

To: Distribution
From: Betsy
Date: April 30, 1976
Subject: MCR Index

Attached is the MCR index complete through April 30, 1976.

1814	W	04/27/76	R. Luebke	Change default_error_handler_ handling of finish condition to close data bases
(PHX)				
1813	A	04/27/76	R. Coren	Fix bug in tty_write white-space handling
1812	A	04/27/76	T. Casey	Fix bugs in as_init_ and load_ctl_
1811	A	04/27/76	R. Bratt	Fix bug in hcs_\$make_seg
1810	A	04/27/76	T. Casey	Fix bugs in list command
1809	A	04/27/76	T. Casey	Change cutoff messages printed at login
1808	A	04/27/76	A. Kobziar	Define New Salvager Options
1807	A	04/27/76	A. Kobziar	Fix bug in get_aste
1806	A	04/27/76	M. Grady	Dummy load/dump interface
1805	A	04/27/76	M. Grady	Modify MCS for new binder
1804	A	04/27/76	M. Grady	FNp load/dump hardcore primitives
1803	A	04/27/76	M. Grady	Replace loam_ and delete DST
1802	A	04/27/76	M. Grady	Move FNp software to new library
1801	P	04/27/76	S. Webber	Change combined linkage regions into areas
1800	P	04/27/76	S. Webber	Provide for 3 logical storage pools in a process that default to a single pool
1799	A	04/27/76	B. Greenberg	Invoke online salvager when problems are suspected
1798	A	04/27/76	B. Greenberg	Add -pvname option to dumper
1797	A	04/27/76	B. Greenberg	NSS bug fixes, round 3, emergencies
1796	A	04/27/76	R. Coren	Fix message coordinator to work with 28.3
1795	A	04/27/76	R. Barnes	Change pl1 to use get_line_length_
1794	A	04/20/76	R. Bratt	Dumper speedups
1793	A	04/20/76	R. Bratt	Fix isof fault handler
1792	A	04/20/76	R. Coren	Fix raset-read bug in 355
1791	A	04/20/76	R. Schoeman	Install a new put_field_
1790	A	04/20/76	S. Barr	Install bind_fnp
1789	A	04/20/76	S. Herbst	Re-implement &command_line off for aoesntee
1788	A	04/20/76	T. Casey	Detect Fatal Process Error Loops
1787	A	04/20/76	N. Morris	Rewrite the generate_mst command

1786	A	04/20/76	N. Morris	Provide separate definitions during Multics initialization
1785	A	04/20/76	J. Whitmore	Card Input Daemon bug fixes
1784	A	04/20/76	J. Whitmore	Fix quota bug in pool_manager_
1783	P	04/13/76	R. Bratt	Install tape_nsta_
1782	A	04/13/76	S. Herbst	Retain entry full_command_processor_\$return_val
1781	A	04/13/76	M. Weaver	Move get_definition_ to >sss
1780	A	04/13/76	S. Webber	Install several area management utility routines
1779	A	04/13/76	S. Webber	Add new procedure 'find_parm' to system for reading 'parm' config cards
1778	A	04/13/76	S. Webber	Fix bug in link_unsnap_ which does not unsnap links into separate static
1777	A	04/13/76	S. Webber	Upgrade form_link_info_ and interpret_link_for *system links
1776	A	04/13/76	L. Johnson	Log MPC Statistics in syserr_log
1775	A	04/13/76	M. Grady	Add ordered field sort to sort_seg
1774	A	04/13/76	L. Johnson	Fix locking bug in syserr_logger
1773	A	04/13/76	L. Johnson	Fix bug in daily_syserr_process
1772	A	04/13/76	L. Johnson	Fix bug in trim_syserr_log
1771	A	04/13/76	L. Johnson	Improve I/O error logging
1770	A	04/13/76	L. Johnson	Log MJS memory EDAC errors
1769	A	04/13/76	R. Barnes	Install Emergency Fix to PL/I Compiler
1768	P	04/13/76	S. Herbst	Implement status active function
1767	A	04/13/76	S. Herbst	Install if command/active function
1766	A	04/06/76	T. Casey	Fix bug in init_proc
1765	A	04/06/76	R. Mullen	Meter RWS overhead at deactivation
1764	A	04/06/76	T. Casey	Make direct calls to process overseer work correctly in all cases
1763	A	04/06/76	N. Morris	Change configuration card for disk subsystems
1762	A	04/06/76	N. Morris	Fix bug in 7punch card DIM
1761	A	04/06/76	B. Greenberg	Change I/O interfacer to usurp disk channels dynamically

1760	A	04/06/76	B. Greenberg	Install BOSTAP BOS Command
1759	A	04/06/76	S. Barr	Move get_temp_segments_ to stand alone in >sss
1758	A	04/06/76	S. Herbst	Fix bug in index_set
1757	A	04/06/76	S. Herbst	Fix bug in cancel_abs_request
1756	A	04/06/76	S. Herbst	Implement && feature in exec_com
1755	A	04/06/76	S. Herbst	Fix bug in add_search_rules
1754	A	04/06/76	S. Herbst	Change operation of nd_handler_
1753	A	04/06/76	L. Scheffler	Fix bug in syserr_log_man_
1752	A	04/06/76	T. VanVleck	Performance improvements for interim dumper
1751	A	04/06/76	T. VanVleck	Changing tools for Directory Quota
1750	A	04/06/76	T. VanVleck	Add privileged operation to keep segments off the paging device
1749	A	04/06/76	R. Barnes	Install emergency fix to PL/I Compiler
1748	A	04/06/76	D. Wells	Fix to Server TELNET resetwrite function
1747	A	04/06/76	B. Greenberg	NSS bug fixes, Round 2
1746	A	03/30/76	S. Webber	Add get_main, a procedure for getting storage during initialization
1745	A	03/30/76	S. Webber	Convert several hardcore data bases to be 'cbs' segments
1744	A	03/30/76	S. Herbst	Fix bug in add_name
1743	A	03/30/76	S. Herbst	Fix bug in hcs_\$initiate_search_rules
1742	A	03/30/76	S. Herbst	Add &q and &r to exec_com
1741	P A	03/30/76 04/06/76	S. Webber	Add limited hardcore process facility to the system
1740	A	03/30/76	T. Casey	Fix bugs in write_user_usage_report
1739	A	03/30/76	M. Weaver	Emergency fixes for modules used by FAST/DFAST
1738	A	03/30/76	J. Gintell	Replace all info segments in >doc>info
1737	A	03/30/76	J. Gintell	Reorganize info segment directories
1736	P W	03/30/76 04/13/76	S. Webber	Change combined linkage regions info areas
1735	A	03/30/76	R. Barnes	Accept options (variable) and options (non_quick) on procedure statements

1734	A	03/30/76	R. Coren	Fix set_tty for network problems
1733	A	03/30/76	N. Morris	Fix Card Reader Hangup Problem in BOS
1732	P A	03/30/76 04/06/76	L. Hazelton	MCR for changes in the Iss_login_responder_
1731	A	03/30/76	T. VanVleck	Fix bug in terminate_proc
1730	A	03/30/76	T. VanVleck	Recompile several hardcore programs
1729	A	03/23/76	D. Levin	Remove general_format_parse_ from bound_fortran_
1728	W	03/23/76	A. Kobzian	Define New Salvager Options
1727	A	03/23/76	N. Morris	Move the "flagbox" segment
1726	A	03/23/76	N. Morris	Fix bug in the BOS IF command
1725	A	03/23/76	N. Morris	Fix bugs in BOS DUMP command
1724	A	03/23/76	N. Morris	Fix bug in BOS RESTOR command
1723	A	03/23/76	N. Morris	Fix bugs in BOS device address interpretation
1722	A	03/23/76	S. Herbst	Fix bug Restricting Absentee arg lengths
1721	A	03/23/76	A. Kobzian	Redefine Recovery Mode Directory Salvaging
1720	A	03/23/76	A. Kobzian	Fix Bug in Append
1719	A	03/23/76	N. Morris	Change BOS Firmware Loader to Print Revision Number of Firmware
1718	A	03/23/76	B. Greenberg	Fix 28.0 NSS bugs, Round 1
1717	R (PHX)	03/22/76	R. Morrison/ A. Downing	Multics HEALS
1716	A (PHX)	03/22/76	W. O'Neill	COBOL Maintenance Release
1715	A	03/16/76	G. Chang	Install a FAST/DFAST version of fortran_io_
1714	A	03/16/76	T. VanVleck	Allow delentry to delete bad directory
1713	A	03/16/76	T. VanVleck	Fix bug in quota\$move_quota
1712	A	03/16/76	L. Johnson	Implement iox_ control operations from command level
1711	A	03/16/76	L. Johnson	Improvement to indent
1710	A	03/16/76	M. Weaver	Install FAST run unit manager
1709	A	03/16/76	T. VanVleck	Per-drive metering in disk DIM

1708	A	03/16/76	T. VanVleck	Make I/O priority depend on scheduling priority
1707	A	03/16/76	T. VanVleck	Reload logical volume ID
1706	A	03/16/76	T. VanVleck	Fix gen_sst_card for new storage system
1705	A	03/16/76	M. Grady	Solve MCS input interruption problems
1704	A	03/16/76	R. Klinger	Read parity error recovery for tape_ansi_
1703	P A	03/16/76 03/23/76	S. Herbst	Install new command compare_results
1702	A	03/16/76	R. Bratt	Allow ntape_ to handle multifile tapes
1701	A	03/16/76	T. Casey	Fix Bugs in cv_cmf
1700	A	03/16/76	S. Barr	Install prelink driver tables for FAST and DFAST
1699	A	03/16/76	R. Coren	Temporary emergency fix to tty_read
1698	A	03/09/76	R. Klinger	Fix miscellaneous bugs in tape_ansi_
1697	A	03/09/76	L. Johnson	Fix bug in get_process_id_
1696	A	03/09/76	L. Johnson	Fix bug in print_syserr_log
1695	A	03/09/76	P. Green	Fix bugs in mrd_util_
1694	A	03/09/76	P. Green	Fix bugs in system control
1693	P A	03/09/76 03/23/76	P. Green	Fix several Answering Service bugs and problems
1692	A	03/09/76	R. Coren	Implement new faster tty_read
1691	P A	03/09/76 04/27/76	S. Herbst	Improve the carry facility
1690	A	03/09/76	S. Herbst	Fix &attach bug in abs_io_
1689	A	03/09/76	S. Herbst	Fix entryname bug in exec_com
1688	P A	03/09/76 03/30/76	R. Bratt	Improve Prelinker's user interface
1687	A	03/09/76	S. Herbst	Add &rf and &qf features to do
1686	P A	03/09/76 04/27/76	S. Herbst	Install carry_total active function
1685	A	03/09/76	T. VanVleck	Command to set_sons_volume
1684	A	03/09/76	R. Mullen	AST Lock Metering
1683	A	03/09/76	D. Jordan	Answering Service Changes for Auto Call

1682	A	03/02/76	L. Johnson	Fix more problems in syserr
1681	A	03/02/76	S. Herbst	Fix bug in propagate
1680	A	03/02/76	R. Barnes	Change format of pl1_version_
1679	A	03/02/76	R. Coren	Implement dump_fnp and patch_fnp commands
1678	A	03/02/76	R. Bratt	Correct bug in detection of eof in ntape_
1677	A	03/02/76	S. Herbst	Implement star convention in adjust_bit_count
1676	A	03/02/76	S. Herbst	Improve delete's error messages
1675	A	03/02/76	S. Barr	Install FAST subsystem
1674	A	03/02/76	M. Grady	Modify map355 to increase assembly limits
1673	A	03/02/76	L. Scheffler	Add audit message for illegal returns
1672	A	03/02/76	L. Scheffler	Change convert authorization_ to properly convert null access class strings
1671	A	03/02/76	L. Scheffler	Add check for valid entry pointer to protection_audit_\$access_denied
1670	A	03/02/76	L. Scheffler	Fix erroneous audit calls from set_privileges
1669	A	03/02/76	L. Scheffler	Add information-only entry points to to dir_control_error
1668	A	03/08/76	W. Neill	COBOL Bug Fixing
1667	A	02/24/76	R. Barnes	Fix bugs in any_to_any_
1666	A	02/24/76	S. Herbst	Add name encode to code command
1665	A	02/24/76	M. Meer	backup fixes
1664	A	02/24/76	M. Meer	Add wait feature to assign_resource
1663	A	02/24/76	T. Casey	Update System exec_coms for MR3.1
1662	A	02/24/76	S. Webber	Fix bugs in new area management routines
1661	A	02/24/76	L. Johnson	Install command to summarize I/O errors
1660	A	02/24/76	A. Kobzian	Change reloader to turn off copy switch
1659	A	02/24/76	R. Schoeman	Install a new bound_plio2_
1658	A	02/24/76	R. Schoeman	Install a new pl1_operators_ and put_field_
1657	A	02/24/76	R. Schoeman	Install a new PL/I compiler

1656	A	02/24/76	S. Webber	Extend command processor to include concept of 'main' entry point
1655 (HX)	A	02/17/76	R. Morrison	Fix bugs in GCOS simulation
1654	A	02/17/76	E. Wiatrowski	Improvement changes to ALM
1653	P A	02/17/76 03/02/76	R. Bratt	teco extensions
1652	A	02/17/76	S. Herbst	Modify operation of where command
1651	A	02/17/76	T. VanVleck	Force volume to be salvaged if any errors occur on RESTOR
1650	A	02/17/76	T. VanVleck	Modify salvager to check new directory
1649	A	02/17/76	T. VanVleck	Fill in new salvager data items in directory and VTOCE
1648	A	02/17/76	T. VanVleck	Expand volume salvager handling of reused address
1647	A	02/17/76	A. Kobzlar	Change compare_mst to work with new format
1646	A	02/17/76	M. Webber	basic installation update
1645	P A	02/17/76 03/02/76	R. Bratt	Add per-process segfault counter to system
1644	A	02/17/76	E. Stone	Fix bugs in generate_mst
1643	A	02/17/76	E. Stone	Fix bug in the mst generator
1642	A	02/17/76	S. Webber	Fix bug in CPU deletion which allows the CPU to come back to life
1641	A	02/17/76	S. Webber	Fix bug in dump_segment's handling of -offset control arg
1640	A	02/17/76	T. VanVleck	Ring 1 command to force paging device enabling
1639	A	02/17/76	T. VanVleck	Modify status command to print logical volume name
1638	A	02/17/76	T. VanVleck	Modify BOS SAVE to check that volume is salvaged
1637	A	02/17/76	T. VanVleck	Hardcore volume demounting
1636	A	02/17/76	T. VanVleck	Automatic invocation of the hierarchy salvager
1635	A	02/17/76	T. VanVleck	Hardcore virtual mounting
1634	A	02/17/76	T. VanVleck	Prewithdraw disk records for certain

				segments.
1633	A	02/17/76	T. VanVleck	Hardcore reliability improvements
1632	A	02/17/76	R. Klinger	Enhance tape_ibm_ VOL1 recognition and fix bug
1631	A	02/17/76	R. Klinger	Changes to copy_file specifications
1630	A	02/10/76	A. Kobziar	Drop reloader references to installation_parms
1629	A	02/10/76	T. Casey	Fix bugs in list command
1628	A	02/10/76	R. Coren	Fix two bugs in MCS
1627	A	02/10/76	R. Coren	Fix g115_ UIM and MCS to run remote printers properly
1626	P A	02/10/76 02/17/76	N. Morris	Reduce System Dependence on the DST
1625 (PHX)	A	02/23/76	J. Berson	Multics Sort/Merge, Phase 2
1624	A	02/10/76	M. Grady	Incorporate USGS Improvements in MCS
1623	A	02/10/76	M. Grady	Fix bug in dmp355
1622	W	02/10/76	M. MacLaren	The main entry point in FAST/DFAST
1621	A	02/10/76	S. Herbst	Fix pi bug in mail
1620	W	02/10/76	S. Webber	Extend standard object segment format to include concept of "main" entry
1619	A	02/10/76	S. Webber	Fix bug in set_lock_ which sometimes causes initializer problems
1618	P A	02/10/76 02/17/76	S. Webber	Fix bugs in get_temp_segments_
1617	A	02/10/76	S. Webber	Change indent to work on cds segments.
1616	A	02/10/76	M. Asherman	"set_file_lock" and "set_wait_time" orders for indexed files
1615	A	02/10/76	M. Asherman	Avoid locking indexed files on passive shared operations
1614	A	02/10/76	J. Phillipps	tape-in, tape-out: a new tape-to-storage file transfer facility
1613	A	02/10/76	L. Johnson	Fix problems in syserr
1612	A	02/03/76	B. Greenberg	Remove fault-time lock-looping in page control
1611	P A	02/03/76 03/02/76	B. Greenberg	Install new MST copy/merge/list/excerpt/write

1610	P	02/03/76	R. Coren	Standardize Multics Input Canonicalization
	A	02/17/76		
1609	A	02/03/76	M. Asherman	More vfile_ bug fixes for 3.1
1608	A	01/27/76	G. Chang	New Entries to pl1_operators_ for FAST FORTRAN
1607	A	01/27/76	S. Herbst	Implement print_messages -last
1606	A	01/27/76	S. Herbst	Fix new bug in copy_names
1605	A	01/20/76	M. MacLaren	Old Fortran
1604	W	01/20/76	M. MacLaren	Inhibit close on user_input, etc.
1603	A	01/20/76	S. Barr	Create three directories for info segments
1602	A	01/20/76	H. Goldman	new tty_ order calls
1601	A	01/20/76	L. Johnson	Fix bug in indent
1600	A	01/20/76	M. Asherman	vfile_ bug fixes for 3.1
1599	P	01/20/76	M. Asherman	Add "record_status" control order to indexed files
	W	01/27/76		
1598	A	01/13/76	T. Casey	list command for NSS
1597	A	01/13/76	T. Casey	Fix bug in print_meters
1596	A	01/13/76	M. Asherman	Add "min_block_size" control order to indexed files
1595	A	01/13/76	S. Herbst	Keep accurate bit counts on data segments
1594	A	01/13/76	S. Herbst	Rewrite mailbox and message segment commands
1593	A	01/13/76	S. Herbst	Add -delete control arg to runoff_abs
1592	A	01/13/76	M. Weaver	Add fast_related_data_ segment
1591	A	01/13/76	S. Barr	Fix debug to work with varying character strings
1590	A	01/13/76	M. Grady	ld355 bug fix
1589	P	01/13/76	M. MacLaren	Fortran for DFAST
	A	01/20/76		
1588	A	01/13/76	P. Kelley	Fix bug in object_test_ which deletes the object segment
1587	A	01/13/76	T. Casey	Change check_info_segs for NSS compatibility

1586	P	01/19/76	J. Bush	Implement a program to allow disk pack formatting and related operations online under Multics
(PHX)	A	04/12/76		
1585	A	01/19/76	J. Bush	Modify rdisk_ to implement raw mode and 3 new control orders to support disk pack formatting operations
(PHX)				
1584	A	01/13/76	D. Wells	Fix bug in Network Answering Service that causes hangups to not work
1583	A	12/23/75	C. Clingen	Additional FAST Interface: MTSS-- Multics Time Sharing Subsystem
1582	A	12/23/75	T. VanVleck	New version of storage system
1581	A	12/23/75	T. Casey	New gate entry: hcs_\$star_dir_list_
1580	A	12/23/75	M. Weaver	Install FAST run unit manager
1579	A	12/23/75	R. Barnes	Plans for the PL/I Compiler
1578	A	12/23/75	J. Bush	Enhancement of the on line dump peruser, ol_dump
1577	A	12/23/75	R. Bratt	Keeping Bad Pathnames out of the Pathname Associative Memory
1576	A	12/23/75	T. VanVleck	Eliminate "infqcnt"
1575	A	12/23/75	P. Green	Emergency change to mc_wakeups_
1574	A	12/23/75	N. Morris	Modify Multics for Dual IOM Operation
1573	A	12/23/75	N. Morris	Modify BOS to run 4MW SCU
1572	A	12/23/75	N. Morris	Modify Multics to run with a 4 Mega-Word System Controller
1571	A	12/23/75	N. Morris	Improve Disk DIM performance
1570	A	12/23/75	N. Morris	Fix Bugs in BOS
1569	A	12/23/75	B. Greenberg	Add abs_seg keyword to generate_mst
1568	A	12/23/75	R. Schoeman	Change bound_parse_.bind (bindfile)
1567	A	12/23/75	E. Wiatrowski	Changes to "vfu" -pseudo-op in ALM
1566	A	12/16/75	T. VanVleck	Modify status command for new storage system
1565	A	12/16/75	R. Klinger	Changes to copy_file control arguments
1564	A	12/16/75	J. Gintell/ M. Meer	Improve add_copyright

1563	A	12/16/75	L. Johnson	Allow additional position requests in io_call
1562	P A	12/16/75 12/23/75	M. Weaver	Change ep_basic in FAST
1561	P W	12/16/75 12/23/75	M. Weaver	Add process_data_ segment
1560	P A	12/16/75 01/13/76	M. Asherman	Allow shared sequential openings on indexed files
1559	A	12/16/75	M. Asherman	Add "error_status" control order to indexed files
1558	A	12/09/75	E. Stone	Hardware tape software bug fixes
1557	P A	12/09/75 12/23/75	C. Tavares	Changes to sort_items_ and sort_ items_indirect
1556	A	12/09/75	J. Whitmore	Change to IO Daemon Restart Command
1555	R	12/09/75	A. Kobzian	Salvager reused address bug
1554	A	12/09/75	S. Herbst	Implement mail -reverse option
1553	P W	12/09/75 01/20/76	S. Herbst	Implement print_messages -all option
1552	A	12/09/75	S. Barr	Install FAST process overseer similar to DTSS
1551	P A	12/02/75 12/09/75	M. Asherman	vfile_ bug fixes
1550	A	12/02/75	M. Asherman	vfile_ changes for new file type
1549	P A	12/02/75 12/16/75	M. Asherman	vfile_ utilities modified for FAST
1548 (PHX)	W	12/08/75	C. Tavares	Changes to sort_items_ and sort_items_indirect_
1547 (PHX)	A	01/19/76	C. Tavares	Changes to bound_graphic_editor
1546 (PHX)	A	01/19/76	C. Tavares	Changes to bound_graphic_system_ and related standalone segments
1545	P A	12/02/75 01/20/76	R. Bratt	A Solution to the "directory re- naming problem"
1544	A	12/02/75	E. Stone	Change object_info_
1543	A	12/02/75	M. Braida	IO Daemon Accounting Fixes
1542	A	12/02/75	A. Kobzian	Retriever operational change
1541	A	12/02/75	E. Stone	Fix bug in fs_get

1540	A	12/02/75	R. Barnes	Install pl1_operators_ to Interface with New Area Package
1539	A	12/02/75	P. Green	Fix more bugs in Answering Service
1538	A	12/02/75	S. Webber	Add create_data_segment tool to system
1537	A	12/02/75	R. Coren	New implementation of tty_write
1536	P A	12/02/75 12/09/75	T. VanVleck	New subroutine error reporting mechanism
1535	P A	12/02/75 12/09/75	T. VanVleck	Automatic crash recovery mode
1534	A	12/02/75	T. VanVleck	BOS changes for unattended operation
1533	A	12/02/75	T. VanVleck	Eliminate use of switches in salvager
1532	P A	12/02/75 12/09/75	T. VanVleck	Use vfile_ for certain answering service files
1531	P W	12/02/75 12/16/75	L. Scheffler	Remove create_dir restriction on creating upgraded dirs through links
1530	P W	12/02/75 12/16/75	L. Scheffler	Fix append\$create_branch_ to force non- zero quota on upgraded directories
1529	A	12/02/75	S. Webber	Install a new standard system area management package
1528	A	12/02/75	S. Webber	Redefine the format of gate segments in the system
1527	A	12/02/75	S. Webber	Upgrade system tool hunt to search archives and document in PLM
1526	A	12/02/75	S. Webber	Install new temporary segment manager for use in Multics
1525	A	12/02/75	S. Webber	Fix bugs introduced in the 27-2 command processor
1524	A	12/02/75	S. Webber	Add new features to mexp needed for FAST Fortran
1523	A	12/02/75	L. Johnson	Log hardware errors in syserr log
1522	A	12/02/75	P. Green	Fix bug in cross-reference
1521	A	12/02/75	S. Herbst	Fix -bf bug in dprint
1520	A	12/02/75	S. Herbst	Fix bugs in walk_subtree command
1519	A	12/02/75	S. Herbst	Fix bug in delete_
1518	A	12/02/75	B. Silver	tape_mult_ bug fixes

1517	A	12/02/75	B. Silver	RCP bug fixes
1516	A	12/02/75	M. Grady	Install 355 utility routines
1515	A	12/02/75	M. Grady	MCS bug fixes
1514	A	11/25/75	T. Casey	Make new_user compilable
1513	A	11/25/75	S. Herbst	Implement print_messages -last
1512	A	11/25/75	S. Herbst	Remove star convention from new_send_message
1511	A	11/25/75	S. Herbst	Fix active functions to work as commands
1510	A	11/25/75	S. Herbst	Implement repeat_query command
1509	A	11/25/75	S. Webber	Reformat IPC event channel names
1508	A	11/25/75	S. Webber	Install new system_link_meters consistent with 27.u
1507	A	11/25/75	S. Webber	Install system linkage metering tools consistent with 27.2 linker
1506	A	11/25/75	S. Webber	Fix bugs in linker introduced in 27-2
1505	A	11/25/75	S. Webber	Create a new hardcore metering gate
1504	A	11/25/75	R. Mullen/ B. Silver	bk_input not to abort on improper_data_
1503	A	11/25/75	J. Whitmore	Add checks for a null working dir
1502	A	11/25/75	M. Braida	General IO Daemon Fixes
1501	A	11/25/75	R. Klinger	Fix minor bugs in tape_ansi_
1500	A	11/25/75	J. Stern	A modified I/O Coordinator Command Interface
1499	A	11/25/75	J. Stern	I/O Coordinator improvements and bug fixes
1498	A	11/25/75	S. Herbst	Fix access class bug in msf_manager_
1497	W	11/18/75	L. Johnson	Implement iox_control operations from command level
1496	A	11/18/75	L. Johnson	Add control arguments to dump_mpc
1495	A	11/18/75	P. Green	Fix many small bugs in Answering Service
1494	A	11/18/75	P. Green/ R. Coren	Change printer_on/off order calls to return more informative codes
93	P	11/18/75	B. Greenberg	Install create_data_segment_ as a tool
	A	12/02/75		
1492	A	11/18/75	T. Casey	Fix bugs and remove restriction in edt_mgt

1491	A	11/18/75	T. Casey	Bug fix to operator command "word"
1490 (PHX)	A	02/16/76	T. Casey	Fix bugs in gcos_card_utility command
1489	A	11/18/75	D. Wells	Investigation into providing multiple dialup language processors
1488	A	11/18/75	D. Wells	Alterations to Answering Service portion of Network
1487	A	11/18/75	D. Wells	Changes to Hardcore Network Environment
1486	P A	11/18/75 11/25/75	T. Casey	New login argument and pdt value: subsystem
1485	A	11/18/75	T. Casey	Fix bug in reset_disk_meters
1484	A	11/18/75	N. Morris	Modifications to BOS for Unattended operation
1483	A	11/18/75	N. Morris	Change BOS to avoid loading PRU1600 VFC
1482	A	11/18/75	N. Morris	Improve BOS disk error dagnostics
1481	A	11/18/75	N. Morris	Change to BOS
1480	A	11/18/75	N. Morris/ J. Bush	Changes to disk_control for more meaningful error messages
1479	A	11/18/75	R. Klinger	Install copy_file command
1478	W	11/11/75	E. Stone	Fix bug in fs_get
1477	A	11/11/75	E. Stone	Change generate_mst to interpret object keyword correctly
1476	A	11/11/75	S. Herbst	Add features to oo and exec_com
1475	A	11/11/75	S. Herbst	Implement reprint_query command
1474	A	11/11/75	E. Wallman	Correct and complete various hardware description include files
1473	A	11/11/75	T. VanVleck	Make default search rules installation changeable
1472	A	11/11/75	S. Herbst	Implement compatible secure message commands
1471	A	11/04/75	S. Herbst	Fix bug in abbrev .1 request
1470	P A	11/04/75 11/11/75	S. Herbst	Fix bug in do active function
1469	P A	11/04/75 12/09/75	S. Herbst	Test for non-interactive use of command_query_
1468	W	11/04/75	S. Herbst	Add two keywords to if command

1467	P	11/04/75	S. Herbst	Implement mailbox_set_max_length command
	A	12/02/75		
1466	A	11/04/75	B. Silver	Fix to tape_ for LA firmware
1465	A	11/04/75	L. Scheffler	Rewrite ring 4 syserr log management
1464	A	11/04/75	P. Green	Fix bug in operator DOWN command
1463	A	10/28/75	S. Herbst	Improve saving of unsent mail
1462	A	10/28/75	S. Herbst	Fix bug in mbfa
1461	A	10/28/75	S. Herbst	Fix bug in copy_names_
1460	A	10/28/75	P. Kelley	Fix mss_manager_ to correspond to changes made in MSS 27.0
1459	A	10/28/75	M. MacLaren	Change vfile_ use of msfs
1458	P	10/28/75	S. Herbst	Restrict max_length to page boundaries
	A	11/11/75		
1457	A	10/28/75	G. Lewis	Fix a bug in backup_cleanup
1456	A	10/28/75	A. Kobziar	Fix bug in deleting upgraded directory trees
1455	P	10/21/75	S. Herbst	Fix directory bug in copy
	A	10/28/75		
1454	A	10/21/75	L. Scheffler	Change append\$create_branch to use parent access class as default
1453	P	10/21/75	J. Phillips	Spooling Facility Enhancement
	A	10/28/75		
1452	A	10/21/75	J. Stern	Message segment improvements and bug fixes
1451	A	10/21/75	J. Goldman	Auto-Call Facility
1450	A	10/14/75	S. Herbst	Change abbrev_\$set_cp_ to abbrev_\$set_cp
1449	A	10/14/75	B. Silver	Fix bug in reconfigure_rcp
1448	A	10/14/75	B. Silver	Fix ring alarm bug
1447	A	10/14/75	T. Casey	Add -first argument to list command
1446	A	10/14/75	T. Casey	Eliminate inconsistencies in list command
1445	A	10/14/75	T. Casey	Add new star matching features to list command
1444	A	10/07/75	L. Johnson	Fix rafname bug in iox_\$attach_laname

1443	P	10/07/75	M. Asherman	New file utility commands
	A	10/28/75		
1442	A	10/07/75	M. Asherman	vfile_ bug fixes
1441	A	10/07/75	B. Silver	RCP bug fixes
1440	A	10/07/75	S. Herbst	Change mailbox_\$update_message_index
1439	A	10/07/75	S. Herbst	Fix bug in copy_acl_
1438	A	10/07/75	L. Scheffler	Improvements to ring 4 syserr log
1437	A	10/07/75	R. Roach	Remove non-system ACLs from Gates on Hardcore Header
1436	A	10/07/75	S. Barr	Fix tty_ to use word aligned pointers in calls to hcs_3tty_read
1435	A	10/07/75	S. Herbst	Fix bug in full_find_command_
1434	A	10/07/75	J. Whitmore	General IO Daemon fixes
1433	A	10/07/75	J. Whitmore	Fix IO Daemon bugs for 3.0
1432	A	10/07/75	J. Whitmore	Fix for bound_gumper_
1431	A	10/07/75	J. Whitmore	Add ring 1 AIM privileges for the Initializer
1430	A	10/06/75	R. Morrison	Fix Bugs in GCOS Simulator
	(PHX)			
1429	A	09/30/75	S. Barr	Correct misleading error message in debug
1428	A	09/30/75	M. Weaver	Add Command dump_static_and_linkage
1427	A	09/30/75	M. Weaver	Binder Update Change for Separate Static
1426	A	09/30/75	D. Levin	Install new FORTRAN compiler that produces new object map
1425	A	09/30/75	T. Casey	Fix bug in edit_proj
1424	A	09/30/75	T. VanVleck	Fixes and improvements for help
1423	A	09/30/75	T. VanVleck/ C. Clingen	Remove peruse_text from system
1422	A	09/30/75	G. Dixon	Fix bug in decode_descriptor_
1421	A	09/30/75	M. Grady	Fix bug in file_DIM
1420	A	09/30/75	M. Grady	Add support for multiple FNPs
1419	P	10/06/75	W. O'Neill	Multics COBOL Compiler, Version 1.5
	(PHX)	W 04/16/76		
1418	A	09/23/75	S. Herbst	Changes to msf_manager_

1417	R	09/23/75	S. Herbst	Check type in msf_manager_
1416	A	09/23/75	S. Herbst	Develop standard for command error messages about link targets
1415	A	09/23/75	S. Herbst	Fix null command line bug in walk_subtree
1414	A	09/23/75	S. Herbst	Fix bug in find_common_acl_names_
1413	A	09/23/75	A. Kobziar	Catch empty file map bug via salvager
1412	A	09/23/75	A. Kobziar	Fix hcs_ acl primitives bugs
1411	P W	09/23/75 09/30/75	M. Asherman	New File Utility Commands
1410	A	09/23/75	P. Green	Fix bug in dial facility
1409	R	09/23/75	L. Johnson	Implement function entry point to loa_
1408	A	09/23/75	J. Stern	New control argument for format_word_list
1407	P W	09/23/75 10/21/75	L. Scheffler	Fix bug in create/create_dir
1406	A	09/23/75	P. Green/ M. Grady	Fix bugs in file_ IOSIM
1405 (PHX)	A	09/29/75	R. Morrison	Fix bug in GCOS_daemon
1404 (PHX)	A	09/29/75	J. Rhodes	TOLTS 3.0 issue
1403 (PHX)	A	09/22/75	W. O'Neill	Multics COBOL Compiler
1402 (PHX)	A	09/22/75	J. Weeldreyer	Modify rdisk_ to use RCP
1401 (PHX)	A	09/15/75	R. Morrison	Modify the GCOS simulator to track changes in restart_fault_
1400 (PHX)	P A	08/11/75 09/22/75	R. Morrison	GCOS tools info segments
1399 (PHX)	P A	09/22/75 11/10/75	R. Morrison	Fix bug in GCOS_card_utility
1398 (PHX)	A	08/11/75	R. Morrison	Change GCOS_daemon absentee jobs to default restartable
1397 (PHX)	A	08/04/75	R. Luebke	Modify calc to use EIS arithmetic
1396	A	08/04/75	R. Morrison	GCOS Simulator

(PHX)

1395 (PHX)	A	07/21/75	R. Morrison	GCOS Simulator
1394 (PHX)	A	07/21/75	R. Luebke	Add Backup to Disk facility
1393 (PHX)	A	07/21/75	R. Lackey	Fix bugs in tss_ info segment
1392 (PHX)	A	07/21/75	R. Lackey	Fix bug in the maxflow.fortran program in the TSS Fortran Library
1391 (PHX)	A	05/29/75	J. Rhodes	TOLTS 2.2 update
1390 (PHX)	A	05/29/75	J. Weeldreyer	Install Removable Disk I/O Module
1389	A	09/16/75	E. Stone	Obtain access from SDW and KSTE
1388	A	09/16/75	S. Herbst	Fix bug in term_\$single_refname
1387	A	09/16/75	S. Herbst	Change set_iaci_seg error message
1386	A	09/16/75	R. Barnes	Install PL/I compiler that produced the new object map
1385	A	09/16/75	T. Casey	Fix bug in compare_ascii
1384	A	09/16/75	R. Coren	Make tty_dump compatible with new Answering Service
1383	A	09/16/75	R. Coren	Fix buffer-space bug in MCS
1382	A	09/16/75	R. Barnes	Create and Maintain a pli_errata info file
1381	A	09/16/75	M. Weaver	Make break maps illegal in bound segments
1380	A	09/16/75	N. Morris	Modify BOS for 2 IOM Operation
1379	A	09/16/75	N. Morris	Fix bug in disk DIM
1378	A	09/16/75	N. Morris	Remove unneeded code from printer DIM
1377	A	09/16/75	N. Morris	Fix problem in bootstrap1
1376	A	09/16/75	S. Webber	Fix linker bug in creating multiple linkage segments
1375	A	09/16/75	J. Stern	Fix bug in dprint
1374	A	09/16/75	J. Stern	Fix bug in print_request_types and print devices
1373	A	09/16/75	J. Stern	Change find_word to print line numbers
1372	A	09/16/75	J. Whitmore	Fix bug in pool_manager

1371	A	09/09/75	T. Casey	Update system exec_com's for MR3.0
1370	A	09/09/75	M. Grady	MCS bug fixes for 3.0
1369	A	09/09/75	R. Mullen	Fix lps_masking bug
1368	A	09/09/75	T. VanVleck	Fix bug in set_lock_
1367	A	09/09/75	S. Herbst	Make create_dir recognize bad control args
1366	A	09/09/75	S. Herbst	Fix bug in copy_names
1365	A	09/09/75	S. Herbst	Add entry mailbox_\$update_message_index
1364	A	09/02/75	R. Barnes	Remove Default Initialization of Varying Strings from pl1
1363	A	09/02/75	R. Barnes	Install any_to_any_ and dec_ops_ Bug Fixes
1362	A	09/02/75	L. Johnson	Extensions to syserr
1361	A	09/02/75	N. Morris	Modify card reading software
1360	A	08/26/75	T. Casey	Fix bug in ed_mgt
1359	A	08/26/75	T. Casey	Fix bug in GCOS Simulator
1358	R	08/26/75	R. Bratt	Improve interface to lock
1357	A	08/26/75	K. Pogran	Impose 7280 word limit on length of messages in message segments
1356	A	08/26/75	K. Pogran	New ready message procedure
1355	A	08/26/75	K. Pogran	Modifying the message segment facility to properly handle large messages
1354	A	08/26/75	S. Barr	Set version number before calls to object_info_ in oebug
1353	A	08/26/75	S. Barr	Fix bug in resetting a break at an EIS instruction in debug
1352	A	08/26/75	T. VanVleck	Miscellaneous Answering Service Improvements
1351	A	08/26/75	R. Klinger	Fix unreported bugs in tape_ansi_
1350	A	08/26/75	R. Klinger	Emergency fixes to tape_ansi
1349	A	08/26/75	R. Klinger	change print_sample_refs to use new object_info_ and lox_
1348	A	08/20/75	S. Webber	Change method of virtual CPU time measurement
1347	P	08/20/75	R. Mullen	Install metering tools for priority

	A	08/26/75		scheduler
1346	A	08/20/75	B. Greenberg	Change initialize_peek_limits error reporting
1345	A	08/20/75	B. Greenberg	Fix Core accounting in pc_ads
1344	A	08/20/75	J. Whitmore	Update the broadcaster_dlm to v2pl1
1343	A	08/20/75	J. Whitmore	Fix read status order in message coordinator
1342	A	08/20/75	J. Gintell	Repair occasional boundfault bug in page_trace
1341	A	08/20/75	B. Greenberg	Fix latest restart_fault bugs
1340	A	08/20/75	A. Kobziar	Retriever Changes
1339	A	08/20/75	S. Webber	Change format of linkage section header
1338	P A	08/20/75 11/18/75	L. Johnson	Standardize iox_error codes
1337	A	08/12/75	M. Grady	Support TermiNet 1200 using Bell 20205/6 modems
1336	A	08/12/75	M. Grady	Move G115 protocol support to 355
1335	A	08/12/75	P. Green	Modify Answering Service for MCS Phase 2
1334	A	08/12/75	L. Johnson	Fix bug in io_call command
1333	A	08/12/75	G. Dixon	Fix bug in reduction_compiler
1332	A	08/12/75	R. Mullen	Fix pxss processid checking bug
1331	P W	08/12/75 09/16/75	S. Herbst	Change mail's printing of wakeup messages
1330	A	08/12/75	R. Coren	Supply "set_line_type" order for MCS
1329	A	08/12/75	R. Coren	Supply "write_status" order for MCS
1328	A	08/05/75	J. Stern	Disable access checking for hphcs_\$set_backup_dump_time
1327	P A	08/05/75 11/25/75	S. Webber	Add prelinking to the system
1326	A	08/05/75	S. Webber	Change meaning of login -po control argument
1325	A	08/05/75	L. Johnson	Installation of firmware utilities
1324	P	08/05/75	M. Grady	MCS bug fixes

W 08/12/75

1323	A	08/05/75	J. Broughton	Change probe to use new object map format
1322	A	08/05/75	J. Broughton	Modifications to probe
1321	A	08/05/75	S. Herbst	Fix move to respect safety switch
1320	A	08/05/75	S. Herbst	Fix bug in delete_
1319	P	08/05/75	S. Herbst	Install mail_table commands
	W	09/16/75		
1318	P	08/05/75	S. Herbst	Install mail_table_ and mail_table_ exists
	W	09/16/75		
1317	P	08/05/75	S. Herbst	Install send_mail_ subroutine
	W	09/16/75		
1316	P	08/05/75	S. Herbst	Install secure message commands
	W	09/16/75		
1315	P	08/05/75	S. Herbst	Change answering service to create mail_table
	W	09/16/75		
1314	P	08/05/75	L. Johnson	Re-organize gcas bound segments
	W	09/09/75		
1313	A	08/05/75	D. Levin	Install init_ftn_builtin
1312	A	08/05/75	J. Stern	Fix bug in mseg_index_
1311	A	08/05/75	T. McGary	Fix bug in >tools>lf
1310	A	07/29/75	M. Weaver	Update combined linkage sections information commands
1309	A	07/29/75	M. Weaver	Update interpret_link_ for revised section type
1308	A	07/29/75	M. Grady	Fix get_password_
1307	A	07/29/75	E. Wiatrowski	Changes to alm
1306	A	07/29/75	M. Asherman	Fix bug in record_stream_
1305	A	07/29/75	S. Webber	Delete translate_gate program
1304	P	07/29/75	S. Webber	Change dump_segment not to dump ring 0 segments
	A	08/12/75		
1303	P	07/29/75	L. Johnson	Install dump_mpc command
	A	08/12/75		
1302	A	07/29/75	S. Webber	Add feature to ioa_ to understand arrays
1301	A	07/29/75	P. Green	Fix bugs in AIM answering service
1300	A	07/22/75	J. Stern	Fix bug in format_word_list

1299	A	07/22/75	S. Herbst	Fix pi bug in sending mail
1298	P	07/22/75	S. Webber	Delete the error_table_compiler
	A	08/19/75		from the system
1297	P	07/22/75	M. MacLaren	Referencing Directory in iox-attach
	A	08/05/75		
1296	A	07/22/75	M. Weaver	Revise programs that Get Linkage
				Information for a pointer
1295	A	07/22/75	M. Weaver	Update miscellaneous callers of
				object_info_
1294	A	07/22/75	S. Webber	Change print_gen_info_ to use
				new object_info_ structures
1293	A	07/22/75	S. Webber	Change linker to work with separate
				static
1292	A	07/22/75	R. Coren	Implement start_xmit_hd and
				stop_xmit_hd for ARDS terminals
1291	A	07/22/75	B. Greenberg	Fix pc_config out-of-service bug
1290	A	07/22/75	B. Greenberg	BOS Stack dump by Ring
1289	A	07/22/75	B. Greenberg	Long Names in BOS for DUMP Command
1288	A	07/22/75	A. Herbst	Fix 8-char. bug in abbrev
1287	A	07/22/75	P. Green/ T. Casey	Fix problems with cutoff dates
1286	A	07/22/75	R. Coren	"capo" mode for tty DIM
1285	A	07/22/75	R. Coren	Support for IBM 015 (Correspondence)
				Type 3all
1284	A	07/22/75	J. Broughton	Changes to stu_
1283	P	07/15/75	J. Berson	Multics Sort/Merge
	A	08/12/75		
1282	A	07/15/75	B. May	Remove 8-page slew at end of salvage
1281	A	07/15/75	M. Weaver	Update get_entry_arg_descs_
1280	A	07/15/75	S. Webber	Fix meter_gate and spg to work with
				combined linkage for gates
1279	A	07/15/75	J. Broughton	Fix bugs in get_link_ptr_
1278	A	07/15/75	J. Broughton	Improvements to interpret_op_ptr
1277	A	07/15/75	J. Broughton	Fix bug in stack_frame_exit_
1276	A	07/15/75	T. Casey	Priority Scheduler Answering Service

1275	A	07/15/75	P. Kelley	Modify the online updating tools to copy words instead of bits
1274	A	07/15/75	P. Kelley	Fix bug in the library command ldelete
1273	A	07/15/75	S. Herbst	Eliminate TN1200 padding for raw mode
1272	A	07/15/75	R. Schoeman	Install new plio2_reclo_
1271	A	07/15/75	S. Webber	Change mexp to accept "&1" control sequence
1270	A	07/15/75	T. VanVleck	Fix qedx to handle 256K segments
1269	A	07/15/75	B. Greenberg	Fix Core Garbage Collector not to Collect Out of Service Pages
1268	A	07/15/75	B. Greenberg	Fix worst-case "flush -ck" bugs in page control
1267	P A	07/15/75 08/05/75	S. Herbst	Make runoff_abs take dprint control args
1266	A	07/15/75	S. Herbst	Fix bug in enter_abs_request
1265	A	07/15/75	S. Herbst	Add two mailbox wakeup entries
1264	A	07/15/75	A. Kobzlar	Changing error codes returned by dir_control_error
1263	A	07/08/75	R. Mullen	Install Priority Scheduler
1262	P A	07/08/75 07/22/75	T. VanVleck	Install new version of help
1261	P A	07/08/75 07/22/75	T. VanVleck	Install new program to validate info segments
1260	A	07/08/75	S. Herbst	Un-document lox_\$open append argument
1259	A	07/08/75	S. Herbst	Improve delete's description of failure in deleting subtree
1258	A	07/08/75	N. Morris	Fix bugs in I/O Interfacer
1257	P A	07/08/75 07/15/75	M. Asherman	Install new version of vfile_ I/O module
1256	A	07/08/75	S. Herbst	Experiment with new command processor
1255	A	07/08/75	F. Smith	Bug fix to edit_proj and new_proj
1254	A	07/08/75	F. Smith	Bug fix to clear_profile and clear_reqfile
1253	P A	07/08/75 07/22/75	R. Schoeman	Install user command display_pl1_file_error
1252	A	07/08/75	R. Barnes	Install Emergency Fix to PL/I Optimizer bug

1251	A	07/08/75	J. Broughton	Change to get_entry_name
1250	A	07/08/75	S. Webber	Fix bug in absentee. Fails to set bit count correctly
1249	A	07/01/75	B. May	Directories for online documentation
1248	A	07/01/75	A. Kobzian	Correcting access on hardware gate linkage segments
1247	A	07/01/75	P. Green	Fix bug in convert_authorization_
1246	A	07/01/75	S. Barr	Have debug support version 2 standard object segments
1245	A	07/01/75	S. Barr	Delete debug code that supports version I ol1
1244	A	07/01/75	N. Morris	Fix bug in bootstrap1
1243	P A	07/01/75 07/08/75	S. Webber	Implement static handlers
1242	P A	07/01/75 07/08/75	S. Webber	Redefine meaning of the copy switch
1241	A	07/01/75	S. Webber	Fix bug in expand_path_
1240	A	07/01/75	S. Webber	Fix bug causing trap-before-links to fail
1239	A	06/24/75	M. Weaver	Delete no_old_atm option from binder
1238	A	06/24/75	B. Greenberg	Improve check_sst
1237	A	06/24/75	B. Greenberg	Fix page control bugs
1236	A	06/24/75	B. Greenberg	Upgrade online_dump for sst_names_
1235	A	06/24/75	S. Herbst	Change segs to return null string instead of ""
1234	A	06/24/75	S. Herbst	Fix index_set active function
1233	A	06/24/75	S. Webber	Fix ec bug erroneously complaining about unbalanced brackets in &if construct
1232	A	06/24/75	J. Stern	Fix message segment deletion bug
1231	W	06/24/75	S. Herbst	Fix bug in trouble_report
1230	A	06/24/75	A. Kobzian	Fix zeroing E191 reused addresses bug in Salvager
1229	A	06/19/75	R. Barnes	Emergency chane to PL/I's handling of fixed (decimal_constant)
1228	A	06/19/75	C. Tavares	Graphic Editor for Multics Graphic System

1227	A	06/19/75	C. Tavares	Multics Graphic System
1226	A	06/19/75	G. Dixon	Fix lex_string_ to handle break characters properly
1225	A	06/19/75	R. Mullen	Prevent lost notifies during process loading
1224	A	06/19/75	S. Herbst	Change set_acl's handling of bad ring brackets
1223	A	06/19/75	R. Barnes	Install a compare_object that handles separate_static
1222	A	06/19/75	M. Weaver	Fix and update binder
1221	R	06/19/75	T. Casey	New entry point to date_time: clock
1220	P W	06/19/75 07/01/75	S. Webber	Add new control format to formline_ (ioa_)
1219	A	06/19/75	S. Herbst	Change incacc error message
1218	R	06/19/75	D. Jordan	Silence ioi_timer message
1217	A	06/19/75	K. Pogran	Remove 2K limit on length of message in message segment
1216	P A	06/19/75 07/08/75	R. Bratt	Install new KST/RNT
1215	P W	06/19/75 07/01/75	A. Kobzian	Fix bug in deleting upgraded directory trees
1214	A	06/19/75	R. Schoeman	Install new bound_plio2_
1213	A	06/19/75	R. Schoeman	Install new default_error_handler
1212	A	06/19/75	D. Wells	Changes to user_telnet and user_ftp commands
1211	A	06/19/75	D. Wells/ N. Federman	Move some Network Administration to ring one
1210	A	06/19/75	D. Wells	Modification to NCP to fix bugs and add features
1209	A	06/10/75	T. Gerassimenko	Multics COBOL Compiler Support User Commands
1208	A	06/10.75	T. Gerassimenko	Multics COBOL Compiler
1207	A	06/10/75	N. Morris	Change BOS Toehold
1206	A	06/10/75	N. Morris	Fix bug in card reader DIM
1205	A	06/10/75	A. Kobzian	Fix Salvager's not flushing core and paging device
1204	A	06/10/75	R. Mullen	Inform BOS of APT offset

1203	A	06/10/75	A. Kobziar	Remove temporary test provisions for Access Isolation
1202	A	06/10/75	S. Barr	fix ol_dump to work with new db_print
1201	A	06/10/75	S. Herbst	Change mail's program_interrupt feature
1200	A	06/03/75	N. Morris	Fix bug in BOS CORE Command
1199	A	06/03/75	B. May	Remove "null *.*.*" acl from hardcore headers
1198	A	06/03/75	N. Morris	Fix bug in BOS FMT command
1197	A	06/03/75	A. Kobziar	Fix privileged quota setting in append
1196	A	06/03/75	M. Weaver	Update bound_segment_info_
1195	P A	06/03/75 06/10/75	S. Webber	Change dump_segment to call dump_seg_
1194	A	06/03/75	S. Webber	Add cobol_operators_ to system
1193	A	06/03/75	J. Gintell	Add move request to EDM
1192	A	06/03/75	A. Kobziar	Fix bugs in FSDCT Initialization and Growth
1191	A	05/28/75	S. Vestal	New Multics Card Input Facility
1190	A	05/27/75	M. Weaver	Fix bug in BASIC
1189	A	05/27/75	M. Weaver	Install upward compatible object_info_
1188	A	05/27/75	J. Stern	Replace calls to hcs_\$get_authorization
1187	A	05/27/75	S. Herbst	Change name of names\$copy
1186	P W	05/27/75 07/22/75	S. Herbst	Include referencing dir in search for dir
1185	P W	05/27/75 06/10/75	S. Herbst	Redefine active function evaluation
1184	A	05/27/75	S. Herbst	Change abbrev to set bit count on profile
1183	A	05/27/75	S. Herbst	Add pi handler to command_query_
1182	A	05/27/75	A. Kobziar	Fix privileged initiate bug
1181	P A	05/27/75 06/03/75	L. Johnson	io_call command changes
1180	A	05/21/75	R. Klinger	ascii_to_ebcdic_ and ebcdic_to_ascii_ conversion routines
1179	A	05/21/75	K. Pogran	Modifications to network_exec_
1178	P W	05/21/75 06/10/75	S. Herbst	Fix bug in set_acl with star convention

1177	P	05/21/75	R. Barnes	Install new pl1_operators_ and trace
	A	06/03/75		
1176	A	05/21/75	D. Vinograd	Fix table allocation bug in tc_init
1175	A	05/21/75	D. Vinograd	Fix bug in tty_lines
1174	A	05/13/75	G. Dixon	Fix bug in reduction_compiler_
1173	A	05/13/75	G. Dixon	Add commenting capability to reduction_compiler language
1172	A	05/13/75	R. Kanodia	Increase the size of IMP DIM link tables
1171	P	05/13/75	M. Grady	fix ioam to check size of IOAT
	A	05/27/75		
1170	A	05/13/75	S. Herbst	Change operation of delete_ on directories
1169	A	05/13/75	J. Broughton	Fix bug(s) in stu_
1168	A	05/13/75	S. Herbst	Fix bug in copy_seg_
1167	R	05/13/75	M. Braida	Update/rename the "listacl" comand to list_access command
1166	A	05/13/75	S. Herbst	Convert bound_command_loop_ to IOX
1165	A	05/13/75	S. Herbst	Install new user ring tty dim
1164	A	05/13/75	R. Schoeman	Install new record_io_ and bound_pllc2_
1163	A	05/13/75	N. Morris	enable BOS to reside on 7-track tape
1162	A	05/13/75	N. Morris	Fix bug in BOS card reading program
1161	A	05/13/75	N. Morris for D. Kayden	Add MCP dumper facility to BOS
1160	A	05/13/75	S. Herbst	Implement io_call move_attach
1159	A	05/13/75	S. Herbst	Fix newline bug in abbrev
1158	P	05/13/75	F. Martinson	Reorganization of ldd for unbundled software
	W	05/27/75		
1157	A	05/13/75	G. Dixon	Replace get_library_segment with the library_fetch command
1156	P	05/06/75	M. Weaver	Move and Clean up Extended Precision BASIC
	R	05/21/75		
1155	A	05/06/75	M. Meer	Make retriever handle up to 250 requests
1154	A	05/06/75	S. Herbst	Fix bug in pl1_abs, fortran_abs, alm_abs
1153	A	05/06/75	M. Grady	Install new tty dim tools
1152	A	05/06/75	R. Coren	set_tty command

1151	A	05/06/75	E. Stone	Fix bug in mst generator
1150	A	05/06/75	D. Vinograd	New Reload Options during System Startup
1149	P W	05/06/75 05/13/75	S. Herbst	Implement del_dir_ to replace del_dir_tree
1148	A	05/06/75	D. Levin	New teco Implementation
1147	A	04/29/75	S. Herbst	Fix 2-process bug in msf_manager_\$get_ptr
1146	A	04/29/75	M. Weaver	Fix bugs in BASIC
1145	P W	04/29/75 05/06/75	T. Casey	Replace update command in system_startup_
1144	P A	04/29/75 05/06/75	L. Scheffler	Managing syserr log segments in ring 4
1143	A	04/29/75	P. Kelley	Fix locking bug in online installation tools.
1142	P A	04/29/75 05/13/75	A. Kobziar	Separate privileges from the access authorization field
1141	P A	04/29/75 05/06/75	A. Kobziar	Removing backup time setting entries from hcs_
1140	A	04/29/75	S. Herbst	Fix msf_manager_ to handle the root
1139	P W	04/29/75 05/06/75	S. Herbst	Implement entry point mail_errfiles\$set_dir
1138	A	04/29/75	T. VanVleck	New version of system_control_
1137	P A	04/29/75 05/06/75	R. Barnes	Change the ipc_event call mechanism to use entry variables
1136	A	04/29/75	B. Silver	Resource Control Package
1135	A	04/29/75	M. Meer	Fix qadx bugs
1134	A	04/29/75	M. Meer	Fix bug in regular expression matching
1133	A	04/29/75	A. Kobziar	Filter access_class in append\$create_branch_
1132	A	04/29/75	S. Webber	Change find condition info_ to get a pointer to signaller's argument list in a better way
1131	A	04/29/75	P. Green	Fix bugs in cross_reference
1130	A	04/29/75	S. Webber	Fix bug in illegal_procedure
1129	A	04/29/75	S. Webber	Fix bugs in mexp
1128	A	04/29/75	S. Herbst	Change mail_errfiles for new mail

1127	A	04/29/75	J. Whitmore	Pass order and changemode calls through card format DIMs
1126	A	04/29/75	S. Herbst	Fix bug in delete_
1125	A	04/29/75	S. Herbst	Eliminate extra message in delete
1124	A	04/29/75	T. Casey	Fix bug in qedx
1123	A	04/29/75	P. Green	Add get_line_length_ subroutine
1122	A	04/29/75	M. Weaver	Add print_relocation_info command
1121	A	04/15/75	S. Herbst	Fix bug in initiate command
1120	A	04/15/75	S. Herbst	Change get_quota
1119	A	04/15/75	G. Dixon	New date/time strings for convert_date_to_binary
1118	R	04/15/75	A. Kobziar	Filter access_class in append\$create_branch_
1117	A	04/15/75	J. Gintell	Delete Version 1 Graphics Software
1116	A	04/08/75	D. Levin	New Fortran Compiler
1115	A	04/08/75	A. Kobziar	Install compare_mst
1114	A	04/08/75	A. Kobziar	Fix reused address bug in Salvager
1113	A	04/08/75	R. Barnes	Install pl1 compiler and runtime
1112	A	04/08/75	S. Herbst	Change term_\$no_clear
1111	P W	04/08/75 05/06/75	G. Dixon	Allow suffixed_name_ to handle path names
1110	A	04/08/75	M. Grady	New modes and orders for MGS tty_dim
1109	A	04/08/75	K. Pogram	Modification to net_connect_
1108	A	04/01/75	J. Stern	Resolve the message segment "uncertainty principle"
1107	A	04/01/75	R. May for C. Tavares	Install New Graphic System
1106	P W	04/01/75 06/19/75	S. Webber	Redefine meaning of the copy switch
1105	A	04/01/75	S. Herbst	Implement iox_\$move_attach
1104	A	04/01/75	S. Herbst	Speed up iox_\$propagate
1103	A	04/01/75	R. Barnes	Install an assign_ that sets the support bit
1102	A	04/01/75	P. Green	Convert tool "nothing" to Version 2 PL/I

1101	A	04/01/75	A. Kobziar	Check for out_of_service privilege in find_
1100	A	04/01/75	B. Silver	Bug fixes to tape_
1099	A	04/01/75	R. Schoeman	Install initialize_builtin
1098	P A	04/01/75 04/08/75	R. Barnes	Shorten int_entry and int_entry_desc sequences in pl1_operators_
1097	A	04/01/75	S. Webber	Fix bugs in 25-3 with respect to variable size lots
1096	A	03/25/75	S. Herbst	Make dprint test for zero length segment or MSF
1095	A	03/25/75	S. Herbst	Change dprint total line
1094	A	03/25/75	S. Herbst	Fix bug in find_common_acl_names_
1093	A	03/25/75	M. Asherman	Fix bug in record_stream_
1092	A	03/25/75	J. Broughton	Fix bug in stu_
1091	A	03/25/75	R. Morrison	GCOS Daemon to run jobs in Ring 5
1090	A	03/25/75	P. Green	Fix Ring 4 tty dim to make ios_ work with dialed terminals
1089	A	03/25/75	P. Green	Change answering service to work with MCS
1088	A	03/25/75	F. Smith	Mailing pages for account bills
1087	A	03/25/75	F. Smith	Resorting of daily summaries
1086	A	03/25/75	P. Green	Fix bugs in convert_authorization_
1085	A	03/25/75	L. Scheffler	Install print_auth_names and print_proc_auth
1084	A	03/25/75	S. Webber	Fix bug in link_unsnap_ caused by 25-3 linker
1083	A	03/25/75	R. Barnes	Install pl1_operators_ and record_io_
1082	A	03/25/75	R. Coren	Add new modes for terminals
1081	A	03/25/75	R. Coren	Change error code returned by tty_ "modes"
1080	A	03/18/75	S. Barr	Fix bugs in debug
1079	A	03/18/75	T. Casey	Fix problems in system_monthly_report
1078	A	03/18/75	S. Webber	Do not use user-ring modified machine conditions
1077	A	03/18/75	B. Greenberg	Fix reconfiguration mask setting bug
1076	A	03/18/75	R. Morrison	GCOS Simulator
1075	A	03/18/75	R. Morrison	GCOS Simulator

1074	P	03/18/75	P. Green	Make ESD more fail-safe
	A	03/25/75	for N. Morris	
1073	A	03/11/75	N. Morris	Provide new functions for BOS SAVE/RESTOR
1072	A	03/11/75	M. Grady	355 reliability improvement
1071	A	03/11/75	M. Grady	Change to tty_ctl for MDS2400
1070	W	03/11/75	M. Grady	Change to MCR form
1069	A	03/11/75	R. Kanodia	formline_ and imp_dim bug fixes
1068	A	03/11/75	R. Mabee	Potential bugs in hardcore
1067	A	03/11/75	R. Bratt	Rewrite find_
1066	A	03/11/75	R. Bratt	New error codes
1065	A	03/11/75	R. Schoeman	Install a new PL1 I/O runtime package
1064	A	03/11/75	D. Levin	Improved FORTRAN I/O package
1063	A	03/11/75	D. Levin	Fix bugs in arc tangent routines
1062	A	03/11/75	S. Herbst	Fix bug in status -mode
1061	R	03/11/75	S. Herbst	Change error message in delete command
1060	A	03/11/75	J. Gintell	Add -total control argument to cumulative_page_trace
1059	P	03/11/75	A. Mason	Add too_many_cis code to error_table_
	W	03/18/75		
1058	P	03/11/75	A. Scherer	Install library_fetch command
	R	03/25/75		
1057	P	03/11/75	A. Scherer	Revise submission testing programs to use library_fetch_
	A	03/25/75		
1056	A	03/04/75	P. Green	Bring ring_zero_meter_limits_ASCII_ up-to-date
1055	A	03/04/75	B. Silver	Fix bug in pioi_
1054	A	03/04/75	R. Mullen	reload directly to target segment
1053	A	03/04/75	T. Casey	Fix bugs in ed_mgt
1052	A	03/04/75	T. Casey	Recompile system_daily_report
1051	A	03/04/75	S. Herbst	Warn of useless control args in dprint
1050	A	03/04/75	B. May	Move Language Group Info Segs to >doc>iis.
1049	W	03/04/75	T. VanVleck	Remove actind and actime from branch

1048	A	03/04/75	F. Martinson	Move GCOS modules from tools to system_library_unbundled
1047	A	03/04/75	F. Martinson	Expand active_all_rings_data; change gm to accept -versld arg
1046	A	03/04/75	A. Kobzlar	Defining an Access Class Ceiling
1045	A	03/04/75	T. Casey	New administrative exec_coms
1044	P A	02/25/75 03/25/75	A. Berglund for J. Rhodes	Install tolts_overseer_
1043	P A	02/25/75 03/25/75	A. Berglund for J. Rhodes	Total On Line Test System (TOLTS) and Peripheral On-Line Test System (POLTS)
1042	A	02/25/75	G. Dixon	New Library Tools: library_map, library_print, library_descriptor
1041	A	02/25/75	N. Morris	Fix 2 CPU bug in IOI queuing module
1040	A	02/25/75	R. Mullen	pxss bug fixes
1039	A	02/25/75	R. Mullen	Implement set\$set_for_reloader
1038	A	02/25/75	R. Mullen	rtape_ for reloader
1037	A	02/25/75	R. Mullen	plol_\$set_max_buffer_length (Interim)
1036	A	02/25/75	R. Coren	Fix build355 and map355 access problem
1035	A	02/25/75	T. Casey	Bug fixes to answering service hash table routines
1034	A	02/25/75	S. Herbst	Add message segment get_mode entries
1033	A	02/25/75	N. Morris	Provide interim solution in I/O Interfacer for "stuck" channel problem
1032			not issued	
1031	R	02/18/75	A. Kobzlar	Improved handling of Initial ACLS by append
1030	P W	02/18/75 02/25/75	A. Kobzlar	Dumper Changes for Access Isolation
1029	A	02/18/75	R. Bratt	Move hcsnt to active_all_rings_data
1028	A	02/18/75	R. Bratt	Fix and Restructure setfaults
1027	A	02/18/75	S. Herbst	Fix bug in status command
1026	A	02/18/75	S. Herbst	Remove absolute pathname from pl1
1025	A	02/18/75	S. Herbst	Fix bug in adjust_bit_count_
1024	P A	02/18/75 03/11/75	J. Stern	Introducing users to IO Daemon queue groups

1023	A	02/18/75	T. Casey	Emergency fix to hash_
1022	R	02/11/75	S. Herbst	Declare unaligned arguments in change_wair_entries
1021	A	02/11/75	N. Morris	Improve Multics Disk DIM
1020	P A	02/11/75 02/18/75	N. Morris	Allow use of disk through I/O Interfacer
1019	A	02/11/75	N. Morris	Fix Bug In Metering of IOM Interrupts
1018	A	02/11/75	R. Morrison	GCOS Simulator
1017	A	02/11/75	N. Morris	Fix page counting error in print conversion
1016	A	02/11/75	M. Weaver	Add routines to process entry values
1015	P A	02/11/75 03/04/75	S. Webber	Change command processor for new argument convention for commands
1014	A	02/11/75	T. Casey	Fix bugs in admin_util and parse_attributes_
1013	A	02/11/75	S. Webber	Install EIS version of listen_ and command_processor_
1012	A	02/04/75	M. Asherman	Install record_stream_module
1011	A	02/04/75	T. Casey	New List Command
1010	A	02/04/75	R. Klinger	Install tape_ansi and tape_ibm_ I/O Modules
1009	A	02/04/75	L. Johnson	Changes to formline_iteration loops
1008	A	02/04/75	S. Herbst	Fix inconsistency in set_acl
1007	P W	02/04/75 02/18/75	S. Vestal	New Multics Card Input Facility
1006	A	01/28/75	T. VanVleck	Fix bugs in trace_stack
1005	P W	01/28/75 02/25/75	S. Herbst	Add -from and -to options to trace_stack
1004	R	01/28/75	S. Herbst	Change operation of term_
1003	R	01/28/75	S. Herbst	Remove explicit references to system_library_dev
1002	A	01/28/75	S. Barr	Prevent an attempt to free non-allocated storage in check_info_segs
1001	A	01/28/75	T. Casey	Fix bugs in print_disk and disklow
1000	A	01/28/75	S. Webber	Remove page control from ring 0

0999	A	01/28/75	F. Smith	Extension to user_info_
0998	P A	01/28/75 02/18/75	T. VanVleck	Add checking on segment names to editors
0997	A	01/28/75	T. VanVleck	Describe printed output modes on tail sheet
0996	P W	01/28/75 02/18/75	T. VanVleck	Add Selective Printing to Help Command
0995	A	01/28/75	T. VanVleck	Minor fix to indent
0994	A	01/28/75	T. VanVleck	Remove un-documented special characters from TTY and printer dims
0993	A	01/28/75	S. Herbst	Implement "-long" option of initiate
0992	A	01/28/75	B. Silver	New default Multics standard tape record size
0991	A	01/21/75	N. Morris	Modify tape attachment module to rotate assignment of tape drives
0990	A	01/21/75	D. Levin	Emergency fix to Fortran I/O to Add a finish Handler
0989	A	01/21/75	B. Greenberg	New Page Control, Phase I: Continued development and ultimate installation thereof
0988	A	01/21/75	P. Green	Delete hphcs_\$star_no_acc_ck
0987	A	01/21/75	R. Barnes	Emergency Fix to PL/I I/O to Add a Finish Handler
0986	A	01/21/75	J. Stern	A New Translator for IO Daemon Params
0985	W	01/21/75	S. Herbst	Disable "do" active function
0984	A	01/21/75	S. Herbst	Change link chasing in append
0983	W	01/21/75	S. Herbst	Enable command_query_ to repeat query
0982	A	01/21/75	T. Casey	Fix bug in new_user
0981	P W	01/21/75 02/11/75	P. Green	Extend system command/active function
0980	A	01/21/75	L. Scheffler	Move copy entry from syserr_logger to syserr_log_copy
0979	A	01/21/75	N. Morris	Fix bug in BOS RESTOR Command
0978	P A	01/21/75 01/28/75	J. Stern	Handling of device class arguments by oprint/opunch
0977	A	01/21/75	R. Mullen	Backup Bug Fixes

0976	A	01/14/75	S. Herbst	Fix inconsistencies in ms commands
0975	A	01/14/75	J. Whitmore	Restructure the IO Daemon driver software
0974	P A	01/14/75 02/11/75	S. Webber	Change format of locb's
0973	P W	01/14/75 02/11/75	S. Webber	Change definition of iox_\$get_line
0972	A	01/14/75	A. Kobzlar	Fix Zeroing of Branch Pad by Salvager
0971	A	01/14/75	L. Johnson M. Grady	Changes to tty_ctl
0970	A	01/14/75	J. Gintell	Modify page_trace to properly interpret linkage fault information
0969	P W	01/14/75 01/28/75	S. Herbst	Fix inconsistency in set_acl
0968	A	01/14/75	R. Klinger	Fix bug in sort_seg_
0967	A	01/14/75	N. Morris	Provide Truncate mode for printed output
0966	A	01/07/75	M. Grady	bug fixes to tty_write
0965	A	01/07/75	S. Herbst	Chase links in copy_seg_
0964	A	01/07/75	S. Herbst	Implement have_mail active function
0963	A	01/07/75	D. Wells	Improvements to Server TELNET (ntw_)
0962	A	01/07/75	D. Wells	Alterations to Answering Service portion of File Transfer Server
0961	A	01/07/75	D. Wells	Upgrade Server TELNET to new I/O System
0960	A	01/07/75	J. Whitmore	Add bound_ssa_commands_ to tools
0959	A	01/07/75	D. Wells	Install User_ftp command
0958	A	01/07/75	S. Herbst	Fix bug in do command
0957	A	01/07/75	J. Gintell	Convert cumulative_page_trace and page_trace to use iox_
0956	A	01/07/75	L. Johnson	fix bug in form_link_info_
0955	A	01/07/75	L. Johnson	fix bug in print_link_info
0954	A	01/07/75	L. Johnson	fix bug in formline_
0953	A	01/07/75	N. Morris	Fix bug causing BOS DUMP to run off end of tape when dumping to tape
0952	A	01/07/75	J. Stern	New control arguments for the aprint command
0951	P A	01/07/75 01/14/75	H. Goldberg	Truncation of head/tail sheets

0950	A	01/07/75	B. Silver	Fix bug in mrdim_
0949	A	01/07/75	N. Morris	Fix BOS bug causing bac card reader status not to be reported
0948	A	01/07/75	S. Webber	Move history registers to PDS and return them with rest of fault data when signalling
0947	A	01/07/75	S. Barr	Add probe entry to operator_pointers_
0946	A	12/24/74	B. Greenberg	Zero unwanted interrupts in system controllers
0945	A	12/24/74	S. Webber	Fix bug preventing deletion of bootload CPU
0944	A	12/24/74	N. Morris	Fix I/O Interfacer Bug in computing DCW list connect index
0943	P W	12/24/74 01/28/75	A. Kobziar	Dumper changes for access isolation
0942	R	12/24/74	P. Green	Combine unbound segments in collection 3
0941	A	12/24/74	N. Morris	Fix status reporting bug in I/O Interfacer
0940	R	12/24/74	S. Webber	Add entry hcs_\$set_proc_required
0939	A	12/24/74	L. Johnson	Fix bug in ring_1_patch_
0938	A	12/24/74	L. Johnson	Change to lpatch command
0937	P W	12/24/74 01/14/75	L. Scheffler	Increase size of wired syserr buffer in syserr data
0936	A	12/24/74	C. Zethraeus	"if" command
0935	A	12/24/74	F. Smith	Additions to the PIT
0934	A	12/24/74	N. Morris	Implement new Peripheral status reporting mechanism
0933	R	12/24/74	G. Dixon	Rename the Multics System Libraries
0932	A	12/24/74	R. Klinger	error_table_codes for tape_ansi_I/O module
0931	A	12/17/74	P. Green	Fixes for Handling CPU Time
0930	A	12/17/74	M. Grady	file_ Dim Performance Improvement
0929	A	12/17/74	M. Grady	Bug Fix - io_call
0928	A	12/17/74	B. Silver	Fix Bug in syserr_logger

0927	A	12/17/74	S. Herbst	Modify cancel_abs_request Error Message
0926	R	12/17/74	S. Herbst	Add "create" Operation to Archive Command
0925	A	12/17/74	S. Barr	Change Trace Control Arguments
0924	A	12/17/74	R. Mabee	Fix Bug in check_mst
0923	R	12/17/74	G. Dixon	Extend reduction_compiler to Handle Push Down Stack Languages
0922	A	12/17/74	G. Dixon	Make Relative Syntax Functions Quick Blocks in RDC Compilers
0921	R	12/17/74	J. Stern	Use of Extended Access Modes in All Rings
0920	A	12/17/74	J. Stern	Access Class Ranges for IO Daemon Device Classes
0919	A	12/17/74	J. Stern	Access Class Banners for Printed Output
0918	A	12/17/74	J. Stern	Page Labels for Printed Output
0917	P W	12/17/74 01/17/75	J. Stern	New Control Arguments for the Dprint Command
0916	A	12/17/74	J. Stern	Handling of Non-SysDaemon IO Drivers
0915	A	12/17/74	J. Stern	IO Daemon Changes for the AIM Environment
0914	A	12/17/74	J. Stern	A "test" Entry Point for set_lock_
0913	A	12/17/74	N. Morris	Fix Bug in Printer Code Conversion
0912	A	12/10/74	R. Mullen	Install Deadline/Variable Quanta Scheduler
0911	A	12/10/74	L. Scheffler	Rewrite print_syserr_log
0910	A	12/10/74	R. Morrison	GCOS Daemon
0909	A	12/10/74	R. Morrison	GCOS Simulator
0908	A	12/10/74	R. Morrison	Modify GCOS Terminology
0907	A	12/10/74	A. Kobzian	Changed Reloader Design for Access Isolation
0906	A	12/10/74	A. Kobzian	Fix Salvager Bugs
0905	A	12/10/74	S. Herbst	Implement is_mail active function
0904	A	12/10/74	P. Green	Fix bug in calculating cpu time
0903	A	12/10/74	M. Meer	Fix brief bug in "progress"

0902	A	12/10/74	R. Franklin	NPS as a front end for Multics
0901	A	12/10/74	D. Kayden	Extend Memory Configuration Options
0900	A	12/10/74	N. Morris	Remove queued connect facility from I/O Interfacer
0899	A	12/10/74	D. Levin	Emergency fix to FORTRAN compiler
0898	A	12/10/74	S. Herbst	Move up ACL commands to tools
0897	A	12/10/74	F. Smith	New Miscellaneous Charging Procedures
0896	A	12/10/74	D. Jordan	Increase size of hardcore source archives
0895	A	12/10/74	A. Scherer	Fix gls bug which prevents tools source from being fetched when gls is used with no -sys arguments
0894	A	12/10/74	S. Herbst	Modify adjust_bit_count_ on MSF!
0893	A	12/03/74	E. Stone	Delete the procedure move_device
0892	W	12/03/74	N. Morris	Provide means to load firmware onto disk
0891	A	12/03/74	N. Morris	Modify nstd_ to accept density in tape name
0890	A	12/03/74	N. Morris	Fix bugs in attaching and detaching tapes
0889	A	12/03/74	N. Morris	Fix odd length record problem reading tape
0888	A	11/26/74	S. Barr	Correct errors in debug
0887	A	11/26/74	S. Herbst	Fix bug in archive
0886	A	11/26/74	S. Herbst	Incorporate library ACL commands in set_acl
0885	A	11/26/74	J. Stern	Fix bugs in word_list
0884	A	11/26/74	B. Silver	Fix bug in convert_ipc_code_
0883	A	11/26/74	B. Silver	Fix bug in oc_data_init
0882	A	11/26/74	T. Casey	Bug fixes and a new feature in gcu command and associated subroutines
0881	A	11/26/74	S. Herbst	Fix bug in msu_
0880	P W	11/26/74 12/10/74	L. Scheffler	Modifications to print_syserr_log
0879	A	11/26/74	P. Green	Fix bug in make_branches
0878	A	11/26/74	R. May N. Morris	Extend DPRINT to accept non-edited option

0877	P	11/19/74	K. Pogran	Addition of the NLST command to the File Transfer Server Environment
	A	11/26/74		
0876	P	11/19/74	K. Pogran	Changes to bound_ftp_server_
	A	11/16/74		
0875	A	11/19/74	B. Greenberg	t_and_d_gate
0874	P	11/19/74	B. Greenberg	T & D core claiming interface
	W	02/11/75		
0873	A	11/19/74	B. Greenberg	Implement DELMEM command
0872	A	11/19/74	B. Greenberg	Automatic page deletion
0871	A	11/19/74	P. Green	Fix security hole in init_branches
0870	A	11/19/74	S. Webber	Install new pll_operators_ for call/push/return improvements.
0869	A	11/19/74	S. Webber	Change pll_frame_ and get_entry_name_ to expect new entry pointer values
0868	A	11/19/74	S. Webber	Fix bug in mexp
0867	A	11/19/74	S. Herbst	Fix bug in change_tuning_parameters
0866	A	11/19/74	S. Herbst	Fix bug in get_quota
0865	A	11/19/74	S. Barr	Modify grab_tape_drive to be compatible with system 24.1
0864	W	11/19/74	H. Goldberg	Modifications to IO Daemon System
0863	A	11/19/74	S. Barr	Installation of user command, trace
0862	P	11/19/74	J. Phillipps	Spooling Facility for Print Requests
	A	02/11/75		
0861	A	11/19/74	L. Scheffler	Fix bug in syserr_log size computation
0860	A	11/19/74	D. Vinograd	Cross check for salvage not preceded by a shutdown.
0859	A	11/19/74	A. Mason	Delete get_entry_name and get_deframe
0858	A	11/19/74	E. Stone	Fix inconsistent declaration of ACL tag
0857	A	11/19/74	J. Stern	Printing of access classes by lar/ldr
0856	A	11/19/74	N. Morris	Modify nonstandard tape DIM for 1600 bpi
0855	A	11/19/74	N. Morris	Modify I/O Daemon for new printer DIM
0854	A	11/12/74	N. Morris	Modify Multics printer DIM to use I/O Interfacer
0853	A	11/12/74	N. Morris	Add PRU1200/1600 printer support to BOS

0852	A	11/12/74	C. Clingen	Upgrade peruse_text to Version 2 PL/I
0851	A	11/12/74	M. MacLaren	Remove extend option on iox_\$open
0850	A	11/12/74	E. Stone	Fix bug in acl_
0849	A	11/5/74	B. Greenberg	Add symbolic tag designations to ALM
0848	A	11/5/74	S. Herbst	Fix bug in answer command
0847	A	11/5/74	S. Herbst	Fix bug in compare
0846	P	11/5/74	S. Herbst	Fix commands to handle "".
	W	11/12/74		
0845	A	11/5/74	S. Herbst	Fix bug in mseg_index_
0844	A	11/5/74	J. Whitmore	Add error code checks to change_wdir
0843	P	10/29/74	R. Klinger	tape_status_ error table
	W	11/5/74		
0842	P	10/29/74	R. Klinger	New error_table_ codes for tape_ansi_
	A	11/5/74		10 Module
0841	A	10/29/74	J. Whitmore	Change hcs_\$list_dir to return effective mode
0840	A	10/29/74	J. Whitmore	Change status_ to return effective mode
0839	A	10/29/74	J. Whitmore	Delete the "status" entry in hcs_
0838	A	10/29/74	J. Whitmore	Change hcs_\$star_list to return effective mod
0837	A	10/29/74	J. Whitmore	Add Access Class Data to the Status Command
0836	P	10/29/74	S. Herbst	Add library entries to set_acl
	W	11/19/74		
0835	A	10/29/74	M. Grady	Bug fix to tty_inter
0834	A	10/22/74	R. Coren	Change cards_overseer_ to work with 24.1
0833	A	10/22/74	J. Gintell	Place the contents of >system_library_lang in the correct places.
0832	A	10/22/74	R. Kanodia	IMP DIM Performance Improvement
0831	A	10/22/74	J. Whitmore	New error__table_entries for the Access Isolation Mechanism
0830	A	10/22/74	J. Whitmore	Add the Command priv_move_quota to tools
0829	A	10/22/74	A. Kobzian	Reloader/Retriever changes for Access Isolation
0828	A	10/22/74	S. Barr	Extend check_info_segs to accept long command lines with the "-call" option
0827	A	10/22/74	S. Webber	Fix bug in link_unsnap_

0826	A	10/22/74	S. Webber	Convert absentee_dim_ to lox_ and other
0825	A	10/22/74	S. Webber	Provide feature for combined stack, lot and cls
0824	A	10/22/74	S. Herbst	Fix bug in adjust_bit_count_
0823	A	10/22/74	S. Herbst	Fix bug in move_quota
0822	A	10/22/74	J. Gintell	Remove unnecessary names from the root
0821	A	10/22/74	A. Downing	Fix bug in alm
0820	A	10/15/74	L. Scheffler	Implement phase I of protection auditing in the syserr log.
0819	A	10/15/74	P. Kelley	Online updating tools: modify documentation strategy
0818	A	10/15/74	F. Smith	Correct percentage computation for monthly usage reports.
0817	A	10/15/74	A. Scherer	Emergency fix to cleanup command.
0816	A	10/15/74	B. Silver	Fix bug in full_ipc_
0815	A	10/15/74	B. Silver	Create initial version of tape_mult_
0814	A	10/15/74	B. Silver	Delete mount package code from tape_
0813	A	10/15/74	J. Whitmore	Add New Options to create_dir for Support of the Access Isolation Mechanism
0812	P W	10/15/74 10/22/74	J. Whitmore	New error_table_ entries for the Access Isolation Mechanism
0811	P W	10/15/74 11/19/74	J. Whitmore	New error code for append
0810	P W	10/15/74 10/22/74	J. Whitmore	Add the Command prov_move_quota to sss
0809	A	10/15/74	S. Herbst	Fix bug in mseg_ and mseg_own_
0808	A	10/15/74	M. Grady	Fix a bug in g115_ DIM printer conversion routine
0807	A	10/15/74	P. Kelley	Incorporate max length attribute setting into online installation tools
0806	A	10/08/74	A. Scherer	Convert language library to unbundled library
0805	A	10/08/74	B. Greenberg	Fix Segfault/Boundfault interaction
0804	A	10/08/74	B. Greenberg	Fix process page fault reporting
0803	A	10/08/74	S. Webber, B. Greenberg	Add sst name table to system

0802	A	10/08/74	P. Green	Emergency fix to exists active function
0801	P A	10/08/74 11/19/74	S. Herbst	Install send_mail_ subroutine
0800	A	10/08/74	S. Herbst	Enforce "rw" for message segments
0799	A	10/08/74	K. Pogran	Bug Fix in imp_input_processor
0798	A	10/08/74	S. Herbst	Fix bug in convert_binary_integer
0797	A	10/08/74	T. Casey	Fix bug in sys_full_report
0796	A	10/08/74	N. Morris	Modify Tape DIM to use I/O Interfacer
0795	A	10/08/74	N. Morris	Modify Card Reader and Card Punch DIMs to use I/O Interfacer
0794	A	10/08/74	R. Coren	Fix bug in "detach - attach" sequence for remote device driver
0793	A	10/08/74	G. Lewis	Update test_tape to handle MTS 500
0792	A	10/08/74	D. Levin	Clean up bound_math_
0791	A	10/08/74	S. Herbst	Installation of ms_create in bound_access_commands
0790	A	10/08/74	T. VanVleck	Add active function to dump ring zero
0789	A	10/08/74	M.J. Grady	Fix a bug in dn355\$get_devx
0788	A	10/08/74	M. Grady	Fix crecho but in tty_ctl
0787	A	10/08/74	D. Wells	Fix bug in "MAP" function of Network login protocol
0786	A	10/08/74	J. Whitmore	Change delete_ to work with the Access Isolation Mechanism
0785	A	10/08/74	T. VanVleck	Fix bugs in dprint
0784	A	10/08/74	S. Herbst	Enforce "rw" in mseg_access_
0783	A	10/08/74	M. Weaver	Fix bug in terminate_process_
0782	W	10/08/74	B. Silver	Deleting obsolete tape mount package code
0781	A	10/08/74	S. Herbst	Fix bug in delete_
0780	W	10/08/74	R. Coren	Change I/O Daemon Driver to allow input from Initializer console for remote device
0779	A	10/08/74	M. Grady	Change g115_DIM operator intervention condition
0778	A	10/08/74	M. Grady	Upgrade tty_dim to use loam_ detacher functions

0777	A	09/24/74	S. Herbst	Fix bug in message_segment_gate
0776	A	09/24/74	R. Mullen	Fix Reloader Bug
0775	A	09/24/74	S. Herbst	Rewrite ACL commands
0774	A	09/24/74	J. Phillips	Fix bug 327 in daily_summary_
0773	A	09/24/74	A. Kobzlar	Implement segment privilege in Access Misolation Mechanism
0772	A	09/24/74	S. Webber	Delete obsolete interfaces from hsc_
0771	A	09/24/74	S. Herbst	Fix bug in ring_zero_dump
0770	A	09/24/74	D. Wells	Reliability Improvements to NCP
0769	A	09/24/74	B. Silver	Add name to hphcs_
0768	A	09/24/74	A. Mason	Fix Multiple Argument Reference Security Holes
0767	A	09/24/74	R. Morrison	GCOS_Daemon
0766	W	09/17/74	S. Herbst	Rewrite ACL commands
0765	A	09/17/74	S. Herbst	Add "-fm" to list_ref_names
0764	A	09/17/74	S. Herbst	Fix bug in archive
0763	A	09/17/74	F. Smith	Bug fix to punch_MIT_deck
0762	A	09/17/74	F. Smith	Bug fix to system_monthly_report
0761	A	09/17/74	F. Smith	Bug fix to b_and_w
0760	A	09/17/74	J. Goldman	Fix bug in full_command_processor_
0759	A	09/17/74	B. Silver	Bug fix to tape_
0758	A	09/17/74	B. Silver	Operator's Console Recovery
0757	A	09/17/74	R. Barnes	Install bootstrapped pl1 compiler
0756	A	09/17/74	E. Stone	Fix bug in file aim
0755	A	09/17/74	A. Downing	Modifications to the ALM assembler
0754	A	09/17/74	S. Webber	Add meters to page control
0753	A	09/17/74	J. Stern	Message Segment Changes for the Access Isolation Mechanism
0752	A	09/10/74	G. Lewis	Addition of error file processing to the backup system
0751	A	09/10/74	E. Stone	Remove obsolete hardcore modules
0750	A	09/10/74	T. Casey	GCOS Installation Tools

0749	A	09/10/74	T. VanVleck	Add hardware support for PRU1200 printer
0748	A	09/10/74	T. VanVleck	New command to dump linkage section
0747	R	09/10/74	T. Casey	New control argument for indent command
0746	A	09/10/74	E. Stone	Remove multiple references to parameters in status_
0745	A	09/10/74	E. Stone	Add a storage system primitive to set the entry point bound of a segment
0744	A	09/10/74	M. Grady	Fix bug in g115_ DIM printer conversion routine
0743	A	09/10/74	T. VanVleck	Fix bug in abs bump operator command
0742	P A	09/10/74 10/08/74	M. Meer	Boundfault/Hardware Bug
0741	P W	09/03/74 09/24/74	S. Webber	Add tool print_gen_info to system
0740	W	09/03/74	S. Webber	Add meters to page control
0739	A	09/03/74	S. Webber	Submit correct version of tcm include file
0738	A	09/03/74	T. VanVleck	Add hardware support for PRT303 printer
0737	A	09/03/74	T. VanVleck	Fix bug in printer initialization
0736	A	09/03/74	R. Roach	Cleanup ACL on phcs_
0735	A	09/03/74	P. Kelley	Documentation for the new unbundled library
0734	A	09/03/74	S. Webber	Install tools print_translator_search_rules and set_translator_search_rules
0733	P A	08/03/74 09/10/74	J. Broughton	Probe
0732	A	09/03/74	J. Broughton	Modify stu_ to interpret IPT pointers
0731	A	09/03/74	S. Herbst	Fix bug in copy_names_
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_
0728	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 pl1_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 BOS 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 tocm_ 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 BOS 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 BOS 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
0707	A	08/13/74	T. Casey	New GCOS 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 BOS
0703	A	08/13/74	N. Morris	Fix Lockup Fault Problem in BOS
0702	A	08/13/74	N. Morris	Modify BOS to run with URMPG 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 hardware printer interface to prtadm_
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 A	08/06/74 08/13/74	S. Webber	Extend program interrupt mechanism
0685	A	07/30/74	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 A	07/30/74 10/08/74	G. Dixon	Install lex_string_ and reduction_compiler
0682	A	07/30/74	D. Kayden	Update BOS 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
0676	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 A	07/23/74 09/10/74	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 BOS 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
0656	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 pl1_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_dlm for MDS 2400
0638	A	07/11/74	A. Kobzlar	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 termination 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_pdmap"
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 hardware
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 BOS SALV
0625	P 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	07/02/74	S. Herbst	Report msf error with status command
	A	07/16/74		
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. Kobzian	Implement Security Attributes in Storage System, Part 2
0618	P	06/25/74	A. Kobzian	Implement Security Attributes in Storage System, Part 1
	A	07/02/74		
0617	A	06/25/74	S. Herbst	Implement the "-long" option with abc
0616	P	06/25/74	S. Herbst	adjust_bit_count on MSF's
	A	07/16/74		
0615	A	06/25/74	S. Herbst	Add entry msf_acl to copy_acl_
0614	P	06/25/74	S. Herbst	Fix bug in copy_seg_
	A	07/16/74		
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 GCOS 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 IOS "print_attach_table"
0605	A	06/18/74	M. Smith	Fix title parse in "attach_ioaname"
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. Kobzian	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 GCOS 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	BOS 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 W	06/18/74 10/15/74	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 debug 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	06/11/74	S. Herbst	Status command on msf's
	W	07/11/74		
0571	A	06/11/74	A. Kobzian	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 hardware 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

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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	gcps daemon root directory change
0540	A	05/28/74	N. Morris	Fix bug in BOS DUMP
0539	A	05/28/74	J. Homan	Minor bug fix in reset_use_totals
0538	A	05/28/74	N. Morris	Fix BOS RESTOR Problem
0537	R	05/28/74	S. Herbst	"-name" option with archive extract
0536	W	05/28/74	S. Webber	Collect hardware gate meters (summary only) in tc_data for spg use
0535	A	05/28/74	P. Haber	Message segment check for Bad Header Data
0534	P W	05/28/74 06/11/74	S. Barr	Delete all code to handle Version 1 object segments in debug
0533	P W	05/28/74 06/11/74	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 W	05/28/74 06/04/74	M. Grady	Implementation of a DIM for the TermiNet 1200
0524	A	05/21/74	M. Weaver	Handling out_of_bounds_ on stack
0523	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 BOS
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
0514	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 BOS SAVE and RESTOR commands
0510	A	05/21/74	R. Coren	Fix remote device driver for new g115_dlm interface
0509	A	05/21/74	D. Levin	Bug fix for lf 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 A	05/14/74 05/21/74	N. Morris	Change DN355 Interrupt Assignments
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 OCM
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. Kobzian	Improper ACL setting in Delete_
0499	A	05/14/74	A. Kobzian	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	mstras 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 BOS
0473	A	04/23/74	N. Morris	Modify BOS 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 BOS 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 BOS ABS command
0451	R	04/16/74	A. Kobzlar	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 contains 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 ttydm/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. Kobzian	Restore 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	03/26/74	B. Greenberg	Install print_paging_histogram

	W	04/02/74		
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 BOS 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 BOS 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	TTYDIA fixes
0409	A	03/19/74	N. Morris	Fix bugs in BOS 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 A	02/26/74 04/23/74	B. Greenberg	BOS compatibility changes for 618G cache
0374	P A	02/26/74 04/23/74	B. Greenberg	MST Generator and checker changes for cache
0373	P A	02/26/74 04/23/74	B. Greenberg	Cache Multics, single-cpu version

0372	A	02/26/74	N. Morris	Change BOS 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.(els_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 bac 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 stack subroutine
0353	A	02/19/74	N. Morris	Modify IOM 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 online 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
0323	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 IIT 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
0312	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. Kobzian	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
0302	A	01/26/74	P. Haber	Gate Macro Fix
0301	A	01/26/74	J. Hannigan	BOS 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 lps 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_dir
0287	A	01/22/73	A. Kobzian	Fix PL/1 Bug in Salv_Rebuild_Directory
0286	A	01/22/74	A. Kobzian	Fix Setacl to work with star convention
0285	W	01/22/74	R. Snyder	Flx 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. Kobzian	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. Frelburghouse	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/I 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 dlm'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	01/01/74	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. Snyder	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. Kobzian	Remove CACL's and segment "a" permission from salvager
0231	A	12/26/73	A. Kobzian	Checking author and bit_count author names for non-ascii in Salvager
0230	A	12/26/73	A. Kobzian	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 FTP 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	12/26/73	M. Padlipsky	neted: A Common Editor for the ARPA Network
	A	02/05/74		
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 BOS 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	gcoss_daemon bug fixes
0178	A	11/27/73	R. Mullen	Fix "all 5's" bug in full_ipc_
0177	A	11/27/73	N. Morris	Type message on printer error in BOS
0176	P A	11/27/73 12/04/73	M. Smith	Install "lox_" I/O interface (MSB-113)
0175	A	11/27/73	R. Mullen	BOS 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 gc05 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_astc_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_apr_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. Kobzian	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. Kobzian	Salvager emergency shutdown
0126	A	11/06/73	A. Kobzian	Remove null address dependence from Salvager
0125	A	11/06/73	A. Kobzian	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. Kobzian	Removal of active mode of salvaging
0116	A	10/30/73	M. Grady,	Add new order to teletype DIMS, e.g. tw_.

P. Green,
R. Coren 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 tin 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 to 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 IMP 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 BOS to be loaded from tape handler other than drive 0
0062	A	10/09/73	N. Morris	Install new BOS loader
0061	A	10/09/73	R. Mullen	scs_init to detect multiple interrupt cell assignments
0060	A	10/09/73	R. Snyder	Solution to hangup problem
0059	A	10/04/73	R. Mullen	bug fix to get_seg_ptrs
0058	A	10/04/73	R. Mullen	online_dump to process 256k segments
0057	A	10/04/73	R. Kanodia	Unlocking bug in the IMP-DIM
0056	A	10/04/73	M. Weaver	Changes to default system condition handler and signalling of PL/1 conditions
0055	A	10/04/73	M. Weaver	New stack and fault information routines
0054	A	10/04/73	R. Snyder	Bug fix to 355 software
0053	P 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 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 IO 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 (os) command
0027	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 IOM channel number
0009	P A	09/18/73 10/09/73	N. Morris	Modify BOS to handle tapes on the MTS-500
0008	P A	09/18/73 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
0007	P A	09/18/73 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

0006	A	09/18/73	N. Morris	Modify BOS to run with DSS-191 system
0005	A	09/18/73	N. Morris	Fix the lom_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