features in real_sdh_
0596	A	06/18/74	P. Kelley	Temporary modification to online updating tool
0595	A	06/18/74	E. Stone	Change directory hashing algorithm to use entire hash table
0594	A	06/18/74	T. Casey	Special version of GCDS Library for MIT
0593	A	06/18/74	S. Herbst	fix bug in delete
0592	A	06/18/74	S. Herbst	add "-bftb" option to pl1_abs
0591	A	06/18/74	S. Herbst	change translator_ec.ec
0590	A	06/18/74	B. Greenberg	Implement 2 CPU cache software
0589	A	06/18/74	B. Greenberg	Unify PI/1 coded page wait strategy
0588	A	06/18/74	B. Greenberg	Move cam/connect generator to page_fault
0587	A	06/18/74	B. Greenberg	Implement I/O Buffer Manager
0586	A	06/18/74	N. Morris	BDS DELREC Command to Protect Disk Record
0585	A	06/18/74	T. VanVleck	Remove Obsolete Code from daemon_user_manager_
0584	A	06/18/74	T. VanVleck	New Programs for System Administration: new_proj, edit_proj
0583	A	06/18/74	T. VanVleck	Protect accounting job from blowup if files destroyed
0582	P	06/18/74	J. Goldman	Improved version of abbrev
0581	A	06/11/74	R. Roach	Install a pause command in TOOLS
0580	A	06/11/74	R. Roach	Change archive's use of the safety switch
0579	A	06/11/74	S. Barr	Allow user to change switch names for det I/O
0578	A	06/11/74	S. Herbst	Getquota with extended star convention
0577	A	06/11/74	S. Herbst	Bug in full_find_command_

0576	A	06/11/74	M. Weaver	Addition of bindfile information to bound segments
0575	A	06/11/74	T. VanVleck	Bug in indent,
0574	A	06/11/74	R. Roach	Conversion of tools to call ring_zero_peek
0573	A	06/11/74	M. Grady	Bug fixes to 355 software for MDS2400
0572	P W	06/11/74 07/11/74	S. Herbst	Status command on msf's
0571	A	06/11/74	A. Kobziar	Zeroing Branch Pad Field by Salvager, Append.
0570	A	06/11/74	S. Webber	Fix deficiencies in linkage fault tracing
0569	A	06/11/74	R. Mullen	Two hardcore interfaces for backup
0568	A	06/11/74	S. Herbst	Bugs in nd_handler_
0567	R	06/11/74	B. May	Extend Segment and Directory Creation Primitives
0566	R	06/11/74	B. May	Replace current APL system with "Super APL"
0565	R	06/11/74	B. May	Move the "bound_dir_info" facility to sss
0564	A	06/11/74	B. May	Extend abbrev ".l" functions
0563	R	06/11/74	B. May	Move the "value" active function from tools to sss
0562	R	06/11/74	B. May	Extend DPRINT to accept a "^edited" option
0561	R	06/11/74	B. May	Extend DPRINT for "indent" option
0560	R	06/11/74	B. May	Add a login option to set terminal-type
0559	R	06/11/74	B. May	Install the "star" command as a standard product
0558	A	06/04/74	S. Herbst	Bug in copy_seg_
0557	A	06/04/74	S. Herbst	Bug in copy/move
0556	A	06/04/74	S. Herbst	Bug in get_equal_name
0555	A	06/04/74	K. Pogran	Installation of the net_host_status command
0554	A	06/04/74	M. Grady	Implementation of a DIM for the TermiNet 1200
0553	A	06/04/74	S. Webber	Add new tool "post_purge_meters" to system
0552	A	06/04/74	B. Wolman	Add entries to error_table_ for trace package
0551	A	06/04/74	R. Snyder	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 A	05/28/74 06/18/74	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 ioa_ and formline_
0541	A	05/28/74	B. Morrison	gcos daemon root directory change
0540	A	05/28/74	N. Morris	Fix bug in BDS DUMP
0539	A	05/28/74	J. Homan	Minor bug fix in reset_use_totals
0538	A	05/28/74	N. Morris	Fix BDS 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 %c_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

0525	P	05/28/74	M. Grady	Implementation of a DIM for the TermiNet 1200
	W	06/04/74		
0524	A	05/21/74	M. Weaver	Handling out_of_bounds_ on stack
23	A	05/21/74	M. Meer	qedx: incorrect cleanup bug
0522	A	05/21/74	S. Webber	Remove entries initiate_seg_initiate_seg count from hcs_
0521	A	05/21/74	S. Webber	Fix bug preventing all oc messages from coming out
0520	A	05/21/74	S. Webber	Fix bug initiating segs with the copy switch on
0519	A	05/21/74	S. Webber	Attempt to fix lockup fault problem when returning from BDS
0518	A	05/21/74	S. Herbst	Bug in archive
0517	A	05/21/74	R. Snyder	Bug in tty_inter
0516	A	05/21/74	T. VanVleck	Recompile answering service with EIS compiler
0515	A	05/21/74	T. VanVleck	Recompile message coordinator with EIS compiler
14	A	05/21/74	T. VanVleck	Improvements to console_report
0513	A	05/21/74	R. Snyder	Fixes to 355 software
0512	A	05/21/74	R. Snyder	Fixes to map355
0511	A	05/21/74	N. Morris	Fix bug in BDS SAVE and RESTOR commands
0510	A	05/21/74	R. Coren	Fix remote device driver for new g115_dim interface
0509	A	05/21/74	D. Levin	Bug fix for if command
0508	A	05/21/74	P. Haber	Addition of get_salv_bit_ function to Version 1 message facility
0507	A	05/14/74	R. Klinger	New versions of sort_items_ and sort_items_indirect_
0506	A	05/14/74	P. Haber	Fix for Message Segment Facility Bug
0505	P	05/14/74	N. Morris	Change DN355 Interrupt Assignments
	A	05/21/74		
0504	A	05/14/74	B. Greenberg	Automatic System ID Generation by MST Generator
0503	A	05/14/74	N. Morris	Fix Bug in Tape DCM
0502	A	05/14/74	S. Herbst	Bug in Process_input_string

0501	A	05/14/74	S. Webber	Fix Bugs in Meter_gate
0500	A	05/14/74	A. Kobziar	Improper ACL setting in Delete_
0499	A	05/14/74	A. Kobziar	dc_Pack Cleanup Handler Bug
0498	A	05/14/74	R. Snyder	Loss of form feeds on input
0497	A	05/14/74	E. Stone	Fix Bug in del_dir_tree
0496	A	05/14/74	P. Haber	Version 1 Message Segment Primitive Bug Fix
0495	A	05/14/74	R. Coren	Emergency Fixes to I/O Coordinator
0494	A	05/07/74	N. Morris	Repair problems introduced by change to tape controller specifications
0493	A	05/02/74	R. Barnes	Emergency Installation of pl1_operators_
0492	A	05/07/74	S. Webber	Modify initialization to ease the "high water mark" problem
0491	R	05/07/74	S. Herbst	change to abbrev
0490	A	05/07/74	S. Barr	Bug fixes to Debug
0489	P W	05/07/74 05/21/74	S. Barr	Debug modification decimal default, new data assignment, allow choice of debug I/O
0488	A	05/07/74	R. Klinger	Addition of -unique option to sort_seg command
0487	R	05/07/74	B. Silver	meter_oc_log command
0486	A	05/07/74	B. Silver	mstrds command
0485	A	04/30/74	B. Wolman	Allow B, D, E, F, and I in numeric input fields
0484	A	04/30/74	T. Casey, P. Haber	Fix error handling in GCOS Daemon and I/O subroutines
0483	A	04/30/74	P. Haber	Fix message segment pointer validator
0482	A	04/30/74	T. Casey	Change error_table_ messages
0481	A	04/30/74	S. Webber	Study new scheduler and paging algorithms
0480	A	04/23/74	B. Wolman	Delete pl1_operators_ from lang library
0479	A	04/23/74	B. Greenberg	Shutdown/Startup reused address bug
0478	A	04/23/74	B. Greenberg	Change LOADDM to accept command name arguments
0477	A	04/23/74	D. Wells	Fix bug in interprocess communication interface

0476	A	04/23/74	D. Wells	Changes to User ring link Unsnapping
0475	A	04/23/74	D. Wells	Fix bug in procedure "get_device_status"
0474	A	04/23/74	N. Morris	fix handling of special interrupts in BDS
0473	A	04/23/74	N. Morris	Modify BDS CORE command
0472	A	04/23/74	N. Morris	Fix bug in bootstrap1
0471	A	04/23/74	P. Kelley	fix bug in cv_dir_acl_
0470	A	04/23/74	T. Casey	New GCOS Simulator
0469	A	04/23/74	P. Haber	version 2 Message Segment Bug Fixes
0468	A	04/23/74	P. Haber	GCOS Daemon and GCOS User Changes
0467	A	04/23/74	R. Coren	Improve access checking in dprint_
0466	A	04/23/74	R. Coren	Locking strategy in I/O daemon
0465	R	04/16/74	R. Frankston	Modification to the translator_segment_ interface to set the maximum length for segments
0464	A	04/16/74	R. Snyder	TTYDIM change for online T&D
0463	A	04/16/74	R. Snyder	Fix to meter_gate_ subroutine
0462	A	04/16/74	R. Snyder	Add "report_reset" control argument to tty_meters
0461	A	04/16/74	S. Webber	Fix bug in illegal_procedure's attempted simulation of the MVT instruction to zero length target strings
0460	A	04/16/74	R. Barnes	Install compiler tools tmg and compile_ messages
0459	A	04/16/74	D. MacLaren	The phonetic underscore
0458	A	04/16/74	B. Wolman	Fix bugs in BASIC
0457	A	04/16/74	N. Morris	Implement I/O Interfacer
0456	A	04/16/74	N. Morris	Fix bug in operator's console software when not using log
0455	A	04/16/74	N. Morris	Fix bug in BDS command LD355
0454	A	04/16/74	N. Morris	Fix 2 CPU bugs in operator's console software
0453	A	04/16/74	B. Greenberg	New abs_usable-abs_wired mechanism
0452	A	04/16/74	B. Greenberg	Install BDS ABS command
0451	R	04/16/74	A. Kobziar	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 pl1_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. Gintell	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	Restor ability to call online salvager from use rings

0427	A	03/26/74	T. VanVleck, D. Vinograd	Fix bug in SAC command
0426	A	03/26/74	B. Greenberg	New core freeing mechanism
0425	A	03/26/74	E. Stone	Modify the acl commands to work for MSFs
0424	P W	03/26/74 04/02/74	B. Greenberg	Install print_paging_histogram
0423	A	03/26/74	P. Green, M. Smith	Fix bugs in Version 1 APL
0422	A	03/26/74	N. Morris	Change "assign_device" algorithm
0421	A	03/26/74	N. Morris	Fix bugs in BDS PATCH command
0420	A	03/26/74	T. VanVleck	New version of indent command
0419	A	03/26/74	E. Stone	Correct bug in salv_truncate
0418	A	03/26/74	S. Herbst	EIS version of find_command_
0417	A	03/26/74	S. Herbst	bound_full_cp_ with EIS
0416	A	03/26/74	M. Grady	Fix bug in LD355 and Blast
0415	A	03/26/74	M. Weaver	Upgrade and fix bugs in some bound_debug_util_ routines
0414	A	03/19/74	N. Morris	Change OPC configuration card
0413	A	03/19/74	N. Morris	Fix bug in BDS PRINT command
0412	A	03/19/74	D. Kayden, R. Roach	Command Name Usage Monitor
0411	A	03/19/74	S. Herbst	Bug in proc_brackets_
0410	A	03/19/74	R. Snyder	TTYDIM fixes
0409	A	03/19/74	N. Morris	Fix bugs in BDS TSTCHN command
0408	A	03/19/74	B. Greenberg	Entry Bound fix
0407	A	03/19/74	R. Snyder	355 fix
0406	A	03/19/74	N. Morris	Change to config card format
0405	P W	03/19/74 04/09/74	G. G. Benedict	Improvements in exists active function
0404	A	03/19/74	T. VanVleck	Programs for processing SYSERR log
0403	R	03/19/74	M. MacLaren	The Phonetic "_"
0402	R	03/19/74	M. Weaver	Change command interface of binder
0401	A	03/19/74	M. Weaver	Fix bugs in binder and make improvements

0400	A	03/19/74	M. Weaver	Restrict traps at first reference
0399	A	03/19/74	R. Coren	Make I/O daemon perform deletions after crash
0398	A	03/12/74	S. Barr	Correct bug in get_user_id_ that references a table with a null pointer
0397	A	02/12/74	A. Scherer	Upgrade submission testing programs
0396	A	03/12/74	P. Green	Fix bugs in include cross referencer
0395	A	03/12/74	K. Pogran	Modifications to network_exec_
0394	A	03/12/74	K. Pogran	Changes to the ARPA Network File Transfer Server (bound_ftp_server_)
0393	A	03/12/74	A. Kobziar	Debug_check changes affecting salvager
0392	A	03/12/74	A. Kobziar	Bug tracing via salvager
0391	A	03/05/74	N. Morris	Modify Operator's Console Software for Operation of the System Control Console and Entry Model Console
0390	A	03/05/74	N. Morris	Provide Protection for MTS500 subsystem shared by two systems
0389	A	03/05/74	J. Gintell	Fix problems resulting from list command upgrade
0388	A	03/05/74	R. Roach	Fix up bound_acceptance_test_ for iox_
0387	A	03/05/74	M. Smith	Retain entry point "iox_\$control"
0386	A	03/05/74	M. Smith	Fix "discard_" "seek_key" error code
0385	A	03/05/74	M. Smith	Tighten IPS masking interface
0384	A	03/05/74	M. Smith	Correct IPS masking bug in iox
0383	A	03/05/74	M. Smith	Speed up metering gates
0382	A	03/05/74	G. Dixon	Read_cards calls unique_chars_ incorrectly
0381	A	03/05/74	A. Kobziar	Deleteacl -brief Option
0380	A	03/05/74	D. MacLaren	Improve error_table message for I/O
0379	A	03/05/74	B. Greenberg	Gate descriptor security hole
0378	A	03/05/74	D. Wells	Conversion of Network Control Program (NCP) to Version II PL/1
0377	A	03/05/74	D. Wells	Miscellaneous Fixes to Network User Process Server TELNET IOSIM
0376	A	02/26/74	P. Green	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 BDS not to print on every tape error
0371	A	02/26/74	S. Webber	Update metering commands
0370	A	02/26/74	S. Webber	Change quantum time measure from real cpu to virtual cpu
0369	A	02/26/74	B. Wolman	Improve ioa_
0368	A	02/26/74	S. Barr	new Tools command grab_tape_drive
0367	A	02/26/74	P. Green	Do more argument checking in substr active function
0366	A	02/26/74	S. Webber	Make "component" entry in print_gen_info_ segment in bound_gm_
0365	A	02/26/74	S. Webber	Fix duplicated metering bug in total_ time_meters
0364	A	02/26/74	S. Webber	Fix bugs in et.(eis_tester)
0363	A	02/26/74	S. Webber	Add measure of "static" storage use in print_linkage_usage
0362	A	02/26/74	S. Webber	Add new program set_proc_ required to Tools
0361	A	02/26/74	S. Webber	Add new T & D program "test_cpu" to Tools
0360	A	02/26/74	S. Herbst	bound_full_cp_conversion
0359	A	02/26/74	E. Stone	set the max lengths of system initialization segments
0358	A	02/19/74	T. VanVleck	Improve system administration reports
0357	A	02/19/74	T. VanVleck	Make bad clock settings less fatal
0356	A	02/19/74	T. VanVleck	Improve system administration programs
0355	A	02/19/74	R. Klinger	process metering commands: sample_refs and print_sample_refs
0354	A	02/19/74	R. Snyder	all_rings_util_ has an unused stacq subroutine
0353	A	02/19/74	N. Morris	Modify IQM Manager for Online R & D Needs

0352	A	02/19/74	S. Barr	Fix installation_parms access in who command
0351	A	02/19/74	R. Snyder	Fix bug in 355 initialization
0350	A	02/19/74	B. Wolman	Rewrite formline_
0349	A	02/19/74	M. Weaver	fix bug in find_condition_info_
0348	A	02/19/74	M. Weaver	fix bug in signal_
0347	A	02/19/74	R. Snyder	parity fault reporting is incorrect
0346	A	02/12/74	N. Morris	Improve & extend IOM manager
0345	A	02/12/74	N. Morris	Fix bug in init_salv_fsdcts
0344	A	02/12/74	M. Meer	Convert LTS system for 256k
0343	A	02/12/74	S. Herbst	recursion of archive command
0342	A	02/12/74	D. MacLaren	Install indexed-file modules
0341	A	02/12/74	N. Morris	Fix bug in initialization tape_reader
0340	A	02/12/74	B. Wolman	Extend find_operator_name_ procedure
0339	A	02/12/74	M. Smith	Interpret "disposal" properly in "tw_" and "hcs_\$tty_detach".
0338	A	02/12/74	N. Morris	Fix bugs in IOM_manager's handling of overhead channels
0337	A	02/12/74	A. Kobziar	Correcting maximum tree depth
0336	A	02/12/74	S. Herbst	bugs in abbrev
0335	R	02/12/74	S. Herbst	Star convention in Archive
0334	A	02/12/74	R. Snyder	Fix to HSLA software
0333	A	02/12/74	R. Snyder	Changes to handle 1200 baud terminets
0332	A	02/12/74	S. Herbst	compare of zero length segments
0331	A	02/12/74	M. Weaver	Fix bugs in datmk routines used by linker
0330	A	02/05/74	M. Grady	Fix teco bug
0329	A	02/05/74	S. Herbst	Bugs in archive command
0328	A	02/05/74	B. Wolman	Install new numeric formatting function
0327	A	02/05/74	A. Scherer	Update approved_routines_ table for onlir installations
0326	A	02/05/74	A. Scherer	Fix illegal pointers in submission-testing programs

0325	A	02/05/74	K. Pogran	Change in the implementation of the Network Host Activation List
0324	A	02/05/74	M. Weaver	Fix bugs in new condition mechanism
23	A	02/05/74	M. Weaver	Fix bugs in reprint-error
0322	A	02/05/74	S. Herbst	Archive component names
0321	A	02/05/74	B. Wolman	Correct and Extend Comparison Active Functions
0320	A	02/05/74	B. Wolman	Extend Arithmetic Active Functions
0319	A	02/05/74	S. Barr	Correct bug in "&if...&then" part of process_input_string_
0318	A	02/05/74	T. VanVleck	Answering Service 7.5
0317	A	02/05/74	T. VanVleck	Recovery from ITT overflows
0316	A	02/05/74	E. Stone	22-0 cleanup
0315	A	02/05/74	R. Snyder	Fix to synchronize hangups with answering service
0314	A	02/05/74	B. Wolman	Fix error in bound_debug_
0313	A	02/05/74	E. Stone	Restrict system free area to be 64k
12	W	01/26/74	B. Wolman	Correct and extend comparison active functions
0311	W	01/26/74	B. Wolman	Extend capabilities of arithmetic active functions
0310	P W	01/26/74 02/12/74	S. Herbst	Star convention in archive command
0309	P A	01/26/74 02/05/74	A. Kobziar	Change setacl to apply to either directories or segments when used with star convention
0308	A	01/26/74	M. Weaver	Fix bugs in fault info routines
0307	A	01/26/74	P. Green	Fix bugs in memo command
0306	A	01/26/74	T. VanVleck, R. Barnes	Change entry definition in object segment
0305	A	01/26/74	T. VanVleck	Message Coordinator Improvements
0304	A	01/26/74	T. VanVleck	Fix bugs in answering service 7.4
0303	A	01/26/74	R. Mabee	Securable access to metering data
12	A	01/26/74	P. Haber	Gate Macro Fix
0301	A	01/26/74	J. Hannigan	BDS command to read registers of non-bootload CPU

0300	A	01/26/74	J. Hannigan	BOS command to search for parity errors
0299	R	01/26/74	R. Frankstone	Replacement for system routine "expand_path_"
0298	A	01/26/74	D. Vinograd	Fix bug in update option during system start up
0297	A	01/26/74	D. Vinograd	Increase size of IOAT
0296	A	01/26/74	B. Silver	Bug fix for tape_
0295	A	01/26/74	S. Herbst	Bug in archive_util_
0294	P W	01/22/74 02/12/74	M. Meer	Its fix for use with max_seg_size
0293	A	01/22/74	M. Meer	Addressing bug in qedx
0292	P A	01/22/74 02/12/74	M. Weaver	Warn users about unexpected disabling of iqs interrupts
0291	P A	01/22/74 02/19/74	D. Wells	Miscellaneous changes to Answering Service and Process Initialization related to Network
0290	A	01/22/74	D. Wells	Creation of New Library for ARPA Network Software
0289	W	01/22/74	W. Snyder	Fix tty_inter
0288	A	01/22/73	S. Barr	Corrections to nstd_dim
0287	A	01/22/73	A. Kobziar	Fix PL/1 Bug in Salv_Rebuild_Directory
0286	A	01/22/74	A. Kobziar	Fix Setacl to work with star convention
0285	W	01/22/74	R. Snyder	Fix to tty_inter
0284	A	01/22/74	D. Capps	Addition of entry tdcn_promote to hcs_
0283	A	01/22/74	N. Morris	Modify tape DCM to support 2 channels
0282	A	01/22/74	S. Herbst	bugs in timer_manager_
0281	R	01/22/74	J. Rhodes	TTY Output Integrity
0280	A	01/22/74	J. Rhodes	ACI and BCI Pseudo-ops for Alm that can specify character count
0279	A	01/22/74	D. Jordan	Delete obsolete library procedures
0278	A	01/22/74	A. Kobziar	Reinstall ftp_mail_
0277	A	01/22/74	R. Coren	Process overseer for card-reading daemon
0276	A	01/22/74	S. Herbst	bugs in walk_subtree
0275	A	01/22/74	N. Morris	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	W	01/08/74	N. Morris	Modify tape DCM to support 2 channels
0254	A	01/08/74	P. Haber	gcos daemon changes
0253	A	01/08/74	D. Reed, D. Moon, A. Sunguroff	Install new LISP subsystem
0252	A	01/08/74	E. Stone	Allow PL/I_operators_ to be different in outer rings
0251	A	01/02/74	E. Stone	Fix bug in backup_load
0250	P W	01/02/74 01/08/74	E. Stone	change access requirement to truncate primitive
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

0247	A	01/02/74	S. Webber	Extend fsm to handle new meters
0246	A	01/02/74	S. Webber	Fix unlocking bug in get_proc_id
0245	A	01/02/74	S. Webber	Increase the size of STR_SEG
0244	A	01/02/74	S. Barr	print_dump_tape does not recognize EOF on 9 track tape
0243	A	01/0/274	S. Barr	edurf reports dates as 01/01/01
0242	A	01/02/74	G. Dixon	stop msa_manager_ from storing segment number in bit count of MSA components
0241	A	01/02/74	K. T. Pogran	Additions to the ARPA Network Host Table
0240	A	12/26/73	B. Wolman	Install procedure tracing program
0239	A	12/26/73	S. Herbst	Fix bugs in walk_subtree
0238	A	12/26/73	S. Herbst	Fix bugs in compare command
0237	A	12/26/73	S. Webber	Fix bug which allows fsdct pages to get milled out
0236	A	12/26/73	R. Snyder	Centralization of debug card checking
0235	A	12/26/73	R. Sndyer	Establish cleanup handlers in ringo ttydim
0234	A	12/26/73	R. Snyder	Fix to tty_ctl
0233	A	12/26/73	N. Morris	Implement DSU_191's for Multics
0232	A	12/26/73	A. Kobziar	Remove CACL's and segment "a" permission from salvager
0231	A	12/26/73	A. Kobziar	Checking author and bit_count author names for non-ascii in Salvager
0230	A	12/26/73	A. Kobziar	Fix double freeing of an allocation in acl-commands
0229	A	12/26/73	B. Wolman	change basic_system to call new basic
0228	A	12/26/73	G. Dixon	accept equal names containing ascii control characters
0227	P A	12/26/73 01/02/74	D. Wells	Upgrading of user process Network IOSIM to support new TELNET protocol and to add additional functions
0226	P A	12/26/74 01/02/74	D. Wells	Upgrading of Answering Service to support new Network TELNET
0225	P W	12/26/73 01/08/74	D. Wells	Insertion of a link into SSS to Network process overseer because of change in default search rules
0224	A	12/26/73	P. Kelley	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 A	12/26/73 02/05/74	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 slit_manage
0199	A	12/11/73	N. Morris	Remove obsolete tape software

0198	A	12/11/73	R. Coren	Improvements to debug command
0197	A	12/11/73	M. Meer	QEDX default path
0196	A	12/11/73	S. Webber	Put time out mechanism on waiting processes
0195	A	12/11/73	B. Wolman	Allow EAQ output in floating point
0194	R	12/11/73	R. Rakip	Busy drive recovery for generate_mst
0193	A	12/11/73	K. Pogran	Modifications to network_exec_
0192	A	12/11/73	D. Capps	Fix bug in operator SUBSTTY command
0191	P W	12/11/73 01/02/74	R. Mabee	Securable access to metering data
0190	A	12/04/73	R. Snyder	Installation of TTYM
0189	A	12/04/73	P. Kelley	Online installation documentation
0188	P A	12/04/73 12/18/73	P. Kelley	Increase size of online installation
0187	A	12/04/73	G. Dixon	make the date_time active functions operate as commands
0186	A	12/04/73	S. Webber	Place check in stop_process to crash system if called by initializer
0185	A	12/04/73	R. Snyder	Fix to BDS BLAST command
0184	A	12/04/73	T. Casey	New GCOS simulator
0183	A	12/04/73	R. Mullen	Rewrite edm for speed and clarity
0182	A	12/04/73	R. Snyder	Fix to system_trace
0181	A	12/04/73	R. Snyder	Fix to DN 355
0180	A	12/04/73	D. Wells	Correction to ARPA Network Self-identification processing
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 BDS
0176	P A	11/27/73 12/04/73	M. Smith	Install "iox_" I/O interface (MSB-113)
0175	A	11/27/73	R. Mullen	BDS should not set masks in memory controllers from which it is not receiving 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

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 gcoss 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	P A	11/13/73 11/27/73	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

0147	A	11/13/73	M. Weaver	Correction of stringsize fault handling
0146	A	11/13/73	S. Webber	Fix bugs in pxss
0145	A	11/13/73	S. Webber	Fix bug in signaller causing EIS problems
0144	A	11/13/73	A. Kobziar	Fix zeroing reused page in salvager
0143	A	11/06/73	R. Roach	Fix bug in start_dump (not printing maps)
0142	A	11/06/73	G. Dixon	compare_entry_names (bug fix)
0141	A	11/06/73	G. Dixon	Extended Star Convention (Phase Two)
0140	A	11/06/73	T. VanVleck	Improve active functions for arithmetic and string manipulation
0139	A	11/06/73	T. VanVleck	Install improved disk statistics program
0138	A	11/06/73	T. VanVleck	Fix mail command to use set_lock_
0137	A	11/06/73	B. Silver	Fix to syserr_real unlock bug
0136	A	11/06/73	B. Wolman	Fix bug in remote formats
0135	A	11/06/73	B. Wolman	Install upgraded PL/1 runtime
0134	A	11/06/73	M. Smith	New "error_table_" codes
0133	A	11/06/73	M. Smith	Replace "endfile" command by "close_file"
0132	A	11/06/73	M. Smith	Signal "finish" and close files at process termination
0131	A	11/06/73	M. Smith	Extend "list", "status", "copy", "move" to understand multi-segment files
0130	A	11/06/73	E. Stone	Fix bugs in obtaining initializer console channel name
0129	A	11/06/73	E. Stone	Fix access violation in creation of outer ring stacks
0128	A	11/06/73	E. Stone	Fix bug in delete-subroutine
0127	A	11/06/73	A. Kobziar	Salvager emergency shutdown
0126	A	11/06/73	A. Kobziar	Remove null address dependence from Salvager
0125	A	11/06/73	A. Kobziar	Add disk to Multics via salvager
0124	A	11/06/73	R. Snyder	Fix to 1050 addressing problems
0123	A	10/30/73	R. Mabee	runoff bug fix
0122	A	10/30/73	R. Mabee	bcpl_library bug fix
0121	A	10/30/73	B. Wolman	Install do command/active function

0120	A	10/30/73	B. Wolman	Install new PL1_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_, g115_
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 IOSIM "changemode" call to not require a trailing period
0108	A	10/23/73	R. Roach	Improve tln output
0107	P A	10/23/73 02/19/74	R. Roach	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 R	10/23/73 02/12/74	R. Roach	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

0099	A	10/23/73	S. Webber	Change measure of time spent looping on the page table lock
0098	A	10/23/73	M. Grady	trace_init
0097	A	10/23/73	N. Morris	Fix bugs in fdump
0096	A	10/23/73	E. Stone	Complete directory control access modifications
0095	A	10/23/73	E. Stone	Cleanup gate entries
0094	A	10/23/73	E. Stone	Offer 256k segments
0093	A	10/23/73	E. Stone	Convert V1/PL1 modules in hardcore to V2/PL1
0092	A	10/23/73	E. Stone	Correct restrictions in area package which prevent creation of 256k areas
0091	A	10/23/73	E. Stone	Allow printing of large segments wire_stack
0090	A	10/23/73	E. Stone	fix bugs in privileged_mode_ut and wire_stack
0089	A	10/16/73	E. Stone	Increase the time record product field of a directory header to 2 words
0088	A	10/16/73	E. Stone	Increase the max length, current length and records used fields of a directory entry 18 bits
0087	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
0086	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
0085	A	10/16/73	M. Meer	qedx changes
0084	A	10/16/73	R. Snyder	Change to system trace package
0083	A	10/16/73	N. Morris	fix printer chain images in BOS
0082	A	10/16/73	R. Mullen	copy_fdump not to access data beyond end of dump partition
0081	A	10/16/73	R. Snyder	Fix to DN355
0080	P A	10/16/73 11/27/73	W. Silver	Change to operator console software and syserr
0079	A	10/16/73	N. Morris	Fix bug in fdump
0078	A	10/16/73	N. Morris	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 minor bug in rename_pnts_
0075	W	10/16/73	P. Green, R. Coren	Add new mode to "tw_" - type DIMs
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 alm
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 W	10/09/73 12/18/73	G. Dixon	enter_daemon_request
0063	A	10/09/73	N. Morris	Allow BDS to be loaded from tape handler other than drive 0
0062	A	10/09/73	N. Morris	Install new BDS 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 A	10/04/73 10/09/73	G. Dixon	Extended star/equal convention (online 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 alm 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 (Approved for Study only)	Proposed changes to copy and move commands

0029	R	09/25/73	T. Casey	new active function:target
0028	A	09/25/73	T. Casey	two new control arguments added to dump_segment (ds) command
27	R	09/25/73	T. Casey	new active function: esr
0026	R	09/25/73	T. Casey	new subroutine: execute_search_rules_
0025	A	09/25/73	B. Wolman	Record certain math subroutines in alm
0024	A	09/25/73	B. Wolman	Add ptr to operator transfer vector to base of stack
0023	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
0022	A	09/25/73	S. Webber	Set the call limiters on all hardcore gates--in particular on signaller
0021	P A	09/25/73 10/04/73	M. Weaver	Modify linker and add new stack frame flags
0020	A	09/25/73	N. Morris	Allow the system to utilize >2**18 records on DSU-190 (temporary fix)
0019	A	09/25/73	R. Freiburghouse	Fix bug in bcpl
0018	A	09/25/73	D. Capps	Modification of hardcore programs in preparation for new tape mounting package
0017	A	09/25/73	S. Webber	Fix bug causing both the PD hash crashes as well as (possibly all) reused address problems
0016	A	09/18/73	B. Wolman	Fix alm
0015	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"
0014	A	09/14/73	S. Webber	Fix bug in ring_ causing extraneous ring_ alarm faults
0013	A	09/18/73	S. Webber	Place traps in the system to search for the "reused address" bug
0012	A	09/18/73	S. Webber	Extend the size of device addresses from 17 to 18 bits
0011	A	09/18/73	S. Webber	Fix reconfiguration problems with deleting the bootload CPU
0010	A	09/18/73	S. Webber	Add new processor time metering for interrupts as a function of IDM channel number
0009	P A	09/18/73 10/09/73	N. Morris	Modify BDS to handle tapes on the MTS-500

0008	P	09/18/73	N. Morris	Modification of ID in Multics initialization to handle the MTS-500 tapes and allow handling 1040 word Multics standard tape records
	A	10/09/73		
0007	P	09/18/73	N. Morris	Modify the tape DCM & tape DIMs to work with the MTS-500. Also allow reading & writing of 1040 word Multics standard tape records
	A	10/09/73		
0006	A	09/18/73	N. Morris	Modify BOS to run with DSS-191 system
0005	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
0004	A	09/25/73	R. Snyder	Change LD355 to patch site configuration info into 355 core image
0003	A	09/18/73	R. Snyder	Speed up the processing of 355 fdumps
0002	A	09/18/73	R. Snyder	Enable the BOS 'BLAST' command to send to terminals hooked up to HSLA
0001	A	09/18/73	S. Webber	Map certain EIS illegal faults so that the faults are effectively ignored