

OHIO SCIENTIFIC TECH NEWSLETTER #14

JULY 27, 1979

Copyright July 27, 1979
OHIO SCIENTIFIC, INC.
All Rights Reserved.

SALES NOTES:

THE CM-2P (420 BOARD) HAS BEEN REPLACED BY THE CM-2B BOARD. THIS IS A MODIFIED 4K 527 BOARD SET UP FOR LEVEL III OR CP/M ON A HARD DISC SYSTEM. THE BOARD RESIDES AT \$D000 FOR 4K AND IS PRICED THE SAME AS THE ORIGINAL CM-2P (420) BOARD.

RICK WHITESEL, THE CUSTOMER SERVICE ENG., WILL BE ON VACATION FROM 7/30/79 TO 8/7/79. THERE WILL BE NO TECH NEWSLETTER THAT WEEK.

AN OVERLAY PROGRAM PROVIDING OS-65U WITH THE ABILITY TO DRIVE A NEC SPINWRITER NOW EXISTS IN HOUSE AND IS UNDER GOING TESTING. THE PROGRAM SHOULD BE SEEN COMING OUT ON STANDARD OS-65U DISKETTES IN A FEW WEEKS.

THE RESEQUENCER DISCUSSED IN THIS TECH LETTER SHOULD SHORTLY BEGIN APPEARING ON STANDARD OS-65U DISKETTES.

ATTENTION SOFTWARE GROUP MEMBERS: WE ARE CURRENTLY LAYING OUT A REWRITE OF THE SINGLE-USER OS-DMS PACKAGES. ANY FEEDBACK THAT YOU CAN PROVIDE WOULD BE APPRECIATED. WE WILL BE WORKING ON A MULTI-USER OS-DMS IN THE NEAR FUTURE.

MAILER FIX - OS-DMS NUCLEUS

CORRECTION TO PERMIT PRINT TO PRINTER USING KEY FILE ACCESS.

CHANGE LINE 31020 FROM:

31020 INDEX <2> = 42: INPUT %2,DUMY\$:G1=31050:EX=1

TO:

31020 V=1: INDEX <2> = 42: INPUT %2, DUMY\$:G1=31050:EX=1

Added
to end of line
previously.

JAB 2/12/89

ACCOUNTS PAYABLE/ACCOUNTS RECEIVABLE
SYSTEMS UNDER OS-DMS

THIS FIX CORRECTS A PROBLEM IN FILE CREATION IF THE USER DOES NOT REQUEST ANY EXTRA FIELDS IN THE FILE. THE PROBLEM SHOWED UP AS INCORRECT DATA POSSIBLY OCCURRING IN THE REPORT GENERATORS.

ADD/CHANGE THE FOLLOWING LINES IN "ARCREA" (UNDER ACCOUNTS RECEIVABLE) AND IN "APCREA" (UNDER ACCOUNTS PAYABLE).

174 FOR J=1 TO Z8: IF Y9=1 THEN T\$="A": PRINT %1,T\$:GOTO 180

175 PRINT "ADDITIONAL FIELD ";J; "LABEL";

180 PRINT: PRINT "LENGTH";

1115 PRINT: PRINT: IF Z8=0 THEN Z8=1:Y9=1

A NOTE ON USE OF THE CHANGE UTILITY

WHEN MODIFYING TRACK ZERO, DIFFERENT OFFSETS ARE REQUIRED FOR FLOPPY AND HARD DISC. THESE OFFSETS ARE LISTED BELOW:

CHANGE OFFSET FOR
TRACK ZERO CHANGES
ON A HARD DISC.

OFFSET = - 2B00

AND FOR TRACK
ZERO CHANGES ON
A FLOPPY DISC

OFFSET = - 2AFD

NOTE ON THE 40ms HEAD DELAY FIX (TECH LTR #1, PAGE 9)

IF MAKING THIS CHANGE ON A HARD DISC THE SECOND OFFSET SHOULD BE - 2B00 INSTEAD OF A - 2AFD AS INDICATED. -2B00 OFFSET SHOULD BE USED WHENEVER ONE IS MAKING TRACK ZERO CHANGES ON A HARD DISC. A OFFSET OF -2AFD SHOULD BE USED WHEN MODIFYING TRACK ZERO ON A FLOPPY DISC.

OS-65U V1.1 RESEQUENCER V1.0

COPYRIGHT JULY 1979 BY OHIO SCIENTIFIC, INC.

ALL RIGHTS RESERVED

OS-65U V1.1 RESEQUENCER V1.0

INTRODUCTION:

THE RSEQ COMMAND PROVIDES THE PROGRAMMER WITH A MEANS OF EASILY RESEQUENCING THE LINES IN A BASIC PROGRAM. THIS MAY BE DESIRED IN ORDER TO MAKE ROOM FOR ADDITIONAL LINES TO BE ADDED TO A PROGRAM OR TO RESEQUENCE A SUBROUTINE FROM ANOTHER PROGRAM SUCH THAT THE LINES OF THE SUBROUTINE CORRESPOND TO 'VACANT' LINES WITHIN THE PROGRAM WHERE THE SUBROUTINE IS TO BE ADDED. THE RSEQ COMMAND NOT ONLY RESEQUENCES THE LINE NUMBERS AT THE START OF EACH LINE, BUT IT ALSO CHANGES THE LINE NUMBERS IN GOTO, THEN, GOSUB & RUN STATEMENTS TO THE CORRESPONDING NEW LINE NUMBERS.

ENABLEMENT AND DISABLEMENT OF THE RSEQ COMMAND:

*** THE EDITOR MUST BE DISABLED IN ORDER TO ***
*** PERMIT ENABLEMENT OF THE RSEQ COMMAND ***

- 1) BOOT THE SYSTEM AS ONE NORMALLY WOULD.
- 2) IF THE EDITOR IS ENABLED, ENTER:

RUN "EDITOR",2400 <CR>

TO DISABLE IT.

- 3) ENTER:

RUN "RSEQ" <CR>

IF THE EDITOR OR ANY OTHER TRANSITORY UTILITY IS ENABLED, THE FOLLOWING MESSAGE WILL APPEAR ON THE SCREEN:

THE NULL COMMAND IS ALREADY DISABLED, CANNOT ENABLE THE RSEQ COMMAND.

OK

IF THIS HAPPENS, GOTO STEP 2 AND PROCEED FROM THERE.

- 4) TO ENABLE THE RSEQ COMMAND ENTER:

<CR>

THE MESSAGE:

THE RSEQ COMMAND IS NOW ENABLED. THE NULL COMMAND AND ARCTANGENT FUNCTION HAVE BEEN DISABLED.

OK

WILL APPEAR ON THE SCREEN

B) TO DISABLE THE RSEQ COMMAND ENTER:

D <CR>

THE FOLLOWING WILL APPEAR AT THE CONSOLE:

THE RSEQ COMMAND IS NOW DISABLED. THE NULL COMMAND AND THE ARCTANGENT FUNCTION HAVE BEEN RESTORED.

OK

RSEQ COMMAND SYNTAX:

THE POSSIBLE FORMS OF THE RSEQ COMMAND ARE SHOWN BELOW. THE FOLLOWING DEFINITIONS SHOULD BE EXAMINED CAREFULLY.

NLN - NEW LINE NUMBER

OLN - OLD I.E. EXISTING LINE NUMBER

INC - THE INCREMENT BETWEEN LINES

WHERE:

$0 = NLN < 64000$, $0 \leq OLN < 64000$, $0 < INC < 256$, AND $OLN \leq NLN$

NOTE: AFTER RESEQUENCING A PROGRAM, THE LINE NUMBER OF THE LAST LINE IN THE PROGRAM WILL BE PRINTED TO THE CONSOLE. IT WILL BE IN THE FORM OF:

LEFT BRACKET LINE NUMBER RIGHT BRACKET

RSEQ <CR>

RESEQUENCES THE ENTIRE PROGRAM STARTING WITH LINE NUMBER 10 USING AN INCREMENT BETWEEN LINES OF 10.

RSEQ NLN <CR>

SAME AS ABOVE EXCEPT STARTS PROGRAM WITH LINE NUMBER NLN.

RSEQ NLN,OLN <CR>

SAME AS ABOVE BUT DOES NOT RESEQUENCE THE ENTIRE PROGRAM. RATHER, IT RESEQUENCES THE PROGRAM FROM EXISTING LINE OLN AND UP. ALL REFERENCES WITHIN THE PROGRAM TO THE LINES RESEQUENCED WILL BE APPROPRIATELY CHANGED.

RSEQ NLN, OLN, INC <CR>

SAME AS ABOVE EXCEPT USES AN INCREMENT BETWEEN LINES OF INC.

RSEQ NLN,,INC <CR>

RESEQUENCES THE ENTIRE PROGRAM STARTING WITH LINE NUMBER NLN USING AN INCREMENT BETWEEN LINES OF INC.

RSEQ ,, INC. <CR>

RESEQUENCES THE ENTIRE PROGRAM STARTING WITH LINE NUMBER 10 USING AN INCREMENT BETWEEN LINES OF INC.

RSEQ COMMAND ERROR MESSAGES:

THE FOLLOWING ERROR MESSAGES ARE APPLICABLE TO THE RSEQ COMMAND

?OM ERROR IN XXXXX

BEFORE ACTUALLY RESEQUENCING THE BASIC PROGRAM, THE RSEQ COMMAND CODE VERIFIES THAT THERE WILL BE ENOUGH MEMORY TO CONTAIN THE PROGRAM AFTER IT IS RESEQUENCED. THE LENGTH OF THE PROGRAM MAY OR MAY NOT INCREASE DEPENDENT ON THE NEW VALUE OF THE LINE NUMBERS IN THE GOTO, THEN, GOSUB AND RUN STATEMENTS CONTAINED WITHIN THE PROGRAM. IF THE LINE NUMBERS ARE LONGER THEN THE PROGRAM IS ALSO INHERENTLY LONGER. XXXXX STANDS FOR THE LINE IN WHICH THE CALCULATED LENGTH OF THE PROGRAM EXCEEDED THE AMOUNT OF MEMORY AVAILABLE.

?OV ERROR IN XXXXX

BEFORE ACTUALLY RESEQUENCING THE BASIC PROGRAM, THE RSEQ COMMAND CODE VERIFIES THAT THERE EXISTS ENOUGH TABLE SPACE TO CONTAIN ALL OF THE BASIC PROGRAM'S ORIGINAL LINE NUMBERS. IF NOT, AN OV ERROR IS REPORTED ALONG WITH THE LINE (XXXXX) AT WHICH THE TABLE BECAME FULL.

?SN ERROR IN XXXXX

AN IMPROPERLY FORMATTED GOTO, THEN, GOSUB OR RUN STATEMENT WAS ENCOUNTERED IN LINE XXXXX. THIS ERROR WILL BE REPORTED IF A STATEMENT FOLLOWED BY A LINE NUMBER GREATER THAN 63999 WAS ENCOUNTERED IN THE PROGRAM.

?SN ERROR

THIS ERROR WILL BE REPORTED IF THE RSEQ COMMAND ENTERED IS NOT PROPERLY FORMATTED.

?FC ERROR IN XXXXX

A "FUNCTION CALL" ERROR WILL BE REPORTED IF A RSEQ COMMAND WOULD FORCE A LINE NUMBER TO EXCEED 63999. THE LINE THAT WOULD HAVE EXCEEDED 63999 IF RESEQUENCED IS ALSO GIVEN IN THE ERROR MESSAGE.

?FC ERROR

AN IMPROPER COMMAND WAS ENTERED. THE MOST COMMON BEING THE VALUE OF NLN BEING ENTERED AS LESS THAN THE VALUE OF OLN. THIS ERROR WILL ALSO OCCUR IF A LINE INCREMENT GREATER THAN 255 IS ENCOUNTERED IN A RSEQ COMMAND.

?US ERROR LINE XXXXX IN YYYYY

AN "UNDEFINED STATEMENT" ERROR WILL BE REPORTED IF A LINE NUMBER IN A GOTO, THEN, GOSUB OR RUN STATEMENT WAS FOUND NOT TO EXIST. LINE NUMBER XXXXX IS THE NON-EXISTENT LINE AND LINE NUMBER YYYYY IS THE LINE NUMBER IN WHICH THE ERROR OCCURRED. NOTE THAT THIS ERROR DOES NOT ABORT THE RESEQUENCE PROCESS.

WARNING:

ENABLEMENT/DISABLEMENT OF THE EDITOR OR RSEQ COMMAND ERASES ANY PROGRAM IN THE WORKSPACE. THE EDITOR AND RSEQ COMMANDS ARE INSERTED OR DELETED BY MEANS OF THE BASIC PROGRAMS "EDITOR" AND "RSEQ". THEREFORE, ANY PROGRAM YOU HAVE MUST BE SAVED BEFORE RUNNING "EDITOR" OR "RSEQ" OR IT WILL BE ERASED FROM THE WORKSPACE.

OS-DMS CORRECTIONS

MERGER - DMS NUCLEUS

CHANGE LINE 54020 FROM:

54020 D=PEEK(9832): IF D >127 THEN D=D-128PRINT 4

TO:

54020 D=PEEK(9832): IF D >127 THEN D=D-128 + 4

FIX TO PERMIT MERGER TO BE RUN FLOPPY TO HARD DISC AND VISA-VERSA

RE-ENTER LINE 575 AS LINE 576

RE-ENTER LINE 610 AS LINE 611

" " 920 " " 921

" " 12015 AS LINE 12016

ADD THESE LINES:

575 DEV DV\$ (K1)

610 DEV DV\$ (K8)

920 DEV DV\$ (K1)

12015 DEV DV\$ (K1)

CHANGE LINE 960 FROM:

960 INDEX<K8> = BODF (K8) + LR (K8)

TO:

960 DEV DV\$ (K8): INDEX<K8> = BODF (K8) + LR(K8)

ALSO CHANGE LINE 1060 FROM:

1060 FOR X=K2 TO NF + K1: INDEX<K8> = 0 + FP (X,K8)

TO:

1060 DEV DV\$ (K8): FOR X=K2 TO NF + K1: INDEX <K8> = 0 + FP (X,K8)

CHANGE LINE 50 FROM:

50 FLAG 9: FLAG 19: REM FLG 9 - 50000 FLG19 - DISABLE ERR CHK

TO:

50 FLAG 9: REM FLG 9 - 50000 CODE ENABLE

DBMFCR FIX - DMS NUCLEUS
FIX FOR CORRECT FILE INITIALIZATION

DELETE LINES 605 THRU 650

ADD THESE LINES

605 L (Ø)=Ø: INDEX <3> = OI:FORX=1 TO Z:L(X)=L(X)-2:NEXT

610 FOR I = 1 TO TN

620 FOR J=1 TO Z

630 INDEX <3> = OI + L (J)

640 PRINT %3, "Ø":OI=INDEX (3)

650 NEXT J