OCTOBER 1978

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THE

VOL. 4 NO. 4

Contributions to the newsletter should be sent to:

Ken Demers MS-48United Technologies Research Center Silver Lane East Hartford, Conn. 06108 (203) 565-4309

Other communications can be sent to:

John T. Rasted			RT-11 SIG
JTR Associates			C/O DECUS
58 Rasted Lane	or	· · · ·	One Iron Way
Meriden.Conn. 06450		1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	MR2-3/E55
(203) 634-1632			Marlboro, Mass. 01752
			(617) 481-9511 Ext. 4141

FROM THE EDITOR

Continuing my effort to make the RT-11 Mini-Tasker and the RT-11 SIG responsive to our needs as RT-11 users. I am suggesting the following:

1. Establishment of an RT-11 SIG Brain Trust consisting of RT-11 SIG members that feel they have expertise in a particular area (Fortron, Basic, Macro, Data Acquisition etc.). These volunteers should be willing to answer user questions, complementing the local DEC software support offices, which, judging from letters and telephone calls I receive, do not meet all of our needs.

2. I have received questions concerning the RT-11 Welcome Wagon. I am not certain if one still exists. However, I would like to receive at least one volunteer representative from each state (and foreign country). This representative should be willing to contact new RT-11 users in his area. 3. To facilitate cross referencing user input in each issue. each user item submitted to the Mini-Tasker will now have an identification

number which refers to the volume in which it originally appeared. All user replies should refer to this identification number.

4. I would like to initiate an RT-11 Spotlight section of each Mini-Tasker. Any user can submit a brief description of his current programming effort, allowing readers with similar experience to exchange ideas. Continuing this goal at the San Francisco Symposium, we plan to start compiling a comprehensive list of all RT-11 users. Hopefully, we will be able to categorize each user by hardware and software. Users will then be able to find other users with similar interests and problems.

USER REQUESTS

TD 4-4-1

ES Industries B S. Maple Ave. Marlton, NJ 08053 (609) 983-3616

September 4, 1978

Mr. John T. Rasted JR Associates 58 Rasted Lane Meriden, CT 06450

Dear Mr. Rasted:

Thank you very much for your letters of August 16 and August 25. I am planning to implement the write-lock capability on my RX01 drive as soon as I can devote some time to doing so.

Since I first wrote to you, I have achieved a partial solution to my problems with using an ASR35 teletype as a paper tape reader/punch. I still cannot make it work as PR: under PIP, but I can use an RT-11 BASIC program (copy enclosed) to read a sequential ASCII tape.

Without borins you with too many details, let me make just a few comments about the workinds of the system. Although the program makes it appear that one line of data is read and then written, the transfer actually is done in 512-byte blocks. And, curiously, the read part of the operation is 1-2 blocks ahead of the write portion at all times. The first block is read, and then the output file is opened. Block 2 is read, block 1 is written, block 3 is read, block 2 is written, etc. At the end, I have to terminate the final block by repeatedly typing '***END***<CR><LF>' until the block is 512 characters long. Then, and only then, the final 2 blocks are written and the file is closed, The closing of the file apparently is the operation which I have been unable to accomplish under PIP.

I still cannot read a formatted binary tape, since I cannot use PIP and the /B switch. However, I have been able to achieve 99+% of my needs by being able to copy a sequential ASCII file from paper tape to floppy disk.

Thank you again for your help. You have my permission to place the ASR35 portion of my letter in the next newsletter if you so desire. Someone may still give me a clue to using PIP in this application.

Very truly yours,

Harlan E. Clark

Harlan E. Clark, Ph.D. Programmer/Consultant

```
RDTAPE.BAS 04-SEP-78 12:55:25

1000 PRINT *FILE TO BE WRITTEN*;

1010 INPUT A$

1020 PRINT

1030 PRINT *WHEN TAPE IS FINISHED, REPEATEDLY TYPE (AT ASR 35*

1040 PRINT *KEYBOARD) '***END***<CR><LF>' UNTIL FILE IS CLOSED.*

1050 PRINT

1060 PRINT *WHEN ASR 35 IS READY (SWITCH AT 'K'), PUSH 'RETURN'*;

1070 INPUT Z$

1080 PRINT

1090 DPEN *PR:* FOR INPUT AS FILE $1

1100 OPEN A* FOR OUTPUT AS FILE $1

1100 OPEN A* FOR OUTPUT AS FILE $2

1110 INPUT $1:B$

1120 IF LEN(B$)<1 THEN 1110

1130 IF B$=***END**** THEN 1160

1140 PRINT $2:B$

1150 GD TO 1110

1160 CLOSE

1170 END
```

ID 4-4-2

1978 JUL -6 AN II: OSI'Y ... MELBOURNE

DECUS

RECEIVED

City Engineer's Department, TOWN HALL. MELBOURNE. C.1 Box 1603 M., G.P.O., G.P.O., Melbourne, 3001

G.P.O., Melbourne, 3001 Victoria, AUSTRALIA.

28th June, 1978.

Chairman, RT-11 Special Interest Group, C/o. D.E.C.U.S.., 129 Parker Street PK 3/E55, Maynard MA 01754, UNITED STATES OF AMERICA.

Dear Sie,

I have to advise that Council currently operates a (vehicle counting) data acquisition system on a PDP 11/10 mini-computer in the Traffic Engineering Signals Branch, using a RT-11 Version 2C operating system.

The PDP 11/10 mini-computer described above is an 11/10 with 16K words of core memory, with twin floppy disc drive, DSS-11A Special Input Sub-System and LA-36CJ terminal. The operating system is RT-11 Version 2C and it is anticipated this may be upgraded to Version 3 soon.

The special input sub-system returns collected counts via a special sampling Assembly Language Routine to a BASIC Version 1B program. It is known that the Version 2 BASIC (BASIC-11) interface is different from the Version 1B interface. Endeavours to ascertain other local RT-11 Users have only been partly successful. Neither several local users nor the Sydney D.E.C.U.S. Office have up to date records of RT-11 users. It is not known whether any other local users operate a similar system using a DSS-11 input sub-system.

It is therefore requested that a list of RT-11 users with either similar hardware configuration or similar applications be forwarded to this office, together with a further copy of the October 1977 Edition of the Mini-Tasker Newsletter as this copy was not received by this Department.

Your assistance regarding the above would be appreciated.

Yours faithfully,

(S. J. PIKE)

City Engineer.

HRG/PL

USER INPUT

TO: RT-11 Teco Users

ID 4-4-3

From: David Yost 8464¹/₂ Kirkwood Dr. Hollywood,Ca. 90046 213 852-1089

Dear Teco-11 people:

1. I use a 19.2 Kbaud terminal and TECO prints out much slower than full speed when I do nT. Are you using .TTYOUT calls? If so, would you please use .PRINT or .WRITE calls which will run faster because of reduced system overhead per character? 2. How do I reclaim the right brace as a printing character and not as an escape? 3. Is there a way to get the pointer to stay where it is when a search on the current page fails? The manual I have refers to version 27 and I have 4. version 28, what do I do? 5. Can I get a description of how to make scope mode work with a terminal other than VT-52 or VT-11? 6. It would be nice if there were a match character construction allowing specified sets of characters like (a-f), (afglm12) etc. Plense let me know about these.

Sincerely, David Yost

P.S. Bents the heck out of "EDIT"



MECHANICAL TECHNOLOGY INCORPORATED

968 ALBANY SHAKER HOAD LARIAM, NEW YORK - ETTU 1977 - 16778 (2004)8010

August 16, 1978

SIG Editors Digital Equipment Corporation Users Society Maynard, MA 01754

Dear Fellow Editors:

I am in the process of putting together the first copy of the Engineering Special Interest Group (ESIG) newsletter (to,be published this Fall). My first goal as editor is to identify the interests of the engineering audiences, but ultimately I must address the broader question of their needs and how this newsletter can best serve them. I invite your readers to submit comments and contributions to the ESIG newsletter.

I firmly believe ther is a need for an ESIG and I ask your support in establishing this newsletter.

Very truly yours,

In alt

Walter V. Dixon Computer System Engineer

WVD/dg

DEC INPUT

Jon Harris

RT-11 MULTI-TERMINAL SUPPORT

There is a great deal of confusion over what is contained in RT-ll Version \emptyset 3B as far as multi-terminal support is concerned.

Multi-Terminal Support is a facility that allows specially written application programs to communicate with multiple terminals. It is used by CTS-300 and MU BASIC-11. It does not make RT-11 a multi-user system.

With the advent of less expensive higher capability systems and intelligent terminals, specific applications which use multiple terminals are becoming more prevalant. The multi-terminal capability in RT-11 does a good job of meeting this market need. The following better describes the salient features of multi-terminal on RT-11.

-WHAT DOES MULTI-TERMINAL SUPPORT DO?

It allows a program to send characters to and receive characters from as many as 16 terminals. One of these terminals acts as the background console terminal from which the monitor accepts commands. This is also the terminal that interfaces with background jobs that use the standard terminal service features. This or another terminal can be designated the foreground console terminal, which interfaces with foreground jobs that use the standard terminal service features. The remaining terminals are available for the exclusive use of a requesting program.

A program may issue multi-terminal requests to its console or any terminal owned by the program. It also may issue standard terminal service requests such as .TTYIN and .TTYOUT to its console terminal.

A feature of multi-terminal support allows any terminal to act as the background console terminal. However, it must be connected by a local DL-11. The SET TT CONSOL monitor command is used to switch console terminals.

-WHAT DOES MULTI-TERMINAL SUPPORT NOT DO:

It does not provide multi-user RT-ll. There is only one terminal designated as the background console terminal at any particular time, and this is the only terminal from which the monitor will accept commands. Multi-user APPLICATIONS such as MU BASIC and TIME-SHARE DIBOL demonstrate the intended use of multiterminal support; these are NOT multi-user RT-ll.

Multi-terminal support does not extend to the TT handler. The TT handler permits I/O in a device independent fashion to a job's console terminal only.

-A COMPARISON OF FEATURES

Standard terminal service is a set of programmed requests and features that are

used with the console terminal. Multi-terminal service provides a set of programmed requests and features that can be used with all terminals. A monitor with multi-terminal support has both standard and multi-terminal service features.

FEATURE	STANDARD TERMINAL SERVICE	MULTI- TERMINAL SERVICE
Ownership of a terminal for the exclusive use of a job	NO	YES
Relinquish ownership	NO	YES
Get a character from the terminal	YES	YES
Output a character to the terminal	YES	YES
Print a string to the terminal	YES	YES
Use TT handler to do I/O to terminal	YES	NO
Re-enable printing after CTRL/O	YES	YES
Set terminal characteristics: From DCL command level Under program control	YES NO	YES YES
Obtain terminal characteristics	NO	YES
Remote terminals, modem support (DIAL-UP only)	NO	YES
Time-out on output	NO	YES
Periodically check interrupt enable bits	NO	YES
Event flags for changes in terminal status	NO	YES

-SUMMARY

RT-11 multi-terminal service is a logical extension of portions of the existing console terminal support. As many as 16 terminals can be supported on many different interfaces. Multi-terminal support is not multi-user RT-11. However, its multiple terminal handling abilities are suitable for writing multi-user applications. More information can be obtained by reading the RT-11 documentation set. In particular, see:

- RT-11 System Release Notes (AA-5286B-TC) Sections 3.8, 3.11.1
- RT-11 System Generation Manual (AA-5283B-TC) pp. 3-9, 3-19
- RT-11 Systems User's Guide (DEC-11-ORGDA-A-D,ND1) pp. 4-71, 4-109
- RT-11 Advanced Programmer's Guide (AA-5280B-TC) pp. 1-62, 2-80 to 2-89, 4-94 to 4-98

The RT-11 Software Product Description (SPD 12.1.9) also has some relevant information.

WHAT IS IT? MU BASIC is an extension of the same BASIC used in BASIC-11/RT-11 and BASIC-11/IAS-RSX. It runs on any RT-11 System (11/03 through 11/60) with 28K or more words and supports up to 8 users. It takes advantage of up to 256K Bytes of memory. Its low price for one to eight users is without comparison in microcomputers, desktop calculators, or other mini's. Both DG and HP are quickly dropping out of the Small Multi-User BASIC market. The BASIC language on MU BASIC is highly functional, and will run programs written for BASIC-11/RT-11 and BASIC-11/IAS-RSX.

WHO WANTS IT? MU BASIC fits into a number of markets. The education market especially on the secondary level; finds MU BASIC (usually with an 11TO3 system) a nice adjunct to teaching programming in math courses.

In the lab and industrial market, the RT-11 foreground real time carability coexists with MU BASIC and can afford a low price solution for multiple access and analysis of real time data. The extended memory carability of MU BASIC-11/RT-11 gives customers a chance to take advantage of greater than 32K words of memory without concerning themselves with the intricacies of PLAS.

Many DEM's are leaning toward MU BASIC for Data-Entry based applications. MU BASIC affords these people secure multiterminal file access, up to 8 terminals, an easy implementation language (BASIC) and, because of the ease of BASIC, a system which can be customized for each end user site with a minimum of work for the DEM. The speed of MU BASIC is sufficient for most Data-Entry applications.

Care should be taken in representing the performance of MU BASIC, especially on Floppy Disks. The more file accesses are done, the slower the system appears. As a rule of thumb, discourage more than 4 terminals on a Floppy based MU system that requires files access.

WHAT ARE ITS UNIQUE FEATURES? The following are unique, salable MU BASIC features:

One to eight users with equal size memory partitions; no swapping of user partitions.

A variety of program manipulation commands including commands for saving, editing, running and retrieving BASIC programs,

Support for real (single or double precision), integer, and string data type.

Ability to run in either the foreground or background under RT-11 F/B monitor concurrently with another job; supports all

RT-11 supported devices (except VT11). MU BASIC runs in background only in systems using the RT-11 XM monitor.

Support for all terminals supported by RT-11.

User identification and file protection scheme to control system access and utilization (optional); public and group libraries for file sharing; privileged user capability,

Resource sharins: All peripheral devices can be used by any user at any terminal; ASSIGN and DEASSIGN commands available to restrict usage of non-public devices.

Limited ability for a user to ASSIGN a terminal (that is currently not in use) as an input or output device.

Sequential data storage using the RT-11 file system. The maximum number of simultaneously open files is limited by available memory and RT-11 channel considerations.

One or two dimensional virtual arrays on disk (integer; real and string) for processing quantities of data too large to fit in available memory or for performing random-access I/O. Program chaining and overlaying with COMMON to accommodate large programs.

Formatted output with "PRINT USING" statement.

String support, complete with string arrays and functions.

A "CALL" statement which allows easy interfacing of assembly language routines. These routines can be called by name and passed multiple arguments. These routines must be included at link time. These routines are compatible with FORTRAN IV.

Immediate mode execution for "desk calculator" operation and program debugging.

"ON ERROR" statement for error processing.

Privilesed user mode to protect BASIC applications programs.

MU BASIC-11/RT-11 VERSION 2 COMPARISON WITH VERSION 1 DICK STRAUSS

MU BASIC-11 Version 2 is a great deal more functional than Version 1. The purpose of the article is to contrast the two so you can better understand MU BASIC-11 Version 2.

The most significant change in Version 2 is that all of the handling of interrupts and peripherals is through RT-119 therefore, any legal RT-11 Version 03B FB or XM configuration with multiterminal support and with at least 56K bytes of memory will run MU BASIC-11 and all legal terminals for RT-11 are legal for MU BASIC-11.

MU BASIC-11 Version 2 has been made compatible with BASIC-11/RT-11 Version 2. In doing this, there are some language inconsistencies with MU BASIC V1. To help convert, there is a conversion aid shipped with MU BASIC-11 V2.

MU BASIC-11 V2 optionally runs transparently under the XM monitor allowing users significantly larger user partitions (still a maximum of 8 users; 4 on floppy based systems).

The following chart describes additional new features on MU BASIC-11 Version 2. NAME

CATEGORY

Inteser Data Type

Double Precision Data Type

Statements

DIM# LINPUT (chansed) RESET (chansed) ON ERROR PRINT USING (chansed)

Functions

ABORT CLK# CTRLC RCTRLC RCTRLO TTYSET

Commands

COMPILE DEL RESEQ SHR ASSIGN (another terminal as an I/O device)

The next chart describes changes in features from MU BASIC V1 to MU BASIC-11 Version 2.

FEATURE	CHANGE
String concatenation	In V2; the string concatenation operator can be either the amper- sand (1) or the plus sign (†) (in V1; it was the ampersand).
Virtuəl arrays	In V2; virtual arrays are like arrays in memory (except they are not zeroed at run time); they do not have special variable names. Virtual arrays can have one or two Subscripts (V1 allowed Just one supscript). The string length can have any value between 1 and 255; it does not have to be a power of 2. The default string length is 16 (in V1; it was 32).
Terminal width	In V2, the terminal width can be set from 1 to 255 characters.

All in all, Version 2 is a significantly more useful product than Version 1 and has carabilities far greater than one would expect for such a low priced product.

HARDWARE HINTS & KINKS

Tom Provost has indicated that the RT-11 Mini-Tasker will continue to serve as the HHK user forum. We welcome all user correspondence concerning any hardware topic. At San Francisco the HHKers will be sharing a "birds of a feather" room with the RT-11 and LSI-11 SIGs. The sessions of interest to HHKers is included in this issue.

SAN FRANCISCO SYMPOSIUM

John T. Rasted, RT-11 SIG Chairman

The 1978 Fall DECUS Symposium will sive the RT-11 SIG member an opportunity to exchange information on state-of-the-art hardware and software techniques.

Presentations by DIGITAL include the RT-11 Product Panel, RT-11 Languages, RT-11 Technical Tutorial, and Interactive Video Terminals Workshop (VT-100 and PDT-11 terminals). User presentations include formal papers, BASIC/RT-11 Modification Tutorial, and User Application Workshop where users freely discuss the problems and solutions concerning their installation.

There will be two SIG meetings. The first will be concerned with guiding new attendees through the maze of presentations, suites, exhibits and informal gatherings; and will end with a business meeting dealing with the SIG newsletter, DECUS Library, Local User Groups, and other non-symposia SIG activities. The second SIG meeting, coming at the end of the symposium, will deal with user reaction to the sessions and will respond to unanswered questions from other meetings.

In addition to the usual software sessions, there will be a number of hardware oriented sessions dealing with issues of interest to a broad range of users from system managers to hardware designers. Suites will be maintained for users to meet with representatives from DIGITAL groups such as Central Engineering, Field Service, and Software Services.

The RT-11 SIG and LSI SIG will share a room (Teakwood B) during the meeting to use as a SIG operations/gathering spot, PDT people will also be in this location.

Come to the symposium and meet with other users. Establish continuing communication to avoid re-invention of the wheel. Influence future plans of DIGITAL and the RT-11 SIG.

TO ALL STEERING COMMITTEE MEMBERS

There will be a meeting of the RT-11 SIG Steering Committee at 3:00 PM on Sunday November 26th in the Teakwood B Room.

TAPE COPY OPERATIONS

DIGITAL'S Computer Special Systems Group is providing DECUS with a machine capable of media-copy operations. Bring a mastape for swap operations. Contact the RT-11 SIG DECUS Library Coordinator or his representative at, or before, the symposium for additional details.

RT-11 SIG DECUS Library Coordinator:

Eric Morton Prelco Corporation 170 Lincoln Lowell; Ma 01851 (617) 458-8763

RT-11 SESSIONS

The following RT-11 sessions and times are scheduled for the Fall DECUS Symposium in San Francisco:

10:15 - 11:15 AM	Nov 27th
2100 - 4100 PH	Nov 27th
9:45 - 11:15 AM	Nov 28th
2:00 - 6:15 PM	Nov 28th
10:15 - 10:45 AM	Nov 29th
10:45 - 11:45 AM	Nov 29th
4:15 - 6:15 PM	Nov 29th
8:00 - 10:00 PM	Nov 29th
9:45 - 10:45 AM	Nov 30th
OPEN	Nov 27th thru Nov 30th
	2:00 - 4:00 PH 9:45 - 11:15 AH 2:00 - 6:15 PH 10:15 - 10:45 AM 10:45 - 11:45 AH 4:15 - 6:15 PM 8:00 - 10:00 PM 9:45 - 10:45 AM

HHK SIG

Tom Provost, Hardware Hints and Kinks SIG Coordinator

The 1978 Fall DECUS Symposium will give the DECUS attendee an opportunity to exchange information on stateof-the-art hardware and interfacing, systems implementation, and systems reliability and maintenance.

Presentations by DIGITAL include hardware engineering panels where engineers from DIGITAL discuss products and plans. They include technical presentations on performance analysis and other areas of research and development. They also include highly interactive sessions on future needs systems support.

User presentations on technical documentation and self-maintenance promise to supplement and enhance the Hardware Hints and Kinks workshops and panel, which in turn will be extended in time. Users will also be presenting sessions on 1 SI interfacing, CAMAC, and graphics.

Digital Central Engineering and Field Service people will be available in suites for informal discussions. A campground room (Teakwood B) will be shared with RT-11, PDT and LSI.

HHK SESSIONS

НΗК	Rondmap	9:00-9:30 AM	Nov.	27th
ННК	Workshop I	8:00-9:00 FM		29th
HHK	Panel	9:00-10:00 PM		29th
HHK	Workshop II	10:00-11:00 PM		29th
		9:45-10:15 AM		-
		ショ・ショートショー クロセロ	NOV •	<u>30th</u>

New attendees will find the welcoming reception on Sunday evening and the roadmap session Monday morning indispensable. Because of the wide range of technical content and application areas, it is essential that the attendee read the minipapers to plan his schedule.

A SIG business meeting will attempt to solicit feedback on the sessions, plan for the Spring Symposium, and provide for the continuation of SIG activities between symposia.

HOW	то	REACH	THEM			

John T. Rasted RT-11 SIG Chairman JTR Associates 58 Rasted Lane Meriden, CT 06450 (203) 634-1632 Ken Demers MS-48 Newsletter Editor United Technologies Research Center Silver Lane East Hartford, Ct 06108 (203) 565-4309 RT-11 DECUS Library Coordinator Eric Morton NELUG Coordinator Prelco Corporation 170 Lincoln Lowell, Ma 01851 (617) 458-8763 Fred I. Masee SIG Languages Contact Sandia Laboratories Div 1523 SIG LDP Product Contact P. O. Box 5800 Albuquerque, NM 87115 (505) 264-2115 RT/RSX Contact Art Hermes MIT/LNS Bates Linear Accelerator P. 0. Box 95 Middleton, Ma 01949 (617) 245-6600 RT-11 LUG Coordinator J. W. Tippie Arsonne National Labs CAMAC Contact 9700 S. Cass Ave Arsonne, Ill 60439 RT-11 HHK Coordinator Carl Lowenstein Marine Physical Lab SIG Hardware Contact University of Calif, San Dieso MPL Blds 106 Naval Undersea Center San Diedo, Ca 92132 Thomas J. Provost MITLUG Coordinator MIT/LNS Bates Linear Accelerator P. O. Box 95 Middleton, Ma 01949 (617) 245-6600 SCURT Chairman Mark Bartelt California Inst. of Tech. Pasadena, Ca 91125 (213) 795-6811 Ext 2663 Chesareake Area LUG Contact Henry Dardy Naval Research Laboratory Code 8133 Washington, D. C. 20375 (202) 767-6811

Sam Bibler Fermi National Accelerator P. O. Box 500 Batavia, Ill 60510 Chicaso Area LUG Contact

PAST SYMPOSIUM INFORMATION

HXN影(名) **۵** E CAT -----1 by: Richard A. Karhuse Computer Science Research Laboratory Northwestern University TECH B626 2145 Sheridan Road 60201 Evanston, IL. (312) 492-5248

the second s

The Computer Sciences Research Laboratory of Northwestern University purchased one of the first DEC RI01 dual floppy disk drives. Shortly after the warranty period expired, so iid the floppy disks. DBC in their infinite wisdom wanted a flat \$300.00 + travel + etc. to fix it. The laboratory felt this to be exorbitant and typically has done all of its own maintenance in-house. In the process of diagnosing the disk drive, we uncovered what appeared to be a drive write-protection circuitry.

Installing write protection into the the RI21 floppy disk drive turn out to be simple. BZC has included all the necessary logic and Microprogramming for it, but documents it nowhere, except marginally in the prints. DEC has brought all the necessary signals out to a Berg-type connector. It appears DEC had planmed on using a floppy drive which would sense a hole in the corner of the floppy diskette. This is the way IBM defines write protect on floppy disks much like the tab on cassettes. Apparently the drives that Digital is using does not have this capability (although we have never verified this fact).

To write protect floppies on the RI21, all that is needed is a switch, a little cable, and a Berg connector. Power is provided on the connector if a lighted switch is desired. In this case an additional resistor must be added to the driver board so that sufficient current is supplied to light the lamp.

When the switch is closed (see circuit diagram), DRV WRT PRCT is generated. The microcontroller senses this signal whenever a write operation is issued by the host computer, for a given drive (Ø or 1). If the drive is protected, the controller aborts the operation and sets the done, and error flags. The RIZS is set to a value of 410 (octal) and the ERROR register has a value of 210 (octal). All system software tested (OS/8, RTS-8 RT-11) did zero or more retries and then terminated the operation unsucessfully.

Installation Bints

The simplifiest way to write protect a floppy disk is to install a jumper or switch between pins #1 and #3 on the appropriate Berg pins of the M7727 drive electronics board. Any sort of toggle switch will do. We opted for a more esthetically pleasing back-illuminated, push-button switch. In addition to jumpering the above two pins. a six volt lamp and switch is placed between pins #6 and #8 to indicated when the drive is write protected. To obtain the balf ampere needed to drive the lamp a 12 ohm resistor was tacked on top of R128 (for drive 0) or R111 (for drive 1).

The labeling "WRITE PROTECT" was obtained rather ingeniously. First, the logo was generated with 18 pt.

rub-on letters to a piece of paper. This art-work was reduced several times with a Zerox machine until the correct size was obtained. The logo was then transfered to clear plastic by using a Thermo-Far machine—the device used to create overhead transarencies. The plastic logo was then mounted to the button using Scotch PHOTO MOUNT Spray Adhesive (cat. no. 6094). The plastic is cut to the size of the button.

The switches are then mounted on the RIO1 face plate. This plate is heavy cast aluminium. Thus a drill press should be used to punch the holes. Masking tape should be place on the outside of the face plate to prevent marring and the hole should be punched from the backside. The hole should be located such that the backside of the switch is just above the back retention plate.

Conclusion

The write protect switches have been use in the laboratory for over six months with no problems and prevented some good floppies from being accidentaly creamed. If there is sufficient (but not overwhelming) demand, the laboratory could provide the write protect switches built and tested for a nominal charge for installations which do not have the specialized equipment nor personnel to build the switches. These users would still have punch the holes in the aluminium and install the switches.

To conclude with a continuation on the history of our drive, we have developed a RX01 micro-controller diagnostic. This diagnostic allows us to single step the RX01 controller and examine various internal signals. More importantly, it allows us to "dump" the micro-controller ROM's. This dump then can be compared (via source compare programs) with a good floppy's ROM to determine which location if any have changed-we have encountered several floppies with this problem. In our case, an "unused-bit" changed state and caused our RI01 to jump internally to non-existant memory. We fired our problem with about \$0.10 of wire by totally disabling this unused bit.

The diagnostic will only be useful for installations which extensively do their own maintenance. It requires 27 bits of parallel input interfaces from the micro-controller to the diagnosing computer. M1703's or DR11's will suffice to bring this data in. However, a cable interface must be built on a flip-chip module. The diagnostic is written in 05/8 FORTRAN II with one SABE level subroutine to read the M1703. It should be fairly easy to transport this diagnostic to a PDP-11.

The diagnostic is not very well documented currently. But, I am willing to work with anyone who really wants to use it. It goes without saying that any installation who wants to use it must have some other mass storage device other than the floppies because you cannot run the ilagnostic off a sick floppy. Our laboratory currently supports: DEGtapes, DOS format 9-track magtapes, RK28 disk packs, RK25 disk packs, and paper tape.

PARTS LIST

(per drive)

Lighted Push-Button Switch

Push-on, push-off 5 volt switch

(Cutler-Hammer SB1DE191-1 or equiv. available from Newark)

Berg Header/Pins

Header 65043-033 214 header, 0.10

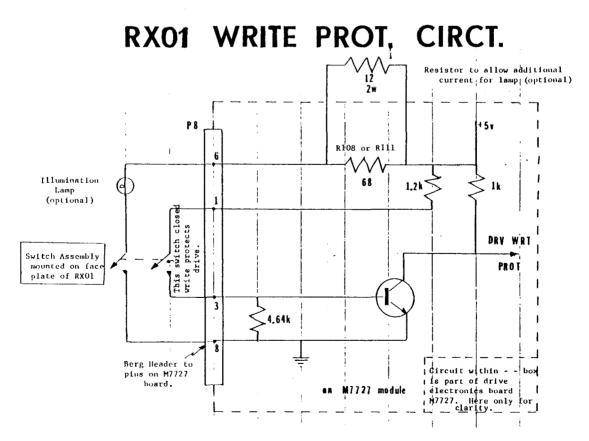
spacing with four 47712 pins

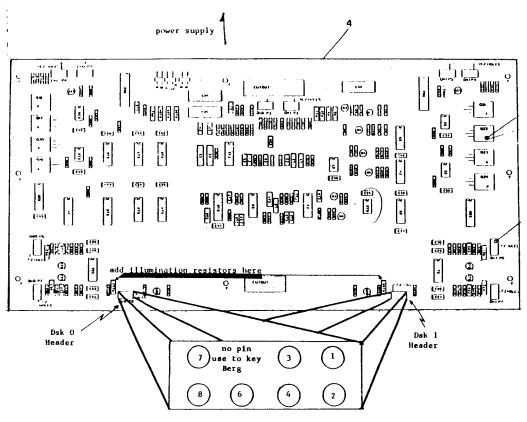
Cable

Four conductor approx. 1 foot

Resistor

12 ohm, 2 watt resistor





Berg Header Pin numbering

M7727 Component Layout



17922 SKY PARK CIRCLE, SUITE L, IRVINE, CA. 92714 TELEPHONE (714) 751-5040

June 21, 1978

John T. Rasted JTR Associates 58 Rasted Lane Meriden, Conn. 06450

Dear Mr. Rasted,

Computer Solutions is a software house which specializes in the LSI-11 series of DEC Microcomputers utilizing RT-11 operating systems. We have presented our standard products at the SCURT meetings and request, if appropriate, that brief write-ups appear in the mini-tasker to inform users and to increase our exposure. I have included a brief description of each package for your perusal and a price sheet.

EZMAIL permits a data base of names, addresses, and information codes to be collected, managed, sorted, and printed on mailing label stock or in report form. This product efficiently manages vendor lists, bidder lists, inquiry lists, membership lists, etc. Hardware requirements are a DEC VT52 and the LA180 printer. Other printers may be substituted at additional cost.

EZEDIT permits full screen text editing utilizing, once again, the DEC VT52 CRT. All functions are initiated by function keys and prompting sequences for simplicity. In addition to the typical editing features, block copy, block move, and global replace are supported. EZEDIT (pronounced Easy Edit) is a replacement for the RT-11 DEC editor. The DEC editor requires that the user have programming experience, whereas, EZEDIT is easy for secretaries, engineers, manufacturers and programmers. EZEDIT is also utilized to create input for Runoff which forms a powerful document preparation facility. Included in the price is a set of nicely engraved key caps for the VT52.

If you would like a more abbreviated version or other formatting considerations then we would be happy to comply. All of our products are available and feature simplicity of usage and installation. If you have further questions, please call collect.

Very truly yours,

WITDelKa

W. T. DeRouchey

WTD:kp

Enclosure

- Notes: 1. All software products delivered on DEC compatible flexible disk.
 - 2. Source available on request.
 - 3. Prices subject to change without notice.
 - 4. Price includes engraved key caps.



21 August 1978

Mr. John T. Rasted JTR Associates 58 Rasted Lane Meriden, Connecticut 06450

Dear Mr. Rasted:

Lawrence University announces the availability of a new software package for the PDP-11: Lawrence RUNOFF, which converts source text containing formatting commands into a finished document on a variety of printing devices. Could you please insert the following notice in the "RT-11 Marketplace" section of <u>The Mini-Tasker</u>?

DESCRIPTION

Lawrence RUNOFF for RSTS/E and RT-11. Flexible text and document formatting program coded in MACRO-11 for high speed (65 pages/min.) and low overhead (8K under RT-11). Distinctive features include alternating or centered page numbering, convenient footnote processing, indexing, hyphenation, run-time options, and programmed high-resolution justification via micro-spacing with Diablo-type terminals (e.g., Xerox 1700).

CONTACT

Dr. James S. Evans Computer Center Publications Lawrence University Appleton, Wisconsin 54912

Persons who contact us will promptly receive a two-page description containing prices and an offer of a complimentary copy of the user's guide.

Sincerely,

James S. Evans James S. Evans Associate Professor of Chemistry

Editor's note: Runoff is also availible from the DECUS Library

SPR'S

NAME	PHONE	DAT	E
GEOFFREY R GRINTON	03 429 15	511	12/7/78
COMPANY NAME & ADDRESS STATE ELECTRICITY COMMISSI HOWARD STREET, RICHMOND, V	ON OF VICTORIA, LCTORIA, 3121, A	HERMAN RESEARC	H LAB.,
COMPUTER MEMORY MASS STORAGE OTHER OPTIONS	SOFTWARE SPECIALI	ST	
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Problem: No Software Support Manual has been a	eceived for RT-	11 V3, and hen	ce
much necessary information is not av	ilable. This i	s despite the	fact
that the Advanced Programmer's Guide	(for example) m	akes several	
references to this document. For so	eone who does n	ot have a know	ledge
of RT-11 V2C, and access to 1ts docu	mentation it is	considered_tha	t
efficient use of system resources wo	ild be most diff	icult.	

NAME	GEOFFRE	Y R GRINT			1	03 429		DATE	12/7/78
COMPANY NAM	AE & ADDRES	SS STAT	E ELEC	TRICITY COMMISSI	ON OF VIC	TORIA,	HERMAN RES	EARCH	LAB.,
		HOWA	RD STR	EET, RICHMOND, V	ICTORIA,	3121.	AUSTRALIA		-
COMPUTER	MEMORY	MASS STORA	GE	OTHER OPTIONS	SOFTWARE	SPECIAL	IST		
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SYSTEM PROG		ION		R & VERSION	DOCUMEN'	т	CODE		PAGE
RT11 V3			RT-	11FB(S) V03-02C	L		DEC-	·	
ATTACHMENT	s:	PRINTOUT	Ľ		SOURCE	E			EXAMPLE
DETAILS OF Q	UESTION, SU	GGESTION, P	ROBLEM,	OR CORRECTION - PL	EASE PROVID	E A COMP	LETE DESCRIPT	ION AN	D ATTACH
Problem	: Ther	e is no s	imple 1	method by which	an applic	ation	programmer	can	
				minal (in a mult					ently
	activ	ve consol	e						
Analysi	s: One 1	method is	to do	a .MTGET on eac	h logical	. unit	(all 16 pos	sibil	ities)
	and	test the	approp	riate bit. This	is obvio	usly i	nefficient	and	
	inel	egant.							
Solutio	n: Publ	ish infor	mation	about where the	current	consol	e number is	stor	ed in
	the	resident	monito	r - it must be t	here some	where!			

	REY R GRINTO			PHONE 03 429		DATE 12/7/78
COMPANY NAME & AI	DORESS STATE HOWARI	ELECTRIC STREET	ITY COMMISSION RICHMOND, VIC	OF VICTORIA, I TORIA, 3121, A	HERMAN RESEA	RCH LAB.,
COMPUTER MEMO 11/10 24	RY MASS STORA	GE O	THER OPTIONS	SOFTWARE SPECIAL		
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Although th	e documentat:	lon is no	ot explicit on	this point, it	is reasonab	le to
expect that	only charact	ers type	d will be pass	ed to the appl	ication prog	ram.
The attache	d listing and	l printou	it show the pro	blem.		
The same pr	oblem occurs	when the	e multi-tty opt	ions are used.		
1						

NAME G	EOFFREY I	R GRINTON				PHONE 03 429 1	511	DAT	12/7/78
COMPANY NAM	45 & ADDRE			TRICITY COMMISS				ARCH	LAB.,
COMPUTER 11/10	MEMORY 24K	MASS STORA RK05		OTHER OPTIONS		SOFTWARE SPECIAL			
SYSTEW PROG RT11 V3		ION		R & VERSION 1FB(S)_V03-02C		DOCUMENT	CODE DEC-		PAGE 1
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Solutio	n: Add a	appropria	te con	ditional code.					
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	GEOFFREY					29 1511	DATE 12/7/78
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NAME	EOFFREY R GRINTON			PHONE 03 429	1511	DATE 12/7/78			
COMPANY NAM		ELECTRICITY CO				RCH LAB.,			
	HOWAR	STREET, RICH	OND. VIC	TORIA, 3121.	AUSTRALTA				
COMPUTER	MEMORY MASS STORA	GE OTHER OPT	IONS	SOFTWARE SPECIA					
11/10	24K RK05								
SYSTEM PROGR	AM & VERSION	MONITOR & VERSION RT-11FB V03-0		DOCUMENT	CODE DEC-	PAGE			
				L	DEC-				
ATTACHMENTS	TELETYPE			TAPE		X EXAMPLE			
DETAILS OF QUESTION, SUGGESTION, PROBLEM, OR CORRECTION - PLEASE PROVIDE A COMPLETE DESCRIPTION AND ATTACH PERTINENT SUPPORTING MATERIAL									
Problem	Problem: Escape Sequence Support								
						······································			
1	The documentation	n is unclear al	out just	what is mean	t by escape a	sequence			
	support, and how	it should be u	used (or	could be used).				
2	If escape sequen	ces are typed w	while the	monitor is a	ending to the	e console,			
	the command decoder gets out of step with the typed input, so that the								
	monitor obeys no	t the current of	command,	but the n'th	previous com	mand, where			
	n is the number of escape sequences typed during output.								
•									

· · · · ·	PHONE		DATE					
GEOFFREY R GRINTON		03 429 1511						
			12/7/78					
	OMMISSION OF VICTORI		ARCH LAB.,					
	MOND, VICTORIA, 3121		······································					
COMPUTER MEMORY MASS STORAGE OTHER O	TIONS SOFTWARE SPE	CIALIST						
11/10 24K RK05								
SYSTEM PROGRAM & VERSION MONITOR & VERSI	DN DOCUMENT	CODE	PAGE					
RT11 V3 RT-11FB VO	-02C	DEC-	1					
ATTACHMENTS: TELETYPE OBJECT PRINTOUT TAPE			EXAMPLE					
DETAILS OF QUESTION, SUGGESTION, PROBLEM, OR CORRECTION - PLEASE PROVIDE A COMPLETE DESCRIPTION AND ATTACH PERTINENT SUPPORTING MATERIAL								
Problem: Input using the TT: handler	does not work.							
	·		······································					
	·····							
Symptoms: On specifying TT: for inpu-	, no prompt appears	until one char	racter has					
been typed. The line type	is generally ignore	d, and control	is					
returned to the monitor.								
Depending on the program being used, the line is ignored (eg MACRO),								
treated as input to the monitor, or causes a system crash.								

NAME G	EOFFREY I	R GRINTON				PHONE 03 429	1511	DATE 12/7/78	
CONPANY NAM	A ADDRE	SS STAT	E ELEC	TRICITY COMMIS	5510	N OF VICTORIA,	HERMAN RES		
					VI	CTORIA, 3121.			
COMPUTER	MEMORY	MASS STORA	GE	OTHER OPTIONS		SOFTWARE SPECIAL	list		
11/10	24 <u>K</u>	RK05							
SYSTEM PROG		ION		R & VERSION		DOCUMENT	CODE	PAGE	
RT11 V3			RT-	11FB V03-02C			DEC-	1 1	
ATTACHMENT	s:	PRINTOUT	Ľ	DBJECT		SOURCE TAPE		X EXAMPLE	
	DETAILS OF QUESTION, SUGGESTION, PROBLEM, OR CORRECTION - PLEASE PROVIDE A COMPLETE DESCRIPTION AND ATTA: 1 PERTINENT SUPPORTING MATERIAL								
1									
Problem	: The c	late is no	ot upda	ated when ther	<u>re i</u>	s a midnight r	ollover of	the clock,	
	unti	<u>the TIM</u>	<u>Z is s</u>	pecifically ac	ces	sed. If this	is not appro	eciated by	
	users	s the date	e is i	ncorrect until	L up	dated by a pro	gram such a	s MACRO,	
	FORT	RAN, etc.					<u> </u>		
Solutio	n: Inclu	de a .GT	[M requ	lest in the co	ode	for .DATE. Fu	rther re-co	ding may	
	be required if system programs do not access the date with .DATE.								

OPERATING SYSTEM		VERSION		SYSTEM P	ROGRAM OR DO	CUMENT TILLE	VERSIC	N OR DOCUMENT PART	NO.	DATE
RT-11		3			BASIC			2		7-20-78
(SEE EXAMPLE IN INS	TRUCTION	(5)				DEC OFFICE	•	DO YOU HAVE SOURCES	17	YES X
NAME: Fred	Mag	AA				Albuquer	que			NO 🗍
		1523				REPORT TYPE			PRIORITY	
	ia Li					S SOFTWARE	ROR			
ADDRESS: Kirt	land	AFB E	ast				TION ER	ROR	STANDAR	D
Albu	quer	que, M	IM						Хинан	
			ZI		185	FOR YOUR #	FORMAT	TION/SUGGESTION		
BUBMITTED BY:			PHON			CAN THE PROBL	em be ri Yes	EPRODUCED AT WILL?		
Ron Trell	ue	ATTACHM	505-26	64-21	15					
		PY DISKS	отне			PLEASE EXPLAIN	IN PROV	EEN PREVENTED BY BET		YES □ NO K
	SERIAL NO		MEMORY		DISTRIBUTION M		SYSTEM	DEVICE	DO NOT PUE	Нан
11/34	AG 10	0697	<u>32 k</u>	(W	RKO	5		<u>RK05</u>	<u> </u>	
1	bly l The c	angua orrec	ge ro t cha	utine racte	to mani r string	pulate a was not	str reti	not work pro ing was writ urned from \$	ten and STORE.	d tested.
Description	s " T s t i	tring GETST he ch tring o the	hand R" ca aract . Ho temp n the	ling lls \$ er "B wever orary modi	routines FIND and " is int , the ca string fied str	TEST ALC wh roduced I to \$S correct	RS" (ich l to be TORE	S" was writt calls the "G both seem to e returned i does not se The option w sed to be re	ETSTR" work n the d t up t! hich d	subroutine properly. priginal ne pointer pes not wor
	f W S	irst as a	S." one w trap	lwo c as wi to an	ases of th the s address	the prog tring va in \$STO	ram ' riab] RE.	assembly la "STRTST" wer le A\$ not de (The line a is case just	e atter fined. fter li	npted. The The resul 1\$.) The
Attachment: Attch Attch Attch Attch Attch Attch Attch	I II III IV V	Ins BAS BAS \$ST	ertio IC Pr IC Pr ORE R	n of ogram ogram outin	"TESTRS" "STRTST "STRTST	" - Case odificat:	5IC 1 A1 2 A1	defined undefined indicated		

Solution: It was found that the \$STORE routine improperly modifies the string reference pointer of the source string with the pointer to the temporary string created by \$ALC. In particular, when setting up to call \$STORE, RØ has the string reference pointer of the string to be copied (as returned by \$ALC). This turns out to be a pointer to the word containing the number of characters in the loworder byte. In \$STORE, the following line:

10\$: MOV $(R\emptyset)$, (R1); Point Destination to new string

moves indirectly the word containing the number of characters into the string reference pointer for the original string. Unfortunately except for a null string, the string reference pointer should be an address and not the number of characters. This problem was solved by removing the () from around the $(R\emptyset)$ so that the line looks as follows:

10\$: MOV RØ, (R1) ; Point Destination to new string

The second problem which surfaced is the next instruction

MOV #-1, (RØ) ; make source null

which indeed makes the source null. This, however, is not a nice thing to do when the result is to be returned in the original string (which is supposedly legilimate, see last paragraph page 4-8 of the BASIC-11/RT-11 User's Guide). For a temporary solution, we removed the "make source null" line altogether. The final version of \$STORE is listed on page 14. This revision of \$STORE now functions properly for calling "TESTRS" with A\$ defined or undefined.

OPLIATING SYSTEM	VIASION	 býstémie	HOLINAM OH LID	UNENT DILE	VLICAL	N OH DOCUMENT PART	ю.	DATE	
RT-11	<u>3B</u>		FORTRAN			V 2		7-18-78	
NAME: Fred Hag				Alb.		DO YOU HAVE SOUNCES		YES NO	
FIRM: Sandia L				REPORT TYPE		I	RIORITY		
Division				S BOFTWARE EI	RAOR	1	LOW		
ADDRESS Kirtland		ast				ROR	STANDAR	Ð	
Albuquer		il zip: 871	85			TION/SUGGESTION	🗆 нюн		
Ron Trellu	e	рномс 505-264-2	115	CAN THE PROBLE	EM BE A	EPHODUCED AT WILL?			
	ATTACHM		٥ ð	MORE DOCUMEN	TATION	EEN PREVENTED BY BET		YES 🗋 NO	x
CPU TYPE SI HIAL		MEMORY SIZE	DISTRIBUTION		SYSTEM	DEVICE	DO NOT PU	ULISH	Π
i 11/34 AG-	11221	32KW	Mag	tape		RK06	L		<u> </u>
single R and Fort EIS code Situation: dump. Th properly	(06. F ran Ver Fortra ne prog	sion 2. T	ler the The Fort	RI-II Ver ran compi ed a comp	sion ler iler	ry, 9-track 3B single j was sysgened fatal error ded code and	for i with	n-line crash	
Attachments Pages 1- Page 3 Page 4- Page 6 Pages 7- Pages 10	2 (5 - 9	rash dump FOM.FOR (ma FOM.LST (ma FFTT FOR (a	ain prog ain prog subrouti threaded	ram) ram) ne which code cor	cras	t compilation		sulting	

OPERATING SYSTEM	VERSION	SYSTEM PROGRAM OR DO	CUMENT TITLE	VERSK	ON OR DOCUMENT PAR	T NO.	DATE	
RT-11	3	Fortran			2		8-3-78	
(SEE EXAMPLE IN INSTRUCTION	VS)		DEC OFFICE		DO YOU HAVE SOURC	87	YES	KI.
NAME: Fred Mag	ee		Albuquer	que			NO	
FIRM: Division			REPORT TYPE			PRIORITY		
Sandia L	abs							
ADDRESS: Albuquer	que, NM			ION ER	ROR		0	
						Пнюн		
	z	⊪: 87185						
BUBMITTED BY:	PHO		C FOR YOUR INFORMATION/SUGGESTION					
Ron Trellue	505-2	64-2115	-	YES	12 мо	כ		
	ATTACHMENTS PPY DISKS	LISTING (2)	MORE DOCUMEN	ATION	EEN PREVENTED BY B ? /IDED SPACE BELOW.	ETTER OR	YES . NO	Ø.
CPU TYPE SERIAL N	O. MEMORY	SIZE DISTRIBUTION M	EDIUM	SYSTEN	DEVICE	DO NOT PUE	34.4944	
PDP11/45 20	87 J 32K	RK05			RK05			
<u>Description</u> : Solution: A	tement for The FORTR only FORT the progr to disk, file also updated a MANUAL pa temporary	a direct acc AN program LE RAN V2 compil am is include the associate verifies tha s specified 1	ess file. ON.FOR wa: er and a i d as atta variable t the asse n the FOR o update	s co NHD chme is ocia TRAN the	mpiled usir library. / ent I. Afte printed. / itive variat LANGUAGE f record numb	ig a thr A listin Freach A dump o Dle was REFERENC	eaded g of write f the not E self	
no	t taking a ative vari	dvantage of t	he advert	ised	i utility of	the as	15 50-	

OPENATING	SYSTEM	VERSION	SYS	I M PROGRAM OR DO	CUMENT TITLE	VENSION OR DOCU	MENT PA	ART NO.	DATE	
RT		V03B	001	Fortran		V02				J-78
SEE EXAMI	LE IN INSTRU	CHONS)			DEC OFFICE		00 101	HAVESOUR		VES
NAME:	Mark Bart	elt			El Seg		L	*		
FIRM:	Californi	la Insti	tute of			REPORT TYPE/PRIO	RITY		□ 5. [X] 4.	
ADDRESS	Techno	ology, M	s 356-48	3		ESTED ENHANCEME	NT			
ADDRESS.	Pasadena	. Califo	rnia 91	125	О отны				2 .	
									D 1.	
SUBMITTED	a¥;		PHONE:		CAN THE PROI	BLEM BE REPRODUC	ED AT W		<u></u>	<u> </u>
	Mark Bart			311 ext 2663				YES	U NO	LI
MAG TAPE	DECTAPE	PY DISKS) LI ОТНЕВ	STING	PLEASE EXPLA	PR HAVE BEEN PRET ORE DOCUMENTATI	0.017	OW. YES		
CPU TYPE	SERIAL		IEMORY SI	ZC DISTRIBUTIO		RK05		DO NOT PUU	LISH	Π
11/xx	(Pla	any)		KK						
	to give a both back Diagnosis	erroneou kground s: The	s result and fore EAE regi	ts (randomly) eground jobs a isters are no	if a foreg are written t context s	with EAE is o ground job is in Fortran. switched. The only one EAE	active backg	e, and if	b	
						ids the other				
i						l by foregroun				
	issue a doesn't : to worry	.CNTXSW seem lik about.	program e someth Rather	med request i hing that the , it should b	f their sys uverage Fo e handled a	n Fortran user stem has EAE. ortran program automatically during object	Howev mer sh by the	ver, this hould have Fortran	e	n.
	One of the big advantages of the way RT-11 Fortran has been designed is the fact that programs may be moved without change between systems with different arithmetic hardware, simply by relinking (if threaded code is used) or by recompiling and relinking (if inline code is used). Please note that if the burden of issuing the .CNTXSW is placed on the user, instead of having it done by the Fortran OTS, programs will not be transportable between systems with EAE and systems without FAE without requiring that a .CNTXSW be added or removed.									
	Granted, this might cause problems if the user wanted to issue a .CNTXSW of his own; it would be necessary to know just what kind of context switching the Fortran OTS had requested. Still, anyone who's going to be doing his own context switching could certainly live with this minor difficulty. This, at least, seems preferable to requiring <u>all</u> F/B Fortran users to ensure that the EAE registers are properly context switched.									
	By the w If not,	ay, does this all	the RT would	-ll monitor a a pp ly as well	utomatical to the FPN	ly context swi U version of t	tch th he For	ne FP-11 rtran OTS	regist •	ers?
OPERATI	NG SYSTEM	VERSIO	N [S'	YSTEM PROGRAM OF	DOCUMENT TITLE	VERSION OF DO	CUMENT	PART NO.	DATE	

SYSTEM	VERSION	STATEM	moon an on be	COMINT TITLE	VERSION OR DOC	CARLINE FARTING.	DAIL	
-11	V03B-00A	ļ	KMON				28-	Ju1-78
LE IN INSTRU	CTIONS)	· · · · · · · · ·		DLC OFFICE	DO YOU HAVE SO	URCEST	YES[]	
Mark Bar	telt			El Segundo No				
NAME: Mark Bartelt FIRM: California Institute of ADDRESS: Technology, MS 356-48 Pasadena, California 91125					LEM ERROR		5. 4. 2. 1.	
			ext 2663	CAN THE PRO	BLEM BE REPRODU		E S X N	•
ATTACHMENTS MAG TAPE FLOPPY DISKS LISTING					COULD THIS SPN HAVE BELN PREVENTED BY BETTEN OR MONE DOCUMENTATION? PLEASE EXPLAIN IN PROVIDED SPACE BELOW. YES ? NO ?			
		Y SIZE			SYSTEM DEVICE RK05	DO NOT P	UBLISH	
	-11 Mark Bar Californ Techno Pasadena By: Mark Bar Borre D	-11 V03B-00A LE IN INSTRUCTIONS) Mark Bartelt California Institute Technology, MS 35 Pasadena, California BY: PHOPPY DISKS ATTACHMENTS PLOPPY DISKS DECTARE OTHER SERIAL NO. MEMOR	-11 V03B-00A LE IN INSTRUCTIONS) Mark Bartelt California Institute of Technology, MS 356-48 Pasadena, California 91125 BY: PHONE: Mark Bartelt 213/795-6811 ATTACHMENTS PLOPPY DISKS ELISTIN DECTAPE DISKS SEMIAL NO. MEMORY SIZE	-11 V03B-00A KNON LE IN INSTRUCTIONS) Mark Bartelt California Institute of Technology, MS 356-48 Pasadena, California 91125 BY: Mark Bartelt 213/795-6811 ext 2663 ATTACHMENTS PLOPPY DISKS SERIAL NO. MEMORY SIZE DISTRIBUTIO	-11 V03B-00A KMON LE IN INSTRUCTIONS) DEC OFFICE Mark Bartelt El Seg California Institute of Technology, MS 356-48 Image: Comparison of the second seco	-11 V03B-00A KMON LE IN INSTRUCTIONS) DEC OFFICE Mark Bartelt El Segundo California Institute of Technology, MS 356-48 Image: Comparison of the second	-11 V03B-00A KMON LE IN INSTRUCTIONS) DEC OFFICE DO YOU HAVE SO Mark Bartelt El Segundo REPORT VPE/PRIORITY California Institute of Technology, MS 356-48 Image: Comparison of the second se	-11 V03B-00A KMON 28- LE IN INSTRUCTIONS) DEC OFFICE DO YOU HAVE SOURCEST Mark Bartelt El Segundo REPORT TYPE/PRIORITY 5. California Institute of Technology, MS 356-48 PROBLEM ENROR 4. Pasadena, California 91125 SUGGESTED ENHANCEMENT X1. DY: PHONE: CAN THE PROBLEM BE REPRODUCED AT WILLT YES X Mark Bartelt 213/795-6811 ext 2663 COULD THIS SON HAVE BELM PREVENTED BY SETTACHMENTS YES X N DECTAPE CINERY SUME DECTAPE BELOW. YES ? N SERIAL NO. MEMONY SITE DISTRIBUTION MEDIUM SYSTEM DEVICE DO NOT PUBLISH

There is either a problem with the indirect command file processor, or an inadequacy in the documentation which might lead to misinterpretation

According to the System User's Guide (p. 4-107), "SET ERROR NONE" allegedly "allows indirect command files and keyboard monitor commands to continue to execute even though they contain significant errors"; however, this doesn't seem to be the case.

Suppose the file X.COM contains

FOR PROG1 FOR PROG2

and PROG2.FOR exists, but PROG1.FOR does not. If one types "SET ERROR NONE", and then "@X", processing of the indirect command file is aborted after an attempt is made to compile nonexistent file PROG1.FOR. The way I interpret the documentation, one should receive an error message, but processing of the indirect command file should continue, and PROG2 should be compiled. Yes? No?

OPERATING S	YSTEM	VERSION	i I	SYSTEM I	HOGRAM OR DO	CUMENT TITLE	VERSION OR DOCU	MENT P	ART NO.	DATE	
RT-1		V03B-	00A		Fortra		V02.			28-Jul-	78
SEE EXAMPLI						DEC OFFICE	undo	DO YO	U HAVE SOU		
NAME:]	lark Bar	telt				El Seg	HEPORT TYPE/PRIO	71TY		NO 1	
	Californ					.	LEM ERROR			□ \$. □ •.	
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1	Pasadena	, Calif	ornia	9112	5	Отне	R			2.	
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	v: Mark Bar	telt 🤈			ext 2663	CAN THE PROP	LEM BE REPRODUCI	DATW	ILL7 YES	X NO	
		TTACHME	NTS			COULD THIS SI	R HAVE BEEN PREV	ENTER			
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CPU TYPE	SERIAL		MEMORY	YSIZE	DISTRIBUTIO	1	SYSTEM DEVICE		DO NOT PU		
11/xx	(Mai	iy)			L RI	K05	RK05		L		
1	Compiler bug! Some statements, such as A = X / (FLOAT(IABS(M)) * FLOAT(IABS(N))) do not compile correctly with the inline code option (threaded mode seems ok).										
	The problems seem to occur in statements of moderate complexity which make use of Fortran functions which are calculated in line, rather than via calls to an external procedure. I've given this a priority code of 3 since, although the problem can be gotten around by replacing a statement of this type with a number of simpler statements which give the same result, this will require an <u>enormous</u> amount of reprogramming in our application. We could, of course, temporarily recompile everything with the threaded code option, but we'd rather not have to live with the significantly longer execution times which would result.										
OPERATING S	VSTEM	VERSIO	N	SYSTEM	PROGRAM OR D	DOUMENT TITLE	VERSION OR DOCL	MENTP	ART NO.	DATE	
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FIRM:	Colif	oraia 1	Inatir	ute of		53	REPORT TYPE/PRIO	RITY			
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										L] 1.	
SUBMITTED B	Y:			DNE:		CAN THE PRO	BLEM BE REPRODUC	EDATY		s 🗶 NO 🗌	
		Bartel		/795-6	<u>811 X2663</u>	1					
		PY DISKS			4G 🔲	BETTERORM	ORE HAVE BEEN PRE-	ON?	VE	s 🗌 not 🕄	
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51	il to cor Lt in HTC m't alro	, sele	. Per ct the	aasa 1 E Tequ	iae handled isted driv	e, and wait	efore actually for TUR to co) aatt Die ti	ung the me if it	50	

DECUS HAS MOVED!!

As of August 14, 1978, the DECUS International Headquarters and DECUS U.S. Chapter offices will be located at Digital Equipment Corporation in Marlboro. Our new address is:

DECUS MR2-3/E55 One Iron Way Marlboro, Massachusetts 01752

Marlboro is not on Centrex, a direct access telephone system, so all calls will come thru the switchboard at (617) 481-9511.

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U.S. Chapter	4141

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Company:	
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Zip/Postal Code:	Affix m here. If availabl address Include installat pany, u etc.
Mail to: DECUS - ATT: Membership One Iron Way, MR2-3 Marlboro, Massachusetts 01752 USA	Affix mailing label here. If label is not available, print old address here. Include name of installation, com- pany, university, etc.



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