



RSX

MULTI-TASKER

December 1984 Issue

RSX MULTI-TASKER

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FROM THE EDITORS

Allen Watson
The Record

This is the last issue of the Multi-Tasker that I will co-edit with Dominic DiNollo; as of January, Dom will be taking over the editorship solo. I have enjoyed being able to contribute to the RSX SIG in this way, but I have to admit I won't miss the monthly deadlines.

As I have said before, in July, 1983 we received two VAX 11/780's, and since that time the majority of my time has been spent on VAX systems instead of RSX. In fact, for the last six months I have not had an RSX system available to me without major difficulty, and I've almost forgotten what PIP switches are or why people groan about the Task Builder. So it doesn't really make sense for me to continue editing this newsletter.

One of the major things I miss about RSX is the opportunity it offers to let you look under the hood and tinker with the engine. VMS is wonderful, I really like it, but I don't have the same feeling of close familiarity with it that I had with RSX. Half of the fun things I did in years gone by were stuff like finding new and strange ways to increase pool, setting up CCL interfaces for my users, and so on.

On the other hand, with VMS most of the reasons for doing that sort of thing are gone as well. I certainly don't miss the long nights of labor trying to get foreign controllers and boot prompts to work again after a new SYSGEN. It made great war stories, but who really likes a war?

I still plan to receive the Multi-Tasker and the RSX tapes; after all, a lot of that stuff works on VAXs too. I am a heavy user of Bonner Lab Runoff in preference to DSR on the VAX, for example. So from time to time I may contribute an article even though I don't run RSX anymore. I have the Cincinatti tape on its way to me right now and plan to at least put together a summary of what's on it for an upcoming issue. For others like myself who are VAX users, you might be interested to know that all the RSX tapes from 1977 onward are now in the DECUS library in VMS BACKUP format.

The joint editorship between Dominic and me worked out well, and I recommend it as a good alternative when one person finds the job to be too much. It depended, in our case, on the fact that we live only 25 miles apart and were able to get together once a month to "put the issue to bed". I am certain that the Multi-Tasker will continue to thrive under Dom's leadership; we shared an equal

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concern that quality material continue to be published for RSX users.

As a parting shot: lots of people have contributed to the Multi-Tasker this past year, and I want to thank them all for their fine efforts. But it has to keep on happening. The last two or three months have been pretty lean, and we have had to ask for material from people who are already heavily loaded down. You may not be able to write a five page article. Maybe your idea can be expressed in half a page. But a half-page idea can be as valuable as a long article in many cases. So send it.

If you have a problem you haven't been able to solve, send it along too. Questions from readers generate answers from many readers, so your little contribution provokes lots of contributions and we need that. Look at all the fun we had from Roger Jenkins's question about how to put a double quote in an Indirect symbol! Perhaps you think your question is trivial or stupid, but it isn't. My favorite question is one I know the answer to. It makes me feel smart, and I know others like me are out there waiting to answer just about anything you can ask.

CONTRIBUTING MATERIAL TO THE MULTI-TASKER

Please send all contributions for the Multi-Tasker to:
Dominic DiNollo
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Engineering Computer Center
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Yonkers, New York 10710

Contributions must be in machine-readable format on either mag tape or floppy disk. Acceptable formats are: RSX BRU, VMS BACKUP, PIP, or FLX. 1600 BPI tapes preferred. PRO/350 floppies are also acceptable.

I do not know if I will be able to keep the dial-in account for the Multi-Tasker alive on my VAX after I am no longer editor. I will try to do so as long as I can. Dom can dial my VAX and transfer files over to his machine. If you want to submit an article by dial-up, please call me, Allen Watson, for the appropriate login passwords and telephone number. My phone number is (201)-646-4111. Kermit is available on the VAX for file transfers.

Working Group News

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Date of this report: 13NOV84

The working group chairmen are as follows:

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The Unsupported Versions working group continues in its efforts to provide support for "old" versions of RSX. People presenting solutions to problems in previous releases of RSX will be submitting articles to Multitasker, covering changes to retro-fit

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Bonner lab Runoff, SRD, etc. on old versions of RSX. An article was sent to the Multi-tasker in regard to using BRU with MT: tape drives. Bill Burton will be unable to attend the fall symposium but Jeff Hamilton will chair the unsupported versions working group session.

The System Performance and Accounting working group is continuing its work in preparing the index of the past RSXSIG tapes in regards to System performance and accounting. There is much interest in continuing the development of performance measuring tools. Further contact with DEC in regards to the working groups goals is being pursued. An article is being prepared for the multitasker. Further work is being done in the area of consolidating the working group's division of labor. A search of all the past SIG tapes is being done in regards to the software analysis.

In regards to the DECUS library working group, a restructuring of the tree for distribution of the DECUS library tape has been done. The people on the tree are being used in the evaluation of a sample 2400' 800 bpi tape that will be submitted to the DECUS library. The tape was sent to the volunteers the Friday before the Spring Symposium. Evaluation is being done on the tape at this time. A couple of responses have been returned. A lot of the tree evaluation team have failed to return the tape with their evaluation and some have even disappeared with their tapes. Bruce requests those he has not been able to get in touch with to please help him by either returning their tapes or finishing their evaluation.

The SIG Tape working group reports that the spring 84 tape has been distributed to the tree and responses of those individuals who received the tape have started to come in. The distribution tape has been submitted to the DECUS library. A 4 tape VMS backup set of all the past RSX SIG tapes has been submitted to the DECUS library. Faster distribution of the RSXSIG tape is being planned.

The SRD working group has started making changes to SRD for Micro/RSX and POS (basically for named directories). Hopefully they will have the changes made by the next symposium. A minor bug fix is being worked up for the Fall symposium tape. The SIG data base is being used in the evaluation of different SRD and SRD command file procedures. The SRD Working group has submitted a separate article to this issue of the Multi-Tasker describing corrections for SRD V6.4.

The Real-time and Industrial Automation working group is working on the pre-symposia seminar that they are sponsoring. They are also working on a mailing about the role of the Real-time working group versus the LABS SIG. Other work is being done in the area of volunteers and objectives. Anyone with ideas, suggestions, or extra time and energy; please let Ed know.

The Cheap Networks working group has continued in it's evaluation

of the current free software for networking applications is the group's first task. Further work in the area of layering a mail application on this software was discussed. An article is being prepared for the Multitasker.

The formation of the computer aided instruction working group still awaits the appointment of a working group chairperson.

If you are interested in providing information to a special working group concerning problems or ideas in that area, please get in touch with the working group chairman of that group.

RSX SIG Pre symposium seminar TAPE Documentation

Backup Set Name	Contents Overview
MT:KERMIT.BCK	KERMIT communications system selection. Includes Kermits for RSX-11, RSTS, VMS, CP/M, P/OS, and MSDOS, plus the user manuals.
MT:VDDSK.BCK	Virtual Disk package for disk file based virtual disks (M+)
MT:VDMULT.BCK	Virtual Disk package for single or multiple file virtual disks (M or M+) (i.e., allows you to merge several files or devices if needed into a larger disk. Also can work as single file disk.
MT:VDMEM.BCK	Memory virtual disk. Makes a dedicated memory partition act like a fast disk.
MT:PCCVAX.BCK	Spreadsheet/DB package. VAX version and common documents and files here. Named PortaCalc or AnalytiCalc.
MT:PCCPDP.BCK	Spreadsheet/DB package. PDP11 and PRO and VAX common version here. Docs in previous area.
MT:PCCFILES.BCK	Keypad definition files for Spreadsheet pkg here.
MT:DDTLST.BCK	DDT Symbolic Debugger and LST multicolumn lister, ATT file attribute list/set, and FFL Fast FLX tape reader and TECO EDT simulator macro. Also BIGTPC tape copy utility.
MT:OPA.BCK	Online Pool Analyzer (Kitty Bethe version, M+)
MT:FFL.BCK	Fast FLX tape reader. Gets all files in 1 pass, can create output directories & set ownership.
MT:BASIC1.BCK	Michael Reese BASIC. Main directory
MT:BASIC2.BCK	Michael Reese BASIC aux directory. Few extra .cmd files here.
MT:RUNOFF.BCK	Rice University RUNOFF (Bonner Lab), very similar to DSR
MT:RUNOFF2.BCK	Runoff from DECUS Library

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MT:DOB.BCK	Object file disassembler. Turns .OBJ or .OLB files back into source. Supports new .OBJ records.
MT:DTC.BCK	Desk Top calendar utility for RSX, P/OS, or VMS. Schedules meetings, appointments, etc. etc. etc.
MT:TECO.BCK	TECO source distribution for TECO-11 V36. files not distributed in commented source are present as disassemblies in case .obj files get fouled up.
MT:BRUDIR.BCK	Program to make directories of entire BRU tapes and tell you ALL about the files, not just names. One pass does an entire multi backlupset volume.
MT:ODSFIX.BCK	Files-11 ODS1 fixup and file recovery utilities, CWD, WHO, Supermac, TRN (Task Rename), undelete, file squisher (removes trailing whitespace and fields beyond given width), DAMMIT, Cookie (fortune cookie),mail, and more.
MTAO:DECUSC.BCK	Top level DECUS C kit directory
MTAO:POS.BCK	DECUS C P/OS top level kit (binaries)
MTAO:POSCTX.BCK	DECUS C POS CTEXLIB directory
MTAO:POSFONT.BCK	DECUS C POS Font directory
MTAO:POSRMSP.BCK	DECUS C POS RMSPCLIB directory
MTAO:POZZDEC.BCK	DECUS C POS header directory
MTAO:COMMAND.BCK	DECUS C "Command" directory
MTAO:COMP.BCK	DECUS C "comp" directory, contains C compiler and assembler source and build files
MTAO:CPP.BCK	DECUS C C preprocessor
MTAO:H.BCK	DECUS C directory full of .H files
MTAO:LIBC.BCK	DECUS C C library in C (yes, there's even a SCANF in C)
MTAO:RSXLIB.BCK	DECUS C RSX runtime library sources
MTAO:TOOLS.BCK	DECUS C useful tools programs + build files (build!)
MTAO:VAXLIB.BCK	DECUS C VAX runtime library sources
MTAO:MISC.BCK	DECUS C misc. goodies including a BASIC, a FOCAL, aROFF, a speller, games, and much more.
MTAO:OTSCOM.BCK	DECUS C system independent OTS in MACRO-11
MTAO:OTSIO.BCK	DECUS C various I/O services in the OTS for some OSs
MTAO:PML.BCK	DECUS C Portable Math Library in C

At this point the tape is completely full. We wanted to add CCL, a super command language enhancement, and SRD, a super file structure maintenance utility, and also FRAG (which shows how fragmented your disk is) and ENA which allows you to turn on privileges temporarily, and VS, the Variable Length Send/Receive driver. However, there's no more room, so these have been left off. The last SRD and CCL were on the RSX Fall 1983 SIG tape, in UICs [352,4] and [344,61] respectively. This tape is available from the DECUS library as number 11-SP-60 in either BRU or VMS Backup form. (The VMS Backup version is under a different number).

To read a tape in RMS Backup format you use RMS Restore.

If you have VMS, define the command
\$RST:==MCR RST

and if you have RSX, install RMSRST via
>INS \$RMSRST/CKP=YES/TASK=...RST

Each backup set should be placed in a separate directory on output. To do so, set your default output to the directory you want the output to go into, and mount the tape as an ANSI volume (label is RSXSIG). Then give the command:

```
RST *.*;*/FR=MT:name.BCK
```

where you may use MS: or MF: or MM: instead of MT: if you have a different type tape controller. The /FR switch forces UIC ownership to be yours. Without it, it will be the same as the source system, which will generally mean that unless you are privileged enough (and have exquota set on VMS) you will get error messages as BCK tries to close the files.

RMS BCK was used because it is the only utility readily available to RSX, VMS, and RSTS sites which uses fairly large tape blocks and preserves all file attributes. Also, it does not globalize tape errors the way BRU does, so errors in input files tend to be much better localized than on BRU tapes. We want you to be able to use this tape when you get back to your systems.

You are urged to obtain the last 2 RSX SIG tapes (11-SP-60 for Fall '83 BRU, and 11-SP-67 for Spring 1984 BRU) from DECUS if you do not have them already. Both are available in VMS Backup format also under different catalog numbers; a call to DECUS will get you the numbers if you prefer VMS Backup format for reading the tapes on a VAX. Additional versions of RUNOFF, CCL, SRD, and the rest of the Kermit distribution, plus much much more, are on these volumes. They also include the LBL Tools, a complete Unix-like system that runs on RSX (or VMS or about 30 other OSs) with equivalents to nearly all the Unix utilities in source, with build files.

If you run RSX or VMS, in fact, the complete RSX SIG tape collection has many worthwhile offerings, even on the oldest of the tapes. Many of these even run in native mode under VMS, as they are written in compatible HOLs.

PLAY WITH SORT V3.0 FIRST

I recently installed the new SORT V3.0 package on my M-PLUS V2.1 system (running with autopatch D). There were many nice new features which were appealing to my site. We tested it one weekend and it seems ok. Then we went live with it. Yuck!@ : it blew over half of our production jobs out of the water and created a bundle of headaches. The problems have been SPRed with a plea for quick response. At this point, I would suggest that the rest of you review its usage in your environment VERY CAREFULLY before migrating unconditionally. We tried to determine if the problems could be tied to certain file types, record lengths, etc. The problems seem to be inconsistent and we could not accurately define the nature of the problem in the timeframe we had.

In summary, SORT V3.0 looks very nice but some polish is needed.

Terry Medlin
Survey Sampling, Inc

Spring 1984 RSX SIG Tape Distribution Tree

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Eastern U.S RSX SIG Tape Copy Tree. Spring 1984

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 1 ¶ EDWARD F BEADEL JR
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Glenn C. Everhart #79 RSX -11 SIG Tape Coordinator Cherry Hill, NJ 08358 -----	Jim Downward #37 ->Southeastern Michigan LUG-----> Ann Arbor, MI 48106	Frank Atkinson #71 ->Central Ohio LUG-----> Columbus, OH 43229	Brian Nelson #88 ->Toledo AD HOC LUG Toledo, Oh 43606
		Tom Haase #72 ->Western Reserve LUG-----+> Cleveland, OH 44128	Mike Fauber #12 ->Dayton DEC LUG Dayton, OH 45433 Rick Sharpe #65 +-->Toledo Sci+Tech LUG Toledo, Ohio 43652
		Hugh Gregg #91 ->Greater Lansing LUG-----> East Lansing, MI 48824	Kreigh Tomaszewski #63 ->West Michigan LUG Ada, MI 49355
		Steven Peschke ->Northeastern Wisconsin LU Oshkosh, WI 54901	
	William Patterson #23 ->Madison Wisconsin LUG-----> Madison, WI 53792	Jim Leedham #36 ->Southeast Minnesota LUG-----> Rochester, MN 55905	John Vilandre #01 ->Loon LUG Minneapolis, MN 55455
		Jerry Wray #06 ->Central Illinois LUG-----> Urbana, IL 61801	Gerald McGinnis #07 ->Argonne LSI LUG Argonne, IL 60439
		Tim Gardner #61 +>Central Indiana LUG W. Lafayette, IN 47907	
		Bob Streeper #04 ->Bi-State LUG-----> Cedar Rapids, IA 52401	Jim Flatten #35 ->Skunk River LUG Ames, IA 50011

Harry Atherton #42	Paul Sandwell	Robert W. Fairchild #67
->Iri-State LUG----->	->Tulsa LUG----->	Midlands LUG
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		Gary Dunbar
		+-----> Central Oklahoma PDP11 LUG
		Oklahoma City, OK 73114
	Richard Wrenn	
	->St. Louis LUG	
	St. Louis, Mo. 63110	
Paul Tompkins #82	Peter Reinecke #15	Douglas H. Threatt #77
->Brazosport LUG----->	->Greater Houston Area LUG----->	>Alamo PDP-8/PDP-11 LUG
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	Mike Drabicky #28	Craig Bentsen
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	Richardson, TX 75081	Corpus Christi, Tex. 78469
	Margaret H. Knox #02	Fred Duzik
	->Austin Minicomputer LUG----->	>LOTALUG
	Austin, TX 78712	San Antonio, Tex. 78234

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		>San Diego PDP-11/VAX LUG	>EGG LUG
		San Diego, CA 92121	Las Vegas, NV 89125
James K. Neeland #38			Bradford Castalia #43
Los Angeles RSX LUG----->			>Tucson LUG
Malibu, CA 90265			Tucson, AZ 85705
~			
		James F. Harrison #22	Larry Ebinger #69
===== =====		>Los Alamos Users of RSX----->	>Central New Mexico RSX LI
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			>Southern New Mexico LUG
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	Roger Jenkins #50		Bill Minasian #56
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Huntington Beach, CA 92647	Huntington Beach, CA 92647		Davis, CA 95616
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			>Idaho LUG
			Boise, ID 83704
		Steve Lorentzen #34	Wayne Little #53
	>Seattle Area LUG----->	>Seattle Area LUG----->	>Idaho Falls LUG
	Seattle, WA 98121	Seattle, WA 98121	Idaho Falls, ID 83415

| Robert N. Perry #32
|->Portland Area PDP-11 LUG
Beaverton, OR 97077

Library Updates

new
PRO-124

C Language System for the Professional-350 with Native Toolkit

Version: November 1983

Author: David Conroy, Robert Denny, Charles Forsythe, Clifford Geshke and Martin Minow

Submitted By: Martin Minow

Operating System: P/OS V1.8

Source Language: C, MACRO-11

"C" is a general purpose programming language well suited for professional usage. This "C" distribution contains a subset of the DECUS "C" programming system which includes:

- A compiler for the "C" language. The entire language is supported except for an emulated (software) floating point, macros with arguments, bit fields, and enumerations.
- A common runtime library ('standard I/O library') for "C" programs running under the RSX-11 or RT-11 operating systems. By using this library, "C" programs may be developed on one operating system for eventual use on another.
- A RSTS/E extensions library allowing access to all RSTS/E executive services.
- An RSX-11/M extensions library allowing access to all RSX-11M executive services.
- More than 20 "C" programs, including a cross-reference lister for "C" programs, a lexical analyser program generator, cross-assemblers for several microcomputers, and several games.
- "C" may be built to run under RSTS/E V7.2/V8.0, RSX-11M V4.0, RT-11 V4.0, VMS V3.1 - 3.2 (compatibility mode) or TSX-PLUS V2.2/V3.0. It may be modified to run on earlier versions of these operating systems and should run on subsequent versions without extensive modification.

Note: For sources and documentation manuals see DECUS No. 11-SP-18.

Restrictions: This submission contains neither documentation nor sources for the compiler or Run-Time Library. The "tools" are not provided. Some functions for accessing P/OS menus are provided.

Sources not included. Limited documentation on magnetic media.

Media (Service Charge Code): 5 1/4" Floppy Diskette (JC)

Format: FILES

Keywords: Programming
Languages
Operating System Index: PO/S

User Command Linkage-Plus for the PRO-300 Series

Version: V6J, July 1984

Author: William K. Walker, Monsanto Research Corp.,
Miamisburg, OH

Operating System: RT-11 V5.01

Source Language: MACRO-11

Memory Required: 8872 Words

UCL+ is a user command linkage program for use with RT-11 V5.01 on the PRO-300 series computers. It allows dynamic, on-line definition of user commands (or "symbols") and is upward-compatible with the UCL program distributed with RT-11 V5.01. Among the extended features are:

1. An "execute-immediate" mode for commands that are defined in terms of other UCL+ commands.
2. Deletion of multiple symbol definitions in a single command line.
3. Optional chaining to additional "UCL's".
4. A user-definable "run-by-name path" which extends the RT-11 "run-from-SY:" default.
5. Provision to STORE/RECALL program settings to/from a separate ".UCL" file.
6. A PASS ON command that allows you to force UCL+ to "pass-on" a given command string to the next "UCL" in the chain (the default mode) or to a program that you specify.
7. DISPLAY of command expansions with or without execution. The DISPLAY command can also be used to output pre-defined ASCII strings to the console, the printer, or some other device/file (handy for sneaky escape sequences).
8. Several useful built-in "hard-wired" commands including a DCL-style RNO command for use with the DECUS RUNOFF (DECUS No. PRO-104) program.
9. Provision for accepting lower-case input (as well as most control characters).
10. Provision to list all program parameters, including symbol definitions; list output may be directed to devices/files other than the console.

The V6J distribution also includes the source text and instructions necessary to create an on-line HELP facility for UCL+.

Documentation on magnetic media.

Media (Service Charge Code): 5 1/4" Floppy Diskette (JA)

Format: RT-11

Keywords: Utilities - RT-11,
PRO-300 Series
Operating System Index: RT-11

October 1, 1984

PORTACALC: A 3D SpreadSheet/Database System

Version: V12.1, July 1984

Author: Glenn C. Everhart, Ph.D.

Operating System: IAS, RSTS/E, RSX-11D, RSX-11M, RSX-11M-PLUS,
VAX/VMS

Source Language: FORTRAN IV-PLUS, FORTRAN 77, VAX-11 FORTRAN,
MACRO-11, MACRO-32

PORTACALC is a powerful 3-dimensional spreadsheet/database and analysis system with easy user extensibility designed to outperform most any commercial package available, running on PDP-11 systems able to support the F4P compiler, or VAX systems, needing the VAX FORTRAN compiler to compile. Several terminals are supported, including the VT100 series, VT52, Datamedia Colorscan 10 and Elite 1500, Televideo 925, and ANSI color terminals.

The program is designed for portability to other FORTRAN systems, with peculiarities used documented, and its manual is designed to be turned into a system HELP file so that it can be read online. Tutorials are supplied as well. Recustomizing for other terminals is easy; only direct cursor addressing, screen erase, and line erase are required, though reverse video allows use of the VT100 templates which yield an easier-to-read screen.

A data management system interface is built in, permitting spreadsheets to access a potentially unlimited number of files and records or parts of records in those files for user defined functions, numbers, formulas, text or whatnot. In fact it has many of the attributes of a language. Every cell may contain far more complex formulas than most commercially sold programs, and indeed may be a complete program with the ability to execute most command-level spreadsheet commands, though with minor restrictions.

Merging of multiple sheets, matrix algebra, general function solving (a la TK!SOLVER, though with a less polished user interface), and easy document load/unload make this spreadsheet very significantly more powerful than all but the most elaborate mainframe packages, and infinitely easier to customize. User commands may be entered via a keyword or function key and are provided with a comprehensive HELP system permitting users to individually tailor commands to their needs.

A powerful text integration function permits integration of word processing files with reports, permitting use of AnalytiCalc (PORTACALC) to integrate sections of reports which are edited with

any editor. It also simplifies inserting text from external files flexibly over null cells of the spreadsheet.

Note: VAX/VMS users, see DECUS NO. V-SP-24.

Changes and Improvements: This version has better graphics interface and search-formula functions. Deleted some obsolete module versions. PRO-350 PortaCalc sources added.

Restrictions: This version uses screen independent cursor control. PDP-11 version easily customized to almost anything.

Release notes distributed with each tape. Documentation on magnetic media.

Media (Service Charge Code): Manual (EA), 600' Magtape (MC)

Format: RMSBCK (1600 BPI only)

Keywords: PORTACALC,
Spreadsheet, Data Base
Management, Business
Applications
Operating System Index:
RSX-11/IAS, RSTS/E, VAX/VMS

October 1, 1984

CLE: Command Line Editing and Storage Utility for RSX-11M

Version: V3, March 1983

Author: F. Kuster, Eidg. Techn. Hochschule, Hybridrechenzentrum
AIE, Zurich, Switzerland

Operating System: RSX-11M V3.2, V4.x (RSX with SPAWN Support is
Required)

Source Language: MACRO-11

Memory Required: 3.5KW

CLE is an interface to the actual CLI, which remembers the last commands, so that they can be recalled and edited after an error or modified for reuse. It also allows for up to ten commands to be stored in a temporary buffer for later use either individually or as a group of commands. CLE executes some often used commands with one single control-character.

CLE runs with RSX-11M 3.2 and 4.x and supports MCR, DCL and User-CLIs. No special type of terminal required.

Documentation on magnetic media.

Media (Service Charge Code): Floppy Diskette (KA) Format: RT-11,
600' Magtape (MA) Format: DOS-11

Keywords: Editors, Utilities
- RSX-11
Operating System Index:
RSX-11/IAS

October 1, 1984

Symposium Tape from the RSX SIG, Fall 1983, Las Vegas in
VMS/BACKUP

Version: Fall 1983

Author: Various

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

Operating System: IAS, RSX-11D, RSX-11M, RSX-11M-PLUS, VAX/VMS

Source Language: Various

This tape consists of two BRU (V3.2) backup sets at 1600 bpi with no extra files afterwards. Some of the highlights of the tape are:

Swedish PASCAL updated for RSX-11M V4.0 and V4.1, FCB program for RSX-11M-PLUS V2.0, CRT library for VT100 control, RUNOFF from the RSX SIG Runoff Working Group, Multi Trek (multi-user startrek game), RSX-11M/M-PLUS Activity monitor, written for V3.2, COMLIB module patch to get BRU to write files from tape to VAX disks. DGT - read DG, Unix TAR, IBM, many more tapes; writes some too. FIXED up ORC object Disassem. Resubmission of IAS virtual disks and pseudo tty drivers. Multi-file or multi-disk virtual disk package with security enhancements. FX: memory virtual disk package for M/M+. Desk Top Calendar. Appt/mtg sched, cal. display. Spelling checker, signal processing programs, tape copier, SCCS, day-of-week subroutine and more. Rice University RUNOFF. Many word processing enhancements and letter quality output support. Similar to DSR. Interr-interrogate a central DECnet node for new network control info in big networks. RSX-11M/M+ User Monitor. Network time coordinators. KMSKIT (RSX accounting and performance enhancements). CCL V9.0 Concise Command Language...better catchall task, very user friendly. Machine-readable versions of Hows and Whys of ASTs in RSX; MSCAN; Cluster and Resident Libraries; and RSX Sysgen session. Online Pool Analyzer for RSX-11M+ V2. SRD working group SRD. This is the definitive version of SRD, a super-useful directory/file maintenance utility. Manuscript and files for developing an ACP for RSX-11M in a Higher Order Language. Supermac in FORTRAN. Datatrieve structures needed to make RSX-11M+ accting reports SFGL70 graphics package enhancements. Complete distribution of KERMIT communications for many micro, mini and mainframe systems (1/12/84, fixes bugs of 10/21/83 version of VAX Fall '83 tape). Very complete comm program, runs on DEC, MSDOS, CP/M, Unix, VM/370, Apple, etc. etc. DG ADS Kermit (in RATFOR and FORTRAN). RSX and RSTS Kermit. Adventure compiler and runtime for RSX. 3D Plotting Package for Textronix 4014. TED full screen and line editor.

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

Note: PDP-11 users see DECUS No. 11-SP-60.

Complete sources not included. Documentation on magnetic media.

Media (Service Charge Code): 2400' Magtape (PS)

Format: VMS/BACKUP (Blocked at 2048)

Keywords: Symposia Tapes -
RSX-11, PASCAL, RUNOFF, Word
Processing
Operating System Index:
RSX-11/IAS, VAX/VMS

October 1, 1984

BASIC, PASCAL, PortaCalc, Kermit and a Desk Top Calendar for the Professional - 350

Version: V2, August 1984

Author: Various

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

Operating System: P/OS, RSX-11M-PLUS

Source Language: C, FORTRAN 77, MACRO-11

Other Software Required: PASCAL is not useful without the PRO Toolkit

These diskettes contain a grab bag of several RSX-11 tools off old RSX-11 SIG tapes, converted to RX50 format for the DEC Professional-350 under P/OS V1.7 or later (Maybe earlier too; no way to test that).

The following are provided:

PortaCalc for Professional-350 is the most powerful spreadsheet available. This version is compatible with the VAX/VMS version and does essentially everything you ever wanted your spreadsheet to do. The tutorial and manual file are supplied, and an install file is there too, in case you want to run it from a menu.

DTC for Professional-350 is a good desktop calendar facility for handling your calendar on the PRO. Full screen day/week/month/year displays, appointment selection, meeting scheduling, etc. etc.

RSX BASIC for the Professional-350 is the Michael Reese BASIC, a full language dialect similar to BASIC PLUS. This version starts up with a spurious error message, but works well.

SWEDISH PASCAL for the Professional-350 is the latest "Swedish PASCAL" compiler (updated for the new RSX versions) for the PRO. It is a full language compiler and OTS, plus the manual. This program is useful for those who have the PRO Toolkit so they can build programs in PASCAL now.

PRO Kermit V1 is a full featured communications package with host versions in the public domain available for practically any host or other Micro you ever heard of, and many you haven't. This package allows full VT102 emulation, file transfer, logging and much more and makes it totally unnecessary for you to buy anybody's communications packages. Includes the hexify and dehexas tools, making it possible to send even files with weird rms attributes around and rebuild the attributes.

There are install command files for BASIC, DTC, PortaCalc, and Kermit. The PASCAL kit is to be run from the PRO Toolkit, so is not installable from a menu. The others can run under the PRO Toolkit too; it is not necessary to go through the menu, except maybe for Kermit, which is heavily into PRO menus.

Changes and Improvements: Cleaned up speedups for PortaCalc, BASIC. Added a couple of C tools.

Complete sources not included. Documentation on magnetic media.

Media (Service Charge Code): 5 1/4" Floppy Diskette (JD)

Format: FILES-11

Keywords: Spreadsheet,
Calendars, Compilers, PASCAL
BASIC, Kermit
Operating System Index:
RSX-11/IAS, P/OS

October 15, 1984

Symposium Tape from the German RSX SIG, Spring 1984, Darmstadt

Version: Spring 1984

Author: Various

Submitted By: Klaus Centmayer, TU Muenchen, Lst.f.
Datenverarbeitung, Munich, West Germany

Operating System: IAS, RSX-11D, RSX-11M

Source Language: BASIC, FORTRAN IV, FORTRAN IV-PLUS,
MACRO-11, TECO

This tape contains the programs submitted by users at the DECUS Munich Symposium, 1984. The following is a very brief summary of the programs and routines on the tape. This collection also includes some revised versions of other RSX SIG tapes and a summary of available DECUS-SIG-tapes.

German RUNOFF, RECFIL, File Recover, Disk File Change, Editors, Text-processing, FORTRAN-debug, BASIC, Games, Common Region Modify, Device online/offline, Eventflag Report, Monitor Console Emulator, Computer Link, Catch All, AR11-driver, ZX-driver, Driver Database Dump, TT Status, Sysgen-modifications, TECO-macros, CAMAC Support, Plot-routines, Pictures on LP, Fast File I/O Routines, div. MT-routines (QIO, foreign tapes, EBCDIC-ASCII), Variable send/receive, Program-AST, IAS-utilities; Batch Level, STD.

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.

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

Media (Service Charge Code): 2400' Magtape (PS)

Format: DOS-11 (1600 bpi ONLY)

Keywords: Symposia Tapes -
RSX-11
Operating System Index:
RSX-11/IAS

October 15, 1984

TCU-50DYR Handler for RSX-11M, -PLUS, MICRO

Version: June 1984

Author: Phil Harms, Weyerhaeuser Company, Tacoma, WA

Operating System: MICRO/RSX-11 V1

Source Language: FORTRAN 77, MACRO-11

Memory Required: 7KW

Special Hardware Required: Digital Pathways TCU-50DYR battery backup clock/calendar

TCUSET/RSXSET and TCLOCK provide the software interface to the TCU-50DYR clock card. These routines set the TCU clock from the RSX-11 system time, and maintain the correct date over leap day and year end.

Restrictions: Routine TCLOCK must be scheduled to run shortly after midnight each day to insure that leap day and start of new year are maintained on the clock. TCUSET must be run after system time is manually changed for daylight savings time or other time/date changes.

Media (Service Charge Code): Floppy Diskette (KA),
600' Magtape (MA)

Format: FILES-11

Keywords: Clock, Device
Drivers - RSX-11, Calendars
Operating System Index: MICRO
RSX-11

October 15, 1984

Symposium Tape from the RSX SIG, Spring 1984, Cincinnati, in
VMS/BACKUP

Version: Spring 1984

Author: Various

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

Operating System: IAS, RSX-11D, RSX-11M, RSX-11M-PLUS, VAX/VMS

Source Language: Various

This program is the RSX, Spring 1984, Cincinnati Symposium tape for the convenience of VMS users. It is available in either BRU format (DECUS Program No. 11-SP-67) or VMS/BACKUP format at 1600 BPI.

The following are some highlights of the tape:

Michael Reese BASIC, ATT, DEV, Force command line, DOS cross supports, virtual disks (memory and disk resident), spreadsheet, calendar, Runoff from Rice University, spelling checker, several communications utilities including updates and extensions of XMTR and DUPLEX, graphics, full Kermit distribution (as of 7/15/1984), BUG screen debugger for IAS, LBL Tools toys (LEX, YACC, LISP, RATFOR, AR, etc.), DECUS C for PRO-350, phone list manager, mailing list manager, sorter, HEX file mgr, Task Image Zap, and numerous PRO-350 loadable task images and runtimes including Swedish PASCAL, BASIC, DTC, AnalytiCalc (spreadsheet), DDT (sources for symbolic debugger), TECO SRD, COPY, LISTRSX, and much more. Since many of these programs are as useful on VAX as on RSX, they are provided.

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

Complete sources not included. Documentation on magnetic media.

Media (Service Charge Code): 2400' Magtape (PS)

Format: VMS/BACKUP (Blocked at 2048)

Keywords: Symposium Tapes -
RSX-11, Spreadsheet, BASIC,
RUNOFF
Operating System Index:
RSX/IAS, VAX/VMS

October 15, 1984

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