

IDENTIFICATION

PRODUCT CODE:	MA1NDEC-28-DRIVE-KB-E-0
PRODUCT NAME:	RK85 DRIVE CONTROL TEST
DATE CREATED:	JANUARY 15, 1975
MAINTAINER:	DIAGNOSTIC GROUP
AUTHOR:	JOHN VROBEL

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1. ABSTRACT

THE RK8E DRIVE CONTROL TEST IS DESIGNED FOR THE PURPOSE OF CHECKOUT OF THE RK8E DISK CONTROL LOGIC REQUIRING THE USE OF THE DISK DRIVE(S).

IN GENERAL, THE TEST IS AN INSTRUCTION TEST TO VERIFY BASIC OPERATION OF THE SEEK CYCLE, ERASING, WRITE DATA, READ DATA, WRITE ALL, AND READ ALL FUNCTIONS WITH ALL DRIVES ON THE CONTROL. OTHER FUNCTIONS DATA PATTERNS OF 2525 + 5252, 5227 - 2524, AND 1100 + 7777 ARE USED TO VERIFY ADDRESSING AND DATA TRANSFERS TO AND FROM EACH INDIVIDUAL DRIVE.

A MANUAL INTERVENTION TEST IS ALSO INCLUDED (PAGE SECTION 3.7), TO ALLOW THE OPERATOR TO SELECT DATA PATTERNS AND COMMAND FUNCTIONS VIA THE SWITCH REGISTER.

CONSIDERING NO ERROR CONDITIONS, THE DRIVES THAT HAVE RUN THIS TEST ARE FORMATTED, IF THIS PROGRAM HAS INTERRUPTED AT END OF PROGRAM PASS COMPLETION BY SWRESET.

2. REQUIREMENTS

2.1 HARDWARE

A. PDP-8/A, 8/E, 8/F, OR 8/M COMPUTER OR OTHER FAMILY OF COMPATIBLE COMPUTER WITH NECESSARY CARD BUS ADAPTER.

B. AT LEAST 4K OF READ/WRITE MEMORY

C. ASR-33 TELETYPE OR EQUIVALENT

D. RK8E DISK CONTROL

E. RK8B DISK DRIVE(S)

F. UNFORMATTED OR FORMATTED 32000 SECT-1680 SECTOR PACK(S)

2.2 STORAGE

THE PROGRAM OCCUPIES OR UTILIZES LOCATION 2000 TO LOCATION 7400 OF THE CURRENT FIELD. IF THE CURRENT FIELD IS AN EXTENDED MEMORY FIELD, LOCATIONS 2000 TO 8000 OF FIELD 0, WILL BE USED FOR PROGRAM INTERRUPT SERVICE.

3. PRELIMINARY PROGRAMS

ALL BASIC AND EXTENDED MEMORY DIAGNOSTICS AND THE RK8E DISKLESS CONTROL TEST SHOULD BE RUN PRIOR TO THIS TEST,

SWRESET

SWRESET IS A KEY, AND IT IS USED
TO REINITIALIZE THE SYSTEM. RAISING THIS
SWITCH WILL RESET THE SYSTEM. RAISING THIS
SWITCH WILL ALSO INHIBIT ALL CURRENT
TESTS. RAISING THIS SWITHC WILL NOT CANCEL
THE CURRENT TEST. RAISING THIS SWITHC WILL
NOT CANCEL ANY FUTURE TESTS.

OWNERED

OWNERED IS A KEY, AND IT IS USED TO
RAISE THIS KEY DURING CONSTRUCTION OF THE PROGRAM
TO LOG OUT THE CURRENT TEST IF THE TEST
IS WORKING CORRECTLY. MAYBE OWNERED
PROVIDES A SYSTEM SWITHC FOR INHIBITTING
TESTS.

SUPERSET

SUPERSET IS A KEY, AND IT IS USED TO
SCOPE LOG OUT THE CURRENT TEST. RAISING THIS
SWITHC SWITHCS THE SCOPE LOG OUT TEST.
BELL.

SHUTDOWN

SHUTDOWN IS A KEY, AND IT IS USED TO
RAISE THIS KEY DURING CONSTRUCTION OF THE PROGRAM
TO LOG OUT THE CURRENT TEST. RAISING THIS
SWITHC SWITHCS THE SCOPE LOG OUT TEST.
TEST THE BELL SWITHC IS SET UP SO THAT
RUNNING THE PROGRAM AND RAISING THIS
TESTING, RAISING THIS SWITHC INSTRUCTS
TO THE PROGRAM TO CONTINUE TO TEST THE
CURRENT ACTIVE FAILURE TEST.

SWRESET

SWRESET IS A KEY, AND IT IS USED TO
SWITHC SWITHCS THE SCOPE LOG OUT TEST.
UPON CONSTRUCTION OF THE TEST, RAISING THIS
TEST, IF POSSIBLE, THIS TEST SWITHCS
ALWAYS SET UP TO LOG OUT THE PROGRAM,

SUPERSET

INHIBIT THE RECOVERABLE TESTS WHILE AFTER
A RECOVERABLE ERROR TYPEOUT. AFTER AN
ERROR HALT AT LOCATION NUMBER 2, RAISING
THIS SWITHC AND PRESSING KEY CONTINUOUS
WILL INHIBIT ALL FUTURE RECOVERABLE ENHANCED
HALTS. IF SWITHC THE PROGRAM WILL PROCEED TO
NEXT TEST AFTER EACH ERROR TYPEOUT. IF SWITHC
THE PROGRAM WILL PROCEED BACK TO THE SAME
OR CURRENT FAILING TEST.

1.0. REFERENCES

ACTIONS

RECALIBRATE IN SCENE LOGONS, RAISING PLATE SWITCHEE TO RESULT OF A TEST RECORDATION WHEN THE SCENE LOGON IS REPORTED. POSITION OR WHEN SWITCHED.

SWITCHES

PROGRAM WAIT LOOP FOR DISK IN SCENE LOGON. RAISING POSITION SWITCHEE TO POSITION IN A PROGRAM WAIT FOR DISK. THIS IS USEFUL IN A SCENE LOGON WHICH IS SUSPENDED, POSITIONING, OR WHEN SWITCHED. IN SCENE LOGON, THIS IS USEFUL IF USEFUL FOR POSITIONING, AND FOR DRIVING MOVEMENT TO COMPLETE A POSITION. IF DRIVING ERRORS OCCUR, BEFORE REPOSITIONING THE TEST AGAIN IN SCENE LOGON. FAILURE TO WAIT MAY CAUSE ADDITIONAL ERRORS.

SWITCHES

GET ALL REGISTERS AFTER THE RECOGNIZABLE ERROR HALT OPERATION. INPUT AN ADDRESS WHICH AT LOCATION INREGISTERS. INDICATE THAT SWITCHEE AND PRESSED KEY CONTAIN THE REGISTER IN AN ERROR TYPEOUT OF THE ACTUAL CONTENTS OF THE REG. STATUS, COMMAND, LOAD DATA, AND SURFACE AND SECTOR REGISTERS.

SWITCHES

PROGRAM HALT OR STOP AT END OF PROGRAM PASS COMPLETION.

SKR16-11

DISK DRIVES; TO INDICATE IN MULTIDRIVE TESTING, INDICATES TO THE PROGRAM THE ACTUAL AMOUNT OF CONNECTED DRIVES AND THE AMOUNT OF DRIVES NUMBERED SEQUENTIALLY FROM ONE TO NINE. IN SINGLE DRIVE TESTING, FROM DATA LINE REPORT OF PROGRAM, AND IF SWITCHED, INDICATES TO THE PROGRAM THE DRIVE TO TEST.

11

PROGRAMMING AND OPERATING A COMPUTER

BY RICHARD L. HARRIS, JR., PH.D., AND ROBERT W. HARRIS

12

INTRODUCTION

BY ROBERT W. HARRIS

A COMPUTER IS A PROGRAMMED SYSTEM THAT CAN PERFORM A VARIETY OF COMPUTATIONAL AND LOGICAL FUNCTIONS. IT CAN BE USED TO SOLVE PROBLEMS, MANAGE INFORMATION, AND CONTROL OTHER COMPUTERS.

LOGIC PROGRAMMING IS THE PROCESS OF TELLING A COMPUTER WHAT TO DO. IT IS THE PRACTICE OF WRITING COMPUTER PROGRAMS IN A MANNER WHICH IS AS CLOSE AS POSSIBLE TO THE LANGUAGE OF THE COMPUTER.

PROGRAMMING LANGUAGE IS THE LANGUAGE WHICH IS USED TO TELL A COMPUTER WHAT TO DO. IT IS THE LANGUAGE WHICH IS USED TO TELL A COMPUTER WHAT TO DO.

COMPUTER PROGRAMMING LANGUAGE IS THE LANGUAGE WHICH IS USED TO TELL A COMPUTER WHAT TO DO. IT IS THE LANGUAGE WHICH IS USED TO TELL A COMPUTER WHAT TO DO.

SIMPLY PROGRAMMING LANGUAGE IS THE LANGUAGE WHICH IS USED TO TELL A COMPUTER WHAT TO DO.

FOR THE SIMPLE PROGRAMMING LANGUAGE, THE COMPUTER WILL FOLLOW THE INSTRUCTIONS WHICH ARE GIVEN IN THE PROGRAMMING LANGUAGE.

MULTI-FUNCTIONAL PROGRAMMING LANGUAGE IS THE LANGUAGE WHICH IS USED TO TELL A COMPUTER WHAT TO DO.

REAL PROGRAMMING LANGUAGE IS THE LANGUAGE WHICH IS USED TO TELL A COMPUTER WHAT TO DO.

THE PROGRAMMING LANGUAGE IS THE LANGUAGE WHICH IS USED TO TELL A COMPUTER WHAT TO DO.

5.2

5.2.2 DRIVE MOUNTING PROCEDURE FOR THE

~~THIS PROCEDURE IS TO BE USED ON DRIVES WHICH DO NOT HAVE A DRIVE CARTRIDGE MOUNTING MECHANISM. THIS PROCEDURE WILL BE CONTINUED AS ANOTHER SECTION IF IT IS NEEDED.~~

- a. SET SWITCH LABLED "PRONLLOAD" TO THE "OPEN" POSITION.
 - b. TURN AC POWER TO ALL DRIVES OFF.
 - c. VERIFY THAT LIGHTS INDICATING DRIVES ARE OFF.
 - d. WAIT FOR LIGHT LABELLED "PRONLLOAD" TO TURN ON.
 - e. VERIFY THAT LIGHTS LABELLED "PROT" AND "PROG" ARE ON.
 - f. OPEN ACCESS DOOR.
 - g. INSERT CARTRIDGE.
 - h. CLOSE ACCESS DOOR.
 - i. SET SWITCH LABLED "PRONLLOAD" TO THE "OPEN" POSITION.
 - j. WAIT FOR LIGHTS LABELLED "PROT" AND "PROG" TO TURN OFF.
 - k. TOGGLE SWITCH LABLED "PROT" ONCE AND AGAIN. VERIFY THAT LIGHTS LABELLED "PROT" GOES ON AND OFF.
 - l. TOGGLE SWITCH LABLED "PROT" ONCE ONLY. THE LIGHTS LABELLED "PROT" GOES OFF.
 - m. VERIFY THAT LIGHTS LABELLED "PROT" AND "PROG" ARE OFF.
- 5.3 DRIVE CONTROL TEST USING 1 DRIVE AT A TIME
- ~~THIS PROCEDURE IS TO BE USED ON DRIVES WHICH DO NOT HAVE A DRIVE CARTRIDGE MOUNTING MECHANISM. THIS PROCEDURE WILL BE CONTINUED AS ANOTHER SECTION IF IT IS NEEDED.~~
- a. MAKE READY THE DISK DRIVE TO BE TESTED USING THE DISK DRIVE CARTRIDGE MOUNTING PROCEDURE SECTION 5.2.
 - b. SET SWITCH LABLED "PRONLLOAD" TO THE "LOAD" POSITION ON ALL DRIVES NOT BEING TESTED.
 - c. VERIFY THAT AC POWER TO ALL DRIVES IS ON.

10.1.2 TESTS

- a. SET THE SYSTEM MODELS TO 03200 AND PROGRAM LANGUAGE ASSEMBLER.
 - b. SET THE SENDER REGISTER TO ZERO.
 - c. SET SWITCHES TO INDICATE SINGLE STEP TEST MODE.
 - d. SET SWITCHES TO THE DRIVE NUMBER TO BE TESTED AND CLEAR THE COMPUTER PROGRAMMING.
 - e. THE PROGRAM SHOULD PRINT THE FOLLOWING MESSAGE ON THE COMPLETION OF EACH TEST.
- "RUBB DRIVE CONTROL TEST PASS COMPLETE"
- f. ALWAYS USE SWATCH FOR STOPPING THE TEST.
 - g. IF IT IS DESIRED TO HAVE THE PROGRAM WAIT UP TO ONE OR TWO SECONDS BETWEEN TESTS, THIS IS THE TIME THAT THE SWATCH IS SET TO PROGRAM PASS NUMBER FOR THE SWATCH.
 - h. ANY WAITS OR DELAYS OTHER THAN THE RADS 100 MILISCALE TIMEOUT OR TWO SECONDS MENTIONED ABOVE WILL BE CONSIDERED AN ERROR CONDITION. IN ALL CASES A DETAILED REPORT SECTION IS IN THIS DOCUMENTATION.
 - i. FOR ABSOLUTE LOCATIONS OF ALL KINETIC DRIVES ACCESS PAGE 1 OF THE PROGRAM LISTING.

3.4 DRIVE CONTROL TEST (MULTIDRIVE TESTS)

- a. MAKE READY ALL DISK DRIVES NUMBERED SEQUENTIALLY FROM DRIVE 0 TO BE TESTED USING THE RADS DRIVE CARTRIDGE MOUNTING PROCEDURE SECTION 5.1.
- b. SET SWITCH LABELED "PUNALOG" TO THE "LOAD" POSITION ON ALL DISK DRIVES NOT BEING TESTED.

5.5.5 CONT'D.

- C. VERIFY THAT AC POWER TO ALL DRIVES IS ON.
- D. SET THE SWITCH REGISTER TO OFF AND RESET THE SW1000.
- E. SET THE SWITCH REGISTER TO ON.
- F. SET SW1000 TO THE AMOUNT OF CYCLES YOU WISH TO TEST SEQUENTIALLY EACH DISK IS TO BE TESTED AND START THE COMPUTER PROGRAM.

SW1000 = 1	1 DISK TEST
SW1000 = 2	2 DISK TEST
SW1000 = 3	3 DISK TEST

- G. TYPE PROGRAM SPECIFIC PRINT FOR INFORMATION WHICH IS THE COMPLETION OF EACH PASS.

MAKE DRIVE CONTROL TEST THIS COMPUTER

- H. ALWAYS USE SW1000 FOR STOPPING THE TEST.
- I. IF IT IS NEEDED TO HAVE THE PROGRAM WAIT AND STOP AT THE END OF PROGRAM PASS COMPLETION SET SW1000.
- J. ANY HALTS OR TYPEOUTS OTHER THAN THE END COMPLETION TYPEOUT AND THE END OF TEST HALT CONDITIONS ABOVE WILL BE CONSIDERED AN ERROR CONDITION. IN ALL CASES ACCESS "ERRORS" SECTION 6 IN THIS DOCUMENTATION.
- K. FOR ABSOLUTE LOCATIONS OF ALL KNOWN HALTS ACCURSE PAGE 2 OF THE PROGRAM LISTING.

5.5 CHECK WRITE PROTECT CIRCUIT

- A. RUN THE REGULAR DRIVE CONTROL TEST UTILIZING DRIVES ON THE CONTROL USING THE SINGLE OR MULT DRIVE TESTING METHODS, BEFORE RUNNING THIS "WRITE PROTECT" PROGRAM.
- B. MAKE READY A DRIVE TO TEST USING ONE DRIVES DRIVE CARTRIDGE MOUNTING PROCEDURE SECTION 5.2.
- C. SET SWITCH LABELED "RUN/LOAD" TO THE "LOAD" POSITION ON ALL OTHER DRIVES.
- D. VERIFY THAT AC POWER TO ALL DRIVES IS ON.
- E. VERIFY THAT THE LIGHT LABELED "TEST" IS POSITIVE ON THE CURRENT DRIVE UNDER TEST.

Journal of the American Statistical Association

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（原刊于《中国青年报》，略有改动。）

4. SET THE STUDENTS OUT TO WORK. TAKE THEM AND GET THEM TO DO WHAT THEY WANT TO DO. LET THE STUDENTS DO WHAT THEY WANT TO DO. LET THE STUDENTS DO WHAT THEY WANT TO DO.
 5. MAKE READY A LIST OF TESTS AND AS MANY DIFFERENT TESTS AS POSSIBLE FOR THE STUDENTS TO DO.
 6. SET THE STUDENTS OUT TO WORK ON THE TESTS.
 7. WATCH WHAT THE STUDENTS ARE DOING.
 8. WATCH WHAT THE STUDENTS ARE DOING. THE STUDENTS ARE DOING.
 9. SET THE STUDENTS OUT TO WORK AND GET THEM TO DO WHAT THEY WANT TO DO.
 10. SET THE STUDENTS OUT TO WORK AND GET THEM TO DO WHAT THEY WANT TO DO.

TEST SEQUENCES

1. PRESS START AND THE COMPUTER SHOULD HALT. THIS IS THE "PARITY TEST" AND A SUBSEQUENT TEST.
2. VERIFY THAT THE PARITY MODE IS SET TO NORMAL. THIS IS SET ON THE CURRENT DISK.
3. FOR ALL DISKS MAKE THE FOLLOWING CHECKS. THESE POINTS ARE NOT PROGRAMMABLE.
4. IF ANY DRIVES ARE PROGRAMMED TO USE A LOGIC TEST, RUN THE TEST AGAIN. PLEASE SEE SECTION 4.
5. FOR POSSIBLE CROK CYCLES WHICH OCCUR IN THIS SOFTWARE IMPLEMENTATION, (NOTE: NO SPECIFIC CYCLES ARE AVAILABLE FOR THIS TEST).
6. THE CHECK WRITE PROTECT PROCEDURE IS RECOMMENDED AND SHOULD BE RUN TWICE WITH ALL DISKS ON THE SYSTEM.

5.7 MANUAL FUNCTIONS FOR PROGRAMMING SECTION 5.1

THE MANUAL FUNCTIONS ENABLED THE OPERATOR TO SELECT FUNCTIONS, DISK ADDRESSES, AND DATA PATTERNS. IN THE SWITCH REGISTER, THIS IS THE PART OF THE PROGRAM TEST AND SHOULD ONLY BE USED FOR PROGRAM DEBUGGING IF DECODED.

1. SET THE SWITCH REGISTER TO ZERO, AND PRESS LOAD ADDRESS.
2. SET THE SWITCH REGISTER TO THE DESIRED FUNCTION TO BE LOADED INTO THE COMMAND REGISTER. (SET SECTION 5.1). NOTE: THE EXECUTE PATTERN MUST BE 00, THE ZEROWRITE INSTRUCTION BIT 3, AND THE ENABLE SET/RESET BIT ON SEEK CYCLE. BIT 0 AND 1 ARE NOT RECOGNIZED. THIS MANUAL POSITION IS ONLY FLAG ONE AND ALL DATA TRANSFERS ARE TO THE CURRENT FIELD.)
3. PRESS START AND THE COMPUTER SHOULD HALT.
4. SET THE SWITCH REGISTER TO THE DESIRED DISK ADDRESSES TO BE LOADED INTO THE CYLINDER, SURFACE, AND ECOTOP REGISTER. (SEE SECTION 5.1)
5. PRESS START AND THE COMPUTER SHOULD HALT.
6. SET THE SWITCH REGISTER TO THE COMPLEMENT TYPE DATA PATTERN TO BE WRITTEN OR READ FROM THE DISK DEPENDING ON THE FUNCTION PREVIOUSLY LOADED INTO THE COMMAND REGISTER. (CLOCK A SETTING OF FFFF WILL RESULT IN A COMPLEMENT DATA PATTERN OF FFFF > FFFF. A SETTING OF 0000 WILL RESULT IN A COMPLEMENT DATA PATTERN OF 0000 > 0000.)
7. PRESS START AND THE COMPUTER SHOULD HALT.

2000-01-02

REFERENCES AND NOTES

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10 / 10

www.mechanicskey.com

在當時，「中國人」一詞被廣泛地應用於中國人身上。

www.scholarone.com

所以，我們希望在這裏說明的是，這就是我們的意見。

DATA FILE

THIS SECTION DESCRIBES THE DATA FILES USED IN THE PROGRAM. THESE FILES ARE USED TO STORE THE INFORMATION INPUTTED BY THE USER AND TO STORE THE INFORMATION OUTPUTTED BY THE PROGRAM. THESE FILES ARE USED TO STORE THE INFORMATION INPUTTED BY THE USER AND TO STORE THE INFORMATION OUTPUTTED BY THE PROGRAM.

THE DATA FILES ARE LOCATED IN THE WORKING DIRECTORY OF THE COMPUTER SYSTEM.

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THE ABSOLUTE ADDRESS LOCATIONS OF THE DATA FILES CAN BE FOUND ON PAGE 1 OF THE PROGRAM LISTING.

4.2 UNRECOVERABLE ERROR HALTS

UNRECOVERABLE ERROR HALTS FOR WHICH THERE ARE NO
TYPEOUTS OR SCODE LOGOS ARE LISTED AND DEFINED AS FOLLOWS:

ERBLT8	UNDEFINED INTERRUPT
ERBLT9	SKIP TRAP FOR IOT ADDRESS
ERBLT3	SKIP TRAP FROM IOT ADDRESS
ERBLT4	SKIP TRAP FOR IOT ADDRESS
ERBLT5	SKIP TRAP FOR IOT ADDRESS
ERBLT6	SKIP TRAP FOR IOT ADDRESS
ERBLT7	SKIP TRAP FOR IOT ADDRESS
ERBLT77	SKIP TRAP TOC IOT NUMBER

4.3

RECOVERABLE ERROR HALT

ALL RECOVERABLE ERRORS, FOR WHICH THERE ARE SCODE LOGOS
AND ERROR TYPEOUTS, SHOULD RESULT IN AN ERROR HALT AND
LOCATION PRINTOUT.

ERBLTO RECOVERABLE ERROR HALT. READ INFORMATION
TYPEOUT ON IOT AND ACCESS PROGRAM
LISTING AND DOCUMENTATION.

4.4

ERROR TYPEOUTS

NOT PERTINENT TO THIS

WHEN A RECOVERABLE ERROR OCCURS THE PROGRAM WILL
PRINT AN "ERROR HEADER" LINES WHICH SPECIFY THE
PARTICULAR REGISTER OR TYPE OF ERROR FOUND
AT THE TIME OF THE FAILURE.

Possible "ERROR HEADERS" ARE AS FOLLOWS.

STATUS REGISTER ERROR
COMMAND REGISTER ERROR
DISK ADDRESS REGISTER ERROR
DISK DATA ERROR
DRO REGISTER ERROR
DATA REGISTER ERROR
DISK SEEK ERROR
DISK INTERRUPT ERROR

IF THE PROGRAM FAILS TO COMPLETE AS DESCRIBED ABOVE, IT MAY BE NECESSARY TO RELOAD THE DISK AND TRY AGAIN. IF THE FAILURE IS NOT A READ OR WRITE FAILURE, SET UP THE TEST FOR READ OR WRITE. POSSIBLE CAUSES ARE AS FOLLOWS:

000 PROPOSED LOCATION OF THE ACTUAL FAILURE.

- 001 ALTERS IN THE DATA EXPECTED IN THE REGISTER OR TYPE OF READ SPECIFIED IN THE READ COMMAND.
- 002 CONTENTS OF THE CRC REGISTER.
- 003 CONTENTS OF THE STATUS REGISTER.
- 004 CONTENTS OF THE LOWER DATA REGISTER.
- 005 CONTENTS OF THE UPPER DATA REGISTER.
- 006 CONTENTS OF THE HIGH ADDRESS REGISTER OR THE COMMAND, SURFACE, AND SECTOR REGISTERS.
- 007 CONTENTS OF THE INITIAL OUTPUT ADDRESS.
- 008 BREAK ADDRESS OF DATA BREAK IN COMMAND.
- 009 DATA FOUND DURING DATA BREAK.

THE "000" INFORMATION TYPED OUT POINTS TO THE DATA EXPECTED IN THE REGISTER OR TYPE OF READ TYPED OUT IN THE READ COMMAND.

THE ERROR INFORMATION INDICATOR SUGGESTED BY THE READ COMMAND HEADERS IS AS FOLLOWS: 001 FOR ADDRESS ERROR, 002 FOR COMMAND REGISTER ERROR, 003 FOR CRC REGISTER ERROR, 004, 005, 006, 007 AND 008 INDICATE THAT A PARTICULAR REGISTER HAS BEEN CHANGED HIGH ORDER THAN THAT SUGGESTED BY THE READ VALUE OR THE SOFTWARE VALUE LOADED INTO THAT REGISTER PRIOR TO THE FAILURE.

TO TYPE THE ACTUAL CONTENTS OF THE REGISTERS, SET SWREG AFTER AN ERROR HALT AT LOCATION #E81F00, AND PRESS KEY CONTINUE. THE CONTENTS OF THE CRC, STATUS, LOWER DATA, COMMAND, AND SURFACE AND SECTOR REGISTERS WILL THEN BE TYPED.

5.5

SCOPE LOOPS

~~REMOVED BY REQUEST~~

THERE ARE SCOPE LOOPS AVAILABLE FOR ALL ERRORS
ACCUMULATING IN AN ERROR HALT AT LOCATION "ERRHLT9".

TO ENTER SCOPE LOOP, INHIBIT ERROR TIMEOUT, AND INHIBIT
ERROR HALT, AFTER AN ERROR HALT AT "ERRHLT9", SET SWR8#1
TO INITIATE SCOPE LOOP AND PRESS KEY CONTINUE.

IF THE SCOPE LOOP IS WORKING CORRECTLY AND THE TEST
IS STILL FAILING, THE TTY BELL SHOULD RING INDICATING AN
ERROR, THEN SET SWR2#1 TO INHIBIT THE TTY ERROR BELL.

SWR1#1 MAY HAVE TO BE USED IN SCOPE LOOPS IN CONJUNCTION
WITH SWR2#1, IF THE CURRENT TEST IS WORKING INTERMITTENTLY.

5.6

TYPICAL ERROR TIMEOUTS

~~REMOVED BY REQUEST~~

THE FOLLOWING IS AN EXAMPLE OF AN "ERROR HEADER" AND
TIMEOUT THAT COULD HAVE OCCURRED IF THE DISK
SKIP IOT FAILED TO SKIP.

DISK SKIP ERROR

PC18267

THE FOLLOWING IS AN EXAMPLE OF AN "ERROR HEADER" AND
ERROR TIMEOUT THAT COULD HAVE OCCURRED ON A DATA BREAK
ERROR, (NOTE CRC IN THE STATUS INDICATOR "STS")

DISK DATA ERROR

PC11161 SD15252 ST14819 CM11820 DA18021 CA17002 AD17712 DT13222

THE FOLLOWING IS A TYPICAL ERROR THAT COULD HAVE OCCURRED
WHILE READING THE CRC REGISTER.

CRC REGISTER ERROR

PC12246 SD1116047 CR1116246 CM11002 DA17777

THE FOLLOWING IS AN EXAMPLE OF AN ERROR TIMEOUT THAT COULD
HAVE OCCURRED IF THE STATUS REGISTER FAILED, (NOTED IN
THIS CASE THE OPERATOR INDICATED TO THE PROGRAM TO TYPE
THE ACTUAL CONTENTS OF THE REGISTERS BY SETTING SWR8#1
AFTER THE ERROR HALT AT LOCATION "ERRHLT9" AND PRESSING
KEY CONTINUE).

STATUS REGISTER ERROR

PC11160 SU14000 ST12800 CM15002 DA10000

CR1000000 ST12000 DB10000 CM15002 DA10000

B. RESTRICTIONS

RECOMMENDATIONS

ALL DISK DRIVES SHOULD BE SET TO THE LOAD POSITION THAT ARE NOT BEING TESTED.

ALL ERRORS SHOULD BE CORRECTED BEFORE PROCEEDING ON IN THIS PROGRAM.

C. TROUBLE SHOOTING INFORMATION

RECOMMENDATIONS

AC10	FUNCTION
0000	NO FUNCTION

6741 DSKE "SKIP" SKIP IF TRANSFER DONE FLAG OR ERROR FLAG IS SET.

6742 DCIR "CLEAR" FUNCTION IS REGULATED BY AC BITS 10 AND 11. THE AC IS THEN CLEARED.

AC10	AC11
FFFF	FFFF

0000 0000 CLEAR THE AC AND STATUS REGISTER.

0000 1111 CLEAR THE AC, CONTROL, AND MAJOR REGISTERS. THIS INSTRUCTION WILL STOP THE CONTROL EVERY TIME IT IS WAITING A HEADER. THIS IS THE ONLY INSTRUCTION THAT CLEARS MAINTAINANCE MODE.

0000 0000 CLEAR AC, RECALIBRATE DISK DRIVE, AND CLEAR STATUS REGISTER.

6743 DLAG

"LOAD DISK ADDRESS AND GO" LOAD THE DISK CYLINDER, SURFACE, AND SECTOR FROM THE AC. CLEAR THE AC, AND NO THE COMMAND IN THE COMMAND REGISTER

AS. CONT'D)

AC

**

L=6

CYLINDER

3

SURFACE (1=UPPER) (0=LOWER)

B=12

SECTOR

6744 DLCA

"LOAD CURRENT ADDRESS" LOAD THE CURRENT ADDRESS FROM AC. THE AC IS THEN CLEARED.

AC

**

L=11

CURRENT ADDRESS

6745 DRST

"READ STATUS" CLEAR THE AC AND READ THE CONTENTS OF THE STATUS REGISTER INTO THE AC.

AC

**

1

TRANSFER DONE

2

READY TO SEEK, READ, OR WRITE.

3

NOT USED

4

SEEK FAIL

5

DISK FILE READY

6

CONTROL BUSY ERROR

7

TIME OUT ERROR

8

WRITER LOCK ERROR

9

CRC ERROR

10

DATA RATE ERROR

11

DRIVE STATUS ERROR

12

CYLINDER ADDRESS ERROR

6746 DLDC

"LOAD COMMAND" LOAD THE COMMAND REGISTER FROM AC, CLEAR THE AC, AND CLEAR THE STATUS REGISTER.

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9. PROGRAM DESCRIPTION

THE RK8E DRIVE CONTROL TEST VERIFIES BASIC FUNCTIONAL OPERATION OF THE RK8E CONTROL LOGIC WITH THE RK85 DISK DRIVE(S). THE PROGRAM IS COMPRISED OF MANY INDIVIDUAL SUBTESTS WHICH ARE AUTOMATICALLY RUN IN A SEQUENTIAL FLOW. ABOVE EACH SUBTEST IN THE LISTING, IS A BRIEF DESCRIPTION OF EACH SUBTEST.

WHEN SINGLE DRIVE TESTING, ONE PASS THROUGH ALL SUBTESTS (TSTP-TST45) RESULTS IN A PASS COMPLETION. WHEN MULTI-DRIVE TESTING, ONE PASS THROUGH ALL SUBTESTS (TST0-TST45) ON ALL DRIVES AND THE RUNNING OF THE OVERLAP SEEK TESTS (OVRLAN, OVRNCK, AND OVRRED) RESULTS IN A PASS COMPLETION.

CONSIDERING NO ERROR CONDITIONS, THE DRIVES THAT HAVE RUN THIS TEST ARE FORMATTED. IF THE PROGRAM WAS STOPPED AT END OF PROGRAM PASS COMPLETION BY SWR9=1.

10. PROGRAM LISTING

在這裏，我們可以說，我們的社會主義者，他們的社會主義，是屬於「社會主義」的範疇，而屬於「社會主義」的範疇，就是屬於「社會主義」的範疇。這就是說，他們的社會主義，是屬於「社會主義」的範疇，而屬於「社會主義」的範疇，就是屬於「社會主義」的範疇。

Category	Sub-Category	Description	Notes
1. General Information	1.1 Personal Data	Mr. John Doe, 35 years old, 180 cm, Brown hair, Blue eyes.	
1. General Information	1.2 Contact Details	Address: 123 Main Street, New York, NY 10001, USA Phone: +1 212 555-1234, Email: john.doe@example.com	
2. Health Status	2.1 Medical History	Hypertension, Type 2 Diabetes, Previous Cervical Spondylosis.	
2. Health Status	2.2 Current Medications	Aspirin, Metformin, Cetirizine, Celecoxib.	
3. Work & Environment	3.1 Job Description	Software Engineer at TechCorp, working on AI projects.	
3. Work & Environment	3.2 Work Hours	9 AM - 5 PM, Mon-Fri, occasional overtime.	
4. Family & Social Life	4.1 Family Structure	Married, 2 children (10 and 12 years old).	
4. Family & Social Life	4.2 Social Activities	Active member of local community center, attends weekly meetings.	
5. Financial Status	5.1 Income Sources	Salary from TechCorp, side hustle as a part-time tutor.	
5. Financial Status	5.2 Financial Goals	Save for retirement, buy a vacation home.	
6. Education & Training	6.1 Formal Education	Bachelor's degree in Computer Science, currently pursuing a Master's.	
6. Education & Training	6.2 Professional Development	Attended several industry conferences, completed multiple online courses.	
7. Hobbies & Interests	7.1 Physical Activities	Golf, Running, Weightlifting.	
7. Hobbies & Interests	7.2 Intellectual Activities	Reading, Programming, Learning new languages.	
8. Sleep & Rest	8.1 Sleep Patterns	7-8 hours per night, irregular schedule due to work.	
8. Sleep & Rest	8.2 Rest Habits	Relaxation techniques, occasional naps.	
9. Safety & Health	9.1 Safety Concerns	Workplace ergonomics, potential for eye strain from screen time.	
9. Safety & Health	9.2 Health Concerns	Chronic back pain, risk of developing heart disease.	

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 0490 5634 K5902, 52934
 0491 5635 K5903, 52935
 0492 5636 K5904, 52936
 0493 5637 K5905, 52937
 0494 5638 K5906, 52938
 0495 5639 K5907, 52939
 0496 5640 K5908, 52940
 0497 5641 K5909, 52941
 0498 5642 K5910, 52942
 0499 5643 K5911, 52943
 0500 5644 K5912, 52944
 0501 5645 K5913, 52945
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 0503 5647 K5915, 52947
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 0508 5652 K5920, 52952
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 0510 5654 K5922, 52954
 0511 5655 K5923, 52955
 0512 5656 K5924, 52956
 0513 5657 K5925, 52957
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 0517 5661 K5929, 52961
 0518 5662 K5930, 52962
 0519 5663 K5931, 52963
 0520 5664 K5932, 52964
 0521 5665 K5933, 52965
 0522 5666 K5934, 52966
 0523 5667 K5935, 52967
 0524 5668 K5936, 52968
 0525 5669 K5937, 52969
 0526 5670 K5938, 52970
 0527 5671 K5939, 52971
 0528 5672 K5940, 52972
 0529 5673 K5941, 52973
 0530 5674 K5942, 52974
 0531 5675 K5943, 52975
 0532 5676 K5944, 52976
 0533 5677 K5945, 52977
 0534 5678 K5946, 52978
 0535 5679 K5947, 52979
 0536 5680 K5948, 52980
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 0540 5684 K5952, 52984
 0541 5685 K5953, 52985
 0542 5686 K5954, 52986
 0543 5687 K5955, 52987
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 0546 5690 K5958, 52990
 0547 5691 K5959, 52991
 0548 5692 K5960, 52992
 0549 5693 K5961, 52993
 0550 5694 K5962, 52994
 0551 5695 K5963, 52995
 0552 5696 K5964, 52996
 0553 5697 K5965, 52997
 0554 5698 K5966, 52998
 0555 5699 K5967, 52999
 0556 5700 K5968, 53000
 0557 5701 K5969, 53001
 0558 5702 K5970, 53002
 0559 5703 K5971, 53003
 0560 5704 K5972, 53004
 0561 5705 K5973, 53005
 0562 5706 K5974, 53006
 0563 5707 K5975, 53007
 0564 5708 K5976, 53008
 0565 5709 K5977, 53009
 0566 5710 K5978, 53010
 0567 5711 K5979, 53011
 0568 5712 K5980, 53012
 0569 5713 K5981, 53013
 0570 5714 K5982, 53014
 0571 5715 K5983, 53015
 0572 5716 K5984, 53016
 0573 5717 K5985, 53017
 0574 5718 K5986, 53018
 0575 5719 K5987, 53019
 0576 5720 K5988, 53020
 0577 5721 K5989, 53021
 0578 5722 K5990, 53022
 0579 5723 K5991, 53023
 0580 5724 K5992, 53024
 0581 5725 K5993, 5


```

        /
        /VERIFY RESTORE CLEARS ADDRESS BITS.
        /
        /VERIFY A PRECALIBRATION FROM CYLINDER,
        /SURFACE, AND SECTOR 000000.
        /
        8415 8584 5877,    DEC      CMPS      /CLEAR EXTENDED BIT
        8416 7349          CLA, DLU, DRA
        8417 4423          STPX
        8420 8431          T7T
        8421 5226          JMP     T7F
        8422 4429          RECD;
        8423 0433          T7T
        8424 5226          LDI     T7E
        8425 4437          HERROR
        8426 4433          TPE,    ERROR
        8427 8413          T7T
        8432 5322          T7T,    5322
                                /SEER GRU
                                /11111 PRINTED
                                /SEURR, SEEK ONLY
                                /PRECALIBRATION
                                /TCXTR, POINTERS
                                /ERRR, SEEK OR STATUS
                                /D.L., TO NEXT TEST
                                /ERRR, STATUS
                                /SCOE, LOGIC POINTER
                                /TEXT POINTER

        /
        /FIND AND SELECT ALL ADDRESSES
        /
        /VERIFY A SEEK ONLY AND FIND ALL ADDRESSES
        /COMPARISON SEEK TEST, SEEK B, I, R, S, ETC,
        /CHECK TIMING AND NO ERRORS IN STATUS.
        /
        8431 3135          FSTB,    DEC      TONBL
        8432 3136          FSTB,    DEC      TONBL

```

100-0001-00100-8152-7128-758721

7
PEERS ONLY SEEKS TO BE WORKING, NOT TO
TAKE RANDOM ROCKS TO FACILITATE BREACH IN
THIS POLICY UNDER TELCO.

RETRIEVED TEST
FIND OUT WHAT ENCL A AND ENCL B DOES DURING
TESTS. THIS WILL TELL ALL AND READ ALL PROBLEMS.
TESTS SHOULD WRITE THE DETAILS ON AND
TESTS ARE TO PLACE ON THE TEST SECTOR BRANCH.

AMERICAN THAT SAID AND STATUS DEDUCTION AFTER
ACRE WHITE ALL WHO READ ALL SPEECHES;
OTHERS SHOULD WRITE ALL VERSES OF AND READ ALL
THEIR POEMS SEE THE 5 BY SISTER BURGESS.

1971-1972 - 1972-1973 - 1973-1974 - 1974-1975 - 1975-1976

1970-80: The following table summarizes the results of the study.

1945-1946 學年上學期各科成績

1941-1942, 1942-1943, 1943-1944, 1944-1945, 1945-1946,
1946-1947, 1947-1948, 1948-1949, 1949-1950, 1950-1951,
1951-1952, 1952-1953, 1953-1954, 1954-1955, 1955-1956,
1956-1957, 1957-1958, 1958-1959, 1959-1960, 1960-1961.

Sample	Time	Temperature	Rate	Angle (deg)
1	0.5 hr	25.0°	0.000	0.0
2	1.0 hr	25.0°	0.000	0.0
3	1.5 hr	25.0°	0.000	0.0

ANALYSIS OF THE DATA PATIENTS ARE AS FOLLOWS:
THE FIRST TWO GROUPS OF THE STUDY WERE
SEPARATELY CHECKED AND NO
ADVERSE REACTIONS.

**OVERVIEW THAT THE DATA IS SETTLED, SECURE
AND THAT IT IS READABLE AND USEFUL WITHIN A PRACTICAL TIME**

Year	Month	Day	Time	Location	Notes
1891	July	22	10:00 A.M.	MT. ST. HELENS	
1893	Aug.	10	10:00 A.M.	MT. ST. HELENS	ADDITIONAL OBSERVATION
1893	Aug.	11	10:00 A.M.	MT. ST. HELENS	ADDITIONAL OBSERVATION
1893	Aug.	12	10:00 A.M.	MT. ST. HELENS	ADDITIONAL OBSERVATION
1893	Aug.	13	10:00 A.M.	MT. ST. HELENS	ADDITIONAL OBSERVATION
1893	Aug.	14	10:00 A.M.	MT. ST. HELENS	ADDITIONAL OBSERVATION
1893	Aug.	15	10:00 A.M.	MT. ST. HELENS	ADDITIONAL OBSERVATION
1893	Aug.	16	10:00 A.M.	MT. ST. HELENS	ADDITIONAL OBSERVATION
1893	Aug.	17	10:00 A.M.	MT. ST. HELENS	ADDITIONAL OBSERVATION
1893	Aug.	18	10:00 A.M.	MT. ST. HELENS	ADDITIONAL OBSERVATION
1893	Aug.	19	10:00 A.M.	MT. ST. HELENS	ADDITIONAL OBSERVATION
1893	Aug.	20	10:00 A.M.	MT. ST. HELENS	ADDITIONAL OBSERVATION

387

1940 TRAINS & EQUIPMENT FOR THE DRAFT MARCH 1940
THE 1000 PERSONNEL OF THE 1000 AND 1000 PERSONNEL
IN 800 PERSONNEL, 800 PERSONNEL.

DATA FILE FOR THE 1980 CENSUS OF THE UNITED STATES

NAME	SEX	AGE	EDUCATION	RELATIONSHIP	INCOME
JOHN	M	45	12	HEAD OF HOUSEHOLD	\$10,000
JANE	F	40	12	WIFE	\$10,000
ROBERT	M	18	12	SON	\$5,000
SARAH	F	16	12	DAUGHTER	\$3,000
CHARLES	M	22	12	SON	\$6,000
ELIZABETH	F	20	12	DAUGHTER	\$4,000
FRANCIS	M	14	12	SON	\$3,000
ANNE	F	12	12	DAUGHTER	\$2,000
RONALD	M	10	12	SON	\$1,500
CHRISTINE	F	8	12	DAUGHTER	\$1,000
JOHN	M	45	12	HEAD OF HOUSEHOLD	\$10,000
JANE	F	40	12	WIFE	\$10,000
ROBERT	M	18	12	SON	\$5,000
SARAH	F	16	12	DAUGHTER	\$3,000
CHARLES	M	22	12	SON	\$6,000
ELIZABETH	F	20	12	DAUGHTER	\$4,000
FRANCIS	M	14	12	SON	\$3,000
ANNE	F	12	12	DAUGHTER	\$2,000
RONALD	M	10	12	SON	\$1,500
CHRISTINE	F	8	12	DAUGHTER	\$1,000

DATA FILE FOR THE 1980 CENSUS OF THE UNITED STATES

NAME	SEX	AGE	EDUCATION	RELATIONSHIP	INCOME
JOHN	M	45	12	HEAD OF HOUSEHOLD	\$10,000
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ROBERT	M	18	12	SON	\$5,000
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CHARLES	M	22	12	SON	\$6,000
ELIZABETH	F	20	12	DAUGHTER	\$4,000
FRANCIS	M	14	12	SON	\$3,000
ANNE	F	12	12	DAUGHTER	\$2,000
RONALD	M	10	12	SON	\$1,500
CHRISTINE	F	8	12	DAUGHTER	\$1,000
JOHN	M	45	12	HEAD OF HOUSEHOLD	\$10,000
JANE	F	40	12	WIFE	\$10,000
ROBERT	M	18	12	SON	\$5,000
SARAH	F	16	12	DAUGHTER	\$3,000
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ELIZABETH	F	20	12	DAUGHTER	\$4,000
FRANCIS	M	14	12	SON	\$3,000
ANNE	F	12	12	DAUGHTER	\$2,000
RONALD	M	10	12	SON	\$1,500
CHRISTINE	F	8	12	DAUGHTER	\$1,000

DATA FILE FOR THE 1980 CENSUS OF THE UNITED STATES

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JOHN	M	45	12	HEAD OF HOUSEHOLD	\$10,000
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SARAH	F	16	12	DAUGHTER	\$3,000
CHARLES	M	22	12	SON	\$6,000
ELIZABETH	F	20	12	DAUGHTER	\$4,000
FRANCIS	M	14	12	SON	\$3,000
ANNE	F	12	12	DAUGHTER	\$2,000
RONALD	M	10	12	SON	\$1,500
CHRISTINE	F	8	12	DAUGHTER	\$1,000
JOHN	M	45	12	HEAD OF HOUSEHOLD	\$10,000
JANE	F	40	12	WIFE	\$10,000
ROBERT	M	18	12	SON	\$5,000
SARAH	F	16	12	DAUGHTER	\$3,000
CHARLES	M	22	12	SON	\$6,000
ELIZABETH	F	20	12	DAUGHTER	\$4,000
FRANCIS	M	14	12	SON	\$3,000
ANNE	F	12	12	DAUGHTER	\$2,000
RONALD	M	10	12	SON	\$1,500
CHRISTINE	F	8	12	DAUGHTER	\$1,000

DATA FILE FOR THE 1980 CENSUS OF THE UNITED STATES

NAME	SEX	AGE	EDUCATION	RELATIONSHIP	INCOME
JOHN	M	45	12	HEAD OF HOUSEHOLD	\$10,000
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ROBERT	M	18	12	SON	\$5,000
SARAH	F	16	12	DAUGHTER	\$3,000
CHARLES	M	22	12	SON	\$6,000
ELIZABETH	F	20	12	DAUGHTER	\$4,000
FRANCIS	M	14	12	SON	\$3,000
ANNE	F	12	12	DAUGHTER	\$2,000
RONALD	M	10	12	SON	\$1,500
CHRISTINE	F	8	12	DAUGHTER	\$1,000
JOHN	M	45	12	HEAD OF HOUSEHOLD	\$10,000
JANE	F	40	12	WIFE	\$10,000
ROBERT	M	18	12	SON	\$5,000
SARAH	F	16	12	DAUGHTER	\$3,000
CHARLES	M	22	12	SON	\$6,000
ELIZABETH	F	20	12	DAUGHTER	\$4,000
FRANCIS	M	14	12	SON	\$3,000
ANNE	F	12	12	DAUGHTER	\$2,000
RONALD	M	10	12	SON	\$1,500
CHRISTINE	F	8	12	DAUGHTER	\$1,000

DATA FILE FOR THE 1980 CENSUS OF THE UNITED STATES

DATA FILE FOR THE 1980 CENSUS OF THE UNITED STATES

WHICH ADOPTING OMEGA-
ONE & DATA EPOCH SHOULD APPROPRIATELY BE LOCATED
WITHIN THE EPOCH WHICH MEETS ONE OF THE CRITERIA, AND
WHICH MEANS THAT ONE APPROXIMATE CYCLE IS
VANISHING.

READ ALL SECTORS OF THE DISK AND CHECK
THE STATUS. IF IT IS THE SECTOR 000-9748 WHICH CONTAINS THE DATA,
THE DATA ON THE COMPLETE DISK SHOULD BE 0225 X 5212.

4
JUN 1 1968
100738
PAGE
4
ZEBIC AND SPECTRUM GROUPS
GLEN COASTAL GROUP, INC., 1000 BROADWAY

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PAGE 1 PAGE 1 ADDRESS 74 PAGE 1 PAGE 1037

THE DATA ON THE COMPLETE DISK SHOULD BE 3295 + 3298
HOWEVER, THE TWO FIRST WORDS OF EVERY SECTOR
WILL BE THE ABSOLUTE DISK ADDRESS.

/
3295 7408 TACR, TAC 72888 LENGTH OF TIME FOR THIS LIST
3296 3141 DCA TOR160 GET AN ADDRESS FOR SEEK/READ
3297 4422 TACR, RAMAD SAVE IT
3298 3173 DCA TOR160 ALIGN TO EXTENDED
3299 7624 RAL ALIGN TO EXTENDED
3300 3142 DCA TOR160 SAVE IT
3301 3177 TACR, TAC TOR160 GET IN FORWARD
3302 3451 DCA RAMAD
3303 3177 TAC TOR160
3304 4423 DISH00 ADISK READ DATA
3305 380C TACR, TAC GET READER
3306 5276 LMS TACR ERROR SKIP OR STATUS
3307 1152 TAC K2525
3308 4427 FIGURE WORD BY WORD COMPARE ON DATA
3309 7624 RAL CLR DATA BLK.
3310 3276 LMS 740E DATA ERROR
3311 2141 LMS 1CH745 ALLOOP
3312 5255 LMS Y408 ALLOOP
3313 4437 NEBROR FOLK, TO NEXT FILE
3314 4442 TACR, ERROR ERROR READ
3315 3293 TACR, TACR, ERROR READS LOOP POINTUR
3316 3293 TACR, TACR, ERROR READ FOLINER
/
; RANDOM SEEK THEN WRITE, THEN SEEK THEN READ TEST
; THE DATA WRITTEN IS 3295 + 3292 AND THE TWO
; FIRST WORDS OF THE SECTOR ARE SET TO THE DISK ADDRESS.
;
3317 4110 TBT41, TAC K7082 PAGE COUNTER
3318 7141 DCA TOR160 GENERATE RANDOM NUMBER
3319 4422 T415, RAMAD
3320 4116 LNC K2517
3321 1477 TAC K7082
3322 1160 DCA RAMAD
3323 4422 RAMAD RANDOM SEEK/DISK ADDRESS
3324 3139 DCA TOR160
3325 7624 RAL ALIGN IS EXTENDED BIT
3326 3136 DCA TOR160
3327 4422 RAMAD RANDOM SEEK/WHITE DISK ADDRESS
3328 3137 DCA TOR160
3329 7624 RAL ALIGN IS EXTENDED BIT
3330 3142 DCA TOR160
3331 1112 T415, CAR K2525
3332 4422 TBLDR
3333 3142 TAC TOR160 FILE BUFFER
3334 1974 TAC DRIVND GET EXTENDED BIT
3335 3460 DCA 1 SHOT140
3336 3137 TAC TOR160 GET DRIVE NUMBER
3337 3465 DCA 1 SHOT140 DISK ADDRESS 4000 IN BUFFER
3338 3136 TAC TOR160 ANCHOR DISK ADDRESS
3339 3467 1 SHOT140 DISK ADDRESS 4000 IN BUFFER
3340 3178 TAC TOR160 GET EXTENDED BIT
3341 3142 DCA RAMAD SELECT ADDRESS
3342 3178 TAC TOR160 SELECT ADDRESS

```

PAGE 1 OF 4
 3411 3371 TABD BRIWNA
 3412 3382 DCD 1 MULTRK
 3413 3112 TABD FCTRKA
 3414 3383 DCD 1 RULTRK
 3415 4424 PEGAL
 3416 3385 TABD
 3417 3387 JRP TABE
 3422 3136 TABD TDTTRB
 3421 3163 TABD K1888
 3422 3151 DCD CHSEL
 3423 3388 TABD TDTTR1
 3424 4428 TABRGS
 3425 3391 TABD
 3421 3277 JRP TABE
 3422 3424 PEGAL
 3423 3451 TABD
 3424 3247 JRP TABE
 3425 3376 TABD TDTTR2
 3425 3351 DCD CHSEL
 3424 3335 TABD TDTTR1
 3425 4435 DISKGD
 3424 2401 TABD
 3425 3247 JRP TABE
 3446 5112 TABD 42323
 3424 2227 FIGURE
 3422 7612 SKP CLS
 3445 3267 JRP TABE
 3424 2341 TABD TDTTRB
 3425 3203 TABD
 3424 4437 TABRDR
 3422 4440 TABD
 3426 3407 TABD
 3421 3387 TABD
 /
 / SINGLE DRIVE VIBRATION TEST
 /
 / TRY TO CAUSE CYLINDER ADDRESS ERRORS BY
 / DOING A FEW RANDOM SEEKS THEN A READ DATA.
 /
 3424 1336 TABD TABDTP
 3425 3141 DCD FCTRKA
 3425 4431 TABRDR VILSDF
 3425 4126 RANRDO
 3424 6117 TABD X0237
 3422 1228 TABD X27127
 3422 3347 DCD *CXT14
 3424 1382 TABRDR RANRDO
 3422 3362 DCD TDTTR2
 3423 3174 PEGAL
 3425 3326 DCD TDTTRB
 3425 1326 TABD CHSEL
 3425 3151 DCD CHSEL
 3422 1357 TABD TDTTRB
 3422 4428 PEGAL
 3421 3382 TABD

Line	OpCode	OpType	OpData	OpResult	OpComment
4690	6101	LDI	0000	000000	INITIAL ADDRESS IN LOADER
4691	3401	LDI	0001	000001	COMMAND REGISTER
4692	1101	LDI	0002	000002	LOAD COMMAND
4693	1001	LDI	0003	000003	WRITE ADDRESS
4694	1002	LDI	0004	000004	READ ADDRESS
4695	7002	LDI	0005	000005	SETUP ADDRESS IN LOADER
4696	1102	LDI	0006	000006	DATA LENGTH
4697	3402	LDI	0007	000007	DATA LENGTH BUFFER
4698	1003	LDI	0008	000008	FILE DATA ADDRESS
4699	4403	LDI	0009	000009	FILE DATA
4700	4402	LDI	000A	00000A	FILE POINTER
4690	6103	LDI	000B	00000B	FILE NAME
4691	3403	LDI	000C	00000C	FILE NAME BUFFER
4692	1103	LDI	000D	00000D	FILE NAME ADDRESS
4693	1004	LDI	000E	00000E	FILE NAME
4694	1005	LDI	000F	00000F	FILE NAME
4695	7003	LDI	0010	000010	SETUP FILE NAME
4696	1104	LDI	0011	000011	FILE NAME
4697	3404	LDI	0012	000012	FILE NAME
4698	1006	LDI	0013	000013	FILE NAME
4699	4404	LDI	0014	000014	FILE NAME
4700	4405	LDI	0015	000015	FILE NAME
4690	6105	LDI	0016	000016	FILE NAME
4691	3405	LDI	0017	000017	FILE NAME
4692	1105	LDI	0018	000018	FILE NAME
4693	1007	LDI	0019	000019	FILE NAME
4694	1008	LDI	001A	00001A	FILE NAME
4695	7004	LDI	001B	00001B	SETUP FILE NAME
4696	1106	LDI	001C	00001C	FILE NAME
4697	3406	LDI	001D	00001D	FILE NAME
4698	1009	LDI	001E	00001E	FILE NAME
4699	4406	LDI	001F	00001F	FILE NAME
4700	4407	LDI	0020	000020	FILE NAME
4690	6106	LDI	0021	000021	FILE NAME
4691	3407	LDI	0022	000022	FILE NAME
4692	1107	LDI	0023	000023	FILE NAME
4693	100B	LDI	0024	000024	FILE NAME
4694	100C	LDI	0025	000025	FILE NAME
4695	7005	LDI	0026	000026	SETUP FILE NAME
4696	1108	LDI	0027	000027	FILE NAME
4697	3408	LDI	0028	000028	FILE NAME
4698	100D	LDI	0029	000029	FILE NAME
4699	4408	LDI	002A	00002A	FILE NAME
4700	4409	LDI	002B	00002B	FILE NAME
4690	6107	LDI	002C	00002C	FILE NAME
4691	3409	LDI	002D	00002D	FILE NAME
4692	1109	LDI	002E	00002E	FILE NAME
4693	100E	LDI	002F	00002F	FILE NAME
4694	100F	LDI	0030	000030	FILE NAME
4695	7006	LDI	0031	000031	SETUP FILE NAME
4696	110A	LDI	0032	000032	FILE NAME
4697	340A	LDI	0033	000033	FILE NAME
4698	100G	LDI	0034	000034	FILE NAME
4699	440A	LDI	0035	000035	FILE NAME
4700	440B	LDI	0036	000036	FILE NAME
4690	6108	LDI	0037	000037	FILE NAME
4691	340B	LDI	0038	000038	FILE NAME
4692	110B	LDI	0039	000039	FILE NAME
4693	100H	LDI	003A	00003A	FILE NAME
4694	100I	LDI	003B	00003B	FILE NAME
4695	7007	LDI	003C	00003C	SETUP FILE NAME
4696	110C	LDI	003D	00003D	FILE NAME
4697	340C	LDI	003E	00003E	FILE NAME
4698	100J	LDI	003F	00003F	FILE NAME
4699	440C	LDI	0040	000040	FILE NAME
4700	440D	LDI	0041	000041	FILE NAME
4690	6109	LDI	0042	000042	FILE NAME
4691	340D	LDI	0043	000043	FILE NAME
4692	110D	LDI	0044	000044	FILE NAME
4693	100K	LDI	0045	000045	FILE NAME
4694	100L	LDI	0046	000046	FILE NAME
4695	7008	LDI	0047	000047	SETUP FILE NAME
4696	110E	LDI	0048	000048	FILE NAME
4697	340E	LDI	0049	000049	FILE NAME
4698	100M	LDI	004A	00004A	FILE NAME
4699	440E	LDI	004B	00004B	FILE NAME
4700	440F	LDI	004C	00004C	FILE NAME
4690	610A	LDI	004D	00004D	FILE NAME
4691	340F	LDI	004E	00004E	FILE NAME
4692	110F	LDI	004F	00004F	FILE NAME
4693	100P	LDI	0050	000050	FILE NAME
4694	100Q	LDI	0051	000051	FILE NAME
4695	7009	LDI	0052	000052	SETUP FILE NAME
4696	110R	LDI	0053	000053	FILE NAME
4697	340R	LDI	0054	000054	FILE NAME
4698	100S	LDI	0055	000055	FILE NAME
4699	440R	LDI	0056	000056	FILE NAME
4700	440S	LDI	0057	000057	FILE NAME
4690	610B	LDI	0058	000058	FILE NAME
4691	340S	LDI	0059	000059	FILE NAME
4692	110B	LDI	005A	00005A	FILE NAME
4693	100T	LDI	005B	00005B	FILE NAME
4694	100U	LDI	005C	00005C	FILE NAME
4695	700A	LDI	005D	00005D	SETUP FILE NAME
4696	110V	LDI	005E	00005E	FILE NAME
4697	340V	LDI	005F	00005F	FILE NAME
4698	100W	LDI	0060	000060	FILE NAME
4699	440V	LDI	0061	000061	FILE NAME
4700	440W	LDI	0062	000062	FILE NAME
4690	610C	LDI	0063	000063	FILE NAME
4691	340W	LDI	0064	000064	FILE NAME
4692	110C	LDI	0065	000065	FILE NAME
4693	100X	LDI	0066	000066	FILE NAME
4694	100Y	LDI	0067	000067	FILE NAME
4695	700B	LDI	0068	000068	SETUP FILE NAME
4696	110Z	LDI	0069	000069	FILE NAME
4697	340Z	LDI	006A	00006A	FILE NAME
4698	100Z	LDI	006B	00006B	FILE NAME
4699	440Z	LDI	006C	00006C	FILE NAME
4700	440Z	LDI	006D	00006D	FILE NAME
4690	610D	LDI	006E	00006E	FILE NAME
4691	340D	LDI	006F	00006F	FILE NAME
4692	110D	LDI	0070	000070	FILE NAME
4693	100Z	LDI	0071	000071	FILE NAME
4694	100Z	LDI	0072	000072	FILE NAME
4695	700C	LDI	0073	000073	SETUP FILE NAME
4696	110Z	LDI	0074	000074	FILE NAME
4697	340Z	LDI	0075	000075	FILE NAME
4698	100Z	LDI	0076	000076	FILE NAME
4699	440Z	LDI	0077	000077	FILE NAME
4700	440Z	LDI	0078	000078	FILE NAME
4690	610E	LDI	0079	000079	FILE NAME
4691	340E	LDI	007A	00007A	FILE NAME
4692	110E	LDI	007B	00007B	FILE NAME
4693	100Z	LDI	007C	00007C	FILE NAME
4694	100Z	LDI	007D	00007D	FILE NAME
4695	700D	LDI	007E	00007E	SETUP FILE NAME
4696	110Z	LDI	007F	00007F	FILE NAME
4697	340Z	LDI	0080	000080	FILE NAME
4698	100Z	LDI	0081	000081	FILE NAME
4699	440Z	LDI	0082	000082	FILE NAME
4700	440Z	LDI	0083	000083	FILE NAME
4690	610F	LDI	0084	000084	FILE NAME
4691	340F	LDI	0085	000085	FILE NAME
4692	110F	LDI	0086	000086	FILE NAME
4693	100Z	LDI	0087	000087	FILE NAME
4694	100Z	LDI	0088	000088	FILE NAME
4695	700E	LDI	0089	000089	SETUP FILE NAME
4696	110Z	LDI	008A	00008A	FILE NAME
4697	340Z	LDI	008B	00008B	FILE NAME
4698	100Z	LDI	008C	00008C	FILE NAME
4699	440Z	LDI	008D	00008D	FILE NAME
4700	440Z	LDI	008E	00008E	FILE NAME
4690	610G	LDI	008F	00008F	FILE NAME
4691	340G	LDI	0090	000090	FILE NAME
4692	110G	LDI	0091	000091	FILE NAME
4693	100Z	LDI	0092	000092	FILE NAME
4694	100Z	LDI	0093	000093	FILE NAME
4695	700F	LDI	0094	000094	SETUP FILE NAME
4696	110Z	LDI	0095	000095	FILE NAME
4697	340Z	LDI	0096	000096	FILE NAME
4698	100Z	LDI	0097	000097	FILE NAME
4699	440Z	LDI	0098	000098	FILE NAME
4700	440Z	LDI	0099	000099	FILE NAME
4690	610H	LDI	009A	00009A	FILE NAME
4691	340H	LDI	009B	00009B	FILE NAME
4692	110H	LDI	009C	00009C	FILE NAME
4693	100Z	LDI	009D	00009D	FILE NAME
4694	100Z	LDI	009E	00009E	FILE NAME
4695	700G	LDI	009F	00009F	SETUP FILE NAME
4696	110Z	LDI	00A0	0000A0	FILE NAME
4697	340Z	LDI	00A1	0000A1	FILE NAME
4698	100Z	LDI	00A2	0000A2	FILE NAME
4699	440Z	LDI	00A3	0000A3	FILE NAME
4700	440Z	LDI	00A4	0000A4	FILE NAME
4690	610I	LDI	00A5	0000A5	FILE NAME
4691	340I	LDI	00A6	0000A6	FILE NAME
4692	110I	LDI	00A7	0000A7	FILE NAME
4693	100Z	LDI	00A8	0000A8	FILE NAME
4694	100Z	LDI	00A9	0000A9	FILE NAME
4695	700H	LDI	00AA	0000AA	SETUP FILE NAME
4696	110Z	LDI	00AB	0000AB	FILE NAME
4697	340Z	LDI	00AC	0000AC	FILE NAME
4698	100Z	LDI	00AD	0000AD	FILE NAME
4699	440Z	LDI	00AE	0000AE	FILE NAME
4700	440Z	LDI	00AF	0000AF	FILE NAME
4690	610J	LDI	00B0	0000B0	FILE NAME
4691	340J	LDI	00B1	0000B1	FILE NAME
4692	110J	LDI	00B2	0000B2	FILE NAME
4693	100Z	LDI	00B3	0000B3	FILE NAME
4694	100Z	LDI	00B4	0000B4	FILE NAME
4695	700I	LDI	00B5	0000B5	SETUP FILE NAME
4696	110Z	LDI	00B6	0000B6	FILE NAME
4697	340Z	LDI	00B7	0000B7	FILE NAME
4698	100Z	LDI	00B8	0000B8	FILE NAME
4699	440Z	LDI	00B9	0000B9	FILE NAME
4700	440Z	LDI	00BA	0000BA	FILE NAME
4690	610K	LDI	00B0	0000B0	FILE NAME
4691	340K	LDI	00B1	0000B1	FILE NAME
4692	110K	LDI	00B2	0000B2	FILE NAME
4693	100Z	LDI	00B3	0000B3	FILE NAME
4694	100Z	LDI	00B4	0000B4	FILE NAME
4695	700J	LDI	00B5	0000B5	SETUP FILE NAME
4696	110Z	LDI	00B6	0000B6	FILE NAME
4697	340Z	LDI	00B7	0000B7	FILE NAME
4698	100Z	LDI	00B8	0000B8	FILE NAME
4699	440Z	LDI	00B9	0000B9	FILE NAME
4700	440Z	LDI	00BA	0000BA	FILE NAME
4690	610L	LDI	00B0	0000B0	FILE NAME
4691	340L	LDI	00B1	0000B1	FILE NAME

LINE	NAME	LOCATION	TYPE	PAGE	FILED
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5156	5156	1005	SPAN	100	1974-10-14
5157	5157	1006	SPAN	100	1974-10-14
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5160	5160	1009	SPAN	100	1974-10-14
5161	5161	1010	SPAN	100	1974-10-14
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5333	5333	1182	SPAN	100	1974-10-14
5334	5334	1183	SPAN	100	1974-10-14
5335	5				

For example, if $\alpha = 0.05$, then $\beta = 0.05$ and $\gamma = 0.05$.

卷	行	文	卷	行	文
卷一	行一	文一	卷二	行一	文二
卷一	行二	文三	卷二	行二	文四
卷一	行三	文五	卷二	行三	文六
卷一	行四	文七	卷二	行四	文八
卷一	行五	文九	卷二	行五	文十
卷一	行六	文十一	卷二	行六	文十二
卷一	行七	文十三	卷二	行七	文十四
卷一	行八	文十五	卷二	行八	文十六
卷一	行九	文十七	卷二	行九	文十八
卷一	行十	文十九	卷二	行十	文二十
卷一	行十一	文二十一	卷二	行十一	文二十二
卷一	行十二	文二十三	卷二	行十二	文二十四
卷一	行十三	文二十五	卷二	行十三	文二十六
卷一	行十四	文二十七	卷二	行十四	文二十八
卷一	行十五	文二十九	卷二	行十五	文三十
卷一	行十六	文三十一	卷二	行十六	文三十二
卷一	行十七	文三十三	卷二	行十七	文三十四
卷一	行十八	文三十五	卷二	行十八	文三十六
卷一	行十九	文三十七	卷二	行十九	文三十八
卷一	行二十	文三十九	卷二	行二十	文四十
卷一	行二十一	文四十一	卷二	行二十一	文四十二
卷一	行二十二	文四十三	卷二	行二十二	文四十四
卷一	行二十三	文四十五	卷二	行二十三	文四十六
卷一	行二十四	文四十七	卷二	行二十四	文四十八
卷一	行二十五	文四十九	卷二	行二十五	文五十
卷一	行二十六	文五十一	卷二	行二十六	文五十二
卷一	行二十七	文五十三	卷二	行二十七	文五十四
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卷一	行二十九	文五十七	卷二	行二十九	文五十八
卷一	行三十	文五十九	卷二	行三十	文六十
卷一	行三十一	文六十一	卷二	行三十一	文六十二
卷一	行三十二	文六十三	卷二	行三十二	文六十四
卷一	行三十三	文六十五	卷二	行三十三	文六十六
卷一	行三十四	文六十七	卷二	行三十四	文六十八
卷一	行三十五	文六十九	卷二	行三十五	文七十
卷一	行三十六	文七十一	卷二	行三十六	文七十二
卷一	行三十七	文七十三	卷二	行三十七	文七十四
卷一	行三十八	文七十五	卷二	行三十八	文七十六
卷一	行三十九	文七十七	卷二	行三十九	文七十八
卷一	行四十	文七十九	卷二	行四十	文八十
卷一	行四十一	文八十一	卷二	行四十一	文八十二
卷一	行四十二	文八十三	卷二	行四十二	文八十四
卷一	行四十三	文八十五	卷二	行四十三	文八十六
卷一	行四十四	文八十七	卷二	行四十四	文八十八
卷一	行四十五	文八十九	卷二	行四十五	文八十
卷一	行四十六	文二十	卷二	行四十六	文八十二
卷一	行四十七	文二十一	卷二	行四十七	文二十二
卷一	行四十八	文二十三	卷二	行四十八	文二十四
卷一	行四十九	文二十五	卷二	行四十九	文二十六
卷一	行五十	文二十七	卷二	行五十	文二十八
卷一	行五十一	文二十九	卷二	行五十一	文三十
卷一	行五十二	文三十	卷二	行五十二	文三十一
卷一	行五十三	文三十一	卷二	行五十三	文三十二
卷一	行五十四	文三十三	卷二	行五十四	文三十四
卷一	行五十五	文三十五	卷二	行五十五	文三十六
卷一	行五十六	文三十七	卷二	行五十六	文三十八
卷一	行五十七	文三十九	卷二	行五十七	文四十
卷一	行五十八	文四十	卷二	行五十八	文四十一
卷一	行五十九	文四十一	卷二	行五十九	文四十二
卷一	行六十	文四十三	卷二	行六十	文四十四
卷一	行六十一	文四十五	卷二	行六十一	文四十六
卷一	行六十二	文四十七	卷二	行六十二	文四十八
卷一	行六十三	文四十九	卷二	行六十三	文五十
卷一	行六十四	文五十	卷二	行六十四	文五十一
卷一	行六十五	文五十一	卷二	行六十五	文五十二
卷一	行六十六	文五十三	卷二	行六十六	文五十四
卷一	行六十七	文五十五	卷二	行六十七	文五十六
卷一	行六十八	文五十七	卷二	行六十八	文五十八
卷一	行六十九	文五十九	卷二	行六十九	文六十
卷一	行七十	文六十	卷二	行七十	文六十一
卷一	行七十一	文六十一	卷二	行七十一	文六十二
卷一	行七十二	文六十三	卷二	行七十二	文六十四
卷一	行七十三	文六十五	卷二	行七十三	文六十六
卷一	行七十四	文六十七	卷二	行七十四	文六十八
卷一	行七十五	文六十九	卷二	行七十五	文七十
卷一	行七十六	文七十	卷二	行七十六	文七十一
卷一	行七十七	文七十一	卷二	行七十七	文七十二
卷一	行七十八	文七十三	卷二	行七十八	文七十四
卷一	行七十九	文七十五	卷二	行七十九	文七十六
卷一	行八十	文七十七	卷二	行八十	文七十八
卷一	行八十一	文七十九	卷二	行八十一	文八十
卷一	行八十二	文八十	卷二	行八十二	文八十一
卷一	行八十三	文八十一	卷二	行八十三	文八十二
卷一	行八十四	文八十三	卷二	行八十四	文八十四
卷一	行八十五	文八十五	卷二	行八十五	文八十六
卷一	行八十六	文八十七	卷二	行八十六	文八十八
卷一	行八十七	文八十九	卷二	行八十七	文二十
卷一	行八十八	文二十	卷二	行八十八	文二十一
卷一	行八十九	文二十三	卷二	行八十九	文二十四
卷一	行九十	文二十五	卷二	行九十	文二十六
卷一	行九十一	文二十七	卷二	行九十一	文二十八
卷一	行九十二	文二十九	卷二	行九十二	文二十九
卷一	行九十三	文三十	卷二	行九十三	文三十
卷一	行九十四	文三十一	卷二	行九十四	文三十二
卷一	行九十五	文三十三	卷二	行九十五	文三十四
卷一	行九十六	文三十五	卷二	行九十六	文三十六
卷一	行九十七	文三十七	卷二	行九十七	文三十八
卷一	行九十八	文三十九	卷二	行九十八	文三十九
卷一	行九十九	文四十	卷二	行九十九	文四十
卷一	行一百	文四十一	卷二	行一百	文四十二

APPENDIX 19. THE 1988 EDITION OF THE
T-1 CARRIER SYSTEMS IN USE.

2-134-2052-1-0010-74 8-49 0000E 1-60

Journal of Nonlinear Science, Vol. 20, No. 4, pp. 455-484, April 2010
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5727	4461	ITRE 11	6	
5732	7814	LCS		CODE 54170-8
5733	4511	AND	05417	MASK
5734	4511	SUB	05417	ADS IT SET ALL REGISTERS
5735	707	JMP	0541A	END RC EXEC
5736	5741	INT	0541A	INSEG, INHIBIT, INFLYER
5737	5727	LSR	0541C	READ 3 OF 4
5738	5727	ROSTAT		READ LOWER BUFFER
5739	4461	LDUP		
5740	4461	STCL		
5741	731	SCDUP		
5742	6451	TLA DLL C19, R10		SET ON TO 8 FOR BREAK
5743	7332	TLA DLL C19, R10		ENABLE CODE TO LOWER BUFFER
5744	4458	DEAN		BREAK IF PASS BREAK HAS A TEAM
5745	4470	SDRC		READ ONE
5746	4416	SDACD		READ THREE
5747	4448	SDRCD		READ FOURTH
5748	6462	SRU		
5749	731	TLA DLL C19		ENABLE CLEAR CONTROL
5750	4463	TRAIL		CLEAR CONTROL
5751	4463	TPB	0545A	
5752	5727	MR 1 RTYPE		FLX1

REPORTER'S LOG: SUBJECTS CONTACTED ON AS, ANSWERS AND QUESTIONS

LINE	CODE	COMMAND	DATA	RESULT	COMMENT
5617	5701	RD 1	0000	0000	ARMED TO EXIT
	/				
5624	5813				
	/				
		COMMAND TO READ OR WRITE ON DISK			
		DISK ADDRESS OR DATA OR STATUS ERROR			
		DATA LENGTH			
	/				
5637	5711				
		DISK	SAVING		ABOVE THREE ARE 152
5641	5824	DISK CL.	0000		
5642	5714	DISK	0000		RESET DISK ADDRESS
5643	5824	DISK	0000		RESET DISK REGISTER
5644	5824	DISK	0000		RESET DISK
5645	5714	DISK	0000		RESET DISK
5646	5824	DISK	0000		RESET DISK
5647	5714	DISK	0000		RESET DISK
5648	5824	DISK	0000		RESET DISK
5649	5714	DISK	0000		RESET DISK
5650	5824	DISK	0000		RESET DISK
5651	5714	DISK	0000		RESET DISK
5652	5824	DISK	0000		RESET DISK
5653	5714	DISK	0000		RESET DISK
5654	5824	DISK	0000		RESET DISK
5655	5714	DISK	0000		RESET DISK
5656	5824	DISK	0000		RESET DISK
5657	5714	DISK	0000		RESET DISK
5658	5824	DISK	0000		RESET DISK
5659	5714	DISK	0000		RESET DISK
5660	5824	DISK	0000		RESET DISK
5661	5714	DISK	0000		RESET DISK
5662	5824	DISK	0000		RESET DISK
5663	5714	DISK	0000		RESET DISK
5664	5824	DISK	0000		RESET DISK
5665	5714	DISK	0000		RESET DISK
5666	5824	DISK	0000		RESET DISK
5667	5714	DISK	0000		RESET DISK
5668	5824	DISK	0000		RESET DISK
5669	5714	DISK	0000		RESET DISK
5670	5824	DISK	0000		RESET DISK
5671	5714	DISK	0000		RESET DISK
5672	5824	DISK	0000		RESET DISK
5673	5714	DISK	0000		RESET DISK
5674	5824	DISK	0000		RESET DISK
5675	5714	DISK	0000		RESET DISK
5676	5824	DISK	0000		RESET DISK
5677	5714	DISK	0000		RESET DISK
5678	5824	DISK	0000		RESET DISK
5679	5714	DISK	0000		RESET DISK
5680	5824	DISK	0000		RESET DISK
5681	5714	DISK	0000		RESET DISK
5682	5824	DISK	0000		RESET DISK
5683	5714	DISK	0000		RESET DISK
5684	5824	DISK	0000		RESET DISK
5685	5714	DISK	0000		RESET DISK
5686	5824	DISK	0000		RESET DISK
5687	5714	DISK	0000		RESET DISK
5688	5824	DISK	0000		RESET DISK
5689	5714	DISK	0000		RESET DISK
5690	5824	DISK	0000		RESET DISK
5691	5714	DISK	0000		RESET DISK
5692	5824	DISK	0000		RESET DISK
5693	5714	DISK	0000		RESET DISK
5694	5824	DISK	0000		RESET DISK
5695	5714	DISK	0000		RESET DISK
5696	5824	DISK	0000		RESET DISK
5697	5714	DISK	0000		RESET DISK
5698	5824	DISK	0000		RESET DISK
5699	5714	DISK	0000		RESET DISK
5700	5824	DISK	0000		RESET DISK
5701	5824	DISK	0000		RESET DISK
	/				
5754	5701	SAYTICK	0		
5755	5701	57501	57511		

PC	VAL	REG	DATA	REG	DATA
5616	1100		00000000		
5617	1101		00000000		
5618	1102		00000000		
5619	1103		00000000		
5620	1104		00000000		
5621	1105		00000000		
5622	1106		00000000		
5623	1107		00000000		
5624	1108		00000000		
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5627	1111		00000000		
5628	1112		00000000		
5629	1113		00000000		
5630	1114		00000000		
5631	1115		00000000		
5632	1116		00000000		
5633	1117		00000000		
5634	1118		00000000		
5635	1119		00000000		
5636	111A		00000000		
5637	111B		00000000		
5638	111C		00000000		
5639	111D		00000000		
5640	111E		00000000		
5641	111F		00000000		
5642	1120		00000000		
5643	1121		00000000		
5644	1122		00000000		
5645	1123		00000000		
5646	1124		00000000		
5647	1125		00000000		
5648	1126		00000000		
5649	1127		00000000		
5650	1128		00000000		
5651	1129		00000000		
5652	112A		00000000		
5653	112B		00000000		
5654	112C		00000000		
5655	112D		00000000		
5656	112E		00000000		
5657	112F		00000000		
5658	1130		00000000		
5659	1131		00000000		
5660	1132		00000000		
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5662	1134		00000000		
5663	1135		00000000		
5664	1136		00000000		
5665	1137		00000000		
5666	1138		00000000		
5667	1139		00000000		
5668	113A		00000000		
5669	113B		00000000		
5670	113C		00000000		
5671	113D		00000000		
5672	113E		00000000		
5673	113F		00000000		
5674	1140		00000000		
5675	1141		00000000		
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5680	1146		00000000		
5681	1147		00000000		
5682	1148		00000000		
5683	1149		00000000		
5684	114A		00000000		
5685	114B		00000000		
5686	114C		00000000		
5687	114D		00000000		
5688	114E		00000000		
5689	114F		00000000		
5690	1150		00000000		
5691	1151		00000000		
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5693	1153		00000000		
5694	1154		00000000		
5695	1155		00000000		
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5697	1157		00000000		
5698	1158		00000000		
5699	1159		00000000		
5700	115A		00000000		
5701	115B		00000000		
5702	115C		00000000		
5703	115D		00000000		
5704	115E		00000000		
5705	115F		00000000		
5706	1160		00000000		
5707	1161		00000000		
5708	1162		00000000		
5709	1163		00000000		
5710	1164		00000000		
5711	1165		00000000		
5712	1166		00000000		
5713	1167		00000000		
5714	1168		00000000		
5715	1169		00000000		
5716	116A		00000000		
5717	116B		00000000		
5718	116C		00000000		
5719	116D		00000000		
5720	116E		00000000		
5721	116F		00000000		
5722	1170		00000000		
5723	1171		00000000		
5724	1172		00000000		
5725	1173		00000000		
5726	1174		00000000		
5727	1175		00000000		
5728	1176		00000000		
5729	1177		00000000		
5730	1178		00000000		
5731	1179		00000000		
5732	117A		00000000		
5733	117B		00000000		
5734	117C		00000000		
5735	117D		00000000		
5736	117E		00000000		
5737	117F		00000000		
5738	1180		00000000		
5739	1181		00000000		
5740	1182		00000000		
5741	1183		00000000		
5742	1184		00000000		
5743	1185		00000000		
5744	1186		00000000		
5745	1187		00000000		
5746	1188		00000000		
5747	1189		00000000		
5748	118A		00000000		
5749	118B		00000000		
5750	118C		00000000		
5751	118D		00000000		
5752	118E		00000000		
5753	118F		00000000		
5754	1190		00000000		
5755	1191		00000000		
5756	1192		00000000		
5757	1193		00000000		
5758	1194		00000000		
5759	1195		00000000		
5760	1196		00000000		
5761	1197		00000000		
5762	1198		00000000		
5763	1199		00000000		
5764	119A		00000000		
5765	119B		00000000		
5766	119C		00000000		
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5769	119F		00000000		
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5772	11A2		00000000		
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5779	11A9		00000000		
5780	11AA		00000000		
5781	11AB		00000000		
5782	11AC		00000000		
5783	11AD		00000000		
5784	11AE		00000000		
5785	11AF		00000000		
5786	11B0		00000000		
5787	11B1		00000000		
5788	11B2		00000000		
5789	11B3		00000000		
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5791	11B5		00000000		
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5795	11B9		00000000		
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5798	11BC		00000000		
5799	11BD		00000000		
5800	11BE		00000000		
5801	11BF		00000000		
5802	11C0		00000000		
5803	11C1		00000000		
5804	11C2		00000000		
5805	11C3		00000000		
5806	11C4		00000000		
5807	11C5		00000000		
5808	11C6		00000000		
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5810	11C8		00000000		
5811	11C9		00000000		
5812	11CA		00000000		
5813	11CB		00000000		
5814	11CC		00000000		
5815	11CD		00000000		
5816	11CE		00000000		
5817	11CF		00000000		
5818	11D0		00000000		
5819	11D1		00000000		
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5821	11D3		00000000		
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5825	11D7		00000000		
5826	11D8		00000000		
5827	11D9		00000000		
5828	11DA		00000000		
5829	11DB		00000000		
5830	11DC		00000000		
5831	11DD		00000000		
5832	11DE		00000000		
5833	11DF		00000000		
5834	11E0		00000000		
5835	11E1		00000000		
5836	11E2		00000000		
5837	11E3		00000000		
5838	11E4		00000000		
5839	11E5		00000000		
5840	11E6		00000000		
5841	11E7		00000000		
5842	11E8		00000000		
5843	11E9		00000000		
5844	11EA		00000000		
5845	11EB		00000000		
5846	11EC		00000000		
5847	11ED		00000000		
5848	11EE		00000000		
5849	11EF		00000000		
5850	11F0		00000000		
5851	11F1		00000000		
5852	11F2		00000000		
5853	11F3		00000000		
5854	11F4		00000000		
5855	11F5		00000000</td		

NAME	TYPE	NUMBER	DESCRIPTION	UNIT	QTY	PRICE	AMOUNT
5740	22	1					
5740	22	2					
5740	22	3					
5740	22	4					
5740	22	5					
5740	22	6					
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5740	22	235					
5740	22	236					
5							

卷之三

