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WINTER/SPRING 1991



# DECUS LIBRARY



## Software Catalog Update

*“Solving Your Everyday Problems”*

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DATATRIEVE	FOCAL	MINC	RSTS/E	ULTRIX
DEC	GAMMA-11	OS/8	RSX-11M	ULTRIX-RISC
DECmail	GIGI	P/OS	RSX-11M-PLUS	UNIBUS
DECmate	IAS	PDP	RSX-11S	VAX
DECmate II	KI	PDT	RT	VMS
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DECSYSTEM-20	LN03	PROSE	RX02	WPS-8
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## **Welcome to the DECUS Library Catalog Update !**

**In this update...**You'll find useful information about the Library's new submissions and some of its more popular packages. Choose from a wide selection of contributed software to help solve your everyday problems.

**Looking for software on CDROM?...**The DECUS Library CDROM Series contains SIG tapes and other valuable software collections. The CDROMs contain backup savesets that have been restored to disk, and files that have been decompressed and unarchived wherever possible. See page 1 for a description of the CDROMs currently available.

**The first ULTRIX/RISC - specific items are available. ...**Four submissions for software ported to DECstations and DECsystems are described on pages 10 and 11.

**And there's more !...**Pages 24 and 25 contain the complete list of new and revised programs since the full catalog was printed in July 1990. If you need additional information about an item, call the DECUS Library at 508-841-3389.

**Your programs are needed...**Help other users solve their everyday software problems. Contribute your program to the DECUS Library by using the submittal form at the back of this catalog.

**Order from the Library - support DECUS! ...**The DECUS Library is one of the largest clearing houses for public domain software. By ordering from the Library you're able to get good software for a reasonable fee, and you're supporting DECUS at the same time.

## DECUS 1990/1991 U.S. CHAPTER SERVICE CHARGES (Price List)

These Prices Are Effective July 1, 1990 through June 30, 1991

Media (Service Charge Codes) are included with each program abstract in the DECUS Software Catalog. To determine the service charge for the media supplied for a particular program use the table below. For example, the service charge for a 600' Magtape (MA) is \$35.00. These service charges apply within the United States only.

SERVICE CHARGE CODES	SERVICE CHARGE (\$)	SERVICE CHARGE CODES	SERVICE CHARGE (\$)
WRITE-UPS		5 1/4" FLOPPY DISKETTES (RX50) (cont.)	
(AA)	5	(JE)	35
(AB)	10	(JI)	55
(AC)	15	(JL)	85
(AD)	25	(JP)	115
(AE)	40	(JS)	35
(AF)	55	8" FLOPPY DISKETTES (RX01)	
LISTINGS		(KA)	25
(BA)	5	(KB)	30
(BB)	10	(KC)	35
(BC)	15	(KD)	40
COMPACT DISCS		8" FLOPPY DISKETTES (RX02)	
(CD)	100	(LA)	25
COMBINED WRITE-UP/LISTINGS		(LB)	30
(DA)	5	(LC)	35
(DB)	10	(LD)	40
(DC)	15	600' MAGNETIC TAPES (1600 BPI)	
(DD)	25	(MA)	35
MANUALS		(MC)	55
(EA)	5	(MS)	55
(EB)	10	2400' MAGNETIC TAPES (1600 BPI)	
(EC)	15	(PA)	70
(ED)	25	(PB)	140
(EE)	40	(PC)	120
(EF)	55	(PD)	150
(EG)	65	(PS)	120
(EK)	240	2400' MAGNETIC TAPES (6250 BPI)	
5 1/4" FLOPPY DISKETTES (RX18)		(SB)	130
(IA)	15	(SD)	140
(IB)	20	TK50 TAPE CARTRIDGES	
5 1/4" FLOPPY DISKETTES (RX50)		(TA)	55
(JA)	15	(TB)	130
(JB)	20	(TC)	120
(JC)	25	(TD)	140
(JD)	30		
ADD POSTAGE AND HANDLING		Total Service Charge Amount	SERVICE CHARGE (\$)
		\$ 1 to \$ 50	\$ 2
		\$ 51 to \$200	\$ 8
		Over \$200	\$12

Any overpayment of Library orders of ten dollars (\$10.00) or less will be refunded only upon request.



# DECUS LIBRARY ORDER FORM

M91

The DECUS Library is a Clearing House ONLY. It Does Not Generate or Test Programs;  
ALL PROGRAMS and INFORMATION are Provided "AS IS."

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	Rec'd
	Processed by
	Invoice <input type="checkbox"/> Yes <input type="checkbox"/> No

DECUS No.		CHECK ONE: <input type="checkbox"/> MASTER CARD <input type="checkbox"/> VISA <input type="checkbox"/> DINERS CLUB/CARTE BLANCHE® <input type="checkbox"/> AMERICAN EXPRESS	
Name		NUMBER	
Company		□□□□□□□□□□□□□□□□	
Ship To Address (Do not use P.O. Box No.)		EXPIRATION DATE: _____	
		CARDHOLDER SIGNATURE: _____	
		<b>\$25.00 minimum on all charge card orders.</b>	
		<b>DIGITAL EMPLOYEES ONLY</b>	
		CC Number	
City	State	Zip	CC Mgr. Name
Telephone No.	P.O. No./Check No.		CC Mgr. Badge No.
Date Ordered		CC Mgr. Signature	

Line	Qty	Program Number	Media (Service Charge Codes) (up to 3 per line)	Service Charge Amount (\$)

Orders for less than \$25.00 must be prepaid by check or money order. Other payment will not be accepted. Purchase orders will only be accepted for orders of \$75.00 or more.	Total Service Charge
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333 South Street, SHR1-4/D31  
Shrewsbury, MA 01545-4112

# DECUS LIBRARY ORDER FORM

## HOW TO ORDER:

To place a Library order with DECUS you **MUST** send in a completed and SIGNED DECUS Library Order Form with ALL orders. To place a Library order over the telephone see "Charge Orders" below.

Reference and prices should be made to the **CURRENT** 1990/1991 DECUS Library Software Catalog, effective from July 1, 1990 through June 30, 1991 .

## HOW TO PAY:

Postage and Handling charges **MUST** be included on all orders.

## PREPAID ORDERS:

- A personal check, money order, or company check made payable to DECUS will be accepted.
- A completed DECUS Library Order Form **MUST** be sent in with your payment.

## COMPANY PURCHASE ORDER:

- A company purchase order will be accepted only if the total amount of the order is **\$75.00** or more.
- The **ORIGINAL** purchase order must be signed by the authorized persons.
- The company purchase order **MUST** be accompanied by a completed DECUS Library Order Form.
- No company purchase orders will be accepted over the phone.

## CHARGE ORDERS:

- DECUS will accept Master Card, VISA, Diners Club/Carte Blanche® or American Express for orders totalling **\$25.00** or more.
- The Card Number, Expiration Date and Signature are **REQUIRED** and must be included on the DECUS Library Order Form.
- Charge orders also accepted via telephone: (508-841-3500/3502/3511)

Please do not combine DECUS orders with Digital Equipment Corporation orders since DECUS Library Order Processing and Accounting Department are completely separate from Digital Equipment Corporation. Digital field personnel should not be requested to place a DECUS order for you. This may delay a direct response from DECUS.

## WHO TO CONTACT:

DECUS Membership/Ordering Information (508-841-3511/3502/3500)

Orders and related correspondence should be sent to:

DECUS  
LIBRARY ORDER PROCESSING  
333 South Street, SHR1-4/D31  
Shrewsbury, MA. 01545-4112

# CDROM

## DECUS CDROM Collection 7 Version: Fall 1990

Submitted by: Jack Stevens and Frank Bush

**Operating System:** VAX/VMS **Source Language:** Various  
**Hardware Required:** VAX system equipped with RRD40 or RRD50  
Compact Disc Reader **Keywords:** Symposia Tapes - VMS, Symposia Tapes -  
L & T, CDROM, Tex, DECUServe, DATATRIEVE

**Abstract:** This CDROM contains the following collections:

- The Spring 1990 VAX/L&T SIG Tape, Part 1 of 2, New Orleans, DECUS No. VS0118
- The Spring 1990 VAX/L&T SIG Tape, Part 2 of 2, New Orleans, DECUS No. VS0119
- DECUServe VAXnotes Conferences, April 1990, DECUS No. VS0104
- Tex Collection, August 1990, DECUS No. VS0058
- AI SIG Tape, Spring 1990
- DATATRIEVE/4GL SIG Tape, Spring 1990
- DECUS Library Catalog

**Notes:** This CDROM, which comes in a jewel box case, is readable by any VAX system equipped with a Digital Equipment RRD40 or RRD50 Compact Disc Reader. The RRD40 will require a caddy for inserting this disc into the drive. Documentation may or may not be on disc. Complete sources may or may not be included.

DECUS No. VS0121

**Media (Service Charge Code):** Compact Disc (CD)

## DECUS CDROM Collection 6 Version: Spring 1990

Submitted by: Jack Stevens

**Operating System:** VAX/VMS **Source Language:** Various  
**Hardware Required:** VAX system equipped with RRD40 or RRD50  
Compact Disc Reader **Keywords:** DATATRIEVE, Symposia Tapes - RSX-  
11, Symposia Tapes - VMS, Symposia Tapes - L & T, CDROM

**Abstract:** This CDROM contains the following collections:

- DECUServe VAXnotes Conferences, DECUS No. VS0104
- DATATRIEVE/4GL SIG Tape, Fall 1989, DECUS No. VS0059
- The Fall 1989 L&T SIG Tape, Anaheim, DECUS No. VS0105
- The Fall 1989 RSX SIG Tape, Anaheim, DECUS No. VS0111
- The 1989 RSX SIG Tape from Europe
- The Fall 1989 VAX SIG Tape, Anaheim, DECUS No. VS0106
- X Windows Clients & Demos for VMS, DECUS No. VS0100
- X Windows, Version 11, Release 4

**Notes:** This CDROM, which comes in a jewel box case, is readable by any VAX system equipped with a Digital Equipment RRD40 or RRD50 Compact Disc Reader. The RRD40 will require a caddy for inserting this disc into the drive. Documentation may or may not be on disc. Complete sources may or may not be included.

DECUS No. VS0114

**Media (Service Charge Code):** Compact Disc (CD)



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# VAX LIBRARY COLLECTIONS

## The VAX Library Collection 13 Version: 1990/1991

Keywords: Library Tapes - VMS

**Abstract:** The VAX Library Collection 13 contains the following programs. The dates of these submissions are from May 1989 to May 1990. For a complete description of each program refer to the "DECUS NO." and "TITLE" in the DECUS Library catalog.

DECUS NO.	TITLE
V00454	LAT App. Port Manip. Routines
V00455	PROTEC
V00456	GAMES - Utilities and Monitor
V00457	STP-Setpoint's Text Processor
V00459	Sorting Benchmarks
V00460	TTP: Terminal Transfer Program
V00461	Animated Sorting Algorithms
V00462	CD_ACCESS
V00463	X11TEK
V00464	LOOK-A BASIC Language File Browser
V00465	TEKED
V00467	QMAN
V00468	RESETV
V00469	POSE
V00470	Check Passwords
V00471	HPCALC
V00472	MASTERMIND
V00473	SOD
V00474	SOFT_FONT
V00475	Placard Display
V00476	Cross_Help
V00477	SQUEEZER
V00478	CEDIT
V00479	FORMS ACCTG. AND ACCTG. TOOLS
V00480	Problem Reporting System
V00484	Blocked PID Locator
V00485	NEWSRDR
V00486	WATCHER
V00487	Misc. VMS Utilities

Release notes distributed with each order. Documentation may or may not be on magnetic media. Complete sources may or may not be included.

### DECUS No. VL0013

**Media (Service Charge Code):** User's Manual (ED), 2400' Magnetic Tape (PC), TK50 Tape Cartridge (TC) Format: VMS/BACKUP

## The VAX Library Collection 12 Version: 1990/1991

Keywords: Library Tapes - VMS

**Abstract:** The VAX Library Collection 12 contains the following programs. The dates of these submissions are from February 1989 to February 1990. For a complete description of each program refer to the "DECUS NO." and "TITLE" in the DECUS Library catalog.

DECUS NO.	TITLE
V00431	Image Analysis
V00432	Finger for VMS
V00433	ASU Utilities
V00434	SRS-Symposium Registration System
V00435	WHALES
V00436	VAXDASH
V00438	CALENDAR
V00439	PROFILE
V00442	Lawrence University Tape Utilities
V00443	LSE for Ingres Osl and SQL Languages
V00444	FIBA - File Batch Generator
V00445	Text Formatter for LN03 Printer
V00446	DOS 2 VAX High BIT ASCII Character Translator
V00447	REPORT_USAGE.FOR
V00448	VMS Show Files
V00449	Terminator
V00450	SDMENU
V00451	DECserver-Print Queue
V00452	SIT System Software
V00453	XEVE Spelling Checker

Release notes distributed with each order. Documentation may or may not be on magnetic media. Complete sources may or may not be included.

### DECUS No. VL0012

**Media (Service Charge Code):** User's Manual (ED), 2400' Magnetic Tape (PC), TK50 Tape Cartridge (TC) Format: VMS/BACKUP

# VAX LIBRARY COLLECTIONS

## The VAX Library Collection 11 Version: 1990/1991

Keywords: Library Tapes - VMS

**Abstract:** The VAX Library Collection 11 contains the following programs. The dates of these submissions are from January 1988 to September 1989. For a complete description of each program refer to the "DECUS NO." and "TITLE" in the DECUS Library catalog.

DECUS NO.	TITLE
V00400	MULTIVAR
V00401	UNO and Others
V00402	HLM_HELP Library Maintenance
V00403	OTHELLO
V00404	SLSREQUEUE
V00405	LN03R.ACL
V00406	FASTER
V00407	VPROG
V00408	Space Telescope Tools Group
V00410	VAX BASIC Toolkit of Useful Callable Functions
V00412	MINT
V00413	REMTAB
V00414	QMASTER and DOWN
V00415	MAILVIEW
V00416	MDRAW
V00417	FORTRANUM
V00418	LISTFILE
V00419	SEQUENCE
V00420	STSI - Misc Utilities
V00422	FLINT - IBM Floppy Interchange Program
V00423	Kronos
V00424	FLECS: FORTRAN Language with Extended Control Structures
V00425	LASERS, QUEUES and Other Fun Things
V00426	VAX to PPS
V00427	TIMESHEET.COM
V00428	PQ Printer Utility
V00429	Encryption Routine
V00430	Terminal Server/Port Display

Release notes distributed with each order. Documentation may or may not be on magtape media. Complete sources may or may not be included.

DECUS No. VL0011

**Media (Service Charge Code):** User's Manual (ED), 2400' Magnetic Tape (PC), TK50 Tape Cartridge (TC) Format: VMS/BACKUP

## The VAX Library Collection 10 Version: 1990/1991

Keywords: Library Tapes - VMS

**Abstract:** The VAX Library Collection 10 contains the following programs. The dates of these submissions are from September 1987 to January 1989. For a complete description of each program refer to the "DECUS NO." and "TITLE" in the DECUS Library catalog.

DECUS NO.	TITLES
V00361	GO
V00362	XDELETE
V00363	CPUCHECK
V00366	HEC PACK
V00367	BOPT
V00368	Uniform Random Numbers and DCL Symbols
V00369	Submitting Batch Jobs From a FORTRAN Program
V00370	Electronic Bulletin Board Service
V00371	FCD
V00372	A FORTRAN Useropen Routine to Mark a File/NOBACKUP
V00373	Tickler
V00374	APLTPU - Schlumberger Extended EDT Emulator
V00375	Space Telescope Collection
V00377	VT100 Graphics Editor
V00378	XMAIL: VAX/VMS Mail Utility Enhancements
V00379	MAILUAF
V00380	HP_2000 VAX Support Files
V00381	DL FIX Utility
V00382	VAX-TO-VAX Migration Tools
V00383	Flowchart Generator
V00384	System Notice Utility
V00385	EDX Editor
V00386	UH/UM/UT Device Drivers for VMS
V00387	TPUPlus
V00388	Kitbuild
V00389	Printmaster
V00390	HogWatch
V00391	Development of Large Applications Using VAX DATATRIEVE
V00392	GOTHIC
V00393	TAPEIBM
V00394	KEYS
V00395	LOCKOUT
V00396	EVEDT
V00398	TOPICLIST and PARAMETER
V00399	DVI2PS

Release notes are distributed with each order. Documentation may or may not be on magnetic media. Complete sources not included.

DECUS No. VL0010

**Media (Service Charge Code):** User's Manual (ED), 2400' Magnetic Tape (PC), TK50 Tape Cartridge (TC) Format: VMS/BACKUP



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# SYMPOSIUM COLLECTIONS

*Symposium Collection from the  
VAX/Languages and Tools SIG,  
Part 2 of 2, Fall 1990, Las Vegas  
Version: December 1990*

Author: Various

Submitted by: Glenn Everhart & Ted Nieland

Operating System: VAX/VMS Keywords: Symposia Tapes - VMS

**Abstract:** This is Part 2 of 2 of the VAX/Languages and Tools SIG tape from the Fall 1990 DECUS Symposium in Las Vegas. Refer to DECUS No. VS0124 for Part 1 of the VAX/Languages and Tools SIG Tape. Users are advised to order both tapes in order to have the complete set. The tapes from the VAX and L&T SIG's were combined to reduce duplications between the two collections.

The following is a brief summary of highlights.

## 90BVAXLT

This directory tree contains the index files and a description of the collection plus a [TOOLS] subdirectory containing utilities needed to decompress or unpack some of the packed items contained here.

## DECUSLIB

This directory tree contains complete machine readable text of the DECUS Library catalog, plus all available machine readable descriptions of older material not in print in the current catalog.

## LT90B

- [.EPOCH] EPOCH - extension of GNU Emacs for X windows.
- [.GCE90B.PAWS] Graphical access to lots of machines from your AMIGA (displays for VAX/VMS and Sun included).
- [.GNUSOFTWARE] GNU software since Spring 1990 tape, including new versions of BISON, CVS (Concurrent Vers. Sys), Emacs EDT emulation, FIND, FLEX, GAS GhostScript 2.0 (Postscript clone), GROFF, ISPELL, PERL 3.0, VMS LIBG++.
- [.GPLOT] Library of High Level Graphics Routines for GKS.
- [.M2VAX] MODULA2 compile for ULTRIX/VAX (from GATEKEEPER.DEC.COM).
- [.M3] MODULA3 compiler from GATEKEEPER.DEC.COM.
- [.MOTIF] Some MOTIF example code.
- [.MPLOT] MDRAW, Mplot - draw/plot programs for ReGIS terminals.
- [.SMALLTECO] Small TECO editor sources for UNIX like systems.

**Note:** The abstract for this collection was not complete at the time of publication.

Documentation may or may not be on magnetic tape. Complete sources may or may not be included.

DECUS No. VS0125

**Media (Service Charge Code):** 2400' Magnetic Tape (PD), 2400' Magnetic Tapes (SD), TK50 Tape Cartridge (TD) **Format:** VMS/BACKUP

*Symposium Collection from the  
VAX/Languages and Tools SIG,  
Part 1 of 2, Fall 1990, Las Vegas  
Version: December 1990*

Author: Various

Submitted by: Glenn Everhart & Ted Nieland

Operating System: VAX/VMS Keywords: Symposia Tapes - VMS

**Abstract:** This is Part 1 of 2 of the VAX/Languages and Tools SIG tape from the Fall 1990 DECUS Symposium in Las Vegas. Refer to DECUS No. VS0125 for Part 2 of the VAX/Languages and Tools SIG Tape. Users are advised to order both tapes in order to have the complete set. The tapes from the VAX and L&T SIG's were combined to reduce duplications between the two collections.

The following is a brief summary of highlights.

## 90BVAXLT

This directory tree contains the index files and a description of the collection plus a [TOOLS] subdirectory containing utilities needed to decompress or unpack some of the packed items contained here.

## DECUSLIB

This directory tree contains complete machine readable text of the DECUS Library catalog, plus all available machine readable descriptions of older material not in print in the current catalog.

## VAX90B

- [.4GL] DTR/4GL SIG Collection.
- [.ANTIVIRUS] Anti-Viral programs for AMIGA, Mac, PC.
- [.BASILIER] User Written Services for checking files access Grant/ revoke Security Identifiers.
- [.BRIAN-JIM] Laser symbiont etc.
- [.BULLETIN] Latest Bulletin conferencing/bulletin board messaging system.
- [.BZL] SMG samples in C, UNMESSAGE, ERLANG.
- [.CKER] Update to windowing C KERMIT for VMS. Submitted by Collette Yanisov.
- [.DECUS\_FRANCE] Large collection from DECUS France including draw programs, Postscript plot and document utils, sys load graphs over 24 hrs, DVIPS, Less for ULTRIX, REMINDER PSICOPY, BECOME, BENCHMARKS, FILE compress, KERMIT with script language, idle terminal monitor.
- [.DELIVER] Mail delivery agent, updated for latest VMS.
- [.DEMAX] Session notes and example program for the session "Known Files: The Internals of INSTALL".
- [.DNORTH] Utility Library: DO, CD, DSF, Enter, PRV, RMVFIL, LOGIN.COM replacement, SETDATE, UWDIMGSTA (forces images to run /debug).
- [.DWP] DWProfile - UAF report util.
- [.ETAPE] ETAPE - EBCDIC tape access utility.
- [.FAUCONNET] VMSTAR, PLOT\_PS.
- [.FRANCE] DECUS France collection.
- [.FLOWERS] Disk watcher, menu system RMS global buffer watcher, memory usage report, operator interaction, etc. CMD files. Submitted by Harry Flowers.
- [.GCE90B.AMIGA] AnalytiCalc/AMIGA Spreadsheet sources and executables, latest version.

# SYMPOSIUM COLLECTIONS

- [.GCE90B.NET90B] Numerous utilities from Internet including cron, XTEK (TEK terminal for DECwindows), auditlog, new BOSS multisession monitor (with cut/paste and session logging), browser (with full screen mode), DELIVER fixes, FDdriver hosts for various virtual disk flavors, LAVdriver source, FTP site index, patch, PCX (MS-DOS disk read/write), photo, QV scheduler, new VMS TAR, YACC, XPIC, ZOO, LHArc, XLock, and more.
- [.GCE90B.GATE-KEEPER] Utilities and humor from GATEKEEPER.DEC.COM FTP site (files made available to the world there) including a listing of full contents of that archive at that point.
- [.GCE90B.LZW] Lempel-Zev-Welch compress/decompress release code.
- [.GCE90B.RAMDRIIVER] Very fast virtual disk that lives in non-paged pool.
- [.GCE90B.ZMODEM] Revisions to Zmodem for VMS.
- [.GRC] Auto-login program. Force deallocate on another process. Documents for SDA, DCL-like system services, etc. EDX superset of EDT or EVE in TPU with spell check. FRAG, break up or reassemble large files for comm transfer. Directory list program. Accounting clear program. Exception interceptor.
- [.GROSSER] Allow multiple SNA gateways to be a pool. Route back controller for RJE print. DECServer manager. DECwindows hacks.
- [.LOMASKY] Blocked PID Locator.
- [.MCLAUREN] COBOL ID to CDD DDL.
- [.NEWS60] ANU News V6.0-1 plus posted patches.
- [.ROBERTS] ACL Management, Scheduler.
- [.RICHARD-SON] SYSTATUS, ENPAGE, other utilities.
- [.READ-RALLY] Utility to convert RALLY reports to VAX DOCUMENT input format.
- [.RTG] RCS (Revision Control System for VMS SC spreadsheet for VMS.
- [.SCSU] Grader, Xsearch (extended txt search), List (file viewer), SWIM (multisession window package on terminal), writeup util.
- [.SECURITY] VMS Security wishlist document.
- [.UUCP] DECUS UUCP 1.2a+ complete UUCP subsystem for VMS.
- [.ZEMPEL] Cookie system. Reminder system. Appointment calendar.

**Note:** The abstract for this collection was not complete at the time of publication.

Documentation may or may not be on magnetic tape. Complete sources may or may not be included.

DECUS No. VS0124

**Media (Service Charge Code):** 2400' Magnetic Tape (PD), 2400' Magnetic Tapes (SD), TK50 Tape Cartridge (TD) **Format:** VMS/BACKUP

**Symposium Collection from the  
VAX/Languages and Tools SIG,  
Part 2 of 2, Spring 1990, New Orleans  
Version: June 1990**

**Author:** Various

**Submitted by:** Glenn Everhart & Ted Nieland

**Operating System:** IAS, MicroVMS, RSX-11M, RSX-11M-PLUS, ULTRIX, VAX/VMS **Source Language:** ADA, BASIC-PLUS, BASIC-PLUS-2, BLISS-32, C, DCL, FORTRAN 77, FORTRAN IV, LISP, MACRO-11, MACRO-32, PASCAL, VAX BASIC, VAX COBOL, VAX FORTRAN  
**Keywords:** Symposia Tapes - VMS

**Abstract:** This is Part 2 of 2 of the VAX/Languages and Tools SIG tape from the Spring 1990 DECUS Symposium in New Orleans. Refer to DECUS No. VS0118 for Part 1 of the VAX/Languages and Tools SIG Tape. Users are advised to order both tapes in order to have the complete set. The tapes from the VAX and L&T SIG's were combined to reduce duplications between the two collections.

The following is a brief summary of highlights.

90AVAXLT

This directory tree contains the index files and descriptions of the rest of the collection, plus a [.TOOLS] subdirectory containing utilities handy in unpacking some of the archives contained here; a AAAREADME.IST file there gives further instructions.

LT90A

[.AMBY]

A login environment for software development. A software development environment/toolset used at GM. Uses MMS/CMS heavily. Submitted by Don Amby.

[.ANUNews]

ANU News V6.0 beta 3, a usenet news reader for VMS. Also utilities to allow NNTP feeds over DECnet to interoperate correctly with some UNIX variants.

[.BLACKBOARD]

Blackboard architecture in a VAX/VMS environment (expert system implementation). Submitted by Frederick Schebor.

[.BRIANJIM]

BLISS programs. Convert virt addr to phys. Mandelbrot set explore. Console I/O from any IPL. Inhibit system dump. DR11C driver. BLISS user library. Submitted by Brian Catlin and James Gray.

[.BRYANT]

APLEVE and APLTPU, extended versions of TPU based editors. Also GBLSUBS/GBLSEARCH, allowing global searches or substitutions of expressions in one or more files (wildcards OK). Submitted by Geoff Bryant.

[.CAP]

Columbia Appletalk protocol. Allows various computers to talk Appletalk to Macintosh computers. Several versions.

[.EPUBS]

TeX tools for use with TeX and LaTeX. DVIOUT, writes DVI (TeX output) files to Tek 4014 or Postscript among others. XDVI - Displays DVI files on X windows (DECwindows) displays. Many options. QUERYLW - produces TeX fonts for Laserwriter built in fonts. PSFONT - generate Postscript fonts from TeX fonts. ALWSMB - Apple Laserwriter print symbiont. Submitted by EPUBS SIG.



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# SYMPOSIUM COLLECTIONS

- [GNUSOFTWARE] Numerous software utilities from Free Software Foundation. Includes clones of LEX, YACC, AWK, also GNU Emacs, GNU C and libraries. Much more. VMS ports of GNU C GNU C++, LIBG++ (the GNU C++ library), and GNU AWK (GAWK) are supplied. InterViews (for UNIX) is also because it contains a C++ runtime library not subject to the GNU copyleft.
- [GPLOT] GPLOT system for VMS. Vers. 4.23. GPLOT will allow using CGM metafiles from packages like DISSPLA, DI3000, or DrawCGM (included here) to be combined with TeX text files and/or displayed on a variety of devices. This allows GPLOT to be used with TeX to integrate text and graphics.
- [JMI] VAXnotes manual file. Various VAXnotes tools and documents about VAXnotes. Submitted by J.M. Ivler.
- [MAC\_WATCH] Ethernet monitor for Mac II; works with Cayman GatorCard, 3Com and Apple ethernet cards.
- [MDRAW] Object oriented draw package for ReGIS terminals. Output can go to LN03 or be put into TeX or into CGM format for use with manuscript/freelance. Submitted by S.M. Dierken.
- [MODULA3V14] MODULA-3 language compiler sources and docs, currently set up for UNIX. Publically distributed by Digital Equipment Corporation SRC. Runs on VAX/ULTRIX, DS3100, Sparc.
- [MUMPS] MUMPS SIG tape. Contains VA Fileman V17.32, MicroMUMPS for MS-DOS, MUMPS games, and MUMPS tools. Submitted by Mike McIntyre.
- [NCSATELNET] Telnet and FTP (TCP/IP) for IBM PC or Mac plus some contributed utilities. Supports many network cards (though not currently the DEPCA).
- [NOTES] VAXNotes procedures to assist new Notes users, add functions to Notes, merge notes, and more. Submitted by Dale Coy.
- [NOTES\_AIT] Material from "Problem Tracking in VAX NOTES" session in a seminar at New Orleans DECUS Symposium.
- [PBMVMS] Portable Bitmap routines for VMS. Convert between MANY graphics formats, edit pictures, etc.
- [TPUPLUS] TPUplus TPU based editor. VMS Dired, line drawing package. Submitted by Rick Stacks.
- [TRANSLATORS] Language translators, including FORTRAN to C (for VMS) PASCAL to C (one for VMS, one not), COBOL to ADA and FORTRAN to ADA. The FORTRAN to C is FORTRAN 77 with extensions and is submitted by Robert Schneider.
- [UEMACS] Micro Emacs V3.10, built to work correctly on VMS. Submitted by R. Thomson.
- [XAW] Athena X windows widgets, translated for DECwindows. Submitted by Trevor Taylor.
- [XHP] HP Widgets for X11, translated for DECwindows. Submitted by Art Stine.

Complete sources not included.

DECUS No. VS0119

Media (Service Charge Code): 2400' Magnetic Tapes (PD), 2400' Magnetic Tape (SD), TK50 Tape Cartridge (TD) Format: VMS/BACKUP

*Symposium Collection from the  
VAX/Languages and Tools SIG,  
Part 1 of 2, Spring 1990, New Orleans  
Version: June 1990*

Author: Various

Submitted by: Glenn Everhart & Ted Nieland

Operating System: IAS, MicroVMS, RSX-11M, RSX-11M-PLUS, ULTRIX, VAX/VMS Source Language: ADA, BASIC-PLUS, BASIC-PLUS-2, BLISS-32, C, DCL, FORTRAN 77, FORTRAN IV, LISP, MACRO-11, MACRO-32, PASCAL, VAX BASIC, VAX COBOL, VAX FORTRAN  
Keywords: Symposia Tapes - VMS

Abstract: This is Part 1 of 2 of the VAX/Languages and Tools SIG tape from the Spring 1990 DECUS Symposium in New Orleans. Refer to DECUS No. VS0119 for Part 2 of the VAX/Languages and Tools SIG Tape. Users are advised to order both tapes in order to have the complete set. The tapes from the VAX and L&T SIG's were combined to reduce duplications between the two collections. Please read the file, Compressions.Txt, in the index directory for information on decompressing the files.

The programs have been placed in three major directory structures named: 90AVAXLT, DECUSLIB, VAX90A.

The following is a brief summary of highlights:

90AVAXLT

This directory tree contains the index files and descriptions of the rest of the collection, plus a [.TOOLS] subdirectory containing utilities handy in unpacking some of the archives contained here; a AAAREADME.IST file there gives further instructions.

DECUSLIB

This directory tree contains complete machine readable text of the DECUS Library catalog, plus all available machine readable descriptions of older material not in print in the current catalog. Browser tool also included.

VAX90A

[4GL\_SIG]

Fourth Generation Language SIG contribution (formerly DTR/4GL SIG). Procedures to help with DTR, DTR functions, DTR forms interface (replaces FMS), menu driver, banner program, DTR aids for VMS system management, more. Submitted by Bart Lederman.

[AKE]

DELTREE - delete directory tree. ROT13 - messages text for ANU News. MORIA 5.0 game for VMS. Ray-Tracing; QRT and DBW raytracers ported from AMIGA. SYMBOLS - progs. to extract values from symbols in your system. Submitted by Earle Ake.

[ALLIED]

Check\_Password - Checks UAF for weak passwords. Also can check a user dictionary, gets user list from UAF also. SEND\_MAIL - sends mail from program, including distribution lists. PASS - keeps list of previous passwords, prevents re-use. Submitted by Alan Bruns.

[ANTIVIRALS]

Antiviral materials for MS-DOS, AMIGADOS, and Macintosh, obtained from national repositories. Complete as of about June 1, 1990. Submitted by Glenn Everhart.

# SYMPOSIUM COLLECTIONS

- [.ATG] ATG\_EDT - EDT superset including poor man's LSE. SIXEL\_PRINT - print screen dumps from DECwindows on HP Laserjet. .H generating utilities. VMS symbiont for HP Laserjet+. Lots of kernel and MACRO examples to set prompt, change UIC, dismiss ASTs, de-allocate a device owned by someone else, create process dump, and more. MAIL - alternate mail protocol routines and mail utilities. VMS mail profile analyzer. NMS\_MAIL - replacement for PSI\_MAIL that works through gateways and over PVCs. DCL routine to return quota. Programs to talk to NETACP direct to do a show net listing. System monitoring tools, patch for MONITOR to enable concealed classes, etc. TPU enhancements. Template User Written Debugger. VMSSERV in DCL only - no BITNET required. Allows one to have a file store available via mail only. XE - ethernet monitor to look at line counters via QIO. Submitted by Nick de Smith.
- [.BULLETIN] Bulletin board, lets one set up a message base for shared messages. Command interface is like VAX Mail, but messages are shared among all/many users. Can work over DECnet with many of the advantages of Notes. Submitted by Mark London.
- [.CCAUK] VAX PASCAL formatter. Turbo PASCAL formatter. PASCAL environment sources for various RTLs. SPLIT - counts bucket splits. PEEK - reads a sequential file that is locked (e.g., log file). How to modify command module in CMS. TWEAK - record attribute tweaker. CREGRPLNT - create group logical name table. SETUSER - become someone else. Show pagefile and all processes using it. Util to help deinstall page file if it is not in use. Submitted by Chris Sharman.
- [.DATEBOOK] DATEBOOK keeps track of single or recurring appointments. REMIND will flash a message on your screen ten min. before, five min. before, and when an appointment is due. Submitted by Bruce Tanner.
- [.DECSRVMGR] LAT based printer queue setup of large number of queues and TSM/DECserver management tools. Submitted by Pasquale Scopelitti.
- [.DORMANT] Identify dormant or seldom used VMS accounts. Submitted by Darrell Blair.
- [.DWTEK] Tektronix file to Postscript or X-Window plot converter. Currently DECwindows specific. Submitted by George Carrette.
- [.FLOWERS] DISK\_WATCHER - monitor disk space, alarm on too full. RMSGLOBUF - show files with RMS global buffers. DCL menu system OK with captive accounts. Submitted by Harry Flowers.
- [.GAGNE] Ethernet monitor utilities (MONLAT, MONLAV, MONHWA). Submitted by David Gagne.
- [.GCE90A] AnalytiCalc - spreadsheet. Third dimension now added, so can address 32,000 rows/ columns/pages. New functions added. FDDRV - better virtual disks of VD: or FD: types. Better cryptodisk algorithm (still super fast). Shadowing virtual disk. Periodically - checkpointed memory disk. Sources to UNIX LHARC. NET90A - large collection of utilities and files from Internet. Includes IFF to sixel converter (good with Ake's raytracers), DECnet identifier propagators (allows net- wide "employee", "foreign" etc. ACLs to be used in file sharing control). Also update to remote virtual magtape driver. PASCAL to C for UNIX. XMODEM code. Also VAX introduction book off the net, and CEDIT column mode editor. Submitted by Glenn Everhart.
- [.HAUCK] Command files for archiving or de-archiving user files to tape. Allows simple provision of archiving services to general users. Submitted by Clyde Hauck II.
- [.HAYS] Another Set Default. Fix for LAT connections in VAXNET. Change icon procedure for DECwindows. FileView enhancements for DECwindows. Full function calculator using SMG\$ (VT) graphics. Replacement DECwindows startup picture. Trap keystrokes using SMG\$. DECwindows examples. Submitted by Robert Hayes.
- [.JSCSA] Rmail mail reader. Small database routines. Calendar program. MOVFile - move files in a secure environment. SETUSER. Submitted by William Baker.
- [.LDXDT] Loadable XDELTA in VMS. No need to reboot to get XDELTA into machine. Submitted by Ken Johnson.
- [.LOMASKY] Display node and PID of any user blocking another user from continuing (FINDLOCK). SYSUAF reporting utility. Submitted by Brian Lomasky.
- [.MAQ] Data transfer network software similar to VMS mailboxes with crash/reboot file saving. Submitted by Earl Laskia.
- [.MAY] FLECS for VMS (FORTRAN Language with Extended Control Structures, a FORTRAN preprocessor). Program to map out HSCs. Submitted by L. Eliezer May.
- [.MEADOWS] BITnet utils to convert LPunch to normal text. DECnet example QIO routines to NETACP. FILE - program to modify ANY file attributes. FIND - search index file for all sorts of conditions (even oddities like placement, LBN, length). Orders of magnitude faster than DIR. KFE - display installed files. MAIL - docs for callable mail. MAKE - UNIXlike file builder, something like mms. MENU - interprets menus on the fly, creates compiled menus. MONITOR - reads monitor data files. OBJECT - extracts symbol defs from object files (.OBJ) or symbol table files (.STB). RIGHTS - generates list of identifiers and holders, by right or by user. RMS - display some info on RMS indices. SD - simple set default program. STATUS - DECnet wide user process display (along lines of Finger). Also serves as example of multithreaded client/server. UAF - scan/report UAF by many criteria. Also password guesser. UNMESSAGE - decompiles message files. UNSDL - converts SDL definitions into headers for C. VERB - decompiles command tables, generates .CLD files. Submitted by Joe Meadows.
- [.NAMEROUTER] MAIL routing utility allowing one to use conceptual names instead of actual net addresses. Can interface to PMDF or to BSMTTP. Submitted by Thomas Wade.
- [.NANNY] Automated reminder system and system management aid for VAX/VMS. Reminders, idle process detection, priority diddling, memory monitoring, disk monitoring and other functions are provided. Submitted by Dan Zirin.
- [.NIELAND] CHECKPASS - check passwords in the UAF file. Checks against a large dictionary plus various permutations of some other fields. XYZMODEM - combines X, Y, and ZMODEM into one command procedure. (Example only.) Submitted by Ted Nieland.
- [.PAVLIN] DISM32 - VMS disassembler (.EXE to .MAR); bugs fixed from S89 vers. ETHERMON - Ethernet Many options. Speed-up from older vers. PLXY to sixel



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# SYMPOSIUM COLLECTIONS

- converter. Util to issue \$WAKE on another process.  
Submitted by Andy Pavlin.
- [.PLTPRG] General data plotting and analysis program. Can fit data to various types of curves. Also does viewgraphs.  
Submitted by Steven Fisher.
- [.RLB] VMS security auditing (VMS 5.2 and up) procedures.  
Submitted by Bob Boyd.
- [.RPI] MX - mail routing and distribution facility supporting delivery via VAXmail, SMTP, BITnet mail, or UUCP mail over VMS UUCP. Supports mailing lists.  
NEWSRDR - NNTP client for reading Usenet news via CMU TCP/IP or VMS/ULTRIX Connection. SDFilter - controls layout of DECwindows screen dumps.  
SETUP - per user set up of applications software for users. WATCHER - flexible idle terminal monitor.  
Submitted by Matthew Madison.
- [.SESSINDEX] Session index to DECUS US Spring 1990 symposium in New Orleans. (Actually, table of contents from session notes.) Submitted by John Stutzinger.
- [.SNASECUR] Secure access to multiple SNA gateways and automatic, user-specified route-back of RJE files. Submitted by Pasquale Scopelliti and Al Grosser.
- [.STOCKMAN] UPDATE - Reorder line numbers in FORTRAN programs and/or breakout subroutines. Also allows update/insert of entire routines, strips trailing whitespace, etc. ZAP - delete multiple jobs in a queue with one command. Many options. Submitted by CSC.
- [.UTEXAS] LASER - Laserwriter print symbiont. Supports print of Macpaint and Zeta plot files as well as Postscript files. MAGTAPE\_BUF-set default buffer size on a magnetic tape after it is already mounted. (Needed if one is copying BACKUP savesets, for example, of varying block size.) READTAPE/WRITETAPE - tape to disk to tape copy, format independent. Submitted by Thomas Linscomb.
- [.UUCP] VMS UUCP 1.2. Complete system allowing a VMS system to join the Usenet. Integrated with ANU NEWS (5.9c currently) plus full documents. Submitted by: Jamie Hanrahan, Tom Allebrandi, and Mark Pizzolato.
- [.VMSKERMIT] VMS KERMIT V3.3.122 which supports large packets (1000 characters) and adds a SET FILE BLOCK nnn command to handle fixed record lengths other than 512 bytes. Because this version won't accept TW: or some other type of terminals for transfer, an executable of VMS KERMIT 3.3.118 is also provided. This also supports long packets but lacks the new SET FILE BLOCK syntax. Also a variant KERMIT numbered 3.4.140 is supplied due to the bugs in V3.3.122. The recommended VMS KERMIT executable is this one.  
Submitted by Brian Nelson and Glenn Everhart.

Complete sources may or may not be included.

DECUS No. VS0118

Media (Service Charge Code): 2400' Magnetic Tapes (PB), 2400' Magnetic Tape (SB), TK50 Tape Cartridge (TB) Format: VMS/BACKUP

## Symposium Collection from DECUS France 1990 Version: August 1990

Author: Various

Submitted by: DECUS France Operating System: VAX/VMS Source Language: Various Keywords: Symposia Tapes - VMS

Abstract: This is the symposium tape from DECUS France. This tape contains materials from the DECUS France messaging system as of August 1990. Most documentation is in French.

The following is a brief summary of highlights:

- [.GAPSIG] DVIDIS - display TeX on VAXstation screen. GKS-JGKSLIB - simpler plot functions layered on GKS. DESSIN - draw program for terminals supported by GKS. FIP - Postscript format and view. Creates Postscript docs from a markup language. PLOT\_PS - Graphics library for output on LN03R or similar. LOAD - system load display, graphs over twenty-four hour periods. TeXX - TeX display on VMS X windows. VMS share - pack files for mailing. XDVI doc viewer. Some X utilities.
- [.NOTES] Various notes relevant to materials here. Some English, mostly French.
- [.ULTRIX] ASKVAL - read in int, float, chars, etc., with edits, domain verif., etc. ATTY - Emacs like editing of input buffer. BBFIG - Script to print figure plus bounding box in Postscript. DVI2PS - Turn TeX output into PostScript. LESS - a "more" with extra features. RENAME - multi file renamer; easier than shell script. SHAR - shell (un)archiver. Huffman compress. Draw dir. tree. More.
- [.ASSI] PAM - reminder program; notes to yourself or others.
- [.PSICOPY012] PSICOPY - copy arbitrary files over PSI network (X.25) retaining attributes. Many options.
- [.VAXF89.SOGIDEC] Request Files - show list of files your or another process has open. Regenerate CLD from a DCL tape. Submit BATCH jobs automatically. Autologout of inactive VMS processes. Regenerate .MSG files from compiled output. BECOME another user. Dhrystone benchmark sources. KERMIT with script language. Find status of EMAIL to another. Joke VT100 pictures. Show how fragmented your disk is. File compress utilities. PC to VAX ASCII. Disassembler. Epson printer utilities for WPSPLUS. Ethernet monitor. NOTES utilities Null time display. Send and receive OPCOM messages. PHOTO. Spawn .COM file with privileges. TeX to use Postscript fonts. Rebuild MFD of a disk. Recover files after EOT. Recover tape driver w/o reboot. Set up local root on satellite disk. Show lock database. Purge working sets of inactive processes. VMS 5.2 and 5.3 presentations. WATCH (or control) another keyboard. Watchdog for VMS 5.X. XMODEM/VMS.

Notes: No guarantees are made as to the completeness, usability, or quality of the programs on the tape and the material has not been checked or reviewed.

Complete sources may or may not be included.

DECUS No. VS0122

Media (Service Charge Code): 2400' Magnetic Tape (PC), TK50 Tape Cartridge (TC) Format: VMS/BACKUP

# SYMPOSIUM COLLECTIONS

**Symposium Collection from the  
RT-11 SIG, Spring 1990, New Orleans  
Version: Spring 1990**

**Author:** Various

**Submitted by:** John Bedel, Bethesda, MD

**Operating System:** RT-11 V5.1 through V5.5, TSX-PLUS **Source Language:** FORTRAN 77, FORTRAN IV, MACRO-11 **Keywords:** Symposia Tapes - RT-11

**Abstract:** This is the RT-11 SIG tape from the Spring 1990 DECUS Symposium in New Orleans. The packaging format is variable-sized subdevices with each subdevice no longer than RX02 size, 988 blocks. The file README.1ST provides general help information. The files TAPDIR.TXT and TAPCOP.TXT at the beginning of the tape describe the contents and how to recover them from the tape. The file ANOTED.TXT provides information on each submission.

Following is a list of the contributions to this RT-11 SIG tape:

VSET	A utility to perform SET options on RT-11 device handler files. Submitted by John M. Crowel.
TSXLIB	A library of FORTRAN callable routines that implement the TSX-Plus system services updated through TSX-PLUS V6.40. Submitted by N.A. Bourgeois, Jr.
SETDZ	Utility to set the communication parameters on a DZ type serial interface boards. Submitted by Kurt Kohler.
MAIL	An online mail message system for use under TSX-PLUS, V1.14. Submitted by M.P. Marak.
SCHOR1/SCHOR2	A large number of support routines falling into several categories: programming aids, RT-11 and TSX tools, system utilities, and "useful" programs. Submitted by Bob Schor.
WALRAV	A FORTRAN callable function to return free space on a device plus a "spool" program to simulate various operating systems. Submitted by Robert Walraven.
DIGLB1/DIGLB2	Updated (DEC86) version of the Device Independent Graphic Library. Submitted by Hal. R. Brand.
RESEQ	A line number resequencing program for FORTRAN IV and FORTRAN 77. Submitted by Ed Judge.
TEXSPL/TEXEXT	A text analyzer and spelling corrector with data files DCT1.DAF and DCT.DAF. TEXSPL is for VM: only. TEXEXT is the analyzer for hard disk use. Submitted by Ed. Judge.

No guarantees are made as to the completeness, usability, or quality of the programs on the tape and the material has not been checked or reviewed.

Complete sources not included.

**DECUS No. 11S113**

**Media (Service Charge Code):** 600' Magnetic Tape (MS), TK50 Tape Cartridge (TC) **Format:** RT-11

**Symposium Collection from the RSX SIG,  
Spring 1990, New Orleans  
Version: 1, June 1990**

**Author:** Various

**Submitted by:** Glenn C. Everhart, Ph.D.

**Operating System:** IAS, RSX-11M, RSX-11M-PLUS **Source Language:** C, FORTRAN 77, FORTRAN IV-PLUS, MACRO-11, PASCAL **Keywords:** Symposia Tapes - RSX-11

**Abstract:** This is the RSX SIG Tape from the Spring 1990 DECUS Symposium in New Orleans.

Following are brief descriptions of the contents of the directories of the contents on the tape.

[265,001]	MCE V4.23, the much beloved EDT-style RSX Commandline editor. Submitted by Jim Bostwick.
[300,001]	General description of tape contents.
[300,002]	BIGTPC and VMSTPC and other utilities for tape copy of these tapes.
[343,040]	GREP V2.00, utility to search for text patterns in files and print filenames and lines containing the text. Speed greatly enhanced and with new features. Submitted by Bruce Mitchell.
[351,144]	TEM - Terminal Emulator for RSX V90.012. Does terminal emulation and character mapping, and ASCII file transfer in either direction. Submitted by Tom Wyant.
[374,100]	Cargill AMI message router; implements variable send over DECnet. Submitted by Jim Bostwick.
[374,101]	DECnet interface routines for PASCAL to do intertask communication. Submitted by Jim Bostwick.
[374,102]	Message router message interface. With [374,100] and [374,101], extends variable send data directives across DECnet. Submitted by Jim Bostwick.
[374,124]	Symbolic debugger for RSX-11M-PLUS. Also able to examine (non overlaid) tasks symbolically on disk. Submitted by Dave Mischler.

Complete sources may or may not be included.

**DECUS No. 11S112**

**Media (Service Charge Code):** 600' Magnetic Tape (MS), TK50 Tape Cartridge (TC) **Format:** BRU



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# ULTRIX/RISC

**DECUS Software Ported to  
DECstation 3100  
Version: November 1990**

Submitted by: University of Lowell - CPE

Operating System: ULTRIX/RISC Source Language: C Hardware  
Required: DECstation 3100 Keywords: Utilities - ULTRIX/RISC

**Abstract:** This package is a collection of DECUS software packages that have been ported over to the DECstation 3100. Most of the software packages in this collection are C-based. Included in this collection are programs for integrated circuit design and simulation, routing optimization, solving linear equations, statistical analysis, and more.

The following are the DECUS programs in this collection:

DECUS NO.	TITLE
V00367	BOPT
V00309	CLOC
V00212	PLOT_IT and SPELL: Interactive Dictionary
V00064	ABACUS: A Language for Interactive Scientific Computation
U00118	PROUD
U00115	Sparse
U00114	ADORE
U00113	Creep
U00112	SPLICE3
U00108	GLITTER2
U00107	MAHJONG
U00104	Wombat
U00103	Mighty
U00102	KIC2
U00101	Timberwolf
110554	POLFIT: A General Polynomial Fitting Program

**Notes:** Executable and/or object code is included. Many of these programs were originally developed by the Computer-Aided Design Group, Department of Electrical Engineering and Computer Sciences, University of California-Berkeley.

**Restrictions:** U.S. Government export regulations prohibit the distribution of this program outside the United States without the appropriate export licenses.

Documentation may or may not be on magnetic media.

DECUS No. US0109

**Media (Service Charge Code):** 2400' Magnetic Tape (PC), TK50 Tape Cartridge (TC) **Format:** TAR

**Fuzzy Bit Map Software Collection  
Version: November 1990**

Author: Michael L. Mauldin

Submitted by: University of Lowell - CPE

Operating System: ULTRIX/RISC Source Language: C Hardware  
Required: DECstation 3100 Keywords: File Management, Utilities - ULTRIX/RISC, Bitmap

**Abstract:** This software package was designed for the manipulation and conversion of images from and to a variety of file formats. Among the manipulation capabilities are rotations, halftoning, extraction, edge detection, histogram displays, and filtering.

The conversion capabilities include conversion between the following:

- color image and a grayscale image
- three plane image and a mapped color image
- FBM file and a Postscript file
- QRT raytracing package output and an FBM file

The following are some of the software in this collection:

FBM	Fuzzy bitmap manipulation (GIF, PCX, IFF, PBM, FBM, rasters, bitmaps).
XASTEROIDS	This is an X window implementation of the asteroids video game.
XGRAPH	Allows you to plot data under X windows.
XNETLOAD	Allows user to display load average on all the machines in his network.
XPAINT	A MacPaint-like program that runs under X windows.
LESS	A source code viewer with more features than UNIX's MORE.
FIP-MELT	Allows user to manipulate X displays.
IFP	This programming language allows non-Von Neumann control.
GRAPHWIDGET	Allows line graphing under X using a widget set.
X11PERF	Analyzes performance of your X server, and generates benchmark stats.
XCPUSTATE	Allows system monitoring under X windows.
IMGLIB	Allows manipulation of images through various algorithms.
KKIC	This is a graphics editor under X windows. Objects and viewing manipulation.
ELM	Allows for secure mail under UNIX.
FSANALYZE-V4.1	Analyzes fragmentation on a disk and displays statistics.
SC-V6.1	Spreadsheet allows auto recalc, external function execution, and others.
TOP	Visually displays top CPU processes on your machine using X windows.
SURFACEPIPELINE	This maps surface topologies onto an X window.
F2C	This translates FORTRAN 77 code to UNIX C code.

**Notes:** Executable and/or object code is required.

Documentation may or may not be on magnetic media.

DECUS No. US0110

**Media (Service Charge Code):** 2400' Magnetic Tape (SB), TK50 Tape Cartridge (TB) **Format:** TAR

# ULTRIX/RISC

**Portable Bit Map Software Collection**  
Version: November 1990

**Author:** Jef Poskanzer

**Submitted by:** University of Lowell - CPE

**Operating System:** ULTRIX/RISC **Source Language:** C **Hardware Required:** DECstation 3100 **Keywords:** Utilities - ULTRIX/RISC, Bitmap

**Abstract:** Workstations and Personal Computers are becoming reliant on bitmap based data files. However, there are a wide range of bitmaps that are used for different purposes. This makes the transfer of information difficult between different systems. The Portable Bit Map concept was developed to provide a standard, in order to convert from one type of mapping scheme to another. In the Portable Bitmap library there are programs for converting from and to Postscript, X10 bitmaps, X11 bitmaps, MacPaint files, Sun Rasterfiles, and many others.

The following are some of the software in this collection:

PBM	Functions to support portable bitmap programs.
PGM	Functions to support portable graymap programs.
PNM	Functions to support portable anymap programs.
PPM	Functions to support portable pixelmap programs.

Some of the Conversion Programs are:

BRUSHTOPBM	Doodle brush file into a portable bitmap
CMUWMTOPBM	CMU window manager bitmap into a portable bitmap
FITSTOPGM	FITS file into a portable graymap
FSTOPGM	Unix FaceSaver file into a portable graymap
G3TOPBM	Group 3 FAX file into a portable bitmap
GEMTOPBM	GEM .IMG file into a portable bitmap
GIFTOPPM	GIF file into a portable pixmap
HIPSTOPGM	HIPS file into a portable graymap
ICONTOPBM	Sun icon into a portable bitmap
IMGTOPPM	IMG-whatnot file into a portable pixmap
MACPTOPBM	MacPaint file into a portable bitmap
MGRTOPBM	MGR bitmap into a portable bitmap
PSIDTOPGM	PostScript "image" data into a portable graymap
QRTTOPPM	Output from the QRT ray tracer into a portable pixmap
RASTTOPBM	Sun raster file into a portable bitmap
RASTTOPPM	Sun raster file into a portable pixmap
RAWTOPGM	Raw grayscale bytes into a portable graymap
TGATOPPM	TrueVision Targa file into a portable pixmap
TIFFTOPGM	TIFF file into a portable graymap
XBMTOPBM	X11 or X10 bitmap into a portable bitmap

**Notes:** Executable and/or object coded is included.

Documentation may or may not be on magnetic media.

**DECUS No.** US0111

**Media (Service Charge Code):** 2400' Magnetic Tape (PC), TK50 Tape Cartridge (TC) **Format:** TAR

**KCL-diffs for DECstations based on KCL Source, June 3, 1987**  
Version: March 1990

**Submitted by:** Arpita Datta, Wright State University, Research Center, Kettering, OH

**Operating System:** ULTRIX - 32, ULTRIX/RISC **Source Language:** ASSEMBLY, C, LISP, RISC **Software Required:** KCL Source Code, Version: June 3, 1987 **Hardware Required:** DECstation 2100, DECstation 3100 **Keywords:** Utilities - ULTRIX/RISC

**Abstract:** This software package contains the patches that modify the Kyoto Common Lisp (KCL) Source Code, Version: June 3, 1987, to make it run on the DECstation 2100 and DECstation 3100.

**Notes:** The KCL Source Code, Version: June 3, 1987, can be purchased from the University of Texas, Computer Science Department. It is not available through DECUS.

Documentation not available. Complete sources not included.

**DECUS NO.** U00124

**Media (Service Charge Code):** 600' Magnetic Tape (MA), TK50 Tape Cartridge (TA) **Format:** TAR



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# ULTRIX/UNIX

**Usenix 1988/1989 Collection Version:  
November 1989**

**Author:** Usenix Association

**Submitted by:** Carl D. Lowenstein, Marine Physical Lab, La Jolla, CA

**Operating System:** ULTRIX V1.2, UNIX BSD V4.3 **Source Language:** C  
**Keywords:** Editors, Graphics, Mail, Mathematical, Utilities -  
ULTRIX/UNIX

**Abstract:** Following is a description of some of the types of software in the Usenix 1988/1989 Collection.

## Processor/Operating System

Software for AMIGA, Apollo, c64, CPM, MS-DOS, Sun, VMS.

## Applications

Astronomy, Calendar, Database, Finance, Music. Communications Modem, Umodem, XYZModem, Uucp utilities. Drivers BSR X-10, UDA50, Optical Disk.

## Editors

Emacs applications (includes EDT), Emacs bugs, Jove stuff, MicroEmacs.

## Graphics

GNUplot, Raytrace.

## Languages

Assemblers, disassemblers, Dbug package, FORTRAN Prep(rocessor), PASCAL-C, Obfuscated C, C\_ID\_Shortener, SmallC, C\_inference.

## Library

Routines for CRC, Date, Doprnt, Format, Getopt, ListSort, Radix, Scandir, Timer.

## Mail Related

Mh-6.6 (note Mh-6.5 on Usenix 1987 Collection, See DECUS No. US0107), PathAlias, and others.

## Math

Routines for Calculator, Math-lib, and others.

## Miscellaneous

Network, News, PostScript, TeX, Nroff, Troff.

## Utilities

AdminTools, Archive, Compress, Finger, Grep, Soundex, and more.

## Games

Battleship, Blackjack, Chess, Craps, Empire, Hack, Othello, Pacman, Phantasia, Reversi, Robot, Sail, Search, Snake, Solitaire, Trek73, and Warp.

## String\_C++

Material from Art Zemon at FileNet, implementing a 'string' data class for C++.

## GNU

GNU C++ and C compilers, from Michael Tiemann at MCC.

## Interviews

Material from Mark Linton at Stanford. Object-oriented software for the design and implementation of user interfaces, used in conjunction with the X window system.

## Megatest

Material from Dave Jones at Megatest. "A starter kit for a collection of library classes."

## Oops

Object-Oriented Program Support from Keith Gorlen at NIH.

## String

Implementation of a 'string' type from Peter Buhr at Waterloo.

**Notes:** The files are packaged as two "TAR" images of approximately eighteen and twenty-four Megabytes each.

Complete sources may or may not be included.

**DECUS No. US0108**

**Media (Service Charge Code):** 2400' Magnetic Tapes (PB), 2400' Magnetic Tape (SB), TK50 Tape Cartridge (TB) **Format:** TAR

**X Windows 11 Release 4  
Version: October 1990**

**Author:** X Consortium, MIT Lab. for Comput. Sci., Rm NE 43-218, 645 Technology Square, Cambridge, MA 02139

**Submitted by:** Kurt Reisler, Hadron Inc.

**Operating System:** ULTRIX/UNIX V3.1 **Source Language:** C **Software Required:** C Compiler **Keywords:** Editors, X Windows

**Abstract:** The X Window System is a portable, network-transparent window system originally developed at MIT. It can be used on a wide variety of raster display devices, ranging from simple monochrome frame buffers to deep, true color graphics processors. This document describes contents of the fourth public release of X, Version 11 from MIT and how it has changed from previous releases.

This is the fourth release of the X Window System, Version 11 from MIT. Substantial progress has been made in optimizing the sample server, window manager, and programming libraries. In addition, major improvements to the user interface of several of the key applications (in particular, xmh, twm, xman, and xterm) should make release noticeably nicer to use. Sample implementations of the various new Consortium Standards are included as well as prototype implementations of several efforts currently under development. No incompatible changes have been made to either the core Protocol or to the Xlib programming library. The Xt Intrinsics should be source compatible with the previous release. Changes have been made to the Xaw widget set, but a configuration option for providing backwards compatibility interfaces is available.

Several new sets of fonts have been added: a new fixed width family of fonts, a Kanji and Kana font, the Lucida family from Bigelow & Holmes and Sun Microsystems, a terminal emulator font from Digital Equipment Corporation, and 100 dots-per inch (dpi) versions of all 75 dpi fonts.

**DECUS No. US0106**

**Media (Service Charge Code):** 2400' Magnetic Tape (SB), TK50 Tape Cartridge (TB) **Format:** TAR

# MACINTOSH

## Macintosh Collection from SIMTEL20 Version: March 1990

Submitted by: M. Edward Nieland, Control Data Corporation

**Operating System:** Macintosh Finder **Source Language:** C, MODULA, PASCAL **Keywords:** Menu Control, Simulations, Software Collections, Tools – Applications Development

**Abstract:** This is a copy of the Macintosh Archives kept on the WSMR-SIMTEL20.ARMY.MIL. The SIMTEL-20 archive is accessible on the Internet via ANONYMOUS FTP. This tape is being made available for those people who do not have access to the Internet and FTP.

The archive is a snapshot of its state on February 13, 1990. All of the files in this archive are free to distribute.

The following are the directories in the collection:

AAPL	CDEV	CODE	COMM
DA	DEMO	DOC	ED
FKEY	FONTS	HC	INT
JOHN	LANG	MACII	MACTN
NEWS	PATCHES	PICT	POSTSCRIPT
REVIEW	SOUNDS	TECH	UNIX
UTIL	UTILDSK	UTILFIL	UTILPRN
VIRUS			

No guarantees are made as to the completeness, usability, or quality of the programs on the tape and material has not been checked or reviewed.

**Notes:** Due to the large number of files available, the archive maintainers cannot possibly attempt to validate the proper operation of the various programs. When a program bug is reported, immediate action is taken to either correct the error or remove the offending program from the archives. Still, users must understand that all archive programs are offered AS IS, and the archive maintainers specifically disclaim any liability should these programs malfunction or cause damage, incidental or otherwise. When testing ANY new software, be certain that all information stored on disk is backed-up before you start, so that you can recover if files are damaged or erased. This is particularly true if you have a hard disk, in which case malfunctions can be spectacularly disastrous.

Documentation may or may not be on magnetic media.

DECUS No. VS0116

**Media (Service Charge Code):** 2400' Magnetic Tapes (PD), 2400' Magnetic Tape (SD), TK50 Tape Cartridge (TD) **Format:** VMS/BACKUP



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## Macintosh Software Collection Version: October 1990

**Author:** Various

**Submitted by:** Joel M. Snyder, University of Arizona, MIS Dept., Tucson, AZ

**Operating System:** Macintosh **Source Language:** Various **Memory Required:** 1MB **Keywords:** Business Applications, Games, Programming Languages, Software Collections, Macintosh, TeX

**Abstract:** This package contains various software for the Macintosh Personal Computer. It was collected from the following:

INFO-MAC-  
ARCHIVE

Info-Mac is an Internet discussion group that maintains an archive at Stanford University with the most current, most useful, and best debugged collection of Macintosh software. This tape has the entire contents of the Stanford Info-Mac archive, divided into Applications, Apple-provided Software and Documentation (including all the Macintosh Technical Notes and Macintosh Human Interface Guidelines), Art files, Hypercard utilities, Control Panel Devices, Communications, Demonstration software, the Info-Mac Discussion Digests, Fkeys, Fonts, Games, Inits, Languages and language support, Reports and Help on Macintosh issues/topics, Sounds, Source codes, Technical tips, UNIX/Mac software, Macintosh Utilities, and Virus detection/eradication software.

APPLE FILES

Apple Computer maintains a public depository of software which runs on and around Macintosh systems. This includes everything from Grateful Dead hypercard stacks to Ham radio software. NOTE: This collection does not contain the Apple Developer Technical Services software, which requires a separate license.

NCSA

The National Center for Supercomputing Applications, at the University of Illinois, has contributed a substantial collection of powerful Macintosh tools, including the public domain NCSA Telnet, a free TCP/IP package for the Macintosh. Other software includes visualization applications, image manipulation applications, and data notebook tools.

TeX

Macintosh TeX tools on this tape include TeX for the Macintosh, printer drivers for Laserwriters and Imagewriters, BibTeX, indexing tools, Metafont, and CTeX.

Most of this software has been tested and appears to be free of viruses, but there are no guarantees. Always test software in a protected environment before you use it.

**Notes:** Executable and/or object code is included. Most programs require operating system Macintosh Finder V6.0.

**Changes and Improvements:** Additional software, revisions to other packages, updates.

Documentation may or may not be on magnetic media. Sources not included.

DECUS No. VS0086

**Media (Service Charge Code):** 2400' Magnetic Tapes (PD), 2400' Magnetic Tape (SD), TK50 Tape Cartridge (TD) **Format:** VMS/BACKUP

# COMMUNICATIONS

## VAX/VMS Async Communications: KERMIT and X/Y/Z MODEM Version: November 1990

Author: Various

Submitted by: M. Edward Nieland, Control Data Corporation  
Operating System: VAX/VMS V5.1-1, V5.3-1 Source Language: BLISS-32, C, MACRO-32, VAX FORTRAN Keywords: Data Communications

Abstract: This software package consists of several modem communications programs for VAX/VMS. The protocols these programs support are KERMIT, XMODEM, YMODEM, and ZMODEM. The programs have been collected from past SIG tapes and other sources. The directories are:

[.KERMIT] BLISS/MACRO version of KERMIT, 3.3.126.  
Supports large packets.  
[.KERMIT .CKERMIT] C version of KERMIT for VMS. Supports Sliding Windows, Large Packets.  
[XMODEM-1] YMODEM Program for XMODEM. Submitted by Robin Miller.  
[XMODEM-2] XMODEM Program. Submitted by Jim Belonis.  
[YMODEM] YMODEM Program (vvr and vvsb). Submitted by Chuck Forsberg.  
[ZMODEM] ZMODEM Programs (rz and sz). Submitted by Chuck Forsberg.

Notes: Executable and/or object code is included.

Changes and Improvements: Updated programs.

DECUS No. VS0107

Media (Service Charge Code): 2400' Magnetic Tape (PC), TK50 Cartridge (TC) Format: VMS/BACKUP

## KERMIT Distribution Version: May 1990

Author: Various

Submitted by: Glenn C. Everhart, Ph.D.

Operating System: CP/M, DSM-11, IAS, MICRO/RSTS, MS-DOS, Micro/RXS, MicroVMS, os/278, os/78, P/OS, RSTS/E, RSX-11M, RSX-11M-PLUS, RT, TOPS-10, TPS-20, ULTRIX, VAX/VMS, VENIX Source Language: ALGOL, AMIGA DOS, BLISS-32, BLISS-36, C, FORTRAN 77, FORTRAN IV, LISP, MACRO-10, MACRO-11, MACRO-32, PASCAL, PL/1, VAX BASIC Keywords: Data Communications, KERMIT

Abstract: This collection contains a VMS Backup saveset made from the KERMIT distribution from Columbia University dated May 18, 1990. The tape collection contains all KERMITs known to Columbia as of that date plus a large amount of documentation.

The Columbia distribution is on five (5) reels of tape. To reduce costs, this distribution has been placed on TWO (2) reels of tape for DECUS, in VMS/BACKUP format at 1600 BPI, Columbia University. Complete KERMIT documentation is needed. Files beginning with AA\*.\* should be looked at first for an overview of what's here. The new VMS KERMIT V3.3.122 is among those included.

Changes and Improvements: Newer KERMITs for VMS, IBM PC, IBM mainframes.

DECUS No. VS0053

Media (Service Charge Code): 2400' Magnetic (PB), 2400' Magnetic Tape (SB), TK50 Tape Cartridge (TB) Format: VMS/BACKUP

## XMODEM Version: November 1989

Author: J.J. Belonis II, Physics/Astronomy Computer Cost Ctr, University of Washington, FM-15, Seattle, Wa 98195

Operating System: VAX/VMS V4.7-5.2 Source Language: MACRO-32, VAX FORTRAN Memory Required: 30KB Software Required: XMODEM or MODEM7 protocol running on another computer Hardware Required: Another computer running XMODEM or MODEM7 protocol Keywords: Data Communications, Utilities - VMS

Abstract: XMODEM.FOR is a FORTRAN and MACRO intercomputer file transfer program with checksums and error correction using the Ward Christensen protocol equivalent to the CP/M program XMODEM 5.0. It is compatible with the public domain CP/M program MODEM7 and its predecessors and successors running on various computers, as well as with many commercial microcomputer file transfer packages. Both binary and text file transfers are supported.

Options are:

- S Send file from the VAX
- R Receive file to the VAX

Suboptions:

- T Text - VAX/VMS File conversion to/from CP/M text file
- C - Use 2 byte Cyclic Redundancy Check rather than 1 byte checksum
- B - Batch mode (i.e. multiple wildcarded files in one command)

The program keeps a log file in current or main directory if there are errors. Error status is returned to DCL for use in batch jobs and spawned subprocesses. XMODEM.FOR can be used for VAX to VAX file transfer including executable and other binary files if the VAX version of MODEM7 is available or by using an intermediate microcomputer running a MODEM7 compatible program. It works at least to 9600 baud on a moderately loaded VAX 11/780 (30-40 users). No privileges are necessary.

Notes: Executable and/or object code is included.

Changes and Improvements: Error status returned to DCL; output and log files opened SHARED.

DECUS No. V00096

Media (Service Charge Code): 600' Magnetic Tape (MA) Format: VAX/ANSI, or order VL0003

# COMMUNICATIONS

## KERMIT-11 Version: V3.50, April 1986

**Submitted by:** Brian Nelson, University of Toledo, Toledo, OH

**Operating System:** IAS V3.1, P/OS 2.0, PRO/RT-11 V5.2, RSTS/E V9.1, 9.2, RSX-11M V4.1, RSX-11M-PLUS V2.1, 3.0, RT-11 V5.1, 5.2 **Source Language:** MACRO-11 **Memory Required:** 20KW to 40KW **Hardware Required:** Extra DL11 or a DZ, DH, DHV or DHU Port **Keywords:** Data Communications, KERMIT, Utilities - RSTS/E, Utilities - RSX-11, Utilities - RT-11

**Abstract:** KERMIT is a protocol originally developed at Columbia University which has been used to implement error free packet file transfer and communications between computer systems, both mainframe to mainframe and micro to mainframe. This KERMIT-11 was developed by the author for RSTS/E, RSX-11M-PLUS, RSX-11M and RT-11.

KERMIT-11 will run on RSX-11M version 4.0 and RSTS/E version 7.2 as long as the task was built without RMSRES. To be able to build KERMIT on RSTS/E version 7.2 or RSX-11 version 4.0, you will have to get RMSLIB.OLB and MAC.TSK and RSX-11M V4.1 or RSTS/E V8.0. The need for version 2 of RMSLIB is due to the use of \$SEARCH, \$PARSE, \$RENAME and \$DELETE. The need for the newest MAC.TSK is due to the use of new directives such as .SAVE, .RESTORE and .INCLUDE.FILENAME/.

**Notes:** The magtape distribution contains sources, however, the floppy diskette distribution contains binaries only.

**Changes and Improvements:** Many, edits in KLLCMD.MAC

**Assoc. Documentation:** Recommended from Columbia University

**Restrictions:** See Installation Notes regarding the version required. (Installation Notes are part of the User's Manual). Runs on IAS to some degree.

**DECUS No. 110731**

**Media (Service Charge Code):** User's Manual (EB), Three RX01 Diskettes (KC) **Format:** RT-11, 2400' Magnetic Tape (PA) **Format:** DOS-11

## MS-DOS KERMIT Version: V2.28, April 1986

**Author:** Frank da Cruz, Columbia University

**Submitted by:** Brian Nelson, University of Toledo

**Operating System:** CP/M, MS-DOS V2 **Source Language:** 8088 Assembly Lang. **Keywords:** KERMIT

**Abstract:** MS-DOS KERMIT is a program that implements the KERMIT file transfer protocol for the IBM PC, XT, and AT and several other machines using the Intel 8086 processor family (8088, 80286 etc.) and operating system family (PC-DOS or MS-DOS, henceforth referred to collectively as MS-DOS or simply DOS).

The program operates under version 2.0 and above of DOS. It runs in approximately 80K of memory - over and above the memory used by DOS - which means that your system should have at least 128K of RAM to use version 2 of MS-DOS KERMIT.

Some capabilities of MS-DOS KERMIT are local and remote operation, transfers text and binary files, wildcard send, ^X/^Y interruption, filename collision avoidance, time out, 8th-bit prefixing, repeat count prefixing, alternate block checks, terminal emulation, communications settings, transmit BREAK, IBM mainframe communication, session logging, act as server, talk to server, advanced commands for servers, local file management, command/init files and command macros.

**Assoc. Documentation:** There is other documentation available from Columbia University. Sources not included.

**DECUS No. RB0111**

**Media (Service Charge Code):** User's Manual (EB), One RX50 Diskette (JA) **Format:** MS-DOS

## KERMIT for P/OS Version: 2.23

**Submitted by:** Joerg Buechner

**Operating System:** P/OS **Source Language:** MACRO-11 **Keywords:** Data Communications, KERMIT, Utilities - P/OS

**Abstract:** This package is complete with sources. No modifications have been made in the program code. Only .CMD- and .ODL-files have been changed to build KERMIT on P/OS. This version is command driven running at DCL-level with on-line help.

**Notes:** The maximum record length for ASCII text files to transfer is 160 bytes. This version of KERMIT has been tested only with SEND and RECEIVE in a direct computer to computer link. This version of KERMIT has been unsuccessful with an ATARI ST, running GEM ATARI/ST KERMIT (Bernhard Nebel) and successful with an IBM XT, running KERMIT-MS V2.27.

**Changes and Improvements:** Complete sources included.

**DECUS No. PRO148**

**Media (Service Charge Code):** Two RX50 Diskettes (JB) **Format:** FILES-11



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# VMS UTILITIES

## VAX DECReporter Version: 2.1

**Submitted by:** Digital Equipment Corporation

**Operating System:** MicroVMS V4.7, VAX/VMS V5.0 **Source Language:** BASIC, MACRO-32 **Memory Required:** 2 meg standalone **Software Required:** VAX Common Data Dictionary/Plus (CDD/Plus) V4.0, VAX DATATRIEVE V4.2, VMS Workstation Software V3.0 - V3.2 **Keywords:** Report Generator

**Abstract:** VAX DECReporter interactively creates reports using file and record descriptions stored in the VAX Common Data Dictionary/Plus (CDD/Plus). The user defines a report by choosing a CDD/Plus domain or view, the fields to print, column titles, calculated fields, sort and selection criteria. Report definitions may be saved in the CDD/Plus for future use.

The data in a database often needs to be accessed by many types of users, including programmers, business clerks, etc. VAX DECReporter has not only a "what you see is what you get" method of report preparation for the nonprogrammer, but also a "programmer's" command language to prepare complex reports without significant programming effort.

The first method of report specification using VAX DECReporter is a menu-driven interactive interface intended for the casual user. Through a series of menus, prompts and terminal screen images, the user is able to define a report while viewing an image of the report layout in progress.

The second method of report specification which VAX DECReporter supports is the programmer interface. Using an editor, a programmer creates a VAX DECReporter command procedure. VAX DECReporter may then be run in a non-interactive fashion using the command procedure created to produce the report.

DECReporter also provides a documented software call interface to allow programmers to incorporate the power and ease of use of DECReporter's report writing technology into their own programs.

**Notes:** Executable and/or object code is included.

**DECUS No.** VS0117

**Media (Service Charge Code):** 2400' Magnetic Tape (PC), TK50 Tape Cartridge (TC) **Format:** VMS/BACKUP

## DECUServe Conference Notes Version: Fall 1990

**Author:** Various

**Operating System:** VAX/VMS **Source Language:** VAX Notes **Keywords:** Bulletin Board, DECUServe

**Abstract:** The DECUServe bulletin board has hosted thousands of discussions on hundreds of topics over its lifetime. This submission consists of twenty megabytes of DECUServe notes, through Fall 1990. All information is provided in VAXnotes format and ASCII text files. Some of the broad areas covered include: databases, DATATRIEVE, networking, desktop publishing, electronic law, factory automation, real-time systems, hardware, MicroVaxes, office automation, personal computing, various Digital Equipment Corporation operating systems, security, site management, standards, user interfaces,

workstations, plus Digital Equipment Corporation, non Digital Equipment Corporation, public domain, third-party-VMS, and other software topics.

**Notes:** VAX Notes may be used to peruse conferences. Operating System VAX/VMS V4.7 or later is required. VAXnotes V1.2 or later is required.

**Changes and Improvements:** Additional material.

**DECUS No.** VS0104

**Media (Service Charge Code):** 2400' Magnetic Tapes (PD), 2400' Magnetic Tape (SD), TK50 Tape Cartridge (TD) **Format:** VMS/BACKUP

## X WINDOWS CLIENTS and DEMOS Version: 11, Release 3

**Submitted by:** Trevor Taylor, Microcomputer Technology, Queensland, Australia 4034

**Operating System:** VAX/VMS V5.1 **Source Language:** C **Memory Required:** 55KB **Software Required:** DECWINDOWS (Included with VMS V5.1) **Keywords:** Editors, Tools - Software Development, DECWINDOWS, X Windows

**Abstract:** This tape contains a large portion of the official X Window System (Version 11 Release 3) Distribution Kit from the Massachusetts Institute of Technology (M.I.T.).

The primary purpose of this re-mastering is to provide the VMS community with access to some of the more useful tools and demos as examples of X programming and for general use. The code has been converted to run under VMS DECwindows (except for a few clients which are for illustrative purposes only).

Included in the kit are the PostScript versions of the Xlib and X Toolkit Intrinsic manuals from MIT, as well as the C sources for Xlib, the Toolkit and the Athena Widget set.

A sampling of the applications is as follows:  
MIT Clients —

bitmap, xcalc, xclock, xdpinfo, xev, xfd, xload,  
xlsfonts, xlswins, xmag, xmodmap, xprop, xsetroot,  
xwd, xwininfo, xwud.

Demos and Games —

paint, qix, xcolors, xeyes, xfish, xgranite, xhanoi,  
xmille, xphoon, xso1.

**Notes:** Operating System VAX/VMS V5.1 for DECWINDOWS support is required.

**Restrictions:** This software is supplied "AS IS". Some bugs are known to exist.

**DECUS No.** VS0100

**Media (Service Charge Code):** 2400' Magnetic Tape (PC), TK50 Tape Cartridge (TC) **Format:** VMS/BACKUP



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# VMS UTILITIES

## Tape Utilities Version: February 1990

**Author:** Various

**Submitted by:** M. Edward Nieland, Control Data Corporation

**Operating System:** VAX/VMS V5.1 **Source Language:** BASIC, BLISS, C, MACRO-11, MACRO-32, PASCAL, VAX FORTRAN **Keywords:** Utilities - Disk - VMS, Utilities - Tape

**Abstract:** This is a collection of utilities for reading, writing, and analyzing tapes. These utilities have been extracted from a number of SIG tapes and have been placed in this one collection for ease of locating. The following is a brief summary of the contents of the collection:

BIGTPC	A Tape-DISK-Tape utility in PDP MACRO (no executable provided).
BRUREAD	A utility to read BRU tapes. Native mode VMS executable.
DUMPER	A program to read TOPS-10 and TOPS-20 DUMPER tapes.
ETAPE	Read/write foreign tapes in EBCDIC, ASCII, and Honeywell GCOS BCD formats.
FTCOPY	Foreign Tape Copy program.
FTP	Foreign Tape Processing Utility. Can read/write foreign tapes and make image copies of tapes on disk and write them back.
LU_TAPE	A utility to read/write/analyze foreign tapes (DECUS No. V00442)
MTEXCH	A utility to read/write foreign tapes of any of the following records: fixed length, RT-11 format, PIP-10 format, ANSID format, and VB format. The data can be in ASCII or EBCDIC.
MTU	Magnetic Tape Utility. Allows you to read, write, dump, and compare magnetic tapes (DECUS No. V00191)
TAPES	A utility to read foreign foreign tapes of various formats.
TAR	A program that will extract or write UNIX TAR archives on tape or disk. Uses a command language definition (CLD) interface to VMS.
TA_READ_Write	Several utilities to read/write UNIX TAR format, both tapes and disk files.
TAR2VMS	A program to convert TAR tapes and files to VMS files and a program (VMS2TAR) that does the reverse.
TCOPY	A program to quickly copy tapes when you have two tape drives. It allows the tapes to stream.
TPT	A tape benchmark program.
VFE	VAX file Editor. Can be used to analyze tapes when you don't know the tape format.
VMSTPC	A tape-disk-tape program for copying tapes where you have only one tape drive or the tape drives exist on different systems.
WG_TAPE_UTIL	Programs to analyze and read tapes. Includes a program to do DECnet tape copy via a DECnet object.

**Notes:** Submitted on behalf of the L&T Public Domain Working Group.

**Changes and Improvements:** Added support to read BRU tapes and TOPS DUMPER tapes. Added additional support for analysis of tapes. Updated other material.

DECUS No. VS0097

**Media (Service Charge Code):** 600' Magnetic Tape (MC) **Format:** VMS/BACKUP

## TeX Collection Version: August 1990

**Author:** Various

**Submitted by:** M. E. Nieland, Control Data Corporation, Earle Ake, SAIC

**Operating System:** MS-DOS V3.1, Macintosh V6.1, UNIX, VAX/VMS V5.3-1 **Source Language:** C, DCL, MODULA, PASCAL, VAX FORTRAN **Hardware Required:** Drivers supplied for various printers, monitors, and CPUs **Keywords:** Text Formatting, LaTeX, TeX

**Abstract:** The TeX Collection is based on the TeX Files stored at LABREA.STANFORD.EDU, YMIR.CLAREMONT.EDU, and other sites which are available via ANONYMOUS FTP, plus additional material collected from sources across the world. It is not necessary to have the compilers, since executable versions of most programs are included on the tape.

The TeX collection includes most source programs as well as object code. This package contains five major directory structures:

[.000_INSTRUCT]	Contains installation instructions.
[.TEX]	Contains all the material needed to get TeX up and running on your system. The material includes TeX, LaTeX, METAFONT, AmS-TeX, TeXsis, BIBTeX, PiCTeX, DVI Drivers, RNOTOTEX, a spelling checker that understands TeX/LaTeX, and WEB.
[.TEX_FONTS]	All the fonts for TeX. Plus additional font material.
[.TEX_SOURCE]	Contains the source code for everything in [.TEX], plus additional material such as additional DVI drivers, FWEB, and CWEB.
[.TEX_AMIGA]	Contains TeX and material to run TeX, LaTeX on an Amiga Computer. Includes DVI drivers.
[.TEX_MACINTOSH]	Contains TeX and material to run TeX, LaTeX on a Macintosh Computer. Includes a previewer and DVI Drivers.
[.TEX_MS-DOS]	Contains TeX and material to run TeX, LaTeX on a MS-DOS Computer. Includes a range of DVI drivers and previewers.
[.TEX_UNIX]	Contains TeX and material to build TeX and LaTeX on an UNIX Computer. Plus XTEX for DECstations.

The TeX Collection includes the other TeX related individual submissions from the DECUS Library. These submissions are:

- V00135 DVI to VDC: A TeX Page Previewer Program
- V00171 LaTeX Templates & Help files for LSE
- V00179 DEPROC: LaTeX for the DECUS Proceedings
- V00261 IdxTeX & GloTeX
- V00294 WEB Pack
- V00301 DVIOUT - DVI Output Driver
- V00399 DVI2PS
- V00416 MDRAW

The following output devices are supported:

- DEC LN03 (requires a RAM Cartridge) [DVI to LN03].
- DEC LN03 Plus (uses bitmaps) [DVIL3P].
- DEC LA75 [DVII175].
- PostScript (LPS40, Apple LaserWriter, LN03S) [DVIALW, DVIPS, DVIOUT, GTEX].

# VMS UTILITIES

- Hewlett Packard Laserjet [DVIJET].
- Hewlett Packard Laserjet Plus [DVIJEP].
- Cannon Engine Laserprinter [DVICAN].
- EPSON Printer [DVIEPS].
- Printronix Printer [DVI PRX].
- Okidata Pacemark 2410 (72 or 144 DPI) [DVIOKI].
- VT terminals, ReGIS Terminals, Tektronix Terminals [DVI to VDU].
- VAXStations running VWS [DVIDIS].
- DECWindows [XDVI, TeXX].
- Version 3.10 BBN BitGraph Terminal [DVI BIT].
- Golden Dawn Golden Laser 100 printer [DVI GD].
- Imagen imPRESS-language laser printer family [DVI IMP].
- Apple Imagewriter 72 or 144 dpi printers [DVI M72 or DVI MAC].
- MPI Sprinter 72 dpi printer [DVI MPI].
- Toshiba P-1351 180 dpi printer [DVI TOS].
- Generic Output [DVI 2TTY].
- QMS Laser Printers [GTEX].

The following items are new with this collection:

- FWEB
- CWEB
- PHYZZX
- PHYSE
- SCRIPTeX
- MUTeX
- AMSLaTeX
- DVIPS for VMS
- PSLaTeX
- TeXX for VMS
- MDRAW
- Many new Style Files
- Many new fonts
- CLD Interface for most programs
- Help Files for most of the collection
- Lots of documentation
- Introduction Articles for TeX and LaTeX

**Notes:** The August 1990 DECUS TeX collection has updated the following items: TeX (now version 3.0). LaTeX & SLiTeX (now version 2.09 <7 December 1989>), TeXsis, the LaTeX style collection, DVI to LN03, TeX for MS-DOS, and TeX for UNIX, fonts, WEB, OZTeX, DVIOUT, DVI to VDU, SPELL, BIBTEX, AMSTeX, and DVI2TTY. Executable and/or object code is included. Executables were compiled under VMS V5.3-1.

**Changes and Improvements:** Additional and updated material.

**Assoc. Documentation:** The TeX and LaTeX systems are described in two books, "LaTeX, a Document Preparation System", by Leslie Lamport, (ISBN 0-201-15790-X) and "The TeXbook", by Donald Knuth, (ISBN-0-201-13448-9) and are available through Addison & Wesley Publishers. This is considered minimal documentation for the system. Donald Knuth's five volume set, "Computers and Typesetting", is highly recommended. The five volume set includes "The TeXbook" and "The METAFONTbook". "The Joy of TeX" is the documentation for "AmS-TeX". The "PiCTeX Manual" will be needed if you wish to use "PiCTeX". These books should be purchased when you want to use the system properly. These books are not available through DECUS.

Release Notes distributed with each order. Complete sources not included.

DECUS No. VS0058

**Media (Service Charge Code):** 2400' Magnetic Tapes (PD), 2400' Magnetic Tape (SD), TK50 Tape Cartridge (TD) **Format:** VMS/BACKUP

**AnalytiCalc (PortaCalc): A 3D Spreadsheet/Database System in VMS/BACKUP**  
**Version: 25-01A, March 1990**

**Author:** Glenn C. Everhart, Ph.D.

**Submitted by:** Glenn C. Everhart, Ph.D.

**Operating System:** AMIGA DOS, IAS, MS/DOS, MicroVMS, RSX-11M, RSX-11M-PLUS, VAX/VMS **Source Language:** C, FORTRAN 77, FORTRAN IV-PLUS, MACRO-11, MACRO-32, VAX FORTRAN **Memory Required:** See Notes **Keywords:** Business Applications, Data Base Management, Mathematical, PortaCalc, Spreadsheet

**Abstract:** AnalytiCalc is a general purpose spreadsheet package featuring exceptional power and capability, ease of user extension, and many features unavailable even in the most expensive commercial spreadsheets.

The spreadsheet provides an address space of up to 32,000 rows, up to 32,000 columns, and up to 32,000 pages. Each cell may have one or more equations stored within it, and the cells can be displayed on screen in an unlimited number of windows. Cells may also reference external programs, access databases, control or be controlled by other applications. There are around 100 built-in functions (depending on how one counts variants) and around 10 cell address modes, with variants adding more. User functions can be added internally or externally. Built-in features cover all normal function, including things like built-in matrix math, FFTs, goalseeking in up to 8 dimensions, access to any number of datafiles, internal and external macros, journaling, free-form cell annotation, address math, as well as the usual math, business, statistical, logical, and time functions one expects in a full function spreadsheet.

A document integration feature also makes it simple to use AnalytiCalc as a text/numeric integration tool and an outliner. A substantial collection of additional routines which can be linked in with AnalytiCalc for specialized math or statistics is provided also, so that if for example you want a filter design function as a built-in, pick one out of the math libraries supplied, fill in a couple tables, and link it in.

AnalytiCalc is controlled either by function keys, by user commands, or with commands along the lines of commercial spreadsheets. The function key interface is user extensible. A complete DATATRIEVE interface exists, and the package comes with a relational DBMS also.

Some graphics programs and DIF format interchange functions are supplied with the package. VAX users are referred to DECUS No. V00212 as a presentation graphics interface also. Since unmodified user programs can be linked in, or controlled via mailboxes from code within AnalytiCalc, the plot packages can be made to appear seamlessly connected to AnalytiCalc. Some samples of this are included. Other sample code includes a project planning system in AnalytiCalc, a business expense report handler, and a U.S. Federal Income Tax template.

In addition, a number of virtual disk drivers and utilities are supplied for VMS and for RSX. These provide some features which facilitate sharing and privacy for spreadsheet and other uses.

On VMS or RSX, essentially any direct cursor addressing terminal can be used. Under AMIGA-DOS or MS-DOS, local facilities are used to handle console I/O directly, though terminals attached to those machines can be made to work with AnalytiCalc with minimal effort.



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# VMS UTILITIES

**SPECIAL HARDWARE:** On VAX, screen-independent cursor routines are used for screen addressing normally. On PDP-11, the software must be built for the appropriate terminal. Versions of the UVT100 subroutine for VT100, VT52, Datamedia Elite, and several other types of terminals including VT100 with Advanced Video and Colorscan 10 are supplied, with command files for most combinations. The VT52 versions will show what the minimum requirements are for control. Most any terminal can be easily interfaced to the package by editing one of the UVT100 routines to correspond to the terminal's control sequences, provided direct cursor addressing is supported.

Release Notes are distributed with each order.

**Notes:** PDP-11 users see DECUS No. 11S047 for an older version. Complete source code for all versions, with the exception of the pc version, is provided. Executable and/or object code is included. Versions are supplied for VAX/VMS (any version), PDP-11 (RSX-11M, RSX-11M-PLUS, or P/OS), MS-DOS (requires 256K RAM minimum), and AMIGA (requires 512K RAM).

**Changes and Improvements:** 3D functions added. Optional "cursor driven" data input capability added also.

Complete sources not included.

DECUS No. VS0024

**Media (Service Charge Code):** 2400' Magnetic Tape (PC), TK50 Tape Cartridge (TC) **Format:** VMS/BACKUP

## JMU Bulletin Board Version: 2.15, June 1988

**Submitted by:** Michael S. O'Neill, James Madison University, Harrisonburg, VA

**Operating System:** VAX/VMS V4.7 **Source Language:** VAX FORTRAN  
**Software Required:** FMS **Hardware Required:** VT100 compatible terminal or PC with VT emulation. **Keywords:** Bulletin Board

**Abstract:** The JMU Bulletin Board/Conferencing System is a FMS based menu driven system that utilizes the return and cursor keys for command selection. It is designed to allow novice users to easily use it for viewing notices without forcing them to become familiar with its advanced features.

Among its features are:

- Tracking of last notice read in each category.
- A menu driven user interface.
- Integral access to the EDT text editor.
- Context sensitive HELP system.
- Selective category omission on a per user basis.
- Automatic insertion of notice owner's userid.
- Direct access to the VMS mail utility while viewing a notice.
- A reply option for posting a response to a notice while it is being viewed.
- A backup option that allows the viewing of previously viewed notices.
- An output option that allows you to output a copy of a notice to a file, line printer (SYSS\$PRINT), or a printer connected to your terminal or PC.
- Support for multiple bulletin boards.
- Chaining of notice replies.
- Multi-level conferencing support.
- File upload and download support.

**Notes:** Operating System VAX/VMS V4.4 or higher is required.

**Changes and Improvements:** Menu enhancements, conference enhancements, bug fixes.

DECUS No. V00300

**Media (Service Charge Code):** 600' Magnetic Tape (MA) **Format:** VMS/BACKUP, or order VL0008

## VIEW Version: 5.3-0-A, April 1990

**Submitted by:** C.J. Chapman, Philips Defence Systems MEL, Crawley, Sussex, England, RH10 2PZ

**Operating System:** VAX/VMS V5.3 **Source Language:** MACRO-32  
**Memory Required:** 30KB Virtual Allocation **Keywords:** System Management - VMS

**Abstract:** The VIEW utility is a system management tool that enables the Systems Manager to display information on system processes or user processes. VIEW is very useful for taking a snapshot look at your system to establish what images are currently executing. VIEW continuously displays the following process information using manual scroll with dynamic refresh. Use any video terminal that supports the listed keypad functions:

- User Name or Process Name, Image Name, Process Id Login Time.
- Uic, Process State/Type, CPU Min/Sec Base Priority Current Priority.
- Working Set Size Image Activation Count, Disk I/O.
- Buffered I/O Page Faults, VMS Release, CPU's.
- Processes, Node Idle Time and Uptime since boot time.
- Date Time Access Port Name, Directory and Image Specification.

Idle time is computed using the arithmetic mean for VAX's using more than one Central Processor Unit.

Terminal Keypad Functions:

- Increase/Decrease Update Interval. (Up/Down.1)
- Move Process Highlight Bar (Up/Down.2)
- Increase/Decrease Base Priority (Left/Right)
- Display Process Page (Prev/Next)
- Enable/Disable Highlight Bar (Find.1)
- Clear Alternate Process Buffer (Find.2)
- Process User or Process Name (Select.1)
- Alternate Process Buffer (Select.2)
- Status Flag Display (Insert.1)
- Move to Directory (Insert.2)
- Delete Process (Remove)
- Help Display (Help)
- Clear Page (Do)
- Exit (Ctrl\_Y,C)

Multifunction keys are identified using (.1), (.2).

Release Notes are distributed with each order.

**Notes:** Operating System VAX/VMS V5.3 or later is required.

**Changes and Improvements:** Revised for VMS Version 5.3 or later.

DECUS No. V00286

**Media (Service Charge Code):** 600' Magnetic Tape (MA) **Format:** VMS/BACKUP, or order VL0008

# SYSTEM MANAGEMENT

**The DECUS VMS Startup Set**  
**Version: October 1990**

**WATCHDOG**  
**Version: 5.0, September 1989**

**Author:** Various

**Submitted by:** M. Edward Nieland, Control Data Corporation

**Operating System:** VAX/VMS V5.3-1 **Source Language:** BLISS-32, C, DCL, MACRO-32, PASCAL, VAX FORTRAN **Keywords:** System Management - VMS, Utilities - VMS

**Abstract:** This package contains some of the most popular non-commercial programs for VMS sites. This tape is intended to be easy to install, though it does not use VMSINSTAL. Follow the directions found in the file 000\_INSTRUCTIONS.TXT. The following are the program directories on this tape.

## General Utilities

[.BOSS]	Multi logins through one terminal.
[.BULLETIN]	Electronic BULLETIN Board.
[.DMSSD]	Directory Manager/Set Default Utilities.
[.EXE]	Executables of programs.
[.FILE]	Modify File Attributes without touching data.
[.FINGER]	Enhanced SHOW SYSTEM and more.
[.GNUEMACS]	Advanced Editor.
[.KERMIT]	Async Communications Protocol.
[.MAKE]	Port of UNIX MAKE to rebuild programs.
[.MODIFY]	MODIFY a string in all wildcarded files.
[.MORE]	Port of UNIX More, TYPE with bells and whistles.
[.SPELL]	A spelling checker.
[.STATUS]	An enhanced SHOW SYSTEM.
[.SWING]	Change Directories using Graph of directory tree.
[.TPUVI]	TPU emulation of the VI editor.
[.VFE]	VAX File Editor, edit files byte by byte.
[.VMSGCC]	GNU CC Compiler and C++ Compiler for VMS and BISON (YACC-like).
[.XMODEM-1]	A XMODEM communication protocol package.
[.XMODEM-2]	A XMODEM communication protocol package.
[.YMODEM]	A YMODEM communication protocol package.
[.ZMODEM]	A ZMODEM communication protocol package.
[.ZOO]	Create and use compressed file archives.

## System Manager Utilities

[.BECOME]	BECOME another user.
[.MAILUAF]	Manage the MAIL authorization File.
[.PTY]	PTY Drivers and PHOTO Program.
[.SNAP]	SNAP Shot of system, do things with it.
[.VERB]	Decompile DCL tables to make changes.
[.WATCH]	WATCH another terminal.
[.ZDEC]	Zero Device Error Counters of SHOW ERROR.

**Notes:** Executable and/or object code is included.

**Changes and Improvements:** Updated programs and new material.

**DECUS No. VS0108**

**Media (Service Charge Code):** 2400' Magnetic Tapes (PB), 2400' Magnetic Tape (SB), TK50 Tape Cartridge (TB) **Format:** VMS/BACKUP

**Submitted by:** George Walrod III, Cellular One

**Operating System:** See Notes **Source Language:** See Notes **Keywords:** Security, System Management - VMS, Utilities - VMS

**Abstract:** WATCHDOG is a program which monitors an interactive process for inactivity. A process is logged out after a defined interval. An inactive process is indicated by no change in CPU time and no buffered I/O count within a defined interval. Messages will be sent to the inactive process at a defined interval until the maximum inactive time limit is reached. A final message is sent to the user and an optional message is sent to the central operator making note that a user has been stopped. Another option includes ignoring a group of users. Many options exist and are documented. You should enjoy the comments made by the developer.

**Notes:** There are three versions of the program included on this tape; one for VAX/VMS V3.X, one for VAX/VMS V4.X, and one for VAX/VMS V5.X. The version for VAX/VMS V3.X is written in both FORTRAN-77 and MACRO-11. The version for VAX/VMS V4.X and for VAX/VMS V5.X is just written in MACRO-11.

**Changes and Improvements:** This version contains a program fix for running on multiprocessor CPUs.

**DECUS No. V00146**

**Media (Service Charge Code):** 600' Magnetic Tape (MA) **Format:** VMS/BACKUP, or order VL0004

# AND MORE ...

## ADA Collection from SIMTEL20 Version: March 1990

**Author:** Various

**Submitted by:** M. Edward Nieland, Control Data Corporation

**Operating System:** VAX/VMS V4.7 **Source Language:** ADA **Keywords:** Menu Control, Simulations, Software Collections, Tools - Applications Development, ADA

**Abstract:** This is a copy of the ADA Archives kept on the computer WSMR-SIMTEL20.ARMY.MIL. The SIMTEL-20 archive is accessible on the ARPA Internet via ANONYMOUS FTP. This tape is being made available for those people who do not have access to the Internet and FTP.

The archive is a snapshot of its state on February 13, 1990. All of the files in this archive are free to distribute.

The following are the directories in the collection:

ABSTRACTIONS, ADA-ADOPT, ADA-CAN, ADA-SQL, ADA-TUTR, ADAIC, AI, ANSI-LRM, BENCHMARKS, CAIS-TOOLS, CAIS, COMPILATION-ORDER, COMPONENTS, CROSS-REFERENCE, DBMS, DDN, DDN2, DEBUGGER, DOCUMENTS, DOD-STD-2167A, EDITORS, EDUCATION, EXTERNAL-TOOLS, FORMGEN, GENERAL, GKS, GNU-ADA-MODE, ID-FILES, MANAGEMENT-TOOLS, MASTER-INDEX, MATH, MENU, MESSAGE-HANDLING, METRICS, NEW-ABSTRACTIONS, NEWS, ONLINE-DOC, PAGER, PDL, PIWG, POINTERS, PRETTY-PRINTERS, RATIONALE, REAL-TIME, SEI, SIMULATION, SPELLER, STARTER-KIT, STUBBER, STYLE, TOOLS, TRANSLATORS, TRI-ADA, VIRTERM, WIS-ADA-TOOLS, WORD-PROCESSORS

No guarantees are made as to the completeness, usability, or quality of the programs on the tape and the material has not been checked or reviewed.

**Notes:** Due to the large number of files available, the archive maintainers cannot possibly attempt to validate the proper operation of the various programs. When a program bug is reported, immediate action is taken to either correct the error or remove the offending program from the archives. Still, users must understand that all archive programs are offered AS IS, and the archive maintainers specifically disclaim any liability should these programs malfunction or cause damage, incidental or otherwise. When testing ANY new software, be certain that all information stored on disk is backed-up before you start, so that you can recover if files are damaged or erased. This is particularly true if you have a hard disk, in which case malfunctions can be spectacularly disastrous.

**Changes and Improvements:** Updated collection.

**Restrictions:** U.S. Government export regulations prohibit distribution of this program the outside the United States without the appropriate export licenses.

Documentation may or may not be on magnetic media.

DECUS No. VS0091

**Media (Service Charge Code):** 2400' Magnetic Tapes (PB), 2400' Magnetic Tape (SB), TK50 Tape Cartridge (TB) **Format:** VMS/BACKUP



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## MS-DOS Collection from SIMTEL20, Part 2 of 2 Version: March 1990

**Submitted by:** M. Edward Nieland, Control Data Corporation

**Operating System:** MS-DOS V3.0, VAX/VMS V4.7 and V5.0 **Source Language:** BASIC, C, FORTRAN 77, PASCAL **Keywords:** Bulletin Board, Compilers, Games, Software Collections, Text Formatting

**Abstract:** This is part 2 of a copy of the MS-DOS Archives kept on the computer WSMR-SIMTEL20.ARMY.MIL. The SIMTEL-20 archive is accessible on the ARPA Internet via ANONYMOUS FTP. This tape is being made available for those people who do not have access to the Internet and FTP.

The archive is a snapshot of its state on February 15, 1990. All of the files in this archive are free to distribute.

The archive consists most of ARC files. The utilities to read the ARC files under DOS are located in the directory [.ARC-LBR]. Utilities to read these files under VMS are located in the directory [.VMS-UTIL].

Refer to DECUS Program No. VS0089 for Part 1 of the MS-DOS Collection from SIMTEL20.

The directories on this tape are:

ARC-LBR, NCSATELNET, NETWORK, OPUS, OS2, PACKET, PASCAL, PC-JR, PCMAG, PCPURSUIT, PCRESOURCE, PCTECH, PGMUTL, PIBTERM, PILOT, PLI, PLOT, PREPROCESS, PRINTER, PROCMM, PRODIGY, PROGJOURN, PROLOG, QBASIC, QMODEM, QPASCAL, RAMDISK, RBBS-PC, SCREEN, SMALL-C, SMALLTALK, SNOBOL4, SPREADSHEET, SPRINT, SQ-USQ, STARLINK, STARTER, STATISTICS, SURFMODL, SWAP, SYSUTL, TAXES, TELIX, TEX, TROJAN-PRO, TURBO-C, TURBOBAS, TURBOPAS, TXTUTL, UUCP, VENTURA, VGA, VMS-UTIL, VOICE, VOICEMAIL, WORLDMAP, X-10, XLISP, XPC, ZIP, ZMODEM, ZOO

No guarantees are made as to the completeness, usability, or quality of the programs on the tape and the material has not been checked or reviewed.

**Notes:** Due to the large number of files available, the archive maintainers cannot possibly attempt to validate the proper operation of the various programs. When a program bug is reported, immediate action is taken to either correct the error or remove the offending program from the archives. Still, users must understand that all archive programs are offered AS IS, and the archive maintainers specifically disclaim any liability should these programs malfunction or cause damage, incidental or otherwise. When testing ANY new software, be certain that all information stored on disk is backed-up before you start, so that you can recover if files are damaged or erased. This is particularly true if you have a hard disk, in which case malfunctions can be spectacularly disastrous.

**Changes and Improvements:** Updated collection.

Documentation may or may not be on magnetic media. Complete sources not included.

DECUS No. VS0090

**Media (Service Charge Code):** 2400' Magnetic Tapes (PD), 2400' Magnetic Tape (SD), TK50 Tape Cartridge (TD) **Format:** VSM/BACKUP

# AND MORE ...

## MS-DOS Collection from SIMTEL20, Part 1 of 2 Version: March 1990

Submitted by: M. Edward Nieland, Control Data Corporation

**Operating System:** MS-DOS V3.0, VAX/VMS V4.7 and V5.0 **Source Language:** BASIC, C, FORTRAN 77, PASCAL **Keywords:** Bulletin Board, Compilers, Games, Software Collections, Text Formatting

**Abstract:** This is part 1 of a copy of the MS-DOS Archives kept on the computer WSMR-SIMTEL20.ARMY.MIL. The SIMTEL-20 archive is accessible on the ARPA Internet via ANONYMOUS FTP. This tape is being made available for those people who do not have access to the Internet and FTP.

The archive is a snapshot of its state on February 15, 1990. All of the files in this archive are free to distribute.

The archive consists most of ARC files. The utilities to read the ARC files under DOS are located in the directory [.ARC-LBR]. Utilities to read these files under VMS are located in the directory [.VMS-UTIL].

Refer to DECUS No. VS0090 for Part 2 of the MS-DOS Collection from SIMTEL20.

The directories on this tape are:

ADA, AIJOURNAL, ALLCHARGE, APL, ARC-LBR, ASM-MAG, ASMUTL, AT, AUTOCAD, AWK, BASIC, BATUTL, BBS, BBSLISTS, BIBLE, BORLAND, BYTEMAG, C, CAD, CALCULATOR, CASE, CATALOG, CIS, CITADEL, CLIPPER, CMLNGMAG, CMU-PCIP, COMPATIBLES, COMPUTE-PC, CROSSASM, CROSSREF, DATABASE, DBASE, DDJAMG, DESKACCESS, DESKJET, DESKPUB, DESQVIEW, DIRUTL, DISASM, DSKUTL, EDITOR, EDUCATION, EEL, EGA, EMULATORS, FIDO, FILEDOCS, FILUTL, FINANCE, FLOWCHART, FORMGEN, FORTH, FORTRAN, FOSSIL, FREEMACS, GENIE, GIF, GRAPH, GRAPHICS, HAMRADIO, HANDICAP, HYPERCARD, IRT, KA9Q-TCPIP, KERMIT, KEYBOARD, LAN, LAPTOP, LASER, LISP, LOTUS123, MAC, MAPPING, MATH, MAX, MEMACS, MENU, MICROCORN, MODEM, MODULA2, MOUSE, MSJOURNAL, MSWINDOWS, MUSIC, SQ-USQ, VMS-UTIL, ZIP, ZOO

No guarantees are made as to the completeness, usability, or quality of the programs on the tape and the material has not been checked or reviewed.

**Notes:** Due to the large number of files available, the archive maintainers cannot possibly attempt to validate the proper operation of the various programs. When a program bug is reported, immediate action is taken to either correct the error or remove the offending program from the archives. Still, users must understand that all archive programs are offered AS IS, and the archive maintainers specifically disclaim any liability should these programs malfunction or cause damage, incidental or otherwise. When testing ANY new software, be certain that all information stored on disk is backed-up before you start, so that you can recover if files are damaged or erased. This is particularly true if you have a hard disk, in which case malfunctions can be spectacularly disastrous.

**Changes and Improvements:** Updated collection.

Documentation may or may not be on magnetic media. Complete sources not included.

DECUS No. VS0089

**Media (Service Charge Code):** 2400' Magnetic Tapes (PD), 2400' Magnetic Tape (SD), TK50 Tape Cartridge (TD) **Format:** VMS/BACKUP

## UNIX-C Collection from SIMTEL20 Version: March 1990

Author: Various

Submitted by: M. Edward Nieland, Control Data Corporation

**Operating System:** VAX/VMS V5.1 **Source Language:** Ada, C, FORTRAN 77, LISP, MODULA-2, OPS5, PASCAL, PROLOG **Keywords:** Calendars, Data Base Management, Editors, FORTRAN, Utilities - VMS

**Abstract:** This is a copy of the UNIX-C Archives kept on the computer WSMR-SIMTEL20.ARMY.MIL. The SIMTEL-20 archive is accessible on the ARPA Internet via ANONYMOUS FTP. This tape is being made available for those people who do not have access to the Internet and FTP.

The archive is a snapshot of its state on February 15, 1990. All of the files in this archive are free to distribute.

Refer to DECUS No. US0105 for a description of the ULTRIX version of the UNIX-C Collection from SIMTEL20.

The following are the directories in this Archive:

ARC-PROGS, BENCHMARKS, CALENDARS, CKERMIT, CPM, DATABASE, DIR-MGMT, EDITORS, FILE-MGMT, GNU, GRAPHICS, INFO, KERNEL, LANGUAGES, MACINTOSH, MAIL, NETWORKS, POSTSCRIPT, PRINTERS, SYSADMIN, TAPES, TELECOM, TEXTPROC, USENET, UTILS, VMS-UTILS, WINDOWS, XYZMODEM

No guarantees are made as to the completeness, usability, or quality of the programs on the tape and the material has not been checked or reviewed.

**Notes:** Due to the large number of files available, the archive maintainers cannot possibly attempt to validate the proper operation of the various programs. When a program bug is reported, immediate action is taken to either correct the error or remove the offending program from the archives. Still, users must understand that all archive programs are offered AS IS, and the archive maintainers specifically disclaim any liability should these programs malfunction or cause damage, incidental or otherwise. When testing ANY new software, be certain that all information stored on disk is backed-up before you start, so that you can recover if files are damaged or erased. This is particularly true if you have a hard disk, in which case malfunctions can be spectacularly disastrous.

**Changes and Improvements:** Updated collection.

Documentation may or may not be on magnetic media. Complete sources not included.

DECUS No. VS0088

**Media (Service Charge Code):** 2400' Magnetic Tapes (PB), 2400' Magnetic Tape (SB), TK50 Tape Cartridge (TB) **Format:** VMS/BACKUP

# AND MORE ...

## **DUNGEON** **Version: 3, May 1990**

**Submitted by:** Digital Equipment Corporation

**Operating System:** VAX/VMS V5.1 **Source Language:** VAX FORTRAN  
**Memory Required:** 500KB **Software Required:** VAX FORTRAN  
**Keywords:** Games

**Abstract:** DUNGEON is a game of adventure, danger, and low cunning. In it you will explore some of the most amazing territory ever seen by mortal man. Hardened adventurers have run screaming from the terrors contained within.

In DUNGEON, the intrepid explorer delves into the forgotten secrets of a lost labyrinth deep in the bowels of the earth, searching for vast treasures long hidden from prying eyes, treasures guarded by fearsome monsters and diabolical traps!

Release notes are distributed with each order.

**DECUS No. V00494**

**Media (Service Charge Code):** 600' Magnetic Tape (MA) **Format:** VMS/  
BACKUP

## **XIITEK** **Version: 3.1, December 1989**

**Submitted by:** Dr. Gerd Kobschall, Inst. Fur Kerophysik, Becherweg 45;  
D6500 Mainz, West Germany

**Operating System:** VAX/VMS V5.1-1 **Source Language:** C **Memory**  
**Required:** 500KB **Software Required:** DECwindows **Keywords:**  
Emulators, Tektronix

**Abstract:** XIITEK is a Tektronix emulator for DECwindows and X Windows 11. It provides 4010 Tektronix capability and nearly full 4014 capability including some Retrographics extensions. The emulator runs as a user subprocess and receives its input and sends its output via a mailbox from/to the Tektronix code generating application program.

**Notes:** Executable and/or object code is included. Operating System VAX/  
VMS V5.1 or later is required.

**DECUS No. V00463**

**Media (Service Charge Code):** 600' Magnetic Tape (MA) **Format:** VMS/  
BACKUP

## **DECserver - Print Queue** **Version: 1.0, November 1989**

**Submitted by:** Pasquale F. Scopelliti, Coming Incorporation, Coming, NY

**Operating System:** VAX/VMS **Source Language:** DCL **Software**  
**Required:** Terminal Server Manager (TSM) for Debugger **Keywords:**  
Utilities - VMS

**Abstract:** This package consists of files needed to manage large numbers of DECserver-based print queues. It contains .TXT files containing escape sequences for various devices, especially the LN03 printer. The following is a brief summary of highlights:

SETUP LAT DEVICES.COM	Reads the definition file LAT PRINTERS.DEF, and defines all the queues and LAT ports. Some user editing might be needed in the RESET sequences in the queue initialization commands and in the SET TERMINAL settings.
CHECK-QUEUE .COM	Checks all aspects of a DECserver based queue. In particular, it goes out to the DECserver and verifies that its name and port are setup properly. It requires that TSM (Terminal Server Manager) be installed.
MAINT.COM	Maintains the entries in SYSS\$LIBRARY:SYSDEVCTL.TLB.

Some of the setup escape sequences included are:

- LN03-80COL-PORTRAIT-3HOLE.TXT, LN03-132COL LANDSCAPE 3HOLE.TXT, these sequences leave room for a three hole punch.
- LN03 200-80.TXT, used for landscape printing at 200 characters by 80 lines. This is about as tight as can be, and still be readable.
- LN03-BOX.TXT, draws a box around the page.
- LN03-TCS-LANDSCAPE.TXT, LN03 TCS PORTRAIT.TXT, used for documents containing Technical Characters.

**Notes:** Operating System VAX/VMS V4.6 through V5 is required.

Complete sources may or may not be included.

**DECUS No. V00451**

**Media (Service Charge Code):** 600' Magnetic Tape (MA) **Format:** VMS/  
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# Programs Announced Since Publication of the 1990/1991 DECUS Library Catalog

Note: (R) Revised Programs

DECUS NO.	DESCRIPTION	VERSION	KEYWORD
<b>VMS Abstracts:</b>			
VS0122	Symposium Collection from DECUS France	Aug 1990	Symposia Tapes - VMS
VS0121	DECUS CDROM Collection 7	Fall 1990	Symposia Tapes - VMS
VS0120	Best of AMIGA Collection 3	June 1990	Utilities - VMS
VS0119	Symposium Collection VAX/L&T SIG, P2 of 2, Sp90, NO	June 1990	Symposia Tapes - VMS
VS0118	Symposium Collection VAX/L&T SIG, P1 of 2, Sp90, NO	June 1990	Symposia Tapes - VMS
VS0117	VAX DECReporter	2.1	Report Generator
VS0116	Macintosh Collection from SIMTEL20	March 1990	Tools Applications Development
VS0115	West Germany Tape Utilities	Dec 1989	Data Communications
VS0114	DECUS CDROM Collection 6	Spring 1990	Symposia Tapes - VMS
VS0108(R)	The DECUS VMS Startup Set	Oct 1990	Utilities - VMS
VS0107(R)	VAX/VMS Async Communications: KERMIT and XYZ MODEM	Nov 1990	Data Communications
VS0104(R)	DECUServe Conference Notes	Fall 1990	Bulletin Board
VS0091(R)	ADA Collection from SIMTEL20	March 1990	Menu Control
VS0090(R)	MS-DOS Collection from SIMTEL20, Part 2 of 2	March 1990	Bulletin Board
VS0089(R)	MS-DOS Collection from SIMTEL20, Part 1 of 2	March 1990	Compiler
VS0088(R)	UNIX-C Collection from SIMTEL20	March 1990	Editors
VS0086(R)	Macintosh Software Collection	Oct 1990	Business Applications
VS0058(R)	TeX Collection	Aug 1990	LaTeX
VS0053(R)	KERMIT Distribution	May 1990	Data Communications
V00499	CMSMMS	1.0, August 1990	Data Communications
V00498	CGLE	3.0g, Oct 1990	ReGIS
V00496	CHECKVER - Version Number Reviewer	1.0, Aug 1990	Utilities - VMS
V00495	TOPGUN	1.0, Mar 1990	System Management - VMS
V00494	DUNGEON	1.0, Mar 1990	Games
V00493	Power and Sample Size Calculations	May 1990	Mathematical
V00492	GLOBAL_EDIT	1.0, May 1990	File Management
V00491	Name Router	3.0, May 1990	Mail
V00490	DORMANT	2.1, Mar 1990	Utilities - VMS
V00489	Datebook	5.5, May 1990	Calendars
V00488	VAX Archiving	May 1990	File Management
V00487	Miscellaneous VMS Utilities	May 1990	Utilities - VMS
V00486	WATCHER	2.1, May 1990	Security
V00485	NEWSRDR	2.2, May 1990	Networking
V00482	Message Exchange	1.2-1, May 1990	Mail
V00480	Problem Reporting System	1.1, Mar 1990	Tools - Applications Development
V00479	FORMS ACCOUNTING and ACCOUNTING TOOLS	1, Jan 1990	Accounting
V00478	CEDIT	3.0, Mar 1990	Editors
V00477	SQUEEZER	1.01.G1.0	System Management - VMs
V00476	Cross_Help	1.0, Mar 1990	Cross-Reference
V00475	Placard Display	1.1, Feb 1990	Tools - Applications Development
V00474	SOFT_FONT	March 1990	Utilities - VMS
V00473	SOD	February 1990	DCL
V00472	MASTERMIND	1.0, Feb 1990	Games
V00471(R)	HPCALC	1.1, May 1990	Calculators
V00470	Check Passwords	1.1, Feb 1990	Security
V00442(R)	Lawrence University Tape Utilities	October 1990	IBM
V00425(R)	LASERS, QUEUES and Other Fun Things	1.4, Oct 1990	File Management
V00423(R)	Kronos	II.0, Jul 1990	Scheduling
V00417(R)	FORTTRANUM	1.2, Feb 1990	Tools - Applications Development
V00416(R)	MDRAW	2.5, May 1990	Graphics
V00401(R)	UNO and Others	1.50b, Jul 1990	Games
V00396(R)	EVEDT	4.3, May 1990	Editors
V00393(R)	IBMCNVT	April 1990	IBM
V00387(R)	TPUPlus	May 1990	Editors
V00385(R)	EDX Editor	7.4, Sep 1990	Emulators
V00374(R)	APLTPU/APLEVE	January 1990	Editors
V00345(R)	Ultimate SYSUAF Reporting Utility	May 1990	System Management - VMS
V00342(R)	IIT	5.3-0-B, Sep 1990	Utilities - VMS
V00340(R)	MA Queueing/Routing	MAQ 31, May 1990	Device Handler
V00336(R)	FTX	5.0-2-A, May 1990	Utilities - VMS
V00286(R)	VIEW	5.3-0-A, Apr 1990	System Management - VMS
V00193(R)	VTEDIT: Keypad Text Editor and Corrector for VAXTPU	5.2, Sep 1990	TECO

# Programs Announced Since Publication of the 1990/1991 DECUS Library Catalog

Note: (R) Revised Programs

DECUS NO.	DESCRIPTION	VERSION	KEYWORD
V00135(R)	DVI to VDU: A TeX Page Previewer Program	3.2	LaTeX
V00129(R)	FORTRAN Programming Tools	III.8, July 1990	Debugger
V00066(R)	NANNY	2.5A, April 1990	Utilities - VMS
<b>ULTRIX/RISC Abstracts:</b>			
US0111	Portable Bit Map Software Collection	November 1990	Utilities - ULTRIX/RISC
US0110	Fuzzy Bit Map Software Collection	November 1990	Utilities - ULTRIX/RISC
US0109	DECUS Software Ported to DECstation 3100	November 1990	Utilities - ULTRIX/RISC
U00124	KCL-dif fr DECstat. based on KCL Source, June 3, 1987	March 1990	Utilities - ULTRIX/RISC
<b>ULTRIX/UNIX Abstracts:</b>			
US0106	X Windows 11 Release 4	October 1990	Editors
US0105(R)	UNIX-C Collection from SIMTEL20	March 1990	Data Base Management
<b>PDP-11 Abstracts:</b>			
11S113	Symposium Collection RT-11 SIG, Sp90, NO	Spring 1990	Symposia Tapes - RT-11
11S112	Symposium Collection RSX SIG, Sp90, NO	1, June 1990	Symposia Tapes - RSX-11
11S111	Symposium Collection RSTS SIG, Sp89, At & F89, An	1, May 1990	Symposia Tapes - Rsts/E
110927	DECserver Load/Dump Support for RSTS/E	1.0-08	Networking
110926	CIS.OLB	1.0, Apr 1990	Tools - Applications Development
110925(R)	DECnet/RSX Utilities	2.0, Sep 1990	Networking
110918(R)	ASxxxx Assemblers and Linker	1.5, July 1990	Cross-Assemblers
110750(R)	TEM: A Terminal Emulator for RSX-11	90.012, May 1990	Emulators
<b>Personal Computer Abstracts:</b>			
RB0139	A Collection of MS-DOS Utilities 3	April 1990	Mail
RB0138	A Collection of MS-DOS Utilities 2	April 1990	Editors
RB0137(R)	XBOOK	1.1C, May 1990	Business Applications
CPM275	Col. 900809: NPS Micro-COB2.1, JRT PASC4.0 NSW.07	August 1990	Utilities - CP/M



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**If you have developed a program that others might be interested in, why not contribute it to the DECUS Library?**

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Each submittal or revision must be accompanied by a completed and signed DECUS Library Submittal Form. For your convenience a DECUS Library Submittal Form is included on the next page.

The submittal form is to be accompanied by:

- An abstract describing what the program does (250 words maximum).
- The program and related files on magnetic media.
- A directory of magnetic media submitted.
- If more than one submission is being submitted, each program should be included on its own media and with its own submittal form.

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 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 \_\_\_\_\_  
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 Phone: (     ) \_\_\_\_\_

2. Which of the above should be published in the DECUS Software Catalog?

Submitter:  Name  Company  Address  None  
 Author:  Name  Company  Address  None

3. May user questions or problems be forwarded?  Yes  No  
 If Yes, person to contact:

\_\_\_\_\_  
 Phone: (     ) \_\_\_\_\_

4. Program or Package Title: \_\_\_\_\_

Version/Date: \_\_\_\_\_

Is the submission  New  Revised

Keywords: \_\_\_\_\_

\_\_\_\_\_

5. If this is a revision to an existing program,

Previous DECUS No.: \_\_\_\_\_

Previous Title: \_\_\_\_\_

Changes and/or Improvements: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## COMPUTER HARDWARE/SOFTWARE REQUIREMENTS

6. Computer(s) on which this submission runs: \_\_\_\_\_

Operating System(s) on which this submission runs: \_\_\_\_\_

Is a particular operating system VERSION required?

Yes  No If YES, please explain: \_\_\_\_\_

\_\_\_\_\_

7. Operating System(s) and Version under which this submission was DEVELOPED/TESTED:

### PDP-11 Family

IAS version \_\_\_\_\_  
 Micro/RSTS version \_\_\_\_\_  
 Micro/RSX version \_\_\_\_\_  
 RSTS/E version \_\_\_\_\_  
 RSX-11M version \_\_\_\_\_  
 RSX-11M-PLUS version \_\_\_\_\_  
 RSX-11S version \_\_\_\_\_  
 RT-11 version \_\_\_\_\_

### PDP-8/DECmate Family

OS/8 version \_\_\_\_\_  
 OS/78 version \_\_\_\_\_  
 OS/278 version \_\_\_\_\_  
 CP/M version \_\_\_\_\_

### VAX Family

MicroVMS version \_\_\_\_\_  
 VMS version \_\_\_\_\_  
 ULTRIX version \_\_\_\_\_

### Personal Computer Family

CP/M version \_\_\_\_\_  
 MS-DOS version \_\_\_\_\_  
 P/OS version \_\_\_\_\_  
 RT version \_\_\_\_\_

### RISC Family

ULTRIX version \_\_\_\_\_

### Other

\_\_\_\_\_

8. Source Language(s) in which program is written:

<input type="checkbox"/> ADA	<input type="checkbox"/> DATATRIEVE
<input type="checkbox"/> ALGOL	<input type="checkbox"/> DCL
<input type="checkbox"/> APL	<input type="checkbox"/> DIBOL-83
<input type="checkbox"/> BASIC	<input type="checkbox"/> FORTRAN IV
<input type="checkbox"/> BASIC-11	<input type="checkbox"/> FORTRAN IV-PLUS
<input type="checkbox"/> BASIC, MU	<input type="checkbox"/> FORTRAN 77
<input type="checkbox"/> BASIC, VAX	<input type="checkbox"/> FORTRAN, VAX
<input type="checkbox"/> BASIC-PLUS	<input type="checkbox"/> LISP
<input type="checkbox"/> BASIC-PLUS-2	<input type="checkbox"/> MACRO-11
<input type="checkbox"/> BLISS-16	<input type="checkbox"/> MACRO-32
<input type="checkbox"/> BLISS-32	<input type="checkbox"/> MUMPS (Standard)
<input type="checkbox"/> C	<input type="checkbox"/> PASCAL
<input type="checkbox"/> COBOL, VAX	<input type="checkbox"/> PL/1
<input type="checkbox"/> COBOL-74	<input type="checkbox"/> RPG11
<input type="checkbox"/> COBOL-81	<input type="checkbox"/> Other _____

9. Memory Required (Words or Bytes): \_\_\_\_\_

10. Special Hardware Required: \_\_\_\_\_

Attach second sheet, if needed.

REV 3.0

11. Is executable and/or object code furnished?  
 Yes  No  
 If No, are any compilers needed to generate the program?  
 Please explain: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

12. Other Software Required: \_\_\_\_\_

13. Is there other documentation required which you have not included in your submission? \_\_\_\_\_  
 \_\_\_\_\_

14. Restrictions: \_\_\_\_\_  
 \_\_\_\_\_

15. Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**MATERIAL SUBMITTED**

16. Please check all material included with this submission.  
 ABSTRACT (250 words max.)  **HARDCOPY REQUIRED**  
 DIRECTORY LISTING  **HARDCOPY REQUIRED**  
 SOURCE CODE  **ON MAGNETIC MEDIA PREFERRED**  
 If COMPLETE sources are not included with this submission,  
 please explain: \_\_\_\_\_  
 \_\_\_\_\_

DOCUMENTATION (e.g. user manual or HELP file):  
 **HARDCOPY**  **ON MAGNETIC MEDIA**  **NOT AVAIL.**

**MEDIA SUBMITTED**

17. Type and Quantity of Media Submitted:  
 1 2 3 4  
    8" FLOPPY DISKETTES  RX01 (Single Density)  
 RX02 (Double Density)  
 (if applicable) Volume Label: \_\_\_\_\_  
 1 2 3 4  
    5 1/4" FLOPPY DISKETTES  RX50  
 (if applicable) Volume Label: \_\_\_\_\_  
 1  
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 (if applicable) Volume Label: \_\_\_\_\_  
 1 2 3 4  
    2400' MAGTAPES  1600 BPI  6250 BPI  
 (if applicable) Volume Label: \_\_\_\_\_  
 1  
 TK50 CARTRIDGE Volume Label: \_\_\_\_\_

18. Approximate amount of storage required and medium used:  
 \_\_\_\_\_

19. Format of Media Submitted (accepted formats listed below):

<b>VAX</b>	<b>Personal Computers</b>
<input type="checkbox"/> VAX/ANSI	<input type="checkbox"/> CP/M
<input type="checkbox"/> VMS/BACKUP	<input type="checkbox"/> MS-DOS
<input type="checkbox"/> TAR	<input type="checkbox"/> P/OS
<b>PDP-11</b>	<input type="checkbox"/> RT-11
<input type="checkbox"/> BRU	<b>PDP-8/DECmate</b>
<input type="checkbox"/> DOS-11	<input type="checkbox"/> OS/8, OS/78, OS/278
<input type="checkbox"/> FILES-11	<b>RISC</b>
<input type="checkbox"/> MUMPS-11	<input type="checkbox"/> TAR
<input type="checkbox"/> RT-11	

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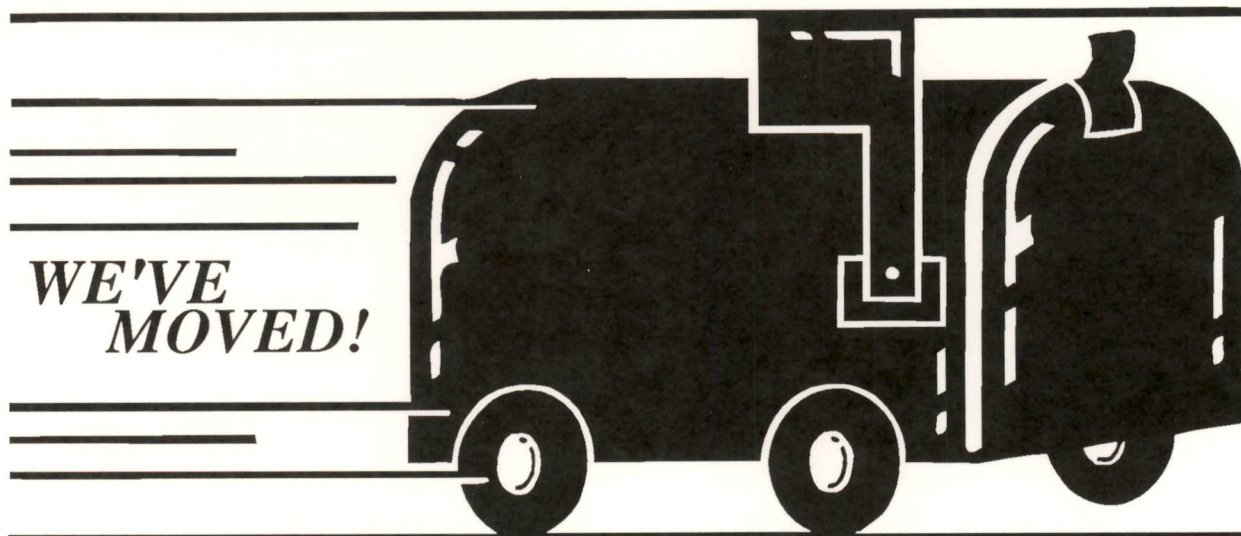
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## Software Catalog Update

*“Solving Your Everyday Problems”*

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## Welcome to the DECUS Library Catalog Update !

**In this update...** You'll find useful information about the Library's **new submissions** and some of its **more popular packages**. Choose from a wide selection of contributed software to help solve your everyday problems.

**Looking for software on CDROM?** The DECUS Library CDROM Series contains SIG tapes and other software collections. The CDROMs contain backup savesets which have been restored to disk, and files that have been decompressed and unarchived wherever possible. See **pages 2 and 3** for a description of the CDROMs currently available.

**The first Unix source collection on CDROM is available.** The Library's newest CDROM project contains X11 Release 5, GNU software, and a large number of programs from several Internet archives. A complete description is on **page 3**.

**Coming soon...**from the Fall 1991 Symposium, CDROM Collection 10 and the VAX and L&T SIG tapes. See **page 1** for information on how to order these upcoming items now.

**And there's more!** **Page 25** contains the complete list of new and revised programs since the full catalog was printed in July 1991. If you need additional information about an item, call the DECUS Library at 508-841-3389.

**VAST Session Notes from the Anaheim Symposium.** In cooperation with the "VAX to Alpha Systems Transition" (VAST) effort, the special edition of session notes for Alpha-related sessions presented at the Fall 1991 symposium is available from the DECUS Library. See **the inside back cover** for more information.

**Your programs are needed...** Help other users solve their everyday software problems. Contribute your program to the DECUS Library by using the submittal form on **page 27**.

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These Prices Are Effective July 1, 1991 through June 27, 1992

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(AB)	10	(JS)	35
(AC)	15		
(AD)	25	8" FLOPPY DISKETTES (RX01)	
(AE)	40	(KA)	25
(AF)	55	(KB)	30
		(KC)	35
LISTINGS		(KD)	40
(BA)	5		
(BB)	10	8" FLOPPY DISKETTES (RX02)	
(BC)	15	(LA)	25
		(LB)	30
COMPACT DISCS		(LC)	35
(CD)	100	(LD)	40
COMBINED WRITE-UP/LISTINGS		600' MAGNETIC TAPES (1600 BPI)	
(DA)	5	(MA)	40
(DB)	10	(MC)	55
(DC)	15	(MS)	55
(DD)	25		
		2400' MAGNETIC TAPES (1600 BPI)	
MANUALS		(PA)	70
(EA)	5	(PB)	140
(EB)	10	(PC)	130
(EC)	15	(PD)	160
(ED)	25	(PE)	190
(EE)	40	(PS)	130
(EF)	55		
(EG)	65	2400' MAGNETIC TAPES (6250 BPI)	
(EK)	240	(SB)	140
		(SD)	160
5 1/4" FLOPPY DISKETTES (RX50)		(SE)	190
(JA)	15		
(JB)	20	TK50 TAPE CARTRIDGES	
(JC)	25	(TA)	55
(JD)	30	(TB)	140
(JE)	35	(TC)	130
(JI)	55	(TD)	160
(JL)	85	(TE)	190

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# COMING ATTRACTIONS

PLACE YOUR ORDER NOW FOR THE UPCOMING  
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DELIVERY OF THESE PRODUCTS WILL OCCUR AS SOON AS  
AVAILABLE (ESTIMATED TO SHIP BEGINNING OF APRIL '92).

## **DECUS CDROM Collection 10 Version: Spring 1992**

**Author:** Various

**Operating System:** VAX/VMS **Source Language:** Various **Hardware Required:** VAX system equipped with RRDxx Compact Disc Reader or InfoServer System **Keywords:** Symposia Tapes - VMS, Symposia Tapes - L & T, DECUServe, CDROM

**Abstract:** This CDROM will contain the VAX/L&T SIG Tapes from Anaheim, Fall 1991 and DECUServe VAX Notes Conferences through Fall 1991. The CDROM may also include collections from Anaheim from other SIG's.

Complete contents of the CD were not known at the time of publication.

**Notes:** This CDROM, which comes in a jewel box case, is readable by any VAX system equipped with a Digital Equipment RRDxx Compact Disc Reader or InfoServer System. Documentation may or may not be on disc.

Complete sources may or may not be included.

**DECUS No.** VS0135

**Media (Service Charge Code):** Compact Disc (CD)

## **Symposium Collection from the VAX/Languages and Tools SIG, Part 1 of 2, Fall 1991, Anaheim Version: December 1991**

**Author:** Various

**Submitted by:** Glenn Everhart & Ted Nieland

**Operating System:** VAX/VMS **Keywords:** Symposia Tapes - VMS

**Abstract:** This is Part 1 of 2 of the VAX/Languages and Tools SIG tape from the Fall 1991 DECUS Symposium in Anaheim. Refer to DECUS No. VS0137 for Part 2 of the VAX/Languages and Tools SIG Tape. Users are advised to order both tapes in order to have the complete set. The tapes from the VAX and L&T SIG's were combined to reduce duplications between the two collections.

This collection contains new and revised system management and support software. Complete contents of the collection were not known at the time of publication.

**Notes:** The AAAREADME.TXT file is also available in hardcopy as a separate Writeup through the DECUS Library. This Writeup gives an

overview of each of the programs on this collection. To receive your hardcopy of this Writeup for AAAREADME.TXT, order the Media Service Charge Code (AC).

Documentation may or may not be on magnetic tape.

Complete sources may or may not be included.

**DECUS No.** VS0136

**Media (Service Charge Code):** Write-up (AC), 2400' Magnetic Tape (PD), 2400' Magnetic Tapes (SD), TK50 Tape Cartridge (TD) **Format:** VMS/BACKUP

## **Symposium Collection from the VAX/Languages and Tools SIG, Part 2 of 2, Fall 1991, Anaheim Version: December 1991**

**Author:** Various

**Submitted by:** Glenn Everhart & Ted Nieland

**Operating System:** VAX/VMS **Keywords:** Symposia Tapes - VMS

**Abstract:** This is Part 2 of 2 of the VAX/Languages and Tools SIG tape from the Fall 1991 DECUS Symposium in Anaheim. Refer to DECUS No. VS0136 for Part 1 of the VAX/Languages and Tools SIG Tape. Users are advised to order both tapes in order to have the complete set. The tapes from the VAX and L&T SIG's were combined to reduce duplications between the two collections.

This collection contains new and revised editors, compilers, useful programming tools and other utilities. Complete contents of the collection were not known at the time of publication.

**Notes:** The AAAREADME.TXT file is also available in hardcopy as a separate Writeup through the DECUS Library. This Writeup gives an overview of each of the programs on this collection. To receive your hardcopy of this Writeup for AAAREADME.TXT, order the Media Service Charge Code (AA).

Documentation may or may not be on magnetic tape.

Complete sources may or may not be included.

**DECUS No.** VS0137

**Media (Service Charge Code):** Write-up (AA), 2400' Magnetic Tape (PD), 2400' Magnetic Tapes (SD), TK50 Tape Cartridge (TD) **Format:** VMS/BACKUP

*All other items in the catalog are available for shipment today.  
Only items on this page are not yet available.*



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# CDROM

## DECUS CDROM Collection 9 Version: Fall 1991

Author: Various

Submitted by: Frank Bush

**Operating System:** VAX/VMS **Source Language:** Various **Hardware Required:** VAX system equipped with RRDxx Compact Disc Reader or InfoServer System **Keywords:** DATATRIEVE, Symposia Tapes - VMS, Symposia Tapes - L & T, DECUServe, CDROM, Symposia Tapes - BO/AIM

**Abstract:** This CDROM contains the following collections:

- The Spring 1991 VAX/L&T SIG Tape, Part 1 of 2, Atlanta, DECUS No. VS0131
- The Spring 1991 VAX/L&T SIG Tape, Part 2 of 2, Atlanta, DECUS No. VS0132
- BO/AIM SIG Tape, Spring 1991, DECUS No. VS0134
- DATATRIEVE/4GL SIG Tape, Spring 1991, DECUS No. VS0059
- GAP SIG Tape, Spring 1991, DECUS No. VS0129
- DECUServe VAX Notes Conferences, Spring 1991, DECUS No. VS0104

**Notes:** This CDROM, which comes in a jewel box case, is readable by any VAX system equipped with a Digital Equipment RRDxx Compact Disc Reader or InfoServer System.

Release notes distributed with each order. Documentation may or may not be on disc. Complete sources may or may not be included.

DECUS No. VS0133

Media (Service Charge Code): Compact Disc (CD)

## DECUS CDROM Collection 8 Version: Spring 1991

Submitted by: Jack Stevens and Frank Bush

**Operating System:** VAX/VMS **Source Language:** Various **Hardware Required:** VAX system equipped with RRDxx Compact Disc Reader or InfoServer System **Keywords:** Symposia Tapes - VMS, Symposia Tapes - L & T, DECUServe, CDROM

**Abstract:** This CDROM contains the following collections:

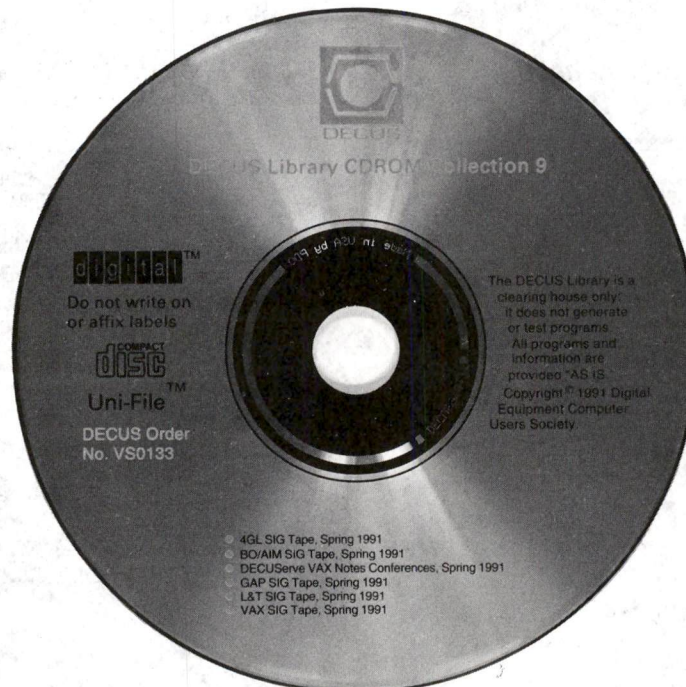
- DECUServe VAXnotes Conferences, Fall 1990, DECUS No. VS0104
- The Fall 1990 VAX/L&T SIG Tape, Part 1 of 2, Las Vegas, DECUS No. VS0124
- The Fall 1990 VAX/L&T SIG Tape, Part 2 of 2, Las Vegas, DECUS No. VS0125
- 4GL SIG Tape, Fall 1990 (contained on DECUS No. VS0124)
- OA SIG Tape, Fall 1990 (contained on DECUS No. VS0125)
- RSX SIG Tape, Fall 1990 (contained on DECUS No. VS0125)
- DECUS Library Catalog (contained on DECUS No. VS0125)
- KERMIT Collection, January 1991, DECUS No. VS0053

**Notes:** This CDROM, which comes in a jewel box case, is readable by any VAX system equipped with a Digital Equipment RRDxx Compact Disc Reader or InfoServer System.

Documentation may or may not be on disc. Complete sources may or may not be included.

DECUS No. VS0126

Media (Service Charge Code): Compact Disc (CD)



TO ORDER By Credit Card CALL: 508-841-3500

# CDROM

## DECUS CDROM Collection 7 Version: Fall 1990

Submitted by: Jack Stevens and Frank Bush

**Operating System:** VAX/VMS **Source Language:** Various **Hardware Required:** VAX system equipped with RRDxx Compact Disc Reader or InfoServer System **Keywords:** DATATRIEVE, Symposia Tapes - VMS, Symposia Tapes - L & T, TeX, DECUServe, CDROM

**Abstract:** This CDROM contains the following collections:

- The Spring 1990 VAX/L&T SIG Tape, Part 1 of 2, New Orleans, DECUS No. VS0118
- The Spring 1990 VAX/L&T SIG Tape, Part 2 of 2, New Orleans, DECUS No. VS0119
- DECUServe VAXnotes Conferences, April 1990, DECUS No. VS0104
- TeX Collection, August 1990, DECUS No. VS0058
- AI SIG Tape, Spring 1990
- DATATRIEVE/4GL SIG Tape, Spring 1990
- DECUS Library Catalog

**Notes:** This CDROM, which comes in a jewel box case, is readable by any VAX system equipped with a Digital Equipment RRDxx Compact Disc Reader or InfoServer System.

Documentation may or may not be on disc. Complete sources may or may not be included.

DECUS No. VS0121

**Media (Service Charge Code):** Compact Disc (CD)

## DECUS CDROM Collection 6 Version: Spring 1990

Submitted by: Jack Stevens

**Operating System:** VAX/VMS **Source Language:** Various **Hardware Required:** VAX system equipped with RRDxx Compact Disc Reader or InfoServer System **Keywords:** DATATRIEVE, Symposia Tapes - RSX-11, Symposia Tapes - VMS, Symposia Tapes - L & T, CDROM

**Abstract:** This CDROM contains the following collections:

- DECUServe VAXnotes Conferences, DECUS No. VS0104
- DATATRIEVE/4GL SIG Tape, Fall 1989, DECUS No. VS0059
- The Fall 1989 L&T SIG Tape, Anaheim, DECUS No. VS0105
- The Fall 1989 RSX SIG Tape, Anaheim, DECUS No. VS0111
- The 1989 RSX SIG Tape from Europe
- The Fall 1989 VAX SIG Tape, Anaheim, DECUS No. VS0106
- X Windows Clients & Demos for VMS, DECUS No. VS0100
- X Windows, Version 11, Release 4

**Notes:** This CDROM, which comes in a jewel box case, is readable by any VAX system equipped with a Digital Equipment RRDxx Compact Disc Reader or InfoServer System.

Documentation may or may not be on disc. Complete sources may or may not be included.

DECUS No. VS0114

**Media (Service Charge Code):** Compact Disc (CD)

## UNIX CDROM Collection Fall 1991

Submitted by: David Warren



**Operating System:** UNIX **Source Language:** Various **Hardware Required:** UNIX system equipped with Compact Disc Reader or InfoServer System **Software Required:** ISO 9660 driver **Keywords:** Utilities - ULTRIX/UNIX, Utilities - ULTRIX/RISC, X Windows

**Abstract:** This CDROM contains the following general categories:

- General UNIX Utilities, DECUS No. US0114  
Consists of ckermit, elm, fineclock, ispell, less, monitor, perl, text, rmtlib, vmsbackup, tcpdump, and tchsh.
- GNU Software  
Software from the Free Software Foundation. Some of this is still in tar format, but a lot has been uncompressed and untared. Includes bison, flex-2.3.7, diff, emacs-18.57, epoch-3.2, gcc-1.40, g++-1.39, gdb-4.0, gnus-3.13, epoch, make-3.62, rcs-5.5, and tar-1.10.
- X Windows 11 Release 5 Patch Level 3  
X11R5 patch level 3; and two utilities for controlling the Digital Equipment Corporation CDROM player under X.
- SIMTEL UNIX Archives, DECUS No. US0105,  
consisting of the UNIX C archives from the Internet.

**Notes:** This CDROM, which comes in a jewel box case, is in ISO 9660 file format and is readable by any system equipped with a CD Reader and an ISO 9660 driver. The filenames had to be changed to comply with the ISO 9660 standard. A utility is provided to link the correct filenames to the names on the CDROM.

Release notes distributed with each order.

Documentation may or may not be on disc. Complete sources may or may not be included.

DECUS No. US0112

**Media (Service Charge Code):** Compact Disc (CD)

# VAX LIBRARY COLLECTIONS

## The VAX Library Collection 15 Version: 1991/1992

**Keywords:** Library Tapes - VMS

**Abstract:** The VAX Library Collection 15 contains the following programs. For a complete description of each program refer to the "DECUS NO." and "TITLE" in the DECUS Library catalog.

DECUS NO.	TITLE
V00458	LeafWare and Graphics
V00511	Read_Rally
V00512	Purge Read & Outbox
V00513	Idlelog
V00514	DFI/DMI and Helper
V00515	KPY GRAPHICS-I Graphics Application
V00516	SIGNAL
V00518	VAX SCAN Examples
V00519	DF Utility
V00520	IEW to VAX Bridge Software
V00521	Supervisor Series
V00522	ASxxxx Assembler Linker for VMS

Release notes distributed with each order. Documentation may or may not be on magnetic media.

Complete sources may or may not be included.

**DECUS No. VL0015**

**Media (Service Charge Code):** User's Manual (EC), 2400' Magnetic Tape (PC), TK50 Tape Cartridge (TC) **Format:** VMS/BACKUP

## The VAX Library Collection 14 Version: 1991/1992

**Keywords:** Library Tapes - VMS

**Abstract:** The VAX Library Collection 14 contains the following programs. For a complete description of each program refer to the "DECUS NO." and "TITLE" in the DECUS Library catalog.

DECUS NO.	TITLE
V00488	VAX Archiving
V00489	Datebook
V00490	DORMANT
V00491	Name Router
V00492	GLOBAL_EDIT
V00493	Power and Sample Size Cal.
V00494	DUNGEON
V00495	TOPGUN
V00496	CHECKVER
V00498	CGLE
V00499	CMSMMS
V00500	Network Management Util.
V00501	Hot Files
V00502	MATHLIB
V00505	DYNIDENT
V00506	File Def. to Common Data Dict.
V00507	ACCESS_CHECK
V00508	LOGGER
V00509	Cessna PC Utilities

Release notes are distributed with each order. Documentation may or may not be on magnetic media.

Complete sources may or may not be included.

**DECUS No. VL0014**

**Media (Service Charge Code):** User's Manual (EC), 2400' Magnetic Tape (PC), TK50 Tape Cartridge (TC) **Format:** VMS/BACKUP

# VAX LIBRARY COLLECTIONS

## The VAX Library Collection 13 Version: 1991/1992

**Keywords:** Library Tapes - VMS

**Abstract:** The VAX Library Collection 13 contains the following programs. For a complete description of each program refer to the "DECUS NO." and "TITLE" in the DECUS Library catalog.

DECUS NO.	TITLE
V00454	LAT App. Port Manip. Routines
V00455	PROTEC
V00456	GAMES - Utilities and Monitor
V00457	STP - Setpoint's Text Processor
V00459	Sorting Benchmarks
V00460	TTP: Terminal Transfer Program
V00461	Animated Sorting Algorithms
V00462	CD_ACCESS
V00463	X11TEK
V00464	LOOK - A BASIC Language File Browser
V00465	TEKED
V00467	QMAN
V00468	RESETV
V00469	POSE
V00470	Check Passwords
V00471	HPCALC
V00472	MASTERMIND
V00473	SOD
V00474	SOFT_FONT
V00475	Placard Display
V00476	Cross_Help
V00477	SQUEEZER
V00478	CEDIT
V00479	FORMS ACCTG. AND ACCTG. TOOLS
V00480	Problem Reporting System
V00484	Blocked PID Locator
V00485	NEWSRDR
V00486	WATCHER
V00487	Misc. VMS Utilities

Release notes are distributed with each order. Documentation may or may not be on magnetic media.

Complete sources may or may not be included.

### DECUS No. VL0013

**Media (Service Charge Code):** User's Manual (ED), 2400' Magnetic Tape (PC), TK50 Tape Cartridge (TC) **Format:** VMS/BACKUP

## The VAX Library Collection 12 Version: 1991/1992

**Keywords:** Library Tapes - VMS

**Abstract:** The VAX Library Collection 12 contains the following programs. For a complete description of each program refer to the "DECUS NO." and "TITLE" in the DECUS Library catalog.

DECUS NO.	TITLE
V00431	Image Analysis
V00432	Finger for VMS
V00433	ASU Utilities
V00434	SRS-Symposium Registration System
V00435	WHALES
V00436	VAXDASH
V00438	CALENDAR
V00439	PROFILE
V00442	Lawrence University Tape Utilities
V00443	LSE for Ingres Osl and SQL Languages
V00444	FIBA - File Batch Generator
V00445	Text Formatter for LN03 Printer
V00446	DOS 2 VAX High BIT ASCII Character Translator
V00447	REPORT_USAGE.FOR
V00448	VMS Show Files
V00449	Terminator
V00450	SDMENU
V00451	DECserver-Print Queue
V00452	SIT System Software
V00453	XEVE Spelling Checker

Release notes distributed with each order. Documentation may or may not be on magnetic media.

Complete sources may or may not be included.

### DECUS No. VL0012

**Media (Service Charge Code):** User's Manual (EA), 2400' Magnetic Tape (PC), TK50 Tape Cartridge (TC) **Format:** VMS/BACKUP



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# SYMPOSIUM COLLECTIONS

**Symposium Collection from the VAX/Languages  
and Tools SIG,  
Part 1 of 2, Spring 1991, Atlanta  
Version: May 1991**

**Author:** Various

**Submitted by:** Glenn Everhart & Ted Nieland

**Operating System:** IAS, MicroVMS, RSX-11M, RSX-11M-PLUS, ULTRIX, VAX/VMS **Source Language:** BLISS-32, C, DCL, FORTRAN 77, FORTRAN IV, MACRO-11, MACRO-32, PASCAL, VAX BASIC, VAX FORTRAN **Keywords:** Symposia Tapes - VMS

**Abstract:** This is Part 1 of 2 of the VAX/Languages and Tools SIG tape from the Spring 1991 DECUS Symposium in Atlanta. Refer to DECUS No. VS0132 for Part 2 of the VAX/Languages and Tools SIG Tape. Users are advised to order both tapes in order to have the complete set. The tapes from the VAX and L&T SIG's were combined to reduce duplications between the two collections.

Following is a brief summary of highlights:

91AVAXLT

This directory tree contains the index files and a description of the collection plus a [TOOLS] subdirectory containing utilities needed to decompress or unpack some of the packed items contained here.

DECUSLIB

This directory tree contains complete machine readable text of the DECUS Library catalog, plus all available machine readable descriptions of older material not in print in the current catalog.

VAX91A

- [4GL\_SIG] 4GL SIG collection update includes 4GL Comparison report, newsletters, etc.
- [.ANTIVIRUS] Anti-viral programs for PC (MS-DOS), Macintosh, and AMIGA platforms since the Fall 1990 tapes. Submitted by G. Everhart.
- [.AUSDECUS] DECUS Australia tape 1990. Includes fortune cookie program, broadcast of batch info to console, disk space scanner, notes from Australian Symposium, how to set up priv shareable image, Portable Bitmap tools, several X11 demos for VMS, xterm, abbreviation store, idle terminal killer, VAX user intercommunication.
- [.BARNES] TETRIS-like game for X windows.
- [.BRIAN-JIM] SYMTAB file lists symbols in object files.
- [.BULLETIN] Messaging and teleconferencing system; also NEWS reader & gateway.
- [.CKERMIT] C KERMIT 5A(171), beta C KERMIT.
- [.DBAG] Full function relational database management system (DBMS) similar to dBASE III. Relinked for VMS V5.X since the Fall 1989 version will not run on VMS V5.X.
- [.DECUSERVE\_1991a] FORCEX - force image exit on other process.  
WATCH - watch (or type to) another process' terminal.
- [.DEMAX] Slides from talk on INSTALL internals. Slides from talk on logical names internals. Also sample code.
- [.DF] DF is like the UNIX DF command, gives a more informative display than \$ SHO DEV D, written in FORTRAN.
- [.DIBOL] System services and other Runtime info for VAX DIBOL.
- [.ETHERNET] Show hardware addresses, general ethernet packets, and LAVC packets on ethernet.

[.EURO91]

DECUS Munich contribution. Includes BREAK (blocks terminal until password), facility to run FORTRAN and PASCAL in parts of one's net making it look as if they were everywhere. LMF database cleanup aids. VTEDIT interface in TPU (far more in it than the old TECO VTEDIT).

[.FLOWERS]

Disk watcher (free space monitor). Show files using VMS global buffers. Menu system for DCL. Free memory monitor. Ask-operator facility. Add checksum to CMD file. Mail edit including spell check, quoting. Mail UAF maintainer. System status program. Util to let selected identifiers be granted/revoked by nonprov'd users holding "master" identifiers. PMP - mail users a phone message. CSwing directory management tool.

[.GCE91a]

AnalytiCalc, including version using SMG\$. VMS local virtual disk package. BBOARD bulletin - connects notes to mail. DKBRA YTRACE - Raytracer for several systems. NET91A - LARGE collection of useful material from Internet, including an updated/enhanced BOSS multiterminal monitor, MORE replacement, updates to XV (image view in X), DECwindows and X examples, generic RZ/SZ (Zmodem), VMS TAR updates, force workset trim, head/tail, MIRROR to let multiple terminals talk to one session, TECOC update (with screen support now); swing.

[.GOATLEY]

BAT, creates and submits batch files. FLIST - file and directory maintenance tool.

[.IUPOP3]

POP3 mail server for VMS; lets PCs or Macs pick up mail on VAX.

[.JBAKER]

CONFIRM - login msg that has read confirmation. Disk space report. Util telling when a user last logged in. Phonebook type utility. Show version of software. A/D - D/A control. Set up mail lists for X400 and SoftSwitch. Setuser program; fast symbol definition. Show new mail count. Callable mail interface progs. Simple database.

[.JSCMSD]

[.MCMAHON]

X transport debugging aids. DCL interface to gethostbyname(). docs on WSDriver and DECwindows. Display of who is using X. WHOIS (internet) client.

[.NEWS60]

[.NSWC]

ANU News 6.0-3 plus all patches to date. SD - set default prog. LET - symbol definer. Draw directory tree. MODIFY - replace pattern in a group of files. REFORMAT - copies a file, many conversions available. SPCOPY - copy/print file with filters for nonprinting chars., pagination, etc. Two person login. DCL CMD buffer save/restore. FDIFF - report of differences of a directory tree over time. SYMSG - display system messages. Viewgraph producer for Postscript printers. Check print queues for stopped stalled, etc., Monitor for disk space low. SESSIONS - show how many logins a user has (or enforce one only) per cluster. Show disk transactions on current node. SMG display of free space. Terminal pictures.

[.PAVLIN]

ETHERMON - general purpose ETHERNET monitor and display. Now finds gateways. DSPELL - version of Vassar spell corrector with dictionary purged of incorrect words; documentation not complete; see older docs. SNMPSnoop - see what a remote ETHERNET NODE can display from SNMP. MTACC - magtape access routines.

[.PEDERSON]

Bitmap graphics on all VT2XX, VT3XX, VT4XX terminals even if they lack ReGIS.

[.PENNER]

List number of free headers on a disk. Show which queue a terminal is spooled to. Show what processes are using a global section.

# SYMPOSIUM COLLECTIONS

- [PERLUNIX] Last stable version of Perl V3, a pattern matching language, for UNIX. (Note the .GNUsoftware] area contains a V4 Perl).
- [PROGRESS] Programs from the last couple years which have been published in VAX Professional magazine. Included are 340mouse, astproc, barcode, bitflags, bldimage, bucket split, calendar, call hierarchy from object files, call other langs from VAX C, capacity, cleanup, clock, command recall, COM\_ARGS, DCLpower, dired, dislist, DPA, DSM, dynarray, EMACSTPU, errclear, extlogin, fasu, filattrib, hashtable, lots of hitchhiker's guide to VMS, imagelib, input, integrate, kernell, kitwindow, knots, LN03graph, mailtour, managemen, modetime, nopriv, openviro, pda0recover, pixmaps, printque, privmask, profiler, reporterr, rfaaccess, rights, script, SDA3, spybeam-detector, squeezer, switch, swlayer, testtime, timer, tuningRMS, uil, unlockdsk, vector, VMSlock, watchpoint, xevents, xvies.
- [QUEUE-CONTROL] Start/stop or modify print queues without needing OPER privs.
- [RCS] RCS, an SCCS or DEC CMS - like source control system V4.3, updated VMS port, plus GNU Diff for VMS.
- [RPI] MX - Message Exchange - mail router between UUCP, DECnet, BITnet, and/or TCP/IP, VMSINSTALLable. Also supports file server, mail lists. NEWSRDR - NNTP client to read news. PCX - read/write MS-DOS floppies on VMS. WATCHER - flexible idle terminal monitor, many controls. Works with VWS or DECWindows as well as terminals.
- [RSX91A.BRU-READ] RSX Spring 1991 submission, a BRU tape reader update in PASCAL (for VMS). Many new switches.
- [RSX91A.TPC] This is V1.75 of TPC, the fast tape copy program.
- [SCAN] VAX SCAN examples from seminar.
- [SIMON] ALL-IN-1 tools. Check bad dirs, report of shared dirs, ALL-IN-1 users deleted who had mail, archiving aids, stats report on usage of ALL-IN-1.
- [SPX] Reference implementation (less the crypto sources) of a distributed authentication service. Includes forms to get the crypto sources by mail.
- [STITZINGER] Contains the table of contents of the session notes from the Fall 1990 and Spring 1991 DECUS Symposium.
- [TIHOR] Some of VMSNET.SOURCES archives, and security and other information from VMSNET and Info-VAX.
- [UNZIP] VMS Unzip program including sources.
- [VMSKERMIT] New test version of BLISS VMS KERMIT with file attribute preservation code.
- [VMSNET\_ARC-HIVES] Complete VMSNET sources archives; a wealth of sources of utilities.
- [WHO] Report what is in the UAF about a user if either username or UIC are known. Many security facilities to prevent abuse.
- [WRIGHTGR] Set Default command. Signal - message utility use within DCL. More.
- [ZACCA1] ALL-IN-1 management aids; tell what a WPS file is; give stats on documents. Clean up pending mail. Profile users.

**Notes:** The AAAREADME.TXT file is also available in hardcopy as a separate Writeup through the DECUS Library. This Writeup gives an overview of each of the programs on this collection. To receive your hardcopy of this Writeup for AAAREADME.TXT, order the Media Service Charge Code (AC).

Complete sources not included.

**DECUS No. VS0131**

**Media (Service Charge Code):** Write-Up (AC), 2400' Magnetic Tapes (PD), 2400' Magnetic Tape (SD), TK50 Tape Cartridge (TD) **Format:** VMS/BACKUP

**Symposium Collection from the VAX/Languages and Tools SIG,  
Part 2 of 2, Spring 1991, Atlanta  
Version: May 1991**

**Author:** Various

**Submitted by:** Glenn Everhart & Ted Nieland

**Operating System:** IAS, MicroVMS, RSX-11M, RSX-11M-PLUS, ULTRIX, VAX/VMS **Source Language:** BLISS-32, C, DCL, FORTRAN 77, FORTRAN IV, MACRO-11, MACRO-32, PASCAL, VAX BASIC, VAX FORTRAN **Keywords:** Symposia Tapes - VMS

**Abstract:** This is Part 2 of 2 of the VAX/Languages and Tools SIG tape from the Spring 1991 DECUS Symposium in Atlanta. Refer to DECUS No. VS0131 for Part 1 of the VAX/Languages and Tools SIG Tape. Users are advised to order both tapes in order to have the complete set. The tapes from the VAX and L&T SIG's were combined to reduce duplications between the two collections.

The following is a brief summary of highlights:

91AVAXLT

This directory tree contains the index files and a description of the collection plus a [TOOLS] subdirectory containing utilities needed to decompress or unpack some of the packed items contained here.

LT91A

[EPUBS.DVIPS] Convert DVI (TeX output) files to Postscript.

[EPUBS.MF] MetaFont (font designer) for VMS, TeX.

[EPUBS.TEX] Latest version of TeX text formatter for VMS.

[GAPSIG91A] DECUS GAPSIG tape 1991; many graphics packages for various engines.

[GNUSOF-TWARE]

Latest GNU software including update for GNU C for VMS, latest GNU C, Oleo spreadsheet, GCC, G++, and many other utilities.

[MODULA3]

Modula-3 compiler for UNIX from GATEKEEPER.DEC.COM and updated since the Fall 1990 tapes.

[NCSA]

Latest NCSA Telnet (TCP/IP for Macintosh or IBMPC).

[PC]

Collection of MS-DOS and Mac utilities which has been distributed by the DECUS PC SIG in 1990 and 1991 on diskette, furnished in PATHworks format.

[UNIXTOOLS]

Additional UNIX-based material including APL, BASIC, PROLOG, numerous mail and news utilities, zephyr (a terminal to terminal talk over X), XGKS, COPS (UNIX security aid) and more. Program names



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# SYMPOSIUM COLLECTIONS

include: APL, BASIC Battmem11, Berkeleyprolog, Bosssparc1, Bplus1, Bplus2, C-News, Calen1, Calen2, Calen3, Calen4, Calen5, Calen7, Calen8, COPS.READ1ST, COPS.README, COPS102.COVERLTR, COPS102, Cprotol, Cproto2, Cprotopatch01, Delet1, Delet2, Delet3, Delet4, Deletpat13, F2C26Apr91, IDA\_SENDMAIL, INDEXCSUV23\_1.TXT, INDEXCSUV23\_1, INDEXCSUV23\_2.TXT, INDEXCSUV23\_2, INDEXCSUV24\_1.TXT, INDEXCSUV24\_2, INDEXCSUV24\_2, 1Harcunix00, Mush65, Smail3\_1\_19, Sun3270enhance1, Sun3270p1, Sun3270p2, Sun3270p3, Suncontolpat1, Suncontolpat2, Suncontool0, Suncontool1, Suncontool2, Suncontool3, Suncontool4, Suncontool5, Suncontool6, TARx, Untic2, VMS\_NNTP, VTEM\_P1TRM, VTEM\_README.TXT, VTEM\_TRM.H, VTEM\_VTRM, Watch, Xgks, Xgksann, XGKS\_CBINDING, XGKS\_GUIDE, XGKS\_MAN, XGKS\_USERDOC, ZEPHYR.DIR, Zoo2, Zoosrc, ZEPHYR\_DOC, ZEPHYR\_SRC. Large collection of tools and utilities from various Internet repositories, including UUNET. Includes Internet Indices, TN3270, PPP, TCL, Netcure (PC based ethernet monitor), selections from COMP.SOURCES.UNIX, ALT.SOURCES, COMP.SOURCES.X, COMP.SOURCES.SUN, COMP.SOURCES.MISC, and much more. Programs names include: Adduser, ALTSRC.DIR, ATHENA\_DISCUSS15, Batch, CMU-SNMP11B.TAR, CONDOR.README, CONDOR4\_0\_0, CONDOR\_ANN.TXT, CONDOR\_INSTALL.PS, CONDOR\_TECH.PS, CSM.DIR, CSS.DIR, CSU.DIR, CSX.DIR, DUMP\_FAST, Elm23, Etherlib, Ethertools, Faxpak, FTP\_UU\_NET.LIS\_Z, ICONV8.README\_Z, ICONV8\_UNIX, INTERESTGROUPS.TXT, LOG\_910ALL.TXT, Mh67, Mit-Snmp-890801, MOTIF.ARC\_Z, MOTIF11\_GPP, Netcaptip, NETCONTACTS.TXT\_Z, NETCURE.DOC, NETCURE.README, Netmonip, OTHERARCHIVECONTENTS.LZH, Pcl, Pkt7comip, Ppp, PPP\_SPARC41, Rcsv42, RCSV42\_PATCH1.SHR\_Z, RCSV42\_SIMULATOR.README, RESOURCEGUIDE.DIR, Sc614, Slip41beta, SUN\_XVIEW\_NONANSI.TXT, SW\_ORDERS\_EUROPE.TXT, Td, Termcapoo, Tn3270, UNIX\_SECURITY\_SETUP\_DOC.TXT, UUNETINDEX.LZH, Vex, VMSTARREADER.SRC, XFIG\_20\_PL9, XLOADIMG3\_01, Xpic, Xps, XROACH1.UUE\_Z, XROACH\_PAT1.UUE\_Z, XROLO\_V2P5, XTERM\_MOTIF, Caltool101, BPTREE.SHR\_Z, CALC24.SHR\_Z, Cz, GIF\_SUN, LHARC.SHR\_Z, PTY\_UPORT, UNSHRUNX.SHZ, Ansisunview, ETHTOOL3.SHR\_Z, Abc, ANSItape, AVL-SUBS, Bpatch, Budpak, Cbw, Checknr, Conf, Copytape, Cproto, Criptr, Crp7, Dca2troff, Deliver, Dial, Dialout, DIALSAMPLE, Etherlib, Fft, Filterfile, Forktest, Gperf, Help hill, Indent, INDEX01-17.TXT, Indexdb, Less, Lome, Metric, Mlpd Month87, Monthtool2, Msg, Mtools, Multitee20, Nag, OFILES\_NEW, Pcomm, Pt, Pty, RC.USER\_Z, Reactkbd, Regexp, Rmtlib, Rolodex, Sbbs, Se, Simplex, Snefru, Spell, Splay-Tree, Sps2, Squeeze1711, TAR\_AIDS, Telno Tpipe, Unaces20, Undel2, Vtem,

[UUNET]

Vtree, Window-Srch, Xargs, Xmodem, Xmodem39, Xxloc, Browserw, Chaos, Kaleid2, postit, Xbd, Xboard, Xbrwsr, Xcal, Xcoedit, Xcursor, Xdb, Xdiff, Xfig, Xgif, Xgrabsc, Xlock, Xmandel, Xpaint, Xpic, Xplotpat2, Xpostit, Xpostme, Xtartan, Xtetris, Xwatchwin2.

**Notes:** The AAAREADME.TXT file is also available in hardcopy as a separate Writeup through the DECUS Library. This Writeup gives an overview of each of the programs on this collection. To receive your hardcopy of this Writeup for AAAREADME.TXT, order the Media Service Charge Code (AA).

Complete sources not included.

**DECUS No. VS0132**

**Media (Service Charge Code):** Write-Up (AA), 2400' Magnetic Tapes (PD), 2400' Magnetic Tape (SD), TK50 Tape Cartridge (TD) **Format:** VMS/BACKUP

**Symposium Collection from the BO/AIM SIG,  
Spring 1991, Atlanta  
Version: June 1991**

**Author:** Various

**Submitted by:** Thomas Byrne, L. Karp & Sons, Elk Grove, IL

**Operating System:** VAX/VMS **Keywords:** Symposia Tapes - BO/AIM

**Abstract:** This is the BO/AIM SIG (Business & Office/Applications, Integration, and Management) tape from the Spring 1991 DECUS Symposium in Atlanta. It includes the following subdirectories and topics located in each directory.

Following is a brief summary of highlights:

OA87A

[BRUNER]

ALL-IN-1 script to dispose of original message as part of the answer process. OASIG Newsletter articles, "3 Helps for ALL-IN-1 testing" and "Yours, Mine, & Ours", plus forms, scripts, and DCL procedures. Interface Access Regulation Subsystem, presented Fall 1987. Attach selection list to current mail message. Locate next or previous document from current. Perform four QUEUE MANAGEMENT tasks from ALL-IN-1. "How to" for SYSTEM DICTIONARIES. "How-to for SYSTEM UDP's. Submitted by Roger Bruner.

[COY]

Two programs to produce multi-column listings. Make a DXC Compressed Text Library of "text" files. Submitted by Dale E. Coy.

[GILBERT]

Modified ALL-IN-1 LNO3.PRA file which enables printing 66 lines portrait orientation. Also fixes 8 LPI line count error. Hierarchical Employee Data phone directory and database, which replaces "ALL" and "COR" phone directories under ALL-IN-1. Shared ALL-IN-1 Word Processing System. Submitted by Douglas L. Gilbert.

[LEDERMAN]

Convert System Accounting and PSI Accounting data to a form readable by DATATRIEVE (with record definitions and more). DTR for ALL-IN-1 logging and data files (WPS-PLUS/VMS included). DTR replacement of ALL-IN-1 corporate phone (ALL-IN-1 not required). User defined DTR functions. Past issues of the Wombat Examiner Newsletter. DTR

# SYMPOSIUM COLLECTIONS

- PLOTS and "how to" add your own. SMG command line recall while using DTR. DATATRIEVE definitions for Disk Quotas, SYSUAF, rightslist, network proxy logins, etc., plus processing and INSTALL/LIST/FULL listing to find most used, shared images, etc., plus record system users history and terminal/line usage. Submitted by Bart Z. Lederman (Courtesy of the DATATRIEVE/4GL SIG).
- [.ROTH] ALL-IN-1 printer tables for LG02. DTR procedure to track PENDING counts. ALL-IN-1 script to read multiple new mail. Modified ALL-IN-1 Time Management Print. Prioritized ALL-IN-1 TO DO lists. Submitted by Trace G. Roth.
- OA88A  
[.BERTELSEN] ALL-IN-1 Phone Message System. Optional mail headers small lists. Optional mail headers large lists. Submitted by Janet Bertelsen.
- [.BOCK] HP Laser Jet Printer, modified LN03 tables and Don Goguen's DECUS paper about how to use the Printer Table Utility. Installation instructions, user's guide and scripts for WPS-PLUS/VMS file sharing. XAL's to run DECalc, 20/20 and VAXmail. Submitted by Groffrey Bock.
- [.BRUNER] Document changes and enhancements to ALL-IN-1. ALL-IN-1 system to automatically file all mail message attachments into a single folder. ALL-IN-1 system to attach all documents from a specified folder to a created mail message. ALL-IN-1 system to allow a user to SAVE the current document from session to session and RECALL it. Submitted by Roger Ellis Bruner.
- [.BUCK] Printer enhancements for the LN03. Bulletin Board Utility. Phone Message Utility. Goodies used to help maintain ALL-IN-1. Submitted by Randall W. Buck
- [.IOELE] ALL-IN-1 function to look at other user's calendars. Extended functionality for DECmate document. V1 EM forward function for V2 systems. Count other user's UNREAD mail count. Document/file transfer between ALL-IN-1 and SMARTERM 100. ALL-IN-1 documents deleted now, not put in WASTEBASKET. Time Management Meeting scheduling enhancements. ALL-IN-1 interoffice memo for non ALL-IN-1 users. DTR for ALL-IN-1 maintenance and customization. Includes "offenders" program and sorted system distribution lists. ALL-IN-1 function drive LA100's in correspondence mode. Provides tracking of user resources. Controls size of shared areas and improves performance. Files E-mail messages in user's private area. ALL-IN-1 shred function for folders. Send and delete mail in one keystroke. Automatic today in Time Management. Version of Profession Specific function. Modified Time Management day schedule and week's schedule. Fix for ALL-IN-1 custom scrolling problem. Submitted by Tony Ioele.
- [.PATEL] Scripts, forms and DTR procedures for a Work Request System. Submitted by Anil Patel.
- [.PEVEHOUSE] Password Utilities pre VMS V5. Submitted by De Ann Pevehouse.
- [.RUDKIN] Print any VMS file from within ALL-IN-1, stop receiving mail from yourself, transfer RUNOFF documents to the DECmate, print unread mail, refile/cross file/copy folders, RUNOFF options form, print index option on the file cabinet menu. Submitted by Martha Rudkin.
- [.SCHUMANN] Password procedures. VAX - EVE built like ALL-IN-1 WPS editor, multi-node cluster command execution procedure, cluster SPM report generation scheme. Submitted by Dar Schumann.
- OA88B  
[.BRUNER] MODMEMRES relinks ALL-in-1, recompiles MEMRES, and reinstalls it MODOAFORM recompiles and reinstalls OAFORM MODTXL recompiles and reinstalls the TXL. Edit VMS files from ALL-IN-1 using specified editor. Checks folder name before user creates a new folder. Select previous document, folder, or bottom document in current folder. Print text only of mail, including attachments. Format and set protection of documents being placed into or removed from shared folder. Submitted by Roger E. Bruner.
- [.COY] Manage & set colors for VT241- and VT340. Directory management & set default programs for VMS V5.0. 10/4/88 OASIS contents (OA SIG Bulletin Board). Show lots of stuff about your current terminal & process. Useful VAXNOTES things including a program to update NOTES, access unread count, and notify user of unread notes. WPE V2.6, a complete and extended WPS-PLUS for ASCII files built on TPU and EVE. Extremely useful. For VMS V4.X. WPE for VMS V5.0. A new version in OA89B. Submitted by Dale E. Coy.
- [.GERACI] An employee database/tracking system. Submitted by Phil Geraci.
- [.KELLAMS] Illustrates use of UDP to create animation. Submitted by Ti Kellams.
- [.NESTER] Check meetings and appointments outside of All-IN-1. Submitted by Jeff Nester.
- [.ROSENBAUM] Check EM from outside of ALL-IN-1. Some useful ALL-IN-1 key redefinitions. Submitted by Larry Rosenbaum.
- [.SURMA] A command procedure to control multi-user ALL-IN-1 accounts access. A user friendlier version of ALL-IN-1 Set Pass. Pacerlink procedures for VAX Macintosh file transfers. Submitted by Jack Surma.
- OA89B  
[.BRUNER] The PRODUCTION EQUIPMENT TRACKER (PET) is an ALL-IN-1 application used at the Foreign Mission Board to reserve production equipment for worldwide audio visual projects. Submitted by Roger E. Bruner.
- [.COY] WPS-PLUS (TM) for editing ASCII files, built on TPU and EVE, includes some language sensitive features for .COM files. Two-window editing, the most useful features of EVE PLUS. Submitted by Dale E. Coy.
- [.SIMON] Report of ALL-IN-1 shared directories. Flags directories which are getting too large. DATATRIEVE definitions ALL-IN-1 V2.3 profile, and metering. Checks users' ALL-IN-1 directories before they cause problems with the ALL-IN-1 housekeeping procedures. Submitted by Chris Simon.
- OA90A  
[.ROTH] Included are the forms, scripts, and the command procedure that were discussed in OA024, "Sharing Customizations Between Independent ALL-IN-1 Systems", DECUS New Orleans, May 1990. Submitted by Trace G. Roth.
- OA90B  
[.BRUNER] CONFERENCE ROOM SCHEDULER, a complete application for scheduling your conference room usage. Submitted by Roger E. Bruner.



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# SYMPOSIUM COLLECTIONS

- [.HULL] QUICK, ALL-IN-1 application development. A neat, comprehensive set of rapid prototyping tools for ALL-IN-1 application development. Submitted by Alan Hull.
- [.MCLEOD] HP Laserjet printer tables for ALL-IN-1. Submitted by Diana McLeod.
- [.MCMICHAEL] Session notes from OA019 Fall 90 and command procedures to transfer documents between standalone WPS-PLUS users. Submitted by Chuck McMichael.
- [.SCHUMANN  
\_HAYS] Makes the ALL-IN-1 "shared folder" do things it wasn't meant to. A simple script and forms set. Submitted by Dar Schumann and David Hays.
- [.SIMON] An update of Chris's previous ALL-IN-1 management tools working for V2.3 and V2.4, plus V2.4 DATATRIEVE definitions. Submitted by Christine Simon.

**Notes:** Executable and/or object is included.

Complete sources not included.

DECUS No. VS0134

**Media (Service Charge Code):** 2400' Magnetic Tape (PC), TK50 Tape Cartridge (TC) **Format:** VMS/BACKUP

**Symposium Collection from the GAP SIG,  
Spring 1991, Atlanta  
Version: May 1991**

**Operating System:** VAX/VMS V5.3, Various **Source Language:** Various

**Keywords:** Graphics, Symposia Tapes - VMS

**Abstract:** This is a selection of graphics software collected from several previous SIG collections.

The following is a brief summary of highlights:

- [.ARTA\_VG] Viewgraph generation program. Requires DISSPLA or can be adapted to other package.
- [.DWTEK] Tektronix file to Postscript or X-Window plot converter. Currently DECwindows specific. Submitted by George Carrette.
- [.EPUBS] TeX tools for use with TeX and LaTeX. DVIOUT, writes DVI (TeX output) files to Tek 4014 or Postscript among others. XDVI - Displays DVI files on X windows (DECwindows) displays. Many options. QUERYLW - produces TeX fonts for Laserwriter built in fonts. PSFONT - generate Postscript fonts from TeX fonts. ALWSMB - Apple Laserwriter print symbiont. Submitted by EPUBS SIG.
- [.ERI] Eye Research Institute Submissions. Short summary. CIE-CHART.DIR - data files and programs dealing with the CIE color diagram. RGB rendering of the chart and the program that produced that rendering.
- [.FERMLIB] Device Independent Graphics System. Terminal emulation, file transfer. Teleconferencing utilities. User interface for hyperchannel file transfer. News. Conversion between ASCII and Cyber 6/12 format. ADM3 support for SCRFT. Help files and more. Submitted by Arthur Kreymer, Fermilab.
- [.GPLOT] GPLOT system for VMS, Vers. 4.23. GPLOT will allow using CGM metafiles from packages like DISSPLA, DI3000, or DrawCGM (included here) to be combined with TeX text files and/or displayed on a variety of devices. This allows GPLOT to be used with

- [.HAYS] TeX to integrate text and graphics. Another Set Default. Fix for LAT connections in VAXNET. Change icon procedure for DECwindows. FileView enhancements for DECwindows. Full function calculator using SMG\$ (VT) graphics. Replacement DECwindows startup picture. Trap keystrokes using SMG\$. DECwindows examples. Submitted by Robert Hayes.
- [.MANDELZOOM] Mandelbrot set explore. Submitted by Brian Catlin and James Gray.
- [.MDRAW] Object oriented draw package for ReGIS terminals. Output can go to LN03 or be put into TeX or into CGM format for use with manuscript/freelance. Submitted by S.M. Dierken.
- [.PBMVMS] Portable Bitmap routines for VMS. Convert between many graphics formats, edit pictures, etc.
- [.PGPLOT] Device independent plotting package from Caltech; useful for drawing graphs on VAX display devices. Submitted by T.J. Pearson. Currently DECwindows specific. Submitted by George Carrette.
- [.PLTPRG] General data plotting and analysis program. Can fit data to various types of curves. Does viewgraphs. Submitted by Steven Fisher.
- [.SIXTPU] SIXEL - program to plot ReGIS graphics to sixel files. Program to dump to LA100. Additions to EDT interface to TPU. Submitted by Robert Thompson and Martin Marietta.
- [.UTEXAS] LASER - Laserwriter print symbiont. Supports print of Macpaint and Zeta plot files as well as Postscript files.
- [.WORLTON] High-level FORTRAN subroutines for use with DEC GKS Graphics.

**Notes:** Executable and/or object code is included. Documentation may or may not be on magnetic media. Complete sources may or may not be included.

DECUS No. VS0129

**Media (Service Charge Code):** 2400' Magnetic Tape (PS), TK50 Tape Cartridge (TC) **Format:** VMS/BACKUP

# SYMPOSIUM COLLECTIONS

## **Symposium Collection from the Australian VAX SIG, Summer 1990, Canberra Version: August 1990**

**Operating System:** VAX/VMS **Source Language:** Various **Keywords:**  
Symposia Tapes - VMS

**Abstract:** This is the Australian VAX SIG tape from the Summer 1990  
DECUS Symposium in Canberra, August 19-24, 1990.

The following is a brief summary of highlights:

- [ACETW] COOKIE V3.5, a fortune cookie program with database. Includes PC version and VAX version. Submitted by Wayne Myles, ACT Electricity & Water, Canberra, ACT.
- [AZTECH] Broadcast of running batch job information to console. Submitted by John Wolnisty, A-Z Tech P/L, Brisbane, QLD.
- [CSIROCR] Diskspace scanning program, working but incomplete. Submitted by Christopher Nutt, CSIRO Cotton Research, Narrabri, NSW.
- [JDUFF] A bug-fixed version of "Encryption Routine", DECUS No. V00429. Submitted by Jim Duff.
- [NOTES] NOTES.BCK, a saveset containing the NOTES files from the Symposium.
- [PCS] Example programs taken from Craig McGill's paper showing how to set up a privileged shareable image. Submitted by Craig McGill, Pagefile Computing Services, Woden, ACT.
- [PRAXA] Submitted by Trevor Taylor, Praxa.
- [PBM.PLUS] Extended Portable Bitmap Toolkit.
- [PBM] Tools for manipulating bitmaps.
- [PGM] Tools for greyscale images.
- [PPM] Tools for full colour images.
- [PNM] Tools for content independent manipulations on any of the three formats.
- [XAQ] Turn your workstation into an aquarium.
- [XCHOMP] X Window Pacman.
- [XGIF] Display GIF images on eight plane X11 display allowing image rescaling.
- [XGIF.PIC] A few GIF images.
- [XINVAD] X Window Space Invaders.
- [XLOAD] X11 Image Loading Utility, will view several image formats or load images onto the root window. Supported image formats are Faces Project, GIF, Portable Bitmap (PBM), Sun Rasterfile, X11 Bitmap, and X Pixmap.
- [XS\_WARM] A swarm of little line segments chase a bigger one.
- [XTERM] X Window terminal emulation.
- [SPES] A collection of VAX goodies. Submitted by Paul Hogwood, Siemens Plessey Electronic Systems, Belconnen, ACT.
- [ABBA] Abbreviation/acronym store.
- [BITS] Miscellaneous goodies for VAX users.
- [JPI] Shows info about VAX processes.
- [LT\_MONITOR] Yet another idle terminal killer.
- [REMINDER] Manages reminders for VAX users.
- [X] Intercommunicaton for VAX users.

**Notes:** Executable and/or object code is included.

Documentation may or may not be on magnetic media. Complete sources may or may not be included.

DECUS No. VS0128

**Media (Service Charge Code):** 2400' Magnetic Tape (PS), TK50 Tape Cartridge (TC) **Format:** VMS/BACKUP



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# ULTRIX

## General UNIX Utilities Version: December 1991

**Submitted by:** David Warren, University of Washington **Operating System:** ULTRIX/RISC, ULTRIX/UNIX V4.1, V4.2 **Source Language:** C, FORTRAN 77, PASCAL **Software Required:** C Compiler, FORTRAN 77 **Keywords:** Utilities - ULTRIX/UNIX, Utilities - ULTRIX/RISC

**Abstract:** General UNIX Utilities contains a collection of useful tools.

Following is a brief summary of highlights:

ckernit	A version of the kermi file transfer protocol and communications program written in C.
elm	An easy interface to UNIX Mail.
fineclock	he routines to change the clock rate on a DECstation. ispell-2.0.02 A spelling checker.
less	Similar to more, but allows backward movement, and does not need to read the entire file before starting.
monitor_v4	A program for monitoring ULTRIX systems. (Similar to monitor/system on VAX/VMS).
perl-4.19	An interpreted language optimized for scanning arbitrary text files, extracting information from those text files, and printing reports based on that information. The cd2norm program is written in perl.
rmtlib	A library to allow programs to access remote tape drives as if they were local.
tcpdump	A network packet watcher.
tcsh-6.00	A version of the Berkeley C-Shell, with the addition of: a command line editor, command and file name completion, listing, etc., and a group of small additions to the shell itself.
vmsbackup	A program that reads vmsbackup format tapes and files under UNIX.

**Notes:** Executable and/or object code is included. Some of the FORTRAN code has been compiled into object code for those who don't have FORTRAN.

**DECUS No. US0114**

**Media (Service Charge Code):** 2400' Magnetic Tape (SB) **Format:** TAR

## UNIGRAFIX 2.0 Version: September 1991

**Submitted by:** University of California at Berkeley, through Digital Equipment Corp, MA

**Operating System:** ULTRIX/RISC, ULTRIX/UNIX V4.2 or V4.3 BSD **Source Language:** C **Software Required:** C Compiler **Keywords:** Utilities - ULTRIX/UNIX

**Abstract:** UNIGRAFIX, as the name implies, is a graphics system that runs under the UNIX operating system. It consists of a descriptive language and various programs that allow a user to create, modify, and display scenes consisting of polyhedral objects.

The UNIGRAFIX language is in a terse, human-readable format that allows scene files of complex objects to be created with little effort. These scene files may be created manually with use of a text editor, or may be output by special purpose generator programs (for more complex scenes). Once

created, scenes can be used as input to the UNIGRAFIX rendering programs. These programs can be run either as separate functional units, or from within the interactive UNIGRAFIX environment. Programs are also available to transform and display the scenes according to user specifications.

The ordering information for the manuals is as follows:

- Order US0113 (EA) for "UNIGRAFIX 2.0 User's Manual and Tutorial"
- Order US0113 (EB) for "Creative Geometric Modeling with UNIGRAFIX"
- Order US0113 (EC) for "More...Creative Geometric Modeling", "Introduction to the Berkeley UNIGRAFIX Tools V3.0", "The Berkeley UNIGRAFIX Tools V2.5"
- Order US0113 (ED) for "Procedural Generation of Geometric Objects"

**Notes:** Executable and/or object code is included. This program was developed by the Computer-Aided Design Group, Department of Electrical Engineering and Computer Sciences, University of California-Berkeley. Documentation may or may not be on magnetic media.

**DECUS No. US0113**

**Media (Service Charge Code):** User's Manual (EA), User's Manual (EB), User's Manual (EC), User's Manual (ED), 2400' Magnetic Tape (SB), TK50 Tape Cartridge (TB) **Format:** TAR

## Fuzzy Bit Map Software Collection Version: November 1990

**Author:** Michael L. Mauldin

**Submitted by:** University of Lowell - CPE

**Operating System:** ULTRIX/RISC **Source Language:** C **Hardware Required:** DECstation 3100 **Keywords:** File Management, Utilities - ULTRIX/RISC, Bitmap

**Abstract:** This software package was designed for the manipulation and conversion of images from and to a variety of file formats. Among the manipulation capabilities are rotations, halftoning, extraction, edge detection, histogram displays, and filtering. The conversion capabilities include conversion between the following:

- color image and a grayscale image
- three plane image and a mapped color image
- FBM file and a Postscript file
- QRT raytracing package output and an FBM file

Following is a brief summary of highlights:

FBM	Fuzzy bitmap manipulation (GIF, PCX, IFF, PBM, FBM, rasters, bitmaps).
XASTEROIDS	This is an X window implementation of the asteroids video game.
XGRAPH	Allows you to plot data under X windows.
XNETLOAD	Allows user to display load average on all the machines in his network.
XPAINTE	A MacPaint-like program that runs under X windows.
LESS	A source code viewer with more features than UNIX's MORE.
FIP-MELT	Allows user to manipulate X displays.
IFP	This programming language allows non-Von Newmann control.
GRAPHWIDGET	Allows line graphing under X using a widget set.
X11PERF	Analyzes performance of your X server, and generates benchmark stats.
XCPUSTATE	Allows system monitoring under X windows.

# ULTRIX

IMGLIB Allows manipulation of images through various algorithms.

XKIC This is a graphics editor under X windows. Objects and viewing manipulation.

ELM Allows for secure mail under UNIX.

FSANALYZE-V4.1 Analyzes fragmentation on a disk and displays statistics.

SC-V6.1 Spreadsheet allows auto recalc, external function execution, and others.

TOP Visually displays top CPU processes on your machine using X windows.

SURFACEPI This maps surface topologies onto an X window.

PELINE This translates FORTRAN 77 code to UNIX C code.

F2C

**Notes:** Executable and/or object code is required. Documentation may or may not be on magnetic media.

**DECUS No. US0110**

**Media (Service Charge Code):** 2400' Magnetic Tape (SB), TK50 Tape Cartridge (TB) **Format:** TAR

## UNIX-C Collection from SIMTEL20 Version: March 1990

**Author:** Various

**Submitted by:** M. Edward Nieland, Control Data Corporation  
**Operating System:** ULTRIX/UNIX **Source Language:** Ada, C, FORTRAN 77, LISP, MODULA-2, OPS5, PASCAL, PROLOG **Keywords:** Calendars, Data Base Management, Editors, FORTRAN, Utilities - ULTRIX/UNIX

**Abstract:** This is a copy of the UNIX-C Archives kept on the computer WSMR-SIMTEL20.ARMY.MIL. The SIMTEL-20 archive is accessible on the ARPA Internet via ANONYMOUS FTP. This tape is being made available for those people who do not have access to the Internet and FTP. It is available in VMS/BACKUP format. See DECUS No. VS0088 for a description of the VAX/VMS version of the UNIX-C Collection from SIMTEL20 in VMS/BACKUP format.

The archive is a snapshot of its state on February 15, 1990. All of the files in this archive are free to distribute.

No guarantees are made as to the completeness, usability, or quality of the programs on the tape and the material has not been checked or reviewed.

**Notes:** Due to the large number of files available, the archive maintainers cannot possibly attempt to validate the proper operation of the various programs. When a program bug is reported, immediate action is taken to either correct the error or remove the offending program from the archives. Still, users must understand that all archive programs are offered AS IS, and the archive maintainers specifically disclaim any liability should these programs malfunction or cause damage, incidental or otherwise. When testing ANY new software, be certain that all information stored on disk is backed-up before you start, so that you can recover if files are damaged or erased. This is particularly true if you have a hard disk, in which case malfunctions can be spectacularly disastrous.

Changes and Improvements: Updated collection.

Documentation may or may not be on magnetic media. Complete sources not included.

**DECUS No. US0105**

**Media (Service Charge Code):** 2400' Magnetic Tape (SB), TK50 Tape Cartridge (TB) **Format:** TAR

## OCT Tools Version: 5.0, September 1991

**Submitted by:** University of California at Berkeley, through Digital Equipment Corp

**Operating System:** ULTRIX/RISC, ULTRIX/UNIX **Source Language:** C  
**Memory Required:** 120MB **Software Required:** C Compiler, X Window System V11R4 **Keywords:** Utilities - ULTRIX/UNIX, Libraries - ULTRIX/VAX, Utilities -ULTRIX/RISC

**Abstract:** OCT Tools is a collection of programs and libraries which together form an integrated system for IC design. The system includes tools for PLA and multi-level logic synthesis, standard-cell placement and routing, custom cell design, and a variety of utility programs for manipulating schematic, symbolic and geometric design data. Most tools are integrated with the OCT data manager, the VEM user interface, and the design manager VOV. This package includes the Microelectronics and Computer Corporation (MCC) Data Management System (DMS) for OCT.

The following software is included:

ATTACHE	BDNET	BDSYN	CHIPSTATS
CIFTOOCT	CRYSTAL	ESPRESSO	GEM
GENIE	HPGL	JEDI	JUMBO
LIGHTLISP	MAG2OCT	MIGHTY	MISII
MIZER	MOSAICO	MSUMAP	MUSA
MUSTANG	NOVA	OCT2PS	OCTDIFF
OCTDRC	OCTFLATTEN	OCTGC	OCT2HILO
OCTLISP	OCTMM	OCTPLA	OCTPROP
OCTSPICE	OCTTOCIF	PADPLACE	PAT2TAP
PHYT	PRIM	PUPPY	PUTCONST
SPARCS	SPICE3E	SYMHELP	TAPPP
TAP-PRINT	TECH-EDIT	TIMBERWOLFSC	VEM
VOV	VULCAN	WOLFE	YACR
YA12OCT			

The following VEM Remote Procedure Call (RPC) applications are included:

CRYSTAL	DBX	ERROR	SPARCS
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The following packages are included:

AVL	CIF	CP	DA
ERROR	ERRTRAP	FANG	HARPOON
FC	GU	IV	KD
LEL	LIGHTLISP	LIST	MKARRAY
MM	NLE	OCT	OCTLISP
OCTMM	OH	OPTIONS	PORT
REGION	RPC	ST	SYMLIB
TAP	TIMER	TR	UPRINTF
UTILITY	VOV	VULCAN	XG



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# ULTRIX

The following cell libraries are included:

GATE-MATRIX PRIMITIVES      MOSIS PADS  
MSU STANDARD CELL LIBRARY V2.2      PLA PRIMITIVES  
UCB PADS

The ordering information for the manuals is as follows:

- Order US0101 (ED) for "Octtools Distribution, Tool User Guides and Tutorials (includes VOV tutorial for Octtools)".
- Order US0101 (EE) for "Octtools Distribution: Light/Oct/VemLisp".
- Order US0101 (EF) for "Creating Technologies and Cell Libraries, Octtools Distribution Tool Man Pages, Octtools Distribution Programmer-Level Documentation, A Programmer's Guide to Oct, Policy Guides for Oct, A User's and Programmer's Guide to RPC, Release Notes for Oct Tools".

**Notes:** This program was developed by the Computer-Aided Design Group, Department of Electrical Engineering and Computer Sciences, University of California-Berkeley. Documentation may or may not be on magnetic media.

**Restrictions:** U.S. Government export regulations prohibit the distribution of this program outside the United States without the appropriate export licenses. Please note that most of these tools are the results of previous or ongoing research projects and do not always form a turnkey or production system. They have bugs that we have not yet found and do not always work together as well as they should. You may have to modify them to fit into your CAD system. Operating system ULTRIX V2.2, V3.X, V4.1, or UNIX V4.3BSD is required. SPICE3E must be compiled separately.

DECUS No. US0101

**Media (Service Charge Code):** User's Manual (ED), User's Manual (EE), User's Manual (EF), 2400' Magnetic Tape (SB), TK50 Tape Cartridge (TB)  
**Format:** TAR

## SPICE3E Version: September 1991

**Submitted by:** University of California at Berkeley, through Digital Equipment Corp, MA

**Operating System:** ULTRIX/RISC **Source Language:** C **Software Required:** C Compiler **Keywords:** Circuit Simulation

**Abstract:** SPICE3 is a general purpose circuit simulator with several built in semiconductor device models. SPICE3 performs several analysis, including nonlinear dc, nonlinear transient, and linear ac analysis. Device types include resistors, capacitors, inductors, mutual inductors, switches, linear and nonlinear sources, lossy and lossless transmission lines, BJTs, JFETs, GaAs MESFETs, and MOSFETs.

SPICE3 is based directly on SPICE2. SPICE3E includes lossy transmission lines. Several bug fixes have been made, including proper calculation of sheet resistance in MOS models, proper handling of arbitrary sources in subcircuits, and correct performance of arbitrary source reciprocal calculations and dc biasing.

**Notes:** This program was developed by the Computer-Aided Design Group, Department of Electrical Engineering and Computer Sciences, University of California-Berkeley. Documentation may or may not be on magnetic media.

DECUS No. U00133

**Media (Service Charge Code):** 600' Magnetic Tape (MA) **Format:** TAR

## EDIF 200 Version: 7.6, August 1991

**Submitted by:** University of California at Berkeley, through Digital Equipment Corp

**Operating System:** ULTRIX/RISC, ULTRIX/UNIX **Source Language:** C  
**Software Required:** C Compiler **Keywords:** Utilities - ULTRIX/UNIX, Utilities - ULTRIX/RISC

**Abstract:** The Berkeley EDIF 200 software is designed as a translator-building toolkit. This means that the system is built around a programming library consisting of general purpose modules. The goal of the toolkit is to provide a complete set of services common to all EDIF translators.

The toolkit is designed to be general in the sense that it is not targeted to any single view Type but is designed to manage EDIF as a cohesive system for design data representation. The toolkit represents the EDIF syntax with an in core data structure and provides compiler like and database like operations on that data structure. To build a translator using this toolkit, the translator writer must only define the meaning of the EDIF constructs relative to the target data-format; this is the translator building problem.

The ordering information for the manuals is as follows:

- Order U00121 (EC) for "The BERKELEY EDIF SOFTWARE for EDIF 200, Installation User's Guide"
- Order U00121 (ED) for "The BERKELEY EDIF SOFTWARE for EDIF 200, Part II"
- Order U00121 (EE) for "The BERKELEY EDIF SOFTWARE for EDIF 200, Part I"

**Notes:** This program was developed by the Computer-Aided Design Group, Department of Electrical Engineering and Computer Sciences, University of California-Berkeley. Documentation may or may not be on magnetic media.

DECUS No. U00121

**Media (Service Charge Code):** User's Manual (EC), User's Manual (ED), User's Manual (EE), 2400' Magnetic Tape (SB), TK50 Tape Cartridge (TB)  
**Format:** TAR

## Tsize Version: August 1991

**Submitted by:** University of California at Berkeley, through Digital Equipment Corp

**Operating System:** ULTRIX/RISC **Source Language:** C **Software Required:** C Compiler **Keywords:** Utilities - ULTRIX/RISC

**Abstract:** Tsize reads a flat netlist file netlist and produces a sized netlist file summarizing the delay information. The output file can be specified by the -o option; by default, it is tsize.out. The techfile contains technology dependent parameters, and portfile contains the timing constraints at the I/O ports. Based on the distributed RC delay model of Penfield-Rubinstein, Tsize attempts to meet the timing constraints with a minimum of total active area. By default, Tsize uses a heuristic algorithm to size the circuit. In some



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# ULTRIX

cases, the -O option may give better results. When the -t option is used, the program performs a timing analysis for the unsized netlist; the delay information for the unsized circuit is summarized in the output file.

**Notes:** This program was developed by the Computer-Aided Design Group, Department of Electrical Engineering and Computer Sciences, University of California-Berkeley. Documentation may or may not be on magnetic media.

**DECUS No. U00131**

**Media (Service Charge Code):** User's Manual (EC), 600' Magnetic Tape (MA) **Format:** TAR

## **BERT 1.0 Berkeley Reliability Tools Version: August 1991**

**Submitted by:** University of California at Berkeley, through Digital Equipment Corp

**Operating System:** ULTRIX/RISC, ULTRIX/UNIX **Source Language:** C  
**Software Required:** C Compiler **Keywords:** Utilities - ULTRIX/UNIX,  
Utilities - ULTRIX/RISC

**Abstract:** This software package contains:

- Circuit Oxide Reliability Simulator (CORS)
- Circuit Aging Simulator (CAS)
- Circuit Electromigration Simulator

Circuit Oxide Reliability Simulator (CORS) is a fully integrated part of BERT (Berkeley Reliability Tools). CORS projects the probability of oxide breakdown induced circuit failure as a function of operating time, temperature, power supply voltage and input waveforms. CORS can also simulate the effects of burn-in on subsequent yield and lifetime. The user is required to provide the simulator with test capacitor breakdown statistics.

Circuit Aging Simulator (CAS) has been developed as part of the Berkeley Reliability Tools (BERT) to predict the effects of hot-electron degradation on circuit behavior. Using the SPICE2 or SPICE3 circuit simulator, CAS simulates circuit behavior at a user specified future time point using fresh and pre stressed model parameter files. CAS is configured in a pre and post processor configuration so that no modifications to the SPICE code is necessary. An accompanying UNIX shell script has been developed for user friendliness and automation so that iterative simulation can easily be done to take into account the effects of on going degradation.

Circuit Electromigration Simulator - Models for predicting interconnect and intermetallic contact reliability under arbitrary current waveforms have been developed. These models are incorporated in the Circuit Electromigration Simulator module in Berkeley Reliability Tool (BERT). The simulator can generate: layout advisory for width and length of each interconnect, the safety factor of each contact and via in a circuit to meet user specified reliability requirements and estimate the overall circuit electromigration failure rate and/or cumulative failure percent of a layout design.

**Notes:** This program was developed by the Computer-Aided Design Group, Department of Electrical Engineering and Computer Sciences, University of California-Berkeley. Documentation may or may not be on magnetic media.

**DECUS No. U00129**

**Media (Service Charge Code):** User's Manual (ED), 600' Magnetic Tape (MA) **Format:** TAR

## **PERL - Practical Extraction and Report Language Version: 3.0, PL44, May 1991**

**Author:** Larry Wall

**Operating System:** ULTRIX V3.1, V4.0, ULTRIX/RISC V3.1, V4.X, UNIX System V **Source Language:** C **Software Required:** C Compiler **Keywords:** Language Interpreters

**Abstract:** PERL is an interpreted language optimized for scanning arbitrary text files, extracting information from those text files, and printing reports based on that information. It's also a good language for many system management tasks. The language is intended to be practical (easy to use, efficient, complete) rather than beautiful (tiny, elegant, minimal). It combines some of the best features of C, SED, AWK, and SH, so people familiar with those languages should have little difficulty with it. (Language historians will also note some vestiges of CSH, PASCAL, and BASIC-PLUS.) Expression syntax corresponds quite closely to C expression syntax. Unlike most UNIX utilities, PERL does not arbitrarily limit the size of your data. If you've got the memory, PERL can take in your whole file as a single string. Recursion is of unlimited depth. The hash tables used by associative arrays grow as necessary to prevent degraded performance. PERL uses sophisticated pattern matching techniques to scan large amounts of data very quickly. Although optimized for scanning text, PERL can also deal with binary data, and can make DBM files look like associative arrays (where DBM is available). Setuid PERL scripts are safer than C programs through a dataflow tracing mechanism which prevents many stupid security holes. If you have a problem that would ordinarily use SED or AWK or SH, but it exceeds their capabilities or must run a little faster, and you don't want to write it in C, then PERL may be for you. There are also translators to turn your SED and AWK scripts into PERL scripts.

**DECUS No. U00126**

**Media (Service Charge Code):** 600' Magnetic Tape (MA) **Format:** TAR

# COMMUNICATIONS

## **VAX/VMS Async Communications: KERMIT and X/Y/Z MODEM Version: November 1990**

**Author:** Various

**Submitted by:** M. Edward Nieland, Control Data Corporation

**Operating System:** VAX/VMS V5.1-1, V5.3-1 **Source Language:** BLISS-32, C, MACRO-32, VAX FORTRAN **Keywords:** Data Communications

**Abstract:** This software package consists of several modem communications programs for VAX/VMS. The protocols these programs support are KERMIT, XMODEM, YMODEM, and ZMODEM. The programs have been collected from past SIG tapes and other sources.

Following is a brief summary of highlights:

[.KERMIT]	BLISS/MACRO version of KERMIT, 3.3.126. Supports large packets.
[.KERMIT C .CKERMIT]	version of KERMIT for VMS. Supports Sliding Windows, Large Packets.
[XMODEM-1]	VMODEM Program for XMODEM. Submitted by Robin Miller.
[XMODEM-2]	XMODEM Program. Submitted by Jim Belonis.
[YMODEM]	YMODEM Program (wvrb and vvsb). Submitted by Chuck Forsberg.
[ZMODEM]	ZMODEM Programs (rz and sz). Submitted by Chuck Forsberg.

**Notes:** Executable and/or object code is included.

**Changes and Improvements:** Updated programs.

**DECUS No.** VS0107

**Media (Service Charge Code):** 2400' Magnetic Tape (PC), TK50 Tape Cartridge (TC) **Format:** VMS/BACKUP

## **KERMIT Distribution Version: June 1991**

**Author:** Various

**Submitted by:** Glenn C. Everhart, Ph.D.

**Operating System:** CP/M, IAS, MICRO/RSTS, MINC, MS-DOS, Micro/RXS, MicroVMS, OS/278, OS/78, P/OS, RSTS/E, RSX-11M, RSX-11M-PLUS, RSX-11S, RT-11, TOPS-10, TOPS-20, ULTRIX, VAX/VMS, VENIX  
**Source Language:** ALGOL, AMIGA DOS, BASIC-11, BLISS-16, BLISS-32, BLISS-36, C, FORTRAN 77, FORTRAN IV, FORTRAN IV-PLUS, MACRO-10, MACRO-11, MACRO-32, PAL-8, PASCAL, VAX BASIC, VAX FORTRAN **Keywords:** Data Communications, KERMIT

**Abstract:** This tape collection contains a VMS Backup saveset made from the KERMIT distribution from Columbia University dated June 15, 1991. The tape collection contains all KERMITs known to Columbia as of that date plus a large amount of documentation. Complete KERMIT documentation and booting instructions are on the tape. No paper documentation is needed. Files beginning with AA\*. \* should be looked at first for an overview of what's here.

**Notes:** VMS KERMIT includes the executable code.

**Changes and Improvements:** Newer versions of many KERMITs.

**DECUS No.** VS0053

**Media (Service Charge Code):** 2400' Magnetic Tapes (PD), 2400' Magnetic Tape (SD), TK50 Tape Cartridge (TD) **Format:** VMS/BACKUP

## **XMODEM Version: November 1989**

**Author:** J.J. Belonis II, Physics/Astronomy Computer Cost Ctr, University of Washington, FM-15, Seattle, WA 98195

**Operating System:** VAX/VMS V4.7-5.2 **Source Language:** MACRO-32, VAX FORTRAN **Memory Required:** 30KB **Software Required:** XMODEM or MODEM7 protocol running on another computer **Hardware Required:** Another computer running XMODEM or MODEM7 protocol **Keywords:** Data Communications, Utilities - VMS

**Abstract:** XMODEM.FOR is a FORTRAN and MACRO intercomputer file transfer program with checksums and error correction using the Ward Christensen protocol equivalent to the CP/M program XMODEM 5.0. It is compatible with the public domain CP/M program MODEM7 and its predecessors and successors running on various computers, as well as with many commercial microcomputer file transfer packages. Both binary and text file transfers are supported.

**Options**

- S Send file from the VAX
- R Receive file to the VAX

**Suboptions**

- T Text - VAX/VMS File conversion to/from CP/M text file
- C - Use 2 byte Cyclic Redundancy Check rather than 1 byte checksum
- B - Batch mode (i.e. multiple wildcarded files in one command)

The program keeps a log file in current or main directory if there are errors. Error status is returned to DCL for use in batch jobs and spawned subprocesses. XMODEM.FOR can be used for VAX to VAX file transfer including executable and other binary files if the VAX version of MODEM7 is available or by using an intermediate microcomputer running a MODEM7 compatible program. It works at least to 9600 baud on a moderately loaded VAX 11/780 (30-40 users). No privileges are necessary.

**Notes:** Executable and/or object code is included.

**Changes and Improvements:** Error status returned to DCL; output and log files opened SHARED.

**DECUS No.** V00096

**Media (Service Charge Code):** 600' Magnetic Tape (MA) **Format:** VAX/ANSI, or order VL0003

# COMMUNICATIONS

## **KERMIT-11** **Version: V3.50, April 1986**

**Submitted by:** Brian Nelson, University of Toledo, Toledo, OH

**Operating System:** IAS V3.1, P/OS 2.0, PRO/RT-11 V5.2, RSTS/E V9.1, 9.2, RSX-11M V4.1, RSX-11M-PLUS V2.1, 3.0, RT-11 V5.1, 5.2 **Source Language:** MACRO-11 **Memory Required:** 20KW to 40KW **Hardware Required:** Extra DL11 or a DZ, DH, DHV or DHU Port **Keywords:** Data Communications, KERMIT, Utilities - RSTS/E, Utilities - RSX-11, Utilities - RT-11

**Abstract:** KERMIT is a protocol originally developed at Columbia University which has been used to implement error free packet file transfer and communications between computer systems, both mainframe to mainframe and micro to mainframe. This KERMIT-11 was developed by the author for RSTS/E, RSX-11M-PLUS, RSX-11M and RT-11.

KERMIT-11 will run on RSX-11M version 4.0 and RSTS/E version 7.2 as long as the task was built without RMSRES. To be able to build KERMIT on RSTS/E version 7.2 or RSX-11 version 4.0, you will have to get RMSLIB.OLB and MAC.TSK and RSX-11M V4.1 or RSTS/E V8.0. The need for version 2 of RMSLIB is due to the use of \$SEARCH, \$PARSE, \$RENAME and \$DELETE. The need for the newest MAC.TSK is due to the use of new directives such as .SAVE, .RESTORE and .INCLUDE.FILENAME/.

**Notes:** The magtape distribution contains sources, however, the floppy diskette distribution contains binaries only.

**Changes and Improvements:** Many, edits in KLLCMD.MAC

**Assoc. Documentation:** Recommended from Columbia University

**Restrictions:** See Installation Notes regarding the version required. (Installation Notes are part of the User's Manual). Runs on IAS to some degree.

**DECUS No.** 110731

**Media (Service Charge Code):** User's Manual (EB), Three RX01 Diskettes (KC) **Format:** RT-11, 2400' Magnetic Tape (PA) **Format:** DOS-11

## **MS-DOS KERMIT** **Version: V2.28, April 1986**

**Author:** Frank da Cruz, Columbia University

**Submitted by:** Brian Nelson, University of Toledo

**Operating System:** CP/M, MS-DOS V2 **Source Language:** 8088 Assembly Lang. **Keywords:** KERMIT

**Abstract:** MS-DOS KERMIT is a program that implements the KERMIT file transfer protocol for the IBM PC, XT, and AT and several other machines using the Intel 8086 processor family (8088, 80286 etc.) and operating system family (PC-DOS or MS-DOS, henceforth referred to collectively as MS-DOS or simply DOS).

The program operates under version 2.0 and above of DOS. It runs in approximately 80K of memory - over and above the memory used by DOS - which means that your system should have at least 128K of RAM to use version 2 of MS-DOS KERMIT.

Some capabilities of MS-DOS KERMIT are local and remote operation, transfers text and binary files, wildcard send, ^X/^Y interruption, filename collision avoidance, time out, 8th-bit prefixing, repeat count prefixing, alternate block checks, terminal emulation, communications settings, transmit BREAK, IBM mainframe communication, session logging, act as server, talk to server, advanced commands for servers, local file management, command/init files and command macros.

**Assoc. Documentation:** There is other documentation available from Columbia University. Sources not included.

**DECUS No.** RB0111

**Media (Service Charge Code):** User's Manual (EB), One RX50 Diskette (JA) **Format:** MS-DOS

## **KERMIT for P/OS** **Version: 2.23**

**Submitted by:** Joerg Buechner

**Operating System:** P/OS **Source Language:** MACRO-11 **Keywords:** Data Communications, KERMIT, Utilities - P/OS

**Abstract:** This package is complete with sources. No modifications have been made in the program code. Only .CMD- and .ODL-files have been changed to build KERMIT on P/OS. This version is command driven running at DCL-level with on-line help.

**Notes:** The maximum record length for ASCII text files to transfer is 160 bytes. This version of KERMIT has been tested only with SEND and RECEIVE in a direct computer to computer link. This version of KERMIT has been unsuccessful with an ATARI ST, running GEM ATARI/ST KERMIT (Bernhard Nebel) and successful with an IBM XT, running KERMIT-MS V2.27.

**Changes and Improvements:** Complete sources included.

**DECUS No.** PRO148

**Media (Service Charge Code):** Two RX50 Diskettes (JB) **Format:** FILES-11



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# SYSTEM MANAGEMENT

## The DECUS VMS Startup Set Version: October 1990

**Author:** Various

**Submitted by:** M. Edward Nieland, Control Data Corporation

**Operating System:** VAX/VMS V5.3-1 **Source Language:** BLISS-32, C, DCL, MACRO-32, PASCAL, VAX FORTRAN **Keywords:** System Management - VMS, Utilities - VMS

**Abstract:** This package contains some of the most popular non-commercial programs for VMS sites. This tape is intended to be easy to install, though it does not use VMSINSTAL. Follow the directions found in the file 000\_INSTRUCTIONS.TXT.

Following is a brief summary of highlights:

### GENERAL UTILITIES

[.BOSS]	Multi logins through one terminal.
[.BULLETIN]	Electronic BULLETIN Board.
[.DM\$SD]	Directory Manager/Set Default Utilities.
[.EXE]	Executables of programs.
[.FILE]	Modify File Attributes without touching data.
[.FINGER]	Enhanced SHOW SYSTEM and more.
[.GNUEMACS]	Advanced Editor.
[.KERMIT]	Async Communications Protocol.
[.MAKE]	Port of UNIX MAKE to rebuild programs.
[.MODIFY]	MODIFY a string in all wildcarded files.
[.MORE]	Port of UNIX More, TYPE with bells and whistles.
[.SPELL]	A spelling checker.
[.STATUS]	An enhanced SHOW SYSTEM.
[.SWING]	Change Directories using Graph of directory tree.
[.TPUVI]	TPU emulation of the VI editor.
[.VFE]	VAX File Editor, edit files byte by byte.
[.VMSGCC]	GNU CC Compiler and C++ Compiler for VMS and BISON (YACC-like).
[.XMODEM-1]	A XMODEM communication protocol package.
[.XMODEM-2]	A XMODEM communication protocol package.
[.YMODEM]	A YMODEM communication protocol package.
[.ZMODEM]	A ZMODEM communication protocol package.
[.ZOO]	Create and use compressed file archives.

### SYSTEM MANAGER UTILITIES

[.BECOME]	BECOME another user.
[.MAILUAF]	Manage the MAIL authorization File.
[.PTY]	PTY Drivers and PHOTO Program.
[.SNAP]	SNAP Shot of system, do things with it.
[.VERB]	Decompile DCL tables to make changes.
[.WATCH]	WATCH another terminal.
[.ZDEC]	Zero Device Error Counters of SHOW ERROR.

**Notes:** Executable and/or object code is included.

**Changes and Improvements:** Updated programs and new material.

**DECUS No. VS0108**

**Media (Service Charge Code):** 2400' Magnetic Tapes (PB), 2400' Magnetic Tape (SB), TK50 Tape Cartridge (TB) **Format:** VMS/BACKUP

## Security Tools Collection Version: March 1991

**Author:** Various

**Submitted by:** M. Edward Nieland, Control Data Corporation

**Operating System:** VAX/VMS **Source Language:** C, DCL, MACRO-32, VAX FORTRAN **Keywords:** Security

**Abstract:** This package contains software that pertains to various aspects of computer security.

The following is a brief summary of highlights:

[.CHECKPASS]	A program to check the password in the UAF against common password guessing methods. It reports which accounts have insecure passwords. Programs for pre and post VMS V5.4 are included.
[.CRYPTODISK]	A set of programs to create a process-specific encrypted disk.
[.TERM_LOCK]	A program to lock a terminal against somebody using it while you are away. It uses the same password as the account it is locking. Programs for pre and post VMS V5.4 are included.
[.VMS_PASSWORD_POLICY]	A VMS Password Policy module written in FORTRAN for VMS V5.4 or later. It prevents people from using passwords that are easy to guess by similar means as that checked by the CHECKPASS program.
[.WATCH]	A program that allows a process connected through a TT class device driver to be monitored.
[.WATCHER]	An idle terminal killer program. It has many options to allow it to be tailored to the system.

**Notes:** Executable and/or object code is included.

**DECUS No. VS0127**

**Media (Service Charge Code):** 600' Magnetic Tape (MC), TK50 Tape Cartridge (TA) **Format:** VMS/BACKUP

## WATCHDOG Version: 5.0, September 1989

**Submitted by:** George Walrod III, Cellular One

**Operating System:** See Notes **Source Language:** See Notes **Keywords:** Security, System Management - VMS, Utilities - VMS

**Abstract:** WATCHDOG is a program which monitors an interactive process for inactivity. A process is logged out after a defined interval. An inactive process is indicated by no change in CPU time and no buffered I/O count within a defined interval. Messages will be sent to the inactive process at a defined interval until the maximum inactive time limit is reached. A final message is sent to the user and an optional message is sent to the central operator making note that a user has been stopped. Another option includes ignoring a group of users. Many options exist and are documented. You should enjoy the comments made by the developer.

**Notes:** There are three versions of the program included on this tape; one for VAX/VMS V3.X, one for VAX/VMS V4.X, and one for VAX/VMS V5.X.

# SYSTEM MANAGEMENT

The version for VAX/VMS V3.X is written in both FORTRAN-77 and MACRO-11. The version for VAX/VMS V4.X and for VAX/VMS V5.X is just written in MACRO-11.

**Changes and Improvements:** This version contains a program fix for running on multiprocessor CPUs.

DECUS No. V00146

**Media (Service Charge Code):** 600' Magnetic Tape (MA) **Format:** VMS/BACKUP, or order VL0004

**SUPERVISOR SERIES**  
**Version: 5.00, June 1991**

**Author:** Various

**Submitted by:** Dan Shoop, Security Pacific Software Services, New York, NY

**Operating System:** VAX/VMS V5.2 **Source Language:** BLISS-32 **Keywords:** Security, Terminal Management, Utilities - VMS

**Abstract:** The SUPERVISOR SERIES, PHOTO, OBSERVER and ADVISOR, are a set of three utilities created by Security Pacific Software Services which allow manipulation of terminal sessions. These powerful utilities, once sold to customers worldwide, are now being placed into the public domain through the DECUS Program Library.

Following is a brief summary of highlights:

PHOTO

A utility program that allows a user to log his terminal session. While using PHOTO, each character sent and received at your terminal is recorded in a file for subsequent playback. Never again will you forget what you have done or have to handwrite a sequence of instructions for someone else.

OBSERVER

A VMS utility that allows the monitoring of any interactive terminal session. While using OBSERVER, a suitable privileged user can view every character typed and printed at another user's CRT. The target user is not aware that he is being observed, nor is it necessary for his terminal to be logged in at the time the OBSERVER session is initiated. When used in conjunction with PHOTO, OBSERVER can permanently record the user's terminal session.

ADVISOR

Allows a terminal user to type command lines and program input into another users terminal process. ADVISOR enables full control over another user's terminal session. With ADVISOR, a suitable privileged user can issue the ADVISE command and the name of the target terminal. The advising terminal is placed into OBSERVER mode and all characters displayed at the target terminal are also displayed at the advising terminal. Any characters typed at the advising terminal are interpreted by VMS as if they were typed at the target terminal. An escape character typed by the ADVISOR ends the ADVISOR session and returns exclusive keyboard use to the target user. ADVISOR will accept canned command sequences prepared from PHOTO log files for execution at the advised target terminal. This is ideal for simulation testing using meaningful script scenarios.

The ordering information for the manuals is as follows:

- Order (EC) for "Observer/Advisor User's Manual"
- Order (EB) for "Photo User's Manual"

**Notes:** Executable and/or object code is included. Operating system VAX/VMS V5.2 or later is required.

DECUS No. V00521

**Media (Service Charge Code):** User's Manual (EB), User's Manual (EC), 600' Magnetic Tape (MC) **Format:** VMS/BACKUP

**Kronos**  
**Version: II.3, November 1991**

**Submitted by:** Arthur E. Ragosta, Moffett Field, CA

**Operating System:** VAX/VMS V5.4 **Source Language:** DCL, FORTRAN 77, MACRO-32, PASCAL **Memory Required:** 250KB **Keywords:** Scheduling, Security, System Management - VMS

**Abstract:** The KRONOS system provides an environment for scheduling the submission of batch jobs that is easier and more functional than the SUBMIT/AFTER command. A detached process is created which wakes up every hour to check a database for jobs that should be run. Jobs may be scheduled to run at a given time, on a given day of the week or month, on a given day from the end of the month, on a given day of the year, every day, every hour, weekdays only, etc. Jobs can be run based on the value of system logicals and system service item codes. A user-friendly interface program is provided to maintain the database. A variety of useful example jobs are provided to demonstrate the use of KRONOS; included are System Management, Security, Accounting and Performance Monitoring jobs.

**Notes:** Executable and/or object code is included.

**Changes and Improvements:** Error handler improved. System-specific information isolated. Miscellaneous small bugs fixed. Added /CPUTIME, /PRIORITY, /CHARACTERISTIC. Batch queues and print queues now checked. Additional file support added. FIND option added to KRON. Preprocessor program included.

DECUS No. V00423

**Media (Service Charge Code):** 600' Magnetic Tape (MA) **Format:** VMS/BACKUP, or order VL0011



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# VMS UTILITIES

## Tape Utilities Version: February 1990

**Author:** Various

**Submitted by:** M. Edward Nieland, Control Data Corporation

**Operating System:** VAX/VMS V5.1 **Source Language:** BASIC, BLISS, C, MACRO-11, MACRO-32, PASCAL, VAX FORTRAN **Keywords:** Utilities - Disk - VMS, Utilities - Tape

**Abstract:** This is a collection of utilities for reading, writing, and analyzing tapes. These utilities have been extracted from a number of SIG tapes and have been placed in this one collection for ease of locating.

The following is a brief summary of highlights:

BIGTPC	A Tape-DISK-Tape utility in PDP MACRO (no executable provided).
BRUREAD	A utility to read BRU tapes. Native mode VMS executable.
DUMPER	A program to read TOPS-10 and TOPS-20 DUMPER tapes.
ETAPE	Read/write foreign tapes in EBCDIC, ASCII, and Honeywell GCOS BCD formats.
FTCOPY	Foreign Tape Copy program.
FTP	Foreign Tape Processing Utility. Can read/write foreign tapes and make image copies of tapes on disk and write them back.
LU_TAPE	A utility to read/write/analyze foreign tapes (DECUS No. V00442)
MTEXCH	A utility to read/write foreign tapes of any of the following records format, ANSID format, and VB format. The data can be in ASCII or EBCDIC.
MTU	Magnetic Tape Utility. Allows you to read, write, dump, and compare magnetic tapes (DECUS No. V00191).
TAPES	A utility to read foreign tapes of various formats.
TAR	A program that will extract or write UNIX TAR archives on tape or disk. Uses a command language definition (CLD) interface to VMS.
TAR_READ	Several utilities to read/write UNIX TAR format, both tapes and disk files.
TAR_WRITE	
TAR2VMS	A program to convert TAR tapes and files to VMS files and a program (VMS2TAR) that does the reverse.
TCOPY	A program to quickly copy tapes when you have two tape drives. It allows the tapes to stream.
TPT	A tape benchmark program.
VFE	VAX File Editor. Can be used to analyze tapes when you don't know the tape format.
VMSTPC	A tape-disk-tape program for copying tapes where you have only one tape drive or the tape drives exist on different systems.
WG_TAPE	Programs to analyze and read tapes. Includes a
_UTIL	program to do DECnet tape copy via a DECnet object.

**Notes:** Submitted on behalf of the L&T Public Domain Working Group.

**Changes and Improvements:** Added support to read BRU tapes and TOPS DUMPER tapes. Added additional support for analysis of tapes. Updated other material.

**DECUS No.** VS0097

**Media (Service Charge Code):** 600' Magnetic Tape (MC), TK50 Tape Cartridge (TA) **Format:** VMS/BACKUP

## X WINDOW CLIENTS and DEMOS Version: 11, Release 4

**Submitted by:** Trevor Taylor, Software Technology, Aspley, Australia 4034

**Operating System:** VAX/VMS V5.4-2 **Source Language:** C **Memory Required:** 27KB **Software Required:** DECWINDOWS, MOTIF V1.0 **Keywords:** Editors, Tools - Software Development, DECwindows, X Windows

**Abstract:** This package contains VMS versions of the MIT Clients, Demos and Examples for X11 Release 4. Included are many useful tools and examples.

The following programs have been ported to VMS:

**MIT CLIENTS** appres, bitmap, listres, oclock, xbiff, xcalc, xdclipboard, xclock, xdpinfo, xedit, xfd, xfontsel, xkill, xload, xlogo, xlsatoms, xlsclients, xlsfonts, xlswins, xmag, xmodmap, xpr, xprop, xrd, xrefresh, xset, xsetroot, xstdcmap, xwd, xwininfo, xwud.

**DEMOS** ico, maze, muncher, plaid, puzzle, xev, xeyes. The Athena Widget set (Xaw) and example programs are also included. These are useful for porting other X software from a UNIX environment.

Documentation on the programs is supplied in the form of UNIX-style man pages. These have also been converted to text files suitable for printing.

**Notes:** Operating System VAX/VMS V5.4 or later with DECWINDOWS/MOTIF V1.0 or higher is required. Some bugs are known to exist. Executable and/or object code is included and changes made for VMS are included in the code. This version does not include Games, PostScript documentation or the larger set of MIT X11 Release 4 software. DECUS No. US0106 in TAR format contains the complete MIT Release 4 kit. DECUS No. US0106 includes additional documentation, large amount of contributed code, and games.

**Changes and Improvements:** Updated to MIT X11 Release 4. No games.

**Restrictions:** This software is supplied "AS IS". Some bugs are known to exist.

**DECUS No.** VS0100

**Media (Service Charge Code):** 2400' Magnetic Tape (PC), TK50 Tape Cartridge (TC) **Format:** VMS/BACKUP



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# VMS UTILITIES

## CVTFILE Version: October 1991

**Submitted by:** Frank Canali, Gould Inc, CPD, Newburyport, MA

**Operating System:** VAX/VMS V5.3-1 **Source Language:** MACRO-32

**Keywords:** IBM, Utilities - VMS

**Abstract:** CVTFILE is a program to convert files brought from an IBM into VAX files. All IBM data types, including floating point, are handled. Documentation consists of a block of comments at the beginning of each program or .COM file. Programs for reading and mapping IBM standard labelled tapes are included. The TAPEIBM program has been updated to read tapes in "F", "FB", "V", "VB", "VS", "VBS", and "U" record formats.

**Changes and Improvements:** Tape IBM program rewritten to load all standard IBM tape formats. Tapemap is a new program for mapping ANSI and IBM tapes.

**DECUS No.** V00393

**Media (Service Charge Code):** 600' Magnetic Tape (MA) **Format:** VMS/BACKUP, or order VL0010

## TeX Collection Version: February 1991

**Author:** Various

**Submitted by:** Earle Ake, SAIC, M.E. Nieland, Control Data Corp

**Operating System:** MS-DOS V3.1, Macintosh V6.1, UNIX, VAX/VMS V5.3-1 **Source Language:** C, DCL, MODULA, PASCAL, VAX FORTRAN

**Hardware Required:** Drivers supplied for various printers, monitors, and CPUs **Keywords:** Text Formatting, TeX

**Abstract:** The TeX Collection is based on the TeX Files stored at LABREA.STANFORD.EDU, YMIR.CLAREMONT.EDU, and other sites which are available via ANONYMOUS FTP, plus additional material collected from sources across the world. It is not necessary to have the compilers, since executable versions of most programs are included on the tape. The TeX collection includes most source programs as well as object code.

Following is a brief summary of highlights:

- [.000\_INSTRUCT] Contains installation instructions.
- [.TEX] Contains all the material needed to get TeX up and running on your system. The material includes TeX, LaTeX, METAFONT, AmS-TeX, TeXsis, BIBTeX, PiCTeX, DVI Drivers, RNOTOTEX, a spelling checker that understands TeX/LaTeX, and WEB.
- [.TEX\_FONTS]  
[.TEX\_SOURCE] All the fonts for TeX. Plus additional font material. Contains the source code for everything in [.TEX], plus additional material such as additional DVI drivers, FWEB, and CWEB.
- [.TEX\_AMIGA] Contains TeX and material to run TeX, LaTeX on an Amiga Computer. Includes DVI drivers and LaTeX Picture Editor.
- [.TEX\_ATARI] Contains TeX and material to run TeX, LaTeX on an ATARI Computer. Includes DVI drivers and previewer.

- [.TEX\_MACINTOSH] Contains TeX and material to run TeX, LaTeX on a Macintosh Computer. Includes a previewer and DVI Drivers.
- [.TEX\_MS-DOS] Contains TeX and material to run TeX, LaTeX on a MS-DOS Computer. Includes a range of DVI drivers and previewers.
- [.TEX\_UNIX] Contains TeX and material to build TeX and LaTeX on a UNIX Computer. Plus XTEX for DECstations. Contains ZOO files with copies of TeXhax and PERIODICALS] TeXmag periodicals for reference.

The TeX Collection includes the other TeX related individual submissions from the DECUS Library. These submissions are:

- V00135 DVI to VDU: A TeX Page Previewer Program
- V00171 LaTeX Templates & Help files for LSE
- V00179 DEPROC: LaTeX for the DECUS Proceedings
- V00261 IdxTeX & GloTeX
- V00294 WEB Pack
- V00301 DVIOUT - DVI Output Driver
- V00399 DVI2PS
- V00416 MDRAW

The following output devices are supported:

- DEC LN03 (requires a RAM Cartridge) [DVI to LN03].
- DEC LN03 Plus (uses bitmaps) [DVIL3P].
- DEC LA75 [DVI175].
- PostScript (LPS40, Apple LaserWriter, LN03S) [DVIALW, DVIPS, DVIOUT, GTEX].
- Hewlett Packard Laserjet [DVIJET].
- Hewlett Packard Laserjet Plus [DVIJEP].
- Cannon Engine Laserprinter [DVICAN].
- EPSON Printer [DVIEPS].
- Printronix Printer [DVIIPRX].
- Okidata Pacemark 2410 (72 or 144 DPI) [DVIOKI].
- VT terminals, ReGIS Terminals, Tektronix Terminals [DVI to VDU].
- VAXStations running VWS [DVIDIS].
- DECWindows [XDVI, TeXX].
- Version 3.10 BBN BitGraph Terminal [DVI BIT].
- Golden Dawn Golden Laser 100 printer [DVI GD].
- Imagen IMPRESS-language laser printer family [DVIIMP].
- Apple Imagewriter 72 or 144 dpi printers [DVI M72 or DVI MAC].
- MPI Sprinter 72 dpi printer [DVI MPI].
- Toshiba P-1351 180 dpi printer [DVI TOS].
- Generic Output [DVI 2TTY].
- QMS Laser Printers [GTEX].

The following items are new with this collection:

- TEXT-1
- EPLAIN
- TeX for the ATARI
- More Documentation

**Notes:** Executable and/or object code is included.

**Changes and Improvements:** Updated and new material.

**Assoc. Documentation:** The TeX and LaTeX systems are described in two books, "LaTeX, a Document Preparation System", by Leslie Lamport, (ISBN 0-201-15790-X) and "The TeXbook", by Donald Knuth, (ISBN-0-201-13448-9) and are available through Addison & Wesley Publishers. This is considered minimal documentation for the system. Donald Knuth's five volume set, "Computers and Typesetting", is highly recommended. The five volume set includes "The TeXBook" and "The METAFONTBook". "The Joy of TeX" is the documentation for "AmS-TeX". The "PiCTeX Manual" will be needed if you wish to use "PiCTeX". These books should be

# VMS UTILITIES

purchased when you want to use the system properly. These books are not available through DECUS.

Complete sources not included.

DECUS No. VS0058

**Media (Service Charge Code):** 2400' Magnetic Tapes (PE), 2400' Magnetic Tapes (SE), TK50 Tape Cartridges (TE) **Format:** VMS/BACKUP

## Lawrence University Tape Utilities Version: October 1990

**Author:** Robert Lowe, Lawrence University

**Submitted by:** James S. Evans, Lawrence University, Appleton, WI

**Operating System:** VAX/VMS 5.3-1 **Source Language:** VAX BASIC  
**Keywords:** IBM, Utilities - Tape, Utilities - VMS

**Abstract:** The Lawrence University tape utilities package consists of three programs - TAPE\_READ, TAPE\_WRITE, and TAPE\_ANALYZE. TAPE\_READ and TAPE\_WRITE respectively read and write tapes foreign to VMS. These include block (unlabelled) and IBM Standard Label format tapes with fixed or variable length records using either the ASCII or EBCDIC character code set. The software senses for and supports the recording densities allowed by the hardware. Multivolume datasets can be written as well as read. Both TAPE\_READ and TAPE\_WRITE support wildcarding. Additional features of TAPE\_READ include: reference to a dataset by name (labelled tapes) or by dataset number for random access; print a directory of a labelled tape (use TAPE\_ANALYZE for unlabelled tapes); select a range of records to dump to disk.

By means of a state table, TAPE\_ANALYZE performs validity checking on tapes in ANSI, IBM SL or DOS format. Label records are displayed in full, whereas data records are summarized. Any error states encountered are reported.

All utilities use a common help library for interactive HELP as well as a message file to provide consistency with the VMS error reporting style. System services are used to mount and dismount tape volumes. In addition, all I/O is performed with low-level QIO calls for maximum efficiency.

**Notes:** Operating System VAX/VMS V5.0-2 or later is required. Executable and/or object code is included. TAPE\_READ and TAPE\_WRITE are complete rewrites of precursors UNITAP and UNIWRI, DECUS No. 110332. TAPE\_ANALYZE is a rewrite and upgrade of MTANAL, a public domain program of unknown origin.

Changes and Improvements: Bug fixes.

DECUS No. V00442

**Media (Service Charge Code):** 600' Magnetic Tape (MA) **Format:** VMS/BACKUP, or order VL0012

## LASERS, QUEUES and Other Fun Things Version: 1.4, October 1990

**Submitted by:** Bob Armstrong, Algonquin College, Nepean, Ontario, K2G1V8, Canada

**Operating System:** VAX/VMS V5.3 **Source Language:** C **Memory Required:** 300 Pages **Software Required:** VAX C Compiler **Keywords:** File Management, Utilities - VMS

**Abstract:** LASERS, QUEUES and Other Fun Things is a collection of useful utilities. Following is a brief summary of highlights:

- FILEHEADER** A real UNDELETE utility. Version 1.4 supports wildcard selection and works on logical disks roots or physical device and directory specifications. A list header utility. Version 1.2 translates the VMS protection mask, now flushes the bitmap file before listing the extents showing whether they are allocated or free. A patch header utility, not complete but will allow you to flip flags or patch fid's. A real MOVEFILE utility, something like MV under UNIX, will move files (without deletion) to new directories on the same disk (works with wildcards as well). Works slightly different from the rename command.
- DRAWTREE** A super fast drawtree utility, uses RMS routines and written in C. Handles roots, and extra long directory names.
- LASER** As well as all other qualifiers on the PRINT command supports /FONT. You define what fonts are available for what printers/lasers. LASER sets up the appropriate text modules from SYSDEVCTL.TLB file when the file is printed. This version also supports /PARAMETER for remote node laser printing.
- OPERATIONS** Use SYSDEVCTL.TLB to program your printers, reduces operations setup time.
- SYMBIONTS** A collection of single stream symbionts, to do character translation from Digital Equipment Corporation multinational to specific sequences for third party printers. Easily modifiable for other printers/lasers.
- QUEUES ACROSS DECNET** Link queues across a normal DECNET link. This will allow users to print on a remote machine without having NETMBX, everything appears as a local queue. Two flavors supplied, one using a mailbox symbiont, the other a file symbiont. The file symbiont now updates the completion status correctly, and has been tested for multistreams (the version supplied will support up to eight streams).

**Notes:** Operating system VAX/VMS V4.7 or V5.X is required. Operating system VAX/VMS V4.7 through V5.2 needs to be recompiled. Executable and/or object code is included for V5.3.

**Changes and Improvements:** Fixes to the file symbiont and UNDELETE. Performance improvements to QUEUES across DECNET file transfer. Laser command now allows for lasering of documents on remote laser printers. Updates to [.DECNET], [.FILEHEADER\_UTILITIES], and [.LASER].

DECUS No. V00425

**Media (Service Charge Code):** User's Manual (EA), 600' Magnetic Tape (MC) **Format:** VMS/BACKUP, or order VL0011



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# AND MORE ...

## **WATCHER** **Version: 2.6-2, May 1991**

**Submitted by:** Matthew Madison, Rensselaer Polytechnic Institute

**Operating System:** VAX/VMS V5.2 through V5.4-1 **Source Language:** BLISS-32 **Memory Required:** 500KB **Keywords:** Security, System Management - VMS, Utilities - VMS

**Abstract:** WATCHER is an idle terminal monitor. It logs out interactive users after a certain period of inactivity. WATCHER has a high degree of flexibility, allowing system managers to decide how to accommodate users' needs while still addressing operational and security issues. WATCHER is fully configurable.

You can tell WATCHER which terminals to watch, and on a per terminal basis, what measurements (CPU use, process I/O count, terminal I/O count) to use as criteria for determining idleness and how long a terminal should be idle before the user should be disconnected or logged off.

Users can be excluded from interference by WATCHER based on any combination of username, UIC, a held identifier, privileges, terminal device and/or port name, and time of day/day of week.

You can override or modify the watch criteria and/or idle times for any user based on any combination of username, UIC, a held identifier, privileges, terminal device and/or port name, and time-of-day/day-of-week.

Workstations are supported, whether running DECwindows or VMS Workstation Software. A debug/trace facility is included so that WATCHER's activities can be monitored.

Release notes are distributed with each order.

**Notes:** Executable and/or object code is furnished. Operating system VAX/VMS V5.0 or later is required.

**Changes and Improvements:** Multiple warnings. Several bug fixes and minor improvements.

DECUS No. V00486

**Media (Service Charge Code):** User's Manual (EB), 600' Magnetic Tape (MA) **Format:** VMS/BACKUP, or order VL0013

## **Message Exchange** **Version: 3.0 December 1991**

**Submitted by:** Matthew Madison, Rensselaer Polytechnic Institute

**Operating System:** VAX/VMS V5.1 through V5.4-1 **Source Language:** BLISS-32, C **Memory Required:** 3MB **Keywords:** Data Communications, File Management, Mail **Software Required:** See notes

**Abstract:** Message Exchange (MX) is an electronic mail routing and distribution system for VMS. The following is a brief description of some of its' features.

Users send and receive messages using VMS MAIL. Support for "signature" files is included in the VMS MAIL interface. Full support for automatic forwarding with the VMS MAIL SET FORWARD command is included.

SMTP (RFC 821) message transfers over CMU-Tek TCP/IP or Digital Equipment Corporation's VMS/ULTRIX Connection, or TGV MultiNet. Includes support for Internet domain system MX records. Also includes support for SMTP over DECnet.

BITNET message transfers over Joiner Associates' Jnet, compatible with the Columbia Mailer package for IBM VM systems. Fully supports BITNET-Internet gateways for non-Internet-connected systems. When combined with the SMTP support, can also provide a BITNET/Internet gateway service.

Interfaces with DECUS UUCP to provide a single mail interface to all mail protocols. Can also gateway between UUCP and other networks. Includes an interface and documentation for developing custom interfaces with other mail systems. Site-installed address customizations are also supported.

It provides a mailing list processor with automatic subscription requests. Mailing lists can be configured to restrict postings only to subscribers or list owners, and to restrict the automatic subscription handling. Internet mailing list conventions and a subset of LISTSERV commands are supported.

One or more file servers can be set up by the system manager to handle automatic distribution of packages of files using mail as the distribution medium. Large transfers can be deferred to off hours, and daily per-user, per-system, and/or per-server limits can be placed on each server.

Release notes are distributed with each order.

**Notes:** Executable and/or object code is included. Operating system VAX/VMS V5.0 or later is required. For TCP/IP support, Message Exchange requires CMU-Tek TCP/IP V6.4 or later, or Digital Equipment Corporation's VMS/ULTRIX Connection V1.2 or later, or TGV MultiNet V2.2. Documentation is in PostScript, ASCII and BookReader formats. For BITNET support, Message Exchange requires Jnet V3.5. For UUCP support, Message Exchange requires DECUS UUCP V1.1 or later. DECUS UUCP V1.3 is available on DECUS No. VS0124.

**Changes and Improvements:** SMTP over DECnet added. Improved support for Jnet, SMTP, mailing list, VMS MAIL interface.

DECUS No. V00482

**Media (Service Charge Code):** 2400' Magnetic Tape (PA) **Format:** VMS/BACKUP



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# AND MORE ...

## **AnalytiCalc and AnalyRIM: A 3D Spreadsheet/ Database System in VMS/BACKUP Version: October 1991**

**Author:** Glenn C. Everhart, Ph.D.

**Operating System:** AMIGA DOS, MS-DOS, RSX-11M, RSX-11M-PLUS, SUN, VAX/VMS **Source Language:** C, FORTRAN - IV, FORTRAN 77, FORTRAN IV-PLUS, MACRO-11, MACRO-32, VAX FORTRAN **Memory Required:** See Notes **Keywords:** Business Applications, Data Base Management, Mathematical, PortaCalc, Spreadsheet

**Abstract:** AnalytiCalc is a general purpose spreadsheet package featuring exceptional power and capability, ease of user extension, and many features unavailable even in the most expensive commercial spreadsheets.

This package includes AnalyRIM, which contains a complete relational DBMS as well as all AnalytiCalc functions. AnalyRIM permits disk-based storage of relational data. It may be selected, sorted, operated on relationally, and relations or sections thereof can be moved between the spreadsheet screen and relations on disk at will. This avoids the problems of running out of space for one's data bases. The command language for the DBMS is close to SQL and it may be driven by spreadsheet macros if desired. AnalyRIM as supplied is tested for VMS and UNIX (specifically SUN4) and sources for AMIGA are supplied. Address space limits prevent it from fitting in MS-DOS or RSX.

The spreadsheet provides an address space of up to 32,000 rows, up to 32,000 columns, and up to 32,000 pages. Each cell may have one or more equations stored within it, and the cells can be displayed on screen in an unlimited number of windows. Cells may also reference external programs, access databases, control or be controlled by other applications. There are around 100 built-in functions (depending on how one counts variants) and around 10 cell address modes, with variants adding more. User functions can be added internally or externally. Built-in features cover all normal function, including things like built-in matrix math, FFTs, goalseeking in up to 8 dimensions, access to any number of datafiles, internal and external macros, journaling, free-form cell annotation, address math, as well as the usual math, business, statistical, logical, and time functions one expects in a full function spreadsheet.

**Special Hardware:** On VAX, screen-independent cursor routines are used for screen addressing normally. On PDP-11, the software must be built for the appropriate terminal. Versions of the UVT100 subroutine for VT100, VT52, Datamedia Elite, and several other types of terminals including VT100 with Advanced Video and Colorscan 10 are supplied, with command files for most combinations. The VT52 versions will show what the minimum requirements are for control. Most any terminal can be easily interfaced to the package by editing one of the UVT100 routines to correspond to the terminal's control sequences, provided direct cursor addressing is supported.

Release Notes are distributed with each order.

**Notes:** PDP-11 users see DECUS No. 11S047 for an older version. Executable and/or object code is included. Versions are supplied for VAX/VMS (any version), PDP-11 (RSX11M, RSX-11M PLUS, or P/OS), MS-DOS (requires 256K RAM minimum), UNIX (tested on SUN4), and AMIGA (Requires 512K RAM).

**DECUS No. VS0024**

**Media (Service Charge Code):** 2400' Magnetic Tapes (PB), 2400' Magnetic Tape (SB), TK50 Tape Cartridge (TB) **Format:** VMS/BACKUP

## **VAX Capacity Management Tool Version: 3.3, December 1990**

**Submitted by:** Digital Equipment Corporation

**Operating System:** VAX/VMS V5.3-2 **Source Language:** MACRO-32, VAX BASIC, VAX COBOL **Memory Required:** 102KB **Software Required:** VAX RETOS if hardcopy graphs to spooled sixel printers is required. **Hardware Required:** VT240 Terminal, VT330 Terminal or VT340 Terminal **Keywords:** System Management - VMS

**Abstract:** This system is designed as a tool for use by those people responsible for capacity management of a VAX or VAXcluster. It is not necessary to have VMS internal knowledge or system management knowledge to make use of this package. It is mainly designed for medium or large scale VAX installations.

This package collects statistics on the utilization of CPU, memory and disk devices on the monitored VAX or VAXcluster. It also collects information on the CPU response of the machine and the number of processes executing. In addition to the VAX wide and VAXcluster wide information collected, this package also collects information for each UIC group. If your VAX system is arranged with each application in a separate UIC group then this allows the total system utilization to be broken down by application.

The information collected can be displayed in a graphic form on VT240, VT330 or VT340 terminals. The capacity manager uses an interactive display program that has a DCL-like command syntax. The user can display histograms or frequency diagrams with hourly, daily or monthly information. The UIC group statistics can be added or subtracted from system wide statistics so graphic answers to questions like, "What will happen to the system if I take that application off?", can be seen.

Hardcopy output to printers that handle ReGIS is possible. If the Digital Equipment Corporation product RETOS is available, output to printers like the LA100 that support sixel graphics can be performed.

A machine uptime subsystem is included which records VAX uptime accurate to five minutes. These statistics can be reported between date and hour ranges, and weekends can be either included or excluded from the calculation.

Complete user documentation, help text and installation documentation is included on the media.

**Notes:** Executable and/or object code is included. Changes and Improvements: Support of VMS V5.3, bug fixes, and minor display enhancements.

**DECUS No. V00314**

**Media (Service Charge Code):** 600' Magnetic Tape (MA) **Format:** VMS/BACKUP, or order VL0009

# Programs Announced Since Publication of the 1991/1992 DECUS Library Catalog

Note: (R) Revised Programs

DECUS NO.	DESCRIPTION	VERSION	KEYWORD
<b>VMS Abstracts:</b>			
VS0137	Symposium Collection VAX/L&T SIG, Part 2 of 2, F91, Anaheim	Fall 1991	Symposia Tapes - VMS
VS0136	Symposium Collection VAX/L&T SIG, Part 1 of 2, F91, Anaheim	Fall 1991	Symposia Tapes - VMS
VS0135	DECUS CDROM Collection 10	Spring 1992	CDROM
VS0134	Symposium Collection BO/AIM SIG, Sp91, Atlanta	Symposia	Tapes - OA
VS0133	DECUS CDROM Collection 9	Fall 1991	CDROM
VS0132	Symposium Collection VAX/L&T SIG, Part 2 of 2, Sp91, Atlanta	May 1991	Symposia Tapes - VMS
VS0131	Symposium Collection VAX/L&T SIG, Part 1 of 2, Sp91, Atlanta	May 1991	Symposia Tapes - VMS
VS0130	Best of AMIGA Collection 4	May 1991	Graphics
VS0129	Symposium Collection GAP SIG, Spring 1991, Atlanta	May 1991	Graphics
VS0128	Symposium Collection Australian VAX SIG, Summer 1990, Canberra	August 1990	Symposia Tapes - VMS
VS0122(R)	Symposium Collection DECUS France 1990	October 1990	Symposia Tapes - VMS
VS0104(R)	DECUServe Conference Notes	Fall 1991	Bulletin Board
VS0100(R)	X Window Clients and Demos	11, Release 4	Tools - Software Development
VS0059(R)	Symposium Collection DATATRIEVE/4GL SIG, Spring 1991, Atlanta	May 1991	ALL-IN-1
VS0053(R)	KERMIT Distribution	June 1991	Data Communications
VS0024(R)	AnalytiCalc and AnalyRIM: A 3D Spreadsheet/Database System in VMS/BACKUP	October 1991	Spreadsheet
VL0015	The VAX Library Collection 15	1991/1992	Library Tapes - VMS
VL0014	The VAX Library Collection 14	1991/1992	Library Tapes - VMS
V00530	C Swing and Other Utilities	V3.5.4	File Management
V00529	FIXDRIVER	V1.1, December 1991	Utilities - VMS
V00528	VAX_BYTE and XTetris	V1.0, October 1991	Games
V00527	MAKESHARE.COM	June 1991	DCL
V00526	HACK Game for VMS	November 1991	Games
V00525	T4125 - Tektronix 4125 Terminal Emulator	V3.0, November 1991	Emulators
V00524	IPS - Integrated Programming System	V3.7, October 1991	Editors
V00523	PRED - Programmable Editor	V2.1, May 1991	Editors
V00522	Asxxxx Assembler Linker for VMS	1, June 1991	Cross-Assemblers
V00521	SUPERVISOR SERIES	5.00, June 1991	Security
V00520	IEW TO VAX Bridge Software	V1, March 1991	Data Communications
V00519	DF Utility	May 1991	Utilities - VMS
V00518	VAX Scan Examples	May 1991	Language Interpreters
V00516	SIGNAL	V2.0, May 1991	DCL
V00515	KPY GRAPHICS-I Graphics Application	V2.0, April 1991	ReGIS
V00514	DFI/DMI and Helper	0.5i, February 1991	DATATRIEVE
V00504	RCS	December 1990	File Management
V00498(R)	CGLE	V3.1f, April 1991	Graphics
V00486(R)	WATCHER	V2.6-2, May 1991	Utilities - VMS
V00485(R)	NEWSRDR	V3.0, December 1991	Networking
V00482(R)	Message Exchange	V3.0, December 1991	Mail
V00423(R)	Kronos	VII.3, November 1991	Scheduling
V00385(R)	EDX	V8.1, December 1991	Editors
V00393(R)	CVTFILE	October 1991	IBM
V00365(R)	VAX ReGIS Graphics Library	V1.2, May 1991	Graphics
V00345(R)	SYSUAF Reporting Utility	V5.0, December 1991	System Management - VMS
V00342(R)	IIT	V5.4-A, November 1991	System Management - VMS
V00286(R)	VIEW	V5.4, May 1991	System Management - VMS
V00234(R)	FED	6.0, July 1991	Editors
V00193(R)	VTEDIT: Keypad Text Editor and Corrector for VAXTPU	5.3, June 1991	Editors
<b>ULTRIX Abstracts:</b>			
US0114	General UNIX Utilities	December 1991	Utilities - UNIX
US0113	UNIGRAFIX 2.0	September 1991	Utilities - ULTRIX
US0112	UNIX CDROM Collection, Fall 1991	Fall 1991	Utilities - UNIX
US0101(R)	OCT Tools	V5.0, September 1991	Utilities - ULTRIX
U00133	SPICE3E	September 1991	Circuit Simulation
U00131	Tsize	August 1991	Utilities - ULTRIX
U00130	LANSO	1.0, August 1991	Utilities - ULTRIX
U00129	BERT 1.0	August 1991	Utilities - ULTRIX
U00128	PROTEUS	August 1991	Utilities - ULTRIX
U00127	Ecstasy	August 1991	Utilities - ULTRIX
U00126	PERL - Practical Extraction and Report Language	V3.0, PL44, May 1991	Language Interpreters
U00121	EDIF 200	7.6, August 1991	Utilities - ULTRIX
<b>PDP-11 Abstracts:</b>			
11S115	VMSBCK - Read VMS BACKUP Tapes under RT-11/TSX-PLUS	91f04a	TSX
110935	MEGAMACROS	October 1991	Graphics
110933	Data PBX	May 1991	Data Communications
<b>RB-Abstracts:</b>			
RB0137(R)	XBOOK	V1.3, March 1991	Business Applications

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M92

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### AUTHOR INFORMATION (if different from above)

- Author: \_\_\_\_\_  
 Company: \_\_\_\_\_  
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Version/Date: \_\_\_\_\_

Is the submission  New  Revised

Keywords: \_\_\_\_\_

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6. Computer(s) on which this submission runs: \_\_\_\_\_

Operating System(s) on which this submission runs: \_\_\_\_\_

Is a particular operating system VERSION required?

Yes  No If YES, please explain: \_\_\_\_\_

7. Operating System(s) and Version under which this submission was DEVELOPED/TESTED:

#### PDP-11 Family

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 Micro/RXS version \_\_\_\_\_  
 RSTS/E version \_\_\_\_\_  
 RSX-11M version \_\_\_\_\_  
 RSX-11M-PLUS version \_\_\_\_\_  
 RSX-11S version \_\_\_\_\_  
 RT-11 version \_\_\_\_\_

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 VMS version \_\_\_\_\_  
 ULTRIX version \_\_\_\_\_

#### Personal Computer Family

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 MS-DOS version \_\_\_\_\_  
 P/OS version \_\_\_\_\_  
 RT version \_\_\_\_\_  
 VENIX version \_\_\_\_\_

#### PDP-8/DECmate Family

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 OS/78 version \_\_\_\_\_  
 OS/278 version \_\_\_\_\_  
 CP/M version \_\_\_\_\_

#### RISC Family

- ULTRIX version \_\_\_\_\_

#### Other

- \_\_\_\_\_

8. Source Language(s) in which program is written:

- |                                       |   |
|---------------------------------------|---|
| <input type="checkbox"/> ADA          | <input type="checkbox"/> FORTRAN IV-PLUS  |
| <input type="checkbox"/> ALGOL        | <input type="checkbox"/> FORTRAN 77       |
| <input type="checkbox"/> APL          | <input type="checkbox"/> LISP             |
| <input type="checkbox"/> BASIC        | <input type="checkbox"/> MACRO-11         |
| <input type="checkbox"/> BASIC-PLUS   | <input type="checkbox"/> MACRO-32         |
| <input type="checkbox"/> BASIC-PLUS-2 | <input type="checkbox"/> MU BASIC         |
| <input type="checkbox"/> BLISS-16     | <input type="checkbox"/> MUMPS (Standard) |
| <input type="checkbox"/> BLISS-32     | <input type="checkbox"/> PASCAL           |
| <input type="checkbox"/> C            | <input type="checkbox"/> PL/1             |
| <input type="checkbox"/> COBOL-74     | <input type="checkbox"/> RPG11            |
| <input type="checkbox"/> COBOL-81     | <input type="checkbox"/> VAX BASIC        |
| <input type="checkbox"/> DATATRIEVE   | <input type="checkbox"/> VAX COBOL        |
| <input type="checkbox"/> DCL          | <input type="checkbox"/> VAX FORTRAN      |
| <input type="checkbox"/> DIBOL-83     | <input type="checkbox"/> Other            |
| <input type="checkbox"/> FORTRAN IV   |   |

9. Memory Required (Words or Bytes): \_\_\_\_\_

10. Special Hardware Required: \_\_\_\_\_

11. Is executable and/or object code furnished?  
 Yes  No  
 If No, are any compilers needed to generate the program?  
 Please explain: \_\_\_\_\_

12. Other Software Required: \_\_\_\_\_

13. Is there other documentation required which you have not included in your submission? \_\_\_\_\_

14. Restrictions: \_\_\_\_\_

15. Notes: \_\_\_\_\_

**MATERIAL SUBMITTED**

16. Please check all material included with this submission.  
 ABSTRACT (250 words max.)  **HARDCOPY REQUIRED**  
 DIRECTORY LISTING  **HARDCOPY REQUIRED**  
 SOURCE CODE  **ON MAGNETIC MEDIA PREFERRED**  
 If COMPLETE sources are not included with this submission,  
 please explain: \_\_\_\_\_

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(e.g. user manual or HELP file):

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 1 2 3 4  
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 \_\_\_\_\_

19. Format of Media Submitted (accepted formats listed below):

- |                                     |  |
|-------------------------------------|--|
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| <input type="checkbox"/> VMS/BACKUP | <input type="checkbox"/> P/OS                |
| <input type="checkbox"/> TAR        | <input type="checkbox"/> RT-11               |
| <b>PDP-11</b>                       | <b>PDP-8/DECmate</b>                         |
| <input type="checkbox"/> BRU        | <input type="checkbox"/> COS-310             |
| <input type="checkbox"/> DOS-11     | <input type="checkbox"/> OS/8, OS/78, OS/278 |
| <input type="checkbox"/> FILES-11   | <b>RISC</b>                                  |
| <input type="checkbox"/> RT-11      | <input type="checkbox"/> TAR                 |
| <b>Personal Computers</b>           |  |
| Utility used to copy media? _____   |  |

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In cooperation with the "VAX to Alpha Systems Transition" (VAST) effort, the special edition of session notes for Alpha-related sessions presented at the Fall 1991 symposium is available from the DECUS Library.

The sessions included in the handout are:

- VAX VMS/RISC VMS Directions
- VAX Update
- VMS is VMS
- Programming Considerations for RISC VMS
- Tuning Your Application for the Future VMS
- RISC Processor and System Concepts
- Platform Transition Concepts and Processes

The session notes contain copies of the slides used at these sessions. They can be used by themselves or along with audio tapes from the sessions.

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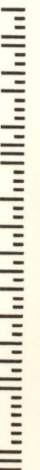
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