

HARDWARE TRAINING CLASS

MARK 2T DISCUTILITY

VERSION 2.2

SAMPLE DIALOGS

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SAMPLE DIALOGS WITH THE
MARK 2T DISCUTILITY STANDALONE

THE MARK 2T REQUIRES THE USE OF ITS OWN DISCUTILITY TO USE THE DISC, FLOPPY, AND STREAMER TAPE PERIPHERIALS TO FORMAT, RESTORE, COPY, AND VERIFY.

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CONTENTS

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| | | |
|-----|--|--------|
| 1. | TITLE AND CONTENTS | PAGE 2 |
| 2. | DISCUTILITY OPTION FLAG WORD (PRESCAN DISABLE INFO) | 3 |
| 3. | DISCUTILITY PROGRAM INDEX | 4 |
| 4. | <F>ORMAT PROGRAM | 5 |
| 5. | <C>OPY PROGRAM |13 |
| 6. | <S>AVE PROGRAM |14 |
| 7. | <R>ESTORE PROGRAM |15 |
| 8. | <V>ERIFY |17 |
| 9. | <T>ENSION TAPE PROGRAM |19 |
| 10. | <I>PL FROM DISC |20 |

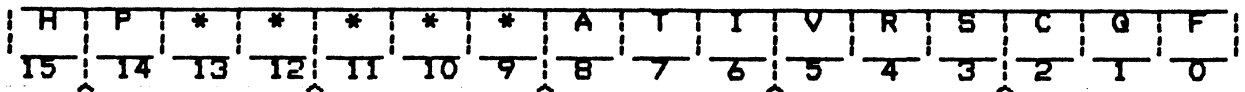
NOTE : DISCUTILITY FOR THE MARK 3 IS UNDERGOING CONSTANT CHANGE. CHECK WITH POINT 4 FOR LATEST VERSION AND OPERATING INSTRUCTIONS.

POINT 4 MARK 2T
DISCUTILITY OPTION
FLAG WORD

NOTE : DISABLE PRESCAN BY SETTING BIT 14 OF THE OPTION FLAG WORD TO ONE. (LOC. 200 = 40000)

```
*****
200      0 OPTNF: 0      ; PROGRAM OPTION FLAG. MUST STAY @ 200 !!
201      0          0      ; 201 IS RESERVED
*****
```

OPTION FLAG WORD DEFINITION



WHERE:

- H - BIT 15 = BAD TRACK ENTRY OPTION.
- P - BIT 14 = PRESCAN DISC PRIOR TO FORMAT.
- A - BIT 8 = STREAMER TAPE VERIFY.
- T - BIT 7 = STREAMER TAPE RETENSION.
- I - BIT 6 = IPL IRIS SYSTEM DISC.
- V - BIT 5 = VERIFY DISC COPY.
- R - BIT 4 = RESTORE DISC
- S - BIT 3 = SAVE DISC
- C - BIT 2 = COPY DISC TO DISC.
- Q - BIT 1 = FORMAT DISC IN 2 PASSES.
- F - BIT 0 = FORMAT DISC IN 5 PASSES.

* - RESERVED

OPTIONS ARE DISABLED BY SETTING THE APPROPRIATE BITS TO 1.

EXAMPLES:

```
SETTING LOC 200 = 100022 DISABLES H, R & Q.
                 = 000023 DISABLES R, Q & F.
```

OPTIONS THAT ARE DISABLED WILL NOT APPEAR IN THE PROGRAM HELP MENU.

DISCUTILITY
PROGRAM DIRECTORY

H

MARK 2T DISC UTILITIES

VERSION 2.2 JUNE 11, 1984

- - - - N O T I C E - - - -

ALL NUMBERS ARE IN OCTAL.

TYPE 'H' FOR HELP ANYTIME.

PROGRAM NAME: H

| PROGRAM | PURPOSE |
|-------------------|---|
| <F>ORMAT | - FORMAT AND ANALYZE SURFACES IN 5 PASSES |
| <Q>UICK FORMAT | - FORMAT AND ANALYZE SURFACES IN 2 PASSES |
| <C>OPY | - COPY SOURCE DISC TO DESTINATION |
| <S>AVE DISC | - DISC BACKUP, SAVE DATA ON TAPE OR DISC |
| <R>ESTORE DISC | - RESTORE DISC FROM BACKUP TAPE OR DISC |
| <V>ERIFY COPY | - VERIFY COPIED DATA AGAINST SOURCE |
| <I>PL | - IPL SYSTEM DISC |
| <T>APE | - RETENSION TAPE |
| <STR>EAMER VERIFY | - VERIFY DISC AGAINST TAPE |

DISCUTILITY
FORMAT PROGRAM

PROGRAM NAME: F

TYPE OF DRIVE: H

ST506 WINCHESTER DRIVES

| CODE | MNEMONIC | TYPE | CAPACITY | CYL'S | HEADS | SECT'S | MODEL |
|------|----------|------|----------|-------|-------|--------|-------|
| 1 | ATI20 | WIN | 20MB | 1206 | 3 | 20 | 3020 |
| 2 | ATI46 | WIN | 46MB | 1206 | 7 | 20 | 3046 |
| 3 | CMI19 | WIN | 19MB | 462 | 6 | 20 | 5619 |
| 4 | CMI12 | WIN | 12MB | 462 | 4 | 20 | 5412 |

5 1/4'' FLOPPY DISKETTE DRIVES

| CODE | MNEMONIC | TYPE | CAPACITY | CYL'S | HEADS | SECT'S | MODEL |
|------|----------|--------|----------|-------|-------|--------|-------|
| 12 | F52D | FLOPPY | 1MB | 115 | 2 | 20 | |

TYPE OF DRIVE: 2

DRIVE NUMBER: H

0 THRU 3 FOR DISC

NO DEFAULTS ALLOWED !!

DRIVE NUMBER: 0

DISCUTILITY
FORMAT cont.

SURFACE(S): H

'ALL' FOR ALL SURFACES

SURFACE(S): ALL

WHEN DRIVE IS READY, HIT RETURN TO START

READING ALTERNATE SECTOR INFORMATION

FORMATTING

CURRENT CYLINDER =40
CURRENT CYLINDER =100
CURRENT CYLINDER =140
CURRENT CYLINDER =200
CURRENT CYLINDER =240
CURRENT CYLINDER =300
CURRENT CYLINDER =340
CURRENT CYLINDER =400
CURRENT CYLINDER =440
CURRENT CYLINDER =500
CURRENT CYLINDER =540
CURRENT CYLINDER =600
CURRENT CYLINDER =640
CURRENT CYLINDER =700
CURRENT CYLINDER =740
CURRENT CYLINDER =1000
CURRENT CYLINDER =1040
CURRENT CYLINDER =1100
CURRENT CYLINDER =1140
CURRENT CYLINDER =1200
CURRENT CYLINDER =1205

FORMAT DONE

DISCUTILITY

FORMAT cont.

SURFACE ANALYSIS

WRITING

CURRENT CYLINDER =40
CURRENT CYLINDER =100

CURRENT CYLINDER =140
CURRENT CYLINDER =200
CURRENT CYLINDER =240
CURRENT CYLINDER =300
CURRENT CYLINDER =340
CURRENT CYLINDER =400
CURRENT CYLINDER =440
CURRENT CYLINDER =500
CURRENT CYLINDER =540
CURRENT CYLINDER =600
CURRENT CYLINDER =640
CURRENT CYLINDER =700
CURRENT CYLINDER =740
CURRENT CYLINDER =1000
CURRENT CYLINDER =1040
CURRENT CYLINDER =1100
CURRENT CYLINDER =1140
CURRENT CYLINDER =1200
CURRENT CYLINDER =1205

READING

CURRENT CYLINDER =40
CURRENT CYLINDER =100
CURRENT CYLINDER =140
CURRENT CYLINDER =200
CURRENT CYLINDER =240
CURRENT CYLINDER =300
CURRENT CYLINDER =340
CURRENT CYLINDER =400
CURRENT CYLINDER =440
CURRENT CYLINDER =500
CURRENT CYLINDER =540
CURRENT CYLINDER =600
CURRENT CYLINDER =640
CURRENT CYLINDER =700
CURRENT CYLINDER =740
CURRENT CYLINDER =1000
CURRENT CYLINDER =1040
CURRENT CYLINDER =1100
CURRENT CYLINDER =1140
CURRENT CYLINDER =1200
CURRENT CYLINDER =1205

DISCUTILITY

FORMAT cont.

WRITING

CURRENT CYLINDER =40
CURRENT CYLINDER =100
CURRENT CYLINDER =140
CURRENT CYLINDER =200
CURRENT CYLINDER =240
CURRENT CYLINDER =300
CURRENT CYLINDER =340
CURRENT CYLINDER =400
CURRENT CYLINDER =440
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CURRENT CYLINDER =540
CURRENT CYLINDER =600
CURRENT CYLINDER =640
CURRENT CYLINDER =700
CURRENT CYLINDER =740
CURRENT CYLINDER =1000

CURRENT CYLINDER =1040
CURRENT CYLINDER =1100
CURRENT CYLINDER =1140
CURRENT CYLINDER =1200
CURRENT CYLINDER =1205

READING

CURRENT CYLINDER =40
CURRENT CYLINDER =100
CURRENT CYLINDER =140
CURRENT CYLINDER =200
CURRENT CYLINDER =240
CURRENT CYLINDER =300
CURRENT CYLINDER =340
CURRENT CYLINDER =400
CURRENT CYLINDER =440
CURRENT CYLINDER =500
CURRENT CYLINDER =540
CURRENT CYLINDER =600
CURRENT CYLINDER =640
CURRENT CYLINDER =700
CURRENT CYLINDER =740
CURRENT CYLINDER =1000
CURRENT CYLINDER =1040
CURRENT CYLINDER =1100
CURRENT CYLINDER =1140
CURRENT CYLINDER =1200
CURRENT CYLINDER =1205

PAGE 8

DONE PASS 2

DISCUTILITY

FORMAT cont.

WRITING

CURRENT CYLINDER =40
CURRENT CYLINDER =100
CURRENT CYLINDER =140
CURRENT CYLINDER =200
CURRENT CYLINDER =240
CURRENT CYLINDER =300
CURRENT CYLINDER =340
CURRENT CYLINDER =400
CURRENT CYLINDER =440
CURRENT CYLINDER =500
CURRENT CYLINDER =540
CURRENT CYLINDER =600
CURRENT CYLINDER =640
CURRENT CYLINDER =700
CURRENT CYLINDER =740
CURRENT CYLINDER =1000
CURRENT CYLINDER =1040
CURRENT CYLINDER =1100
CURRENT CYLINDER =1140
CURRENT CYLINDER =1200
CURRENT CYLINDER =1205

READING

CURRENT CYLINDER =40
CURRENT CYLINDER =100
CURRENT CYLINDER =140
CURRENT CYLINDER =200
CURRENT CYLINDER =240
CURRENT CYLINDER =300

CURRENT CYLINDER =340
CURRENT CYLINDER =400
CURRENT CYLINDER =440
CURRENT CYLINDER =500
CURRENT CYLINDER =540
CURRENT CYLINDER =600
CURRENT CYLINDER =640
CURRENT CYLINDER =700
CURRENT CYLINDER =740
CURRENT CYLINDER =1000
CURRENT CYLINDER =1040
CURRENT CYLINDER =1100
CURRENT CYLINDER =1140
CURRENT CYLINDER =1200
CURRENT CYLINDER =1205

PAGE 9

DONE PASS 3

DISCUTILITY

FORMAT cont.

WRITING

CURRENT CYLINDER =40
CURRENT CYLINDER =100
CURRENT CYLINDER =140
CURRENT CYLINDER =200
CURRENT CYLINDER =240
CURRENT CYLINDER =300
CURRENT CYLINDER =340
CURRENT CYLINDER =400
CURRENT CYLINDER =440
CURRENT CYLINDER =500
CURRENT CYLINDER =540
CURRENT CYLINDER =600
CURRENT CYLINDER =640
CURRENT CYLINDER =700
CURRENT CYLINDER =740
CURRENT CYLINDER =1000
CURRENT CYLINDER =1040
CURRENT CYLINDER =1100
CURRENT CYLINDER =1140
CURRENT CYLINDER =1200
CURRENT CYLINDER =1205

READING

CURRENT CYLINDER =40
CURRENT CYLINDER =100
CURRENT CYLINDER =140
CURRENT CYLINDER =200
CURRENT CYLINDER =240
CURRENT CYLINDER =300
CURRENT CYLINDER =340
CURRENT CYLINDER =400
CURRENT CYLINDER =440
CURRENT CYLINDER =500
CURRENT CYLINDER =540
CURRENT CYLINDER =600
CURRENT CYLINDER =640
CURRENT CYLINDER =700
CURRENT CYLINDER =740
CURRENT CYLINDER =1000
CURRENT CYLINDER =1040
CURRENT CYLINDER =1100
CURRENT CYLINDER =1140
CURRENT CYLINDER =1200

CURRENT CYLINDER =1205

PAGE 10

DONE PASS 4

DISCUTILITY

FORMAT cont.

WRITING

CURRENT CYLINDER =40
CURRENT CYLINDER =100
CURRENT CYLINDER =140
CURRENT CYLINDER =200
CURRENT CYLINDER =240
CURRENT CYLINDER =300
CURRENT CYLINDER =340
CURRENT CYLINDER =400
CURRENT CYLINDER =440
CURRENT CYLINDER =500
CURRENT CYLINDER =540
CURRENT CYLINDER =600
CURRENT CYLINDER =640
CURRENT CYLINDER =700
CURRENT CYLINDER =740
CURRENT CYLINDER =1000
CURRENT CYLINDER =1040
CURRENT CYLINDER =1100
CURRENT CYLINDER =1140
CURRENT CYLINDER =1200
CURRENT CYLINDER =1205

READING

CURRENT CYLINDER =40
CURRENT CYLINDER =100
CURRENT CYLINDER =140
CURRENT CYLINDER =200
CURRENT CYLINDER =240
CURRENT CYLINDER =300
CURRENT CYLINDER =340
CURRENT CYLINDER =400
CURRENT CYLINDER =440
CURRENT CYLINDER =500
CURRENT CYLINDER =540
CURRENT CYLINDER =600
CURRENT CYLINDER =640
CURRENT CYLINDER =700
CURRENT CYLINDER =740
CURRENT CYLINDER =1000
CURRENT CYLINDER =1040
CURRENT CYLINDER =1100
CURRENT CYLINDER =1140
CURRENT CYLINDER =1200
CURRENT CYLINDER =1205

DONE PASS 5

PAGE 11

ANALYSIS DONE

DISCUTILITY

FORMAT cont.

THIS OPTION ALLOWS MARGINAL OR KNOWN BAD TRACKS TO BE RE-ASSIGNED.

ERROR LOG PRINTOUT & INSERTION IN DECIMAL ? (Y OR CR, CR INDICATES OCTAL) Y

TOTAL DISC ERRORS: HARD = 0 SOFT = 0

RULES FOR ENTERING BAD SPOTS.

ENTER SURFACE TRACK AND SECTOR FOR EVERY BAD AREA.

***** NOTE: SECTOR NUMBERS ENTERED ARE PHYSICAL RATHER THAN LOGICAL.

DO YOU WISH TO INPUT SECTOR INFO AS A BYTE OFFSET ? (N= INPUT AS SECTOR #):

TYPE 'Y' TO ENTER BAD TRACKS OR RETURN.Y

SURFACE 1

TRACK 700

WHAT?

TRACK 600

SECTOR 10

OK TO LOG ? Y

SURFACE

TOTAL DISC ERRORS: HARD = 1 SOFT = 0

PHYSICAL LOGICAL

| COUNT | SURFACE | TRACK | SECTOR | SECTOR | DRIVE |
|-------|---------|-------|--------|--------|-------|
|-------|---------|-------|--------|--------|-------|

| | | | | | |
|--------|---|-----|----|---|---|
| HARD 1 | 1 | 600 | 10 | 9 | 0 |
|--------|---|-----|----|---|---|

PROGRAM NAME:

DISCUTILITY
COPY PROGRAM

PROGRAM NAME: C
SOURCE DRIVE -
TYPE: 2
NUMBER: 0
SURFACE(S): H
'ALL' FOR ALL SURFACES
'OPT,ALL' FOR SELECTIVE CYLINDER(S) ALL SURFACES

SURFACE(S): H
'ALL' FOR ALL SURFACES
'OPT,ALL' FOR SELECTIVE CYLINDER(S) ALL SURFACES

SURFACE(S): ALL

TO THE SAME DRIVE? H
WHAT? Y
SURFACE(S): ALL

WHEN DRIVE IS READY, HIT RETURN TO START

PROGRAM NAME:

DISCUTILITY
SAVE PROGRAM

PROGRAM NAME: S

SAVE TO TAPE OR DISC (T/D) ? H

WHAT?

SAVE TO TAPE OR DISC (T/D) ? T

SOURCE DRIVE -

TYPE: 2

NUMBER: 0

SURFACE(S): H

'ALL' FOR ALL SURFACES

'OPT,ALL' FOR SELECTIVE CYLINDER(S) ALL SURFACES

SURFACE(S): ALL

KEY IN CREATION DATE MM-DD-YY 09-10-84

DESCRIPTOR: SAMPLE DIALOG

WHEN BOTH DISC AND TAPE UNITS ARE READY, HIT RETURN TO START

TAPE IS WRITE PROTECTED OR NO TAPE. HIT 'C' WHEN READY TO CONTINUE

PROGRAM NAME:

DISCUTILITY
RESTORE PROGRAM

PROGRAM NAME: R

RESTORE FROM TAPE OR DISC (T/D) ? T

DESTINATION DRIVE -

TYPE: 2

NUMBER: 0

SURFACE(S): H

'ALL' FOR ALL SURFACES

'OPT,ALL' FOR SELECTIVE CYLINDER(S) ALL SURFACES

SURFACE(S): ALL

IF VALIDATION OF DESCRIPTION AND DATE IS NOT DESIRED ENTER A '!'

KEY IN CREATION DATE MM-DD-YY 09-10-84

DESCRIPTOR: SAMPLE DIALOG

WHEN BOTH DISC AND TAPE UNITS ARE READY, HIT RETURN TO START

STREAMING FROM TAPE

TRANSFER COMPLETE

TOTAL DISC ERRORS: HARD = 0 SOFT = 0

NO TAPE ERROR

VERIFY TAPE AGAINST DISC ?H

PROGRAM NAME:

DISCUTILITY
RESTORE cont.

TO CONTINUE THIS OPERATION USING YOUR INPUT, ENTER A '!' (EXCLAMATION POINT)

STREAMING FROM TAPE

TRANSFER COMPLETE

TOTAL DISC ERRORS: HARD = 0 SOFT = 0

NO TAPE ERROR

VERIFY TAPE AGAINST DISC ?Y

TAPE BEING PROCESSED CONTAINS FOLLOWING LBL:

VOLUME SEQUENCE #: 1

CREATION DATE 09-04-84

DESCRIPTOR:POINT4

CHECKSUMMING TAPE

CHECKSUMS= 64205 44014 116037

RECORD COUNT= 24100

CHECKSUMMING DISC

CHECKSUMS= 64205 44014 116037

RECORD COUNT= 24100

GOOD VERIFY - RECORD CHECKSUMS FOR FUTURE REFERENCE

PROGRAM NAME:

DISCUTILITY
VERIFY PROGRAM

J2

MARK 2T DISC UTILITIES
VERSION 2.2 JUNE 11, 1984

- - - - N O T I C E - - - -

ALL NUMBERS ARE IN OCTAL.
TYPE 'H' FOR HELP ANYTIME.

PROGRAM NAME: V

SOURCE DRIVE -

TYPE: 2

NUMBER: 0

SURFACE(S): ALL

TO THE SAME DRIVE? H

WHAT? Y

SURFACE(S): H

'ALL' FOR ALL SURFACES

'OPT,ALL' FOR SELECTIVE CYLINDER(S) ALL SURFACES

SURFACE(S): ALL

WHAT? ALL

WHEN DRIVE IS READY, HIT RETURN TO START

DISCUTILITY
VERIFY cont.

VERIFYING DESTINATION DISC DATA

DATA COMPARE ERROR

CYL 0 HEAD 6 SECT 0

DATA COMPARE ERROR

CYL 1 HEAD 6 SECT 0

DATA COMPARE ERROR

CYL 2 HEAD 6 SECT 0

DATA COMPARE ERROR

CYL 3 HEAD 6 SECT 0

DATA COMPARE ERROR

CYL 4 HEAD 6 SECT 0

STOP AT READ DATA

CYL 4 HEAD 6 SECT 0

TOTAL DISC ERRORS: HARD = 0 SOFT = 0

DISCUTILITY
TENSION TAPE PROGRAM

PROGRAM NAME: T

WHEN TAPE UNIT IS READY, HIT RETURN TO START

RETENSIONING TAPE

PROGRAM NAME:

DISCUTILITY
IPL FROM DISC PROGRAM

PROGRAM NAME: I

TYPE OF DRIVE: 2

WHEN DRIVE IS READY, HIT RETURN TO START

PRESS RETURN

IRIS 8.2C

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?? NO PICO-N ??

17031: 40401 0 0 0 0 (AFTER RESET PRESSED)