

PRODUCT RELEASE NOTICE

EUNICE™ BSD

RELEASE 4.3.2

EUNICE BSD RELEASE IDENTIFICATION

This is Wollongong's EUNICE BSD, Release 4.3.2. This release consists of the following items:

- This Product Release Notice.
- One 600-foot distribution tape (or, for a MicroVAX™, one TK50 cartridge).
- The new and updated documentation listed below:

Update pages for the UNIX® Programmer's Reference Manual
Update pages for the UNIX User's Reference Manual
Update pages for the UNIX Programmer's Supplementary Documents
Updated EUNICE BSD Reference Manual
Updated EUNICE BSD Administrator's Guide
Installation Document for this incremental release
Documentation Update Instructions for this incremental release

The distribution tape contains two save-sets. The files included in the save-sets are listed at the end of this release notice.

RELEASE NOTES

This release is an upgrade to the previous major release of EUNICE BSD 4.3.1. This new EUNICE BSD 4.3.2 incremental release is further enhanced by the following features:

1. Many recent Modification Requests (MRs) have been resolved (see closed MR summary).
2. EUNICE BSD now supports the Revision Control System (RCS).

ADDITIONAL NOTES

1. There are no modifications to the REX™.
2. *m3270* now supports VM/XA SP1.

INSTALLATION

See the Installation Document for this incremental release for installation procedures.

UNRESOLVED ISSUES

1. In a cluster environment, EUNICE utilities do not recognize temporary filenames with extended PIDs.
2. EUNICE BSD does not support LTAs or VTAs properly.
3. *f77* does not create VMS-style objects.
4. The *cs*h *umask* command causes the delete bit to be set in the VMS file permissions mask. When no *umask* is specified in the *.login* file, the default VMS™ protection is used for file creation.

MRs CLOSED FOR RELEASE 4.3.2

MR#	SUMMARY
0010	<i>calendar</i> did not send any mail to users.
0344	<i>finger</i> did not give the correct <i>tty</i> .
0761	<i>lprm</i> , <i>lpq</i> , and <i>vlpr</i> man page entries were rewritten.
0790	<i>time</i> command always returned 0.0 for the system (CPU) time.
1046	"
0859	The <i>ps -ua</i> command gave a total amount of physical memory greater than 100%.
0882	Created a command <i>filetype</i> that tells you whether you are viewing
1041	a UNIX format file or a VMS format file.
0887	The <i>ps</i> command put the <i>tty</i> name in VMS format.
0917	Ported RCS to EUNICE BSD.
0920	Made the EUNICE BSD documentation much more descriptive of potential problems with the file naming conventions.
0923	When the VMS-style object was used, <i>vmsld</i> was unable to use the shareable library.
0924	Corrected the definition of <i>BLKDEV_IOSIZE</i> in the <i>param.h</i> .
0925	Trigonometric functions were not included in <i>/usr/lib/libm.a</i> , <i>/usr/lib/libm_p.a</i> , and <i>/usr/libvms/libm.olb</i> .
0936	The files in <i>/usr/skel</i> were not consistent with the documentation.
0945	"
0937	"
0942	"
0943	"
0931	The truncation of filenames to 15 characters in the internal <i>ar</i> table was not documented in <i>ar</i> .
0932	Modified <i>eunlogin</i> to only add the user to the global section.

- 0933 Created the command *mailinfo* that can be run from LOGIN.COM to tell the user that they have received UNIX mail.
- 0934 *wintcp.csh* contained the wrong link for *rlogin*.
- 0938 Usage of *dot* in *Mail* was unclear in the documentation.
- 0939 Modified the documentation of *Mail* to show the use of CTRL Z.
- 0948 Implemented the ability to redirect output or to use a pipe with the *vms* command.
- 0952 When *test* was used with too many arguments, a stack dump appeared.
- 0956 *touch* no longer adds a second line to one-line files.
- 0957 */usr/skel/README* provides the user with details on how to get the *LOGIN.COM*, *.login*, *.cshrc*, and other files.
- 0960 *ps* did not support extended UICs properly.
- 0963 The *Mail* command did not clean */tmp* files.
- 0965 */usr/libvms/libterm.lib.olb* was not linked to */usr/libvms/libtermcap.olb*.
- 0966 The output of *time* was broken.
- 0967 When using *-S* or *-c*, options with *cc* or *f77* compilers, the output files **.s* or **.o* were always owned by the system.
- 0968 *vmsas* did not recognize the *-J* option.
- 0973 Any user can now write to */usr/spool/at*.
- 0976 Fixed the documentation for *cc* by removing the *-vobj* note.
- 0977 Fixed the proper names for the "Logical Name Table Size Limits" in the *EUNICE BSD Administrator's Guide*.
- 0978 The hashing feature of *find(1)* was implemented and the man pages modified.
- 0979 The *Mail* command failed with repeated use.
- 0981 The file *TWG\$USR:[LIBVMS]SHARE.OPT* was missing.

- 0982 */usr/ucb/Mail* bypassed file protection when mail was sent to a protected file.
- 0983 A syntax error was corrected in */etc/eunice/ranlib.csh*.
- 0984 Added *version* utility to supply version number of EUNICE BSD software at user level.
- 0989 */usr/eun/unixtovms* did not work when called from VMS.
- 0993 *learn* lessons for *vi* and *files* were not working.
- 0997 Replaced *ed* with *ex* in *adduser.csh* which caused a problem when handling large files.
- 0998 Removed the line `$ DELETE TWG$USR:[LIB.LEARN.PLAY]MON.OUT;*` from RC.COM.
- 1003 Updated the manual page of *ln* to support only *ln -s*.
- 1006 *mv* sometimes failed when used with symbolic links.
- 1008 Problem with *at(1)* was corrected.
- 1013 Filename completion was not supported in *csh(1)* as documented in *csh(1)*.
- 1017 Executing *login* commands from *cshell* no longer causes access violation.
- 1018 *eunlogin* hung if there was an error in the configuration of the WIN/TCP for VMS nameserver database.
- 1026 *rename(2)* correctly renames all linked files.
- 1028 *tn3270* now supports VM/XA SP1.
- 1045 *login* is now only allowed from DCL.

UNRESOLVED UNIX UTILITIES MRs

MR#	SUMMARY
0282	<i>dd(1)</i> always uses a block size of 512.
0901	<i>read(2)</i> and <i>write(2)</i> do not correctly handle variable length files.
0951	EX3.7PRESERVE does not move appropriate files to the <i>/tmp</i> directory.
0962	<i>vi</i> cannot handle record sizes larger than 512 bytes.
0975	<i>prs</i> from empty directory caused directory to be removed.
1012	Using multiple delete characters in <i>vi</i> causes input read error.
1020	<i>f77</i> is not working properly.
1022	<i>prs</i> does not work if directory name is specified.
1023	<i>-exec</i> option of <i>find</i> does not work.
1039	<i>rsc</i> creates multiple VMS versions.
1049	<i>spellin</i> and <i>spellout</i> are unable to update the dictionary database.
1050	<i>catman(8)</i> sometimes failed when trying to process a large number of files.
1051	<i>f77</i> creates ".o" file with no read or write permissions.
1052	Need to merge WIN/TCP <i>finger</i> network and EUNICE <i>finger</i> .
1062	<i>pi</i> and <i>pix</i> interpreters do not work.
1068	<i>yacc</i> fails with message <i>"/tmp/fnm not found"</i> in a cluster environment.
1081	<i>last -N</i> option does not report the number of lines specified.
1087	<i>troff</i> has not been implemented for Versatec printers.
1088	The <i>cron</i> daemon does not work for multiple commands issued at one time.

UNRESOLVED SHELL MRs

MR#	SUMMARY
0082	A directory should not contain a file and a subdirectory with the same name.
0162	Without read permission on a file, <i>stat(2)</i> returns -1.
0290	Background processes terminate at logout.
0291	Core dump does not abort but loops if <i>write</i> to disk fails.
0335	Alter <i>read(2)</i> to permit read from <i>/dev/tty</i> (not login terminal).
0443	Pipe to <i>more(1)</i> does not work correctly.
0835	Hyphens are not allowed as a legal character in a filename.
0884	EUNICE database may not be updated when people improperly disconnect terminal sessions.
0999	<i>write(1)</i> allows messages to terminal after user logs off.
1000	Job is not interruptable after process table fills up.
1001	EUNUSERS.GBL not updated when user is logged out by <i>kill</i> .
1021	<i>/bin/passwd</i> does not work properly.
1048	SET TERM characteristics are not restored properly in <i>vi</i> from VMS.
1057	\$\$ from Bourne shell produces string containing vertical tab.
1058	Mapping fails in <i>sh</i> when using Bourne shell on single node of cluster.

UNRESOLVED VMS INTERFACE MRs

MR#	SUMMARY
0376	EUNICE BSD should limit process creation to take VMS resources into account.
0762	VMS symbols are not passed to sub-processes.
0838	EUNICE BSD utilities using <i>exec</i> do not understand ACLs.
0873	Filenames that exceed 39.39 lowercase characters are hashed.
0961	VMS does not allow directories with more than 8 levels.
0994	Modify EUNICE BSD to support VMS LTAs.
1083	<i>ls</i> truncates last character of a filename that ends with two question marks.
1086	Fixed length 4096 byte files handled improperly.
1091	<i>cvtuaf</i> cannot translate rooted file specifications.

UNRESOLVED MISCELLANEOUS MRs

MR#	SUMMARY
1025	<i>write</i> creates extra character on second line.
1027	<i>read(2)</i> gives error for files longer than 512 bytes.
1042	If the include file is symbolic link, <i>cc</i> will not find the file.
1047	<i>flock</i> needs SYSLCK privilege.
1054	Add <i>vmssystem(3)</i> to <i>libc</i> .
1056	<i>cc</i> compiler aligns structure fields on word boundaries.
1063	VMS date interface does not recognize DST_FLAG logical name.

- 1069 *ADDUSER.COM* shows successful run even when it fails.
- 1075 *who* does not include users that used *rlogin* to access EUNICE BSD.
- 1076 *lisz* does not work when using the *-r* option.
- 1085 Library routines *open* and *stat* assume undefined file type for symbolic linking.
- 1089 The *PROT.COM* file does not yet know the correct sizes and protections for directories in the UNIX hierarchy.

UNRESOLVED DOCUMENTATION MRs

- | MR# | SUMMARY |
|------|--|
| 0083 | Documented the format of <i>/usr/spool/mail/\$user</i> . |

UNRESOLVED ENHANCEMENT REQUEST MRs

- | MR# | SUMMARY |
|------|--|
| 0151 | Integrate high speed shared files. |
| 0955 | The tilde rule that is available in System V <i>make</i> is not available in EUNICE BSD. |
| 1090 | Implement the mm macro package. |

PRODUCT CONTENTS

Here are the files that are included in this incremental release of EUNICE BSD.

\$COPYRIGHT.;	1	[USR.EUN]VMSAS.;	1
[BIN]AS.;	1	[USR.EUN]VMSLD.;	2
[BIN]CC.;	1	[USR]INCLUDE.DIR;	1
[BIN]CHGRP.;	1	[USR.INCLUDE]SYS.DIR;	1
[BIN]CSH.;	1	[USR.INCLUDE.SYS]PARAM.H.;	1
[BIN]LOGIN.;	1	[USR]LIB.DIR;	1
[BIN]MV.;	1	[USR.LIB]CRONTAB.;	1
[BIN]PS.;	1	[USR.LIB]LEARN.DIR;	1
[BIN]TEST.;	1	[USR.LIB.LEARN]EQN.DIR;	1
[BIN]TIME.;	1	[USR.LIB.LEARN.EQN]\$I\$NIT.;	1
[ETC]EUNICE.DIR;	1	[USR.LIB]LIBM.A.;	1
[ETC.EUNICE]ADDUSER.CSH;	1	[USR.LIB]LIBM_P.A.;	1
[ETC.EUNICE]ATRUN.COM;	1	[USR.LIB]RDIFF.;	1
[ETC.EUNICE]CSHELL.COM;	1	[USR.LIB]RDIFF3.;	2
[ETC.EUNICE]EUNLOGIN.EXE;	1	[USR]LIBVMS.DIR;	1
[ETC.EUNICE]EUNLOGOUT.EXE;	1	[USR.LIBVMS]LIBM.OLB;	1
[ETC.EUNICE]LOGIN.EXE;	1	[USR.LIBVMS]LIBTERMCAP.OLB;	1
[ETC.EUNICE]LOGOUT.EXE;	1	[USR.LIBVMS]SHARE.OPT;	1
[ETC.EUNICE]RANLIB.CSH;	1	[USR]SKEL.DIR;	1
[ETC.EUNICE]SHELL.COM;	1	[USR.SKEL]\$README.;	1
[ETC.EUNICE]WINTCP.CSH;	1	[USR.SKEL].CSHRC;	1
[USR]BIN.DIR;	1	[USR.SKEL].EXRC;	1
[USR.BIN]AT.;	1	[USR.SKEL].LOGIN;	1
[USR.BIN]CALDR.;	1	[USR.SKEL].MAILRC;	1
[USR.BIN]CALENDAR.;	1	[USR.SKEL].PROFILE;	1
[USR.BIN]CI.;	2	[USR.SKEL]CSHRC.CSH;	1
[USR.BIN]CO.;	1	[USR.SKEL]EXRC.CSH;	1
[USR.BIN]IDENT.;	2	[USR.SKEL]LOGIN.CSH;	1
[USR.BIN]LEARN.;	1	[USR.SKEL]MAILRC.CSH;	1
[USR.BIN]MERGE.;	1	[USR.SKEL]PROFILE.SH;	1
[USR.BIN]RCS.;	2	[USR]UCB.DIR;	1
[USR.BIN]RCSDIFF.;	1	[USR.UCB]\$M\$AIL.;	1
[USR.BIN]RCSMERGE.;	1	[USR.UCB]FINGER.;	1
[USR.BIN]RLOG.;	1	[USR.UCB]TN3270.;	1
[USR.BIN]TC.;	1		
[USR.BIN]TOUCH.;	1		
[USR]EUN.DIR;	1		
[USR.EUN]FILETYPE.;	1	[MAN]MAN1.DIR;	1
[USR.EUN]LPQ.;	1	[MAN.MAN1]AT.1;	1
[USR.EUN]LPRM.;	1	[MAN.MAN1]CC.1;	1
[USR.EUN]MAILINFO.;	1	[MAN.MAN1]CI.1;	1
[USR.EUN]UNIXTOVMS.;	1	[MAN.MAN1]CO.1;	1
[USR.EUN]VERSION.;	1	[MAN.MAN1]CSH.1;	1
[USR.EUN]VMS.;	1	[MAN.MAN1]CVTBACKUP.1;	1

[MAN.MAN1]EUNLOGIN.1;1
[MAN.MAN1]EUNLOGOUT.1;1
[MAN.MAN1]FILETYPE.1;1
[MAN.MAN1]FIND.1;1
[MAN.MAN1]FINGER.1;1
[MAN.MAN1]IDENT.1;1
[MAN.MAN1]LN.1;1
[MAN.MAN1]LOGIN.1;1
[MAN.MAN1]LPQ.1;1
[MAN.MAN1]LPR.1;1
[MAN.MAN1]LPRM.1;1
[MAN.MAN1]MAIL.1;1
[MAN.MAN1]MAILINFO.1;1
[MAN.MAN1]MERGE.1;1
[MAN.MAN1]PS.1;1
[MAN.MAN1]RCS.1;1
[MAN.MAN1]RCSDIFF.1;1
[MAN.MAN1]RCSMERGE.1;1
[MAN.MAN1]RLOG.1;1
[MAN.MAN1]TIME.1;1
[MAN.MAN1]TOUCH.1;1
[MAN.MAN1]VERSION.1;1
[MAN.MAN1]VMS.1;1
[MAN]MAN5.DIR;1
[MAN.MAN5]AR.5;1
[MAN.MAN5]RCSFILE.5;1
[MAN]MAN8.DIR;1
[MAN.MAN8]VIPW.8;1

