765721 EMM CH

* EMM STUDIO

REF: OCT285WZ.TXT

REPLY TO : 265451 MONREF G OR 265871 MONREF G # IN FIRST LINE OF TEXT PUT REF: DGS1788

* TO:EMM STUDIO * FM:GREG JONES (FAIRLIGHT-UK)

DT:28 OCT 1987

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SJ: FORMATING HARD DISKS

SORRY ABOUT THE DELAY.

* IN THE PROCESS OF FORMATTING A HARD DISK THE SOFTWARE FIRST

* CHECKS TO SEE IF A DEFECTLIST IS ALREADY ON HARD DISK

* (/SCDD/SYS/DEFECTMAP) AND ASKS YOU IF YOU WANT TO USE THIS

* DEFECTMAP. IF THE DEFECTMAP DOESN'T EXIST ON THE HARD DISK THEN

* IT CHECKS THE FLOPPY-DISK FOR A FILE MATCHING THE DRIVE TYPE AND

* SERIAL NUMBER YOU SPECIFY. ONCE YOU HAVE TYPED IN THE DEFECTMAP

* THIS IS FIRST WRITTEN TO FLOPPY DISK (ARCHIVE COPY) AND ONCE THE

* HARD DISK IS FORMATTED THE DEFECTMAP LIST IS ALSO WRITTEN TO HARD

* DISK.

- 1: BOOT THE CMI USING THE 'INIT-DISK'
- 2: TYPE 'CMI-INIT' .LT.CR.GT. THIS IS THE COMMAND TO FORMAT THE HARD DISK.
- 3: INITIALISE SCSI DRIVE /SCOO (/KO,/K1,/K2,/CO) Y/N ? Y
- 4: READ DEFECT MAP FROM SCSI DRIVE (Y/N) ?
 THIS WILL ONLY COME UP IF THE FILE /SCOO/SYS/DEFECTMAP EXISTS
 ON THE HARD DISK. (IE. YOU HAVE ALREADY FORMATTED THE DISK
 ONCE BEFORE.

ANSWER Y IF YOU WISH TO ADD MORE DEFECTS TO THE EXISTING DEFECTLIST ON HARD DISK.

N IF SOMEBODY HAS FORMATTED THE DISK WITH THE WRONG DEFECTLIST. IE YOU ARE TYPING THE DEFECTLIST IN FROM THE START AGAIN.

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5: ENTER DRIVE TYPE:
                                         NDR1140.LT.CR.GT.
                                         XT1085 .LT.CR.GT.
    IF YOU DON'T KNOW WHAT DRIVE TYPE TO ENTER TYPE '?' AND YOU WILL BE SUPPLIED WITH A LIST OF THE DRIVE TYPES WHICH ARE ALREADY SPECIFIED. IF THE DRIVE YOU WISH TO FORMAT IS NOT ON
    THE LIST, YOU CAN SPECIFY THE RELEVANT CYLINDER AND HEAD
    COUNT.
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- 6: ENTER SERIAL NO: 5674830.LT.CR.GT.
- 7: THE CMI WILL NOW CHECK TO SEE IF THE DEFECTMAP LIST EXISTS ON THE FLOPPY YOU ARE USING. IF THE DEFECTMAP LIST IS ON FLOPPY YOU WILL BE ASKED 'USE EXISTING DEFECT LIST Y/N?'

Y IF YOU WANT TO READ THE DEFECT LIST FROM FLOPPY. N IF YOU DON'T WANT TO USE THE DEFECTMAP LIST ON FLOPPY.

7: IF YOU HAVE READ THE DEFECTMAP LIST FROM EITHER HARD DISK OR FLOPPY THEN YOU WILL BE ASKED 'ADD MORE DEFECTS? (Y/N) : Y IF YOU WANT TO ADD MORE DEFECTS (SEE THE TLAT COMMAND TYPE IN STEP NUMBER 12).

PROCEED TO STEP 9.

N IF YOU DON'T WANT TO ADD MORE DEFECTS. IE. THIS WILL BE THE CASE IF THE DISK HAS BEEN BUMPED WHILE IT IS RUNNING AND YOU SIMPLY WANT TO REFORMAT THE DISK. PROCEED TO STEP 10.

8; IF NO DEFECT LIST HAS BEEN READ FROM EITHER HARD DISK OR FLOPPY THEN YOU WILL BE ASKED IF YOU WANT TO RESET THE DEFECT BUFFER. 'CLEAR DEFECT BUFFER (Y/N)?' Y IF YOU ARE TYPING IN THE DEFECT LIST FROM NEW.

* 9: YOU WILL NOW EITHER HAVE TO ADD DEFECTS TO THE LIST OR INPUT THE DEFECTMAP FROM NEW. ENTER THE NEW DEFECT LIST (SHOULD BE WITH THE DRIVE) OR TYPE IN THE DEFECTS IN THE FOLLOWING FORMAT.

:HHH, CCCC, BBBBB.LT. CR. GT. :HHH, CCCC, BBBBB.LT.CR.GT. :HHH, CCCC, BBBBB.LT.CR.GT. :HHH, CCCC, BBBBB.LT.CR.GT. :.LT.CR.GT. LIST.

.LT.CR.GT. TERMINATES INPUT OF DEFECT

YOU WILL THEN BE ASKED IF YOU WANT TO EDIT THE DEFECT-LIST BY A REFERENCE NUMBER. 'EDIT DEFECT NO:

TYPE THE NUMBER OF THE DEFECT YOU WANT TO CHANGE OR TYPE .LT.CR.GT.

TO CONTINUE WITH THE FORMAT PROCESS.

10:YOU WILL THEN BE PROMPTED

'A HARD FORMAT WILL COMPLETELY ERASE ALL DISK DATA -PROCEED (Y/N) ?'

TYPE Y IF YOU WANT TO FORMAT THE DISK N IF YOU WISH TO ABORT THE FORMAT OPERATION.

A COMPLETE LIST OF ALL DEFECTS WILL APPEAR (YOU MAY HAVE TO HIT THE DEL KEY FOR THEM ALL TO APPEAR). THE DISK WILL THEN START TO BE FORMATTED. TAKES ABOUT 5 MINS.

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11: ONCE THE FORMAT PROCEDURE IS COMPLETE THEN DO A COMPLETE SURFACE CHECK OF THE HARD DISK. TAKES ABOUT 5 MINS. 'SCHECK /SCOO'

IF ANY ERRORS OCCUR THEN RECORD THE SECTOR NO(S) WHICH ARE DISPLAYED. THESE SECTOR NUMBERS MUST THEN BE TRANSLATED TO HEAD, CYLINDER, BYTE INFO NUMBERS SO THAT THEY CAN BE ADDED TO THE EXISTING DEFECTLIST AND THE THEN THE DISK MUST BE REFORMATTED.

PROCEED TO STEP 12.

IF NO ERRORS OCCUR THEN YOU ARE FINISHED.....

12:USING THE TLAT COMMAND TRANSLATE THE SECTOR NUMBERS TO HEAD, CYLINDER, BYTE INFO.

TLAT XXXXXXX.LT.CR.GT.

THIS WILL RETURN THE FOLLOWING INFO. NOTE ALL THE DETAILS DOWN FOR ADDITION TO THE EXISTING DEFECTLIST (ON HARD DISK AND FLOPPY)

HEAD HH, CYLINDER CCCC, BYTE BBBBB

SOMETIMES THE SECTOR IS SO BADLY CORRUPTED THAT THE SOFTWARE IS UNABLE TO READ THE HEAD, ETC INFO FROM THE DISK. IN WHICH CASE YOU WILL HAVE TO DO THE FOLLOWING.

ADD 1 TO THE XXXXXXX NUMBER AND REPEAT THE TLAT COMMAND.

WITH THE BYTE NUMBER SUPPLIED YOU MUST NOW SUBRTACT 62D FROM IT. (THOSE PEOPLE WHO UNDERSTAND HARD DISK SYSTEMS: THIS IS BECAUSE OF THE INTERLEAVE FACTOR OF 2.) THIS WILL GIVE YOU THE ACTUAL BYTE NUMBER OF THE FAULTY SECTOR.

HOPE THIS HELPS YOU REGARDS GREG JONES

- * REPLY TO: 265451 MONREF G OR 265871 MONREF G * IN FIRST LINE OF TEXT PUT REF: DG81788
- * 945721 EMM CH

* 29.10.87 0245