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0387 DATA FCODE_INTCODE9(1) /*TAPE UNIT ON-LINE BUT NOT READY*/
0388 DATA FCODE_INTCODE9(2) /*FATAL ERROR, TM CLEAR REQUIRED*/
0389 DATA FCODE_INTCODE9(3) /*ACCESS ONLY, DRIVE BUSY*/
0390
0391 character*24 fcode_intcode13(4)
0392 DATA FCODE_INTCODE13(1) /*BLANK TAPE*/
0393 DATA FCODE_INTCODE13(2) /*ID MARKER NOT PE OR GCR*/
0394 DATA FCODE_INTCODE13(3) /*ARA ID NOT FOUND*/
0395 DATA FCODE_INTCODE13(4) /*NO GAP AFTER ID BURST*/
0396
0397 character*28 fcode_intcode18(11)
0398 DATA FCODE_INTCODE18(1) /*GCR WRITE OPERATION FAILURE*/
0399 DATA FCODE_INTCODE18(2) /*GCR READ OPERATION FAILURE*/
0400 DATA FCODE_INTCODE18(3) /*PE READ OPERATION FAILURE*/
0401 DATA FCODE_INTCODE18(4) /*PE WRITE OPERATION FAILURE*/
0402 DATA FCODE_INTCODE18(5) /*ECCSTA BIT(S) SET*/
0403 DATA FCODE_INTCODE18(6) /*PE WRITE OPERATION FAILURE*/
0404 DATA FCODE_INTCODE18(7) /*GCR WRITE OPERATION FAILURE*/
0405 DATA FCODE_INTCODE18(8) /*RSTAT CONTAINS BAD CODE*/
0406 DATA FCODE_INTCODE18(9) /*PE WRITE OPERATION FAILURE*/
0407 DATA FCODE_INTCODE18(10) /*MASSBUS DATA PARITY ERROR*/
0408 DATA FCODE_INTCODE18(11) /*RETRY OPPOSITE FAILURE*/
0409
0410 character*29 fcode_intcode28(2)
0411 DATA FCODE_INTCODE28(1) /*MASSBUS CONTROL PARITY ERROR*/
0412 DATA FCODE_INTCODE28(2) /*ILLEGAL REGISTER REFERENCE*/
0413
0414 character*31 v1ndt_function(19)
0415 DATA V1NDT_FUNCTION(1) /*NO-OPERATION*/
0416 DATA V1NDT_FUNCTION(2) /*UNLOAD*/
0417 DATA V1NDT_FUNCTION(3) /*REWIND*/
0418 DATA V1NDT_FUNCTION(4) /*SENSE*/
0419 DATA V1NDT_FUNCTION(5) /*DSE*/
0420 DATA V1NDT_FUNCTION(6) /*WRITE TM (PE)*/
0421 DATA V1NDT_FUNCTION(7) /*WRITE TM (GCR)*/
0422 DATA V1NDT_FUNCTION(8) /*SPACE FORWARD RECORD(S)*/
0423 DATA V1NDT_FUNCTION(9) /*SPACE REVERSE RECORD(S)*/
0424 DATA V1NDT_FUNCTION(10) /*SPACE FORWARD FILE(S)*/
0425 DATA V1NDT_FUNCTION(11) /*SPACE REVERSE FILE(S)*/
0426 DATA V1NDT_FUNCTION(12) /*SPACE FORWARD EITHER*/
0427 DATA V1NDT_FUNCTION(13) /*SPACE REVERSE EITHER*/
0428 DATA V1NDT_FUNCTION(14) /*EXTENDED RECORD GAP, SET PE*/
0429 DATA V1NDT_FUNCTION(15) /*EXTENDED RECORD GAP, SET GCR*/
0430 DATA V1NDT_FUNCTION(16) /*CLOSE FILE, PE*/
0431 DATA V1NDT_FUNCTION(17) /*CLOSE FILE, GCR*/
0432 DATA V1NDT_FUNCTION(18) /*SPACE TO LOGICAL EOT*/
0433 DATA V1NDT_FUNCTION(19) /*SPACE FORWARD FILE/LOGICAL EOT*/
0434
0435 character*20 v1dt_function(20:20)
0436 DATA V1DT_FUNCTION(20) /*WRITE CHECK FORWARD*/
0437
0438 character*20 v2dt_function(23:25)
0439 DATA V2DT_FUNCTION(23) /*WRITE CHECK REVERSE*/
0440 DATA V2DT_FUNCTION(24) /*WRITE PE*/
0441 DATA V2DT_FUNCTION(25) /*WRITE GCR*/
0442
0443 character*15 v3dt_function(28:29)

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1014
1015   call output (lun,mf_ds,v2mf_ds,6,6,15,'0')
1016   else
1017
1018   call linchk (lun,1)
1019
1020   write(lun,157) 'DAIGNOSTIC MODE'
1021 157   format(' ',t40,a)
1022   endif
1023
1024   call linchk (lun,1)
1025
1026   write(lun,160) mf_sn
1027 160   format(' ',t8,'MF-SN',t24,z8.8)
1028
1029   if (.not. diagnostic_mode) then
1030
1031   call mba_status_register16_31 (lun,mf_ds,mf_sn,1)
1032   endif
1033
1034   call linchk (lun,1)
1035
1036   write(lun,165) mf_mr2
1037 165   format(' ',t8,'MF-MR2',t24,z8.8)
1038
1039   if (.not. diagnostic_mode) then
1040
1041   call mba_status_register16_31 (lun,mf_sn,mf_mr2,1)
1042   endif
1043
1044   call linchk (lun,1)
1045
1046   write(lun,170) mf_mr3
1047 170   format(' ',t8,'MF-MR3',t24,z8.8)
1048
1049   if (.not. diagnostic_mode) then
1050
1051   call mba_status_register16_31 (lun,mf_mr2,mf_mr3,1)
1052   endif
1053
1054   ndt_cmdaddr = lib$extzv (8,2,mf_ndta)
1055
1056   call linchk (lun,1)
1057
1058   write(lun,175) mf_ndta
1059 175   format(' ',t8,'MF-NDTA',t24,z8.8)
1060
1061   if (.not. diagnostic_mode) then
1062
1063   call mba_status_register16_31 (lun,mf_mr3,mf_ndta,1)
1064
1065   ndt_function = lib$extzv (1,5,mf_ndt(ndt_cmdaddr))
1066
1067   if (
1068   1 attn_bit_this_tm78 .eq. 1
1069   1 .or.
1070   1 (ndt_cmdaddr .eq. ucb_unit_numbr

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1185      1 .and.  
1186      2 (ndt_fcode .ge. 17  
1187      3 .and.  
1188      4 ndt_fcode .le. 35)) then  
1189  
1190      write(lun,65) ndt_fcode  
1191  
1192      else if (ndt_intcode .eq. 28  
1193      1 .and.  
1194      2 ndt_fcode .ge. 1  
1195      3 .and.  
1196      4 ndt_fcode .le. 2) then  
1197  
1198      write(lun,230) fcode_intcode28(ndt_fcode)  
1199 230      format(' ',t40,a<compressc (fcode_intcode28(ndt_fcode))>>  
1200      else  
1201  
1202      write(lun,231) ndt_intcode  
1203 231      format(' ',t40,'NDT' INTERRUPT CODE ',o2.2,' (OCTAL)')  
1204  
1205      call linchk (lun,1)  
1206  
1207      write(lun,232) ndt_fcode  
1208 232      format(' ',t40,'NDT' FAILURE CODE ',o2.2,' (OCTAL)')  
1209      endif  
1210      endif  
1211      endif  
1212  
1213      do 250,i = 0,3  
1214  
1215      call linchk (lun,1)  
1216  
1217      write(lun,235) i,mf_ndt(i)  
1218 235      format(' ',t8,'MF NDT',i,t24,z8.8)  
1219  
1220      if (.not. diagnostic_mode) then  
1221  
1222      call mba_status_register16_31 (lun,mf_ndt(max(0,i-1)),mf_ndt(i),1)  
1223  
1224      if (i .eq. ucb_unit_number  
1225      1 .and.  
1226      4 ndt_function .eq. ucb_function) then  
1227  
1228      call linchk (lun,1)  
1229  
1230      if (ndt_function .ge. 1  
1231      1 .and.  
1232      2 ndt_function .le. 19) then  
1233  
1234      write(lun,240) vndt_function(ndt_function)  
1235 240      format(' ',t40,a<compressc (vndt_function(ndt_function))>>  
1236      endif  
1237  
1238      field = lib$extzv (8.8,mf_ndt(i))  
1239  
1240      call linchk (lun,1)  
1241
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1242 write(lun,245) field
1243 245 format(' ',t40,'COMMAND COUNT = ',i<compress4 (field)>,'.')
1244 endif
1245 endif
1246
1247 250 continue
1248
1249 call linchk (lun,1)
1250
1251 write(lun,260) mf_id
1252 260 format(' ',t8,'MF-ID',t24,z8.8)
1253
1254 if (.not. diagnostic_mode) then
1255
1256 call mba_status_register16_31 (lun,mf_ndt(3),mf_id,1)
1257
1258 call output (lun,mf_id,vl mf_id,8,8,15,'0')
1259
1260 if (emb$w_hd_entry .ne. 96
1261 1 .and.
1262 1 ((dt_cmdaddr .eq. ucb_unit_number
1263 1 .and.
1264 2 dt_function .eq. ucb_function
1265 .and.
1266 3 dt_intcode .ne. 17
1267 3 .and.
1268 4 dt_fcode .ne. 0)
1269 5 .or.
1270 6 (ndt_cmdaddr .eq. ucb_unit_number
1271 7 .and.
1272 8 ndt_function .eq. ucb_function
1273 9 .and.
1274 1 ndt_intcode .ne. 5
1275 1 .and.
1276 1 ndt_intcode .ne. 6
1277 1 .and.
1278 1 ndt_intcode .ne. 7
1279 1 .and.
1280 1 ndt_fcode .ne. 0))
1281 1 .or.
1282 1 ucb$l_mf_cmd .lt. 0) then
1283
1284 call linchk (lun,3)
1285
1286 write(lun,265)
1287 265 format('/',t1,'EXTENDED SENSE INFORMATION',/)
1288
1289 call linchk (lun,8)
1290
1291 write(lun,270) (mf_exsns(i),i = 1,5)
1292 270 format(' ',t8,'BYTE 1',t30,z2.2,/,t40,'COMMAND CODE',/,
1293 1 t8,'BYTE 2',t30,z2.2,/,t40,'INTERRUPT CODE',/,
1294 2 t8,'BYTE 3',t30,z2.2,/,t40,'FAILURE CODE',/,
1295 3 t8,'RPFAIL',t30,z2.2,/,
1296 4 t8,'RPATH',t30,z2.2)
1297
1298 call output (lun,mf_exsns(5),vl mf_exsns5,0,0,7,'0')

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```
1299
1300      call linchk (lun,2)
1301
1302      write(lun,295) (mf_exsns(6),i = 1,2)
1303 295      format('  t8,'RSTAT',t30,z2.2,/,t40,
1304            1 'RMC STATUS = ',o3.3,' (OCTAL)')
1305
1306      call linchk (lun,7)
1307
1308      write(lun,300) (mf_exsns(i),i = 7,13)
1309 300      format('  t8,'RCMCP',t30,z2.2,/,
1310            1 t8,'RAMT',t30,z2.2,/,
1311            2 t8,'RDON',t30,z2.2,/,
1312            3 t8,'RILL',t30,z2.2,/,
1313            4 t8,'RMK2',t30,z2.2,/,
1314            5 t8,'EMK',t30,z2.2,/,
1315            6 t8,'RPSTA',t30,z2.2)
1316
1317      call output (lun,mf_exsns(13),v1mf_exsns13,0,0,7,'0')
1318
1319      call linchk (lun,5)
1320
1321      write(lun,335) (mf_exsns(i),i = 14,18)
1322 335      format('  t8,'RPOSTN',t30,z2.2,/,
1323            1 t8,'RDATA',t30,z2.2,/,
1324            2 t8,'CRCWRD',t30,z2.2,/,
1325            3 t8,'ECCOR',t30,z2.2,/,
1326            4 t8,'ECCSTA',t30,z2.2)
1327
1328      call output (lun,mf_exsns(18),v1mf_exsns18,0,0,7,'0')
1329
1330      do 365,i = 0,7
1331
1332      call linchk (lun,1)
1333
1334      write(lun,360) i,mf_exsns(19 + i)
1335 360      format('  t8,'CH',i1,'TIE',t30,z2.2)
1336
1337 365      continue
1338
1339      call linchk (lun,4)
1340
1341      write(lun,370) (mf_exsns(i),i = 27,30)
1342 370      format('  t8,'CHPTIE',t30,z2.2,/,
1343            1 t8,'RTIER',t30,z2.2,/,
1344            2 t8,'TAMT',t30,z2.2,/,
1345            3 t8,'PSTAT',t30,z2.2)
1346
1347      call output (lun,mf_exsns(30),v1mf_exsns30,0,0,7,'0')
1348
1349      call linchk (lun,2)
1350
1351      write(lun,390) (mf_exsns(i),i = 31,32)
1352 390      format('  t8,'PRDD',t30,z2.2,/,
1353            1 t8,'CASSFA',t30,z2.2)
1354
1355      field = lib$extzv(0,3,mf_exsns(32))
```


MFTAPE_Q10

N 10
16-Sep-1984 00:08:57
5-Sep-1984 14:01:41

VAX-11 FORTRAN V3.4-56
DISK\$VMSMASTER:[ERF.SRC]MFTAPE.FOR;1 Page 33

3-0000017E CHAR IOS_WRITETRACKD
3-00000448 CHAR IOS_WRITEWITHBUF
AP-00000004@ L*1 LUN

3-00000326 CHAR IOS_WRITEVBLK
3-00000257 CHAR IOS_WRTTMKR
3-000004A1 CHAR QIO_STRING

ARRAYS

| Address | Type | Name | Bytes | Dimensions |
|------------|------|---------|-------|-------------|
| 2-00000000 | I*4 | Q10CODE | 512 | (0:1, 0:63) |

LABELS

| Address | Label |
|---------|-------|
| ** | 10 |

FUNCTIONS AND SUBROUTINES REFERENCED

| Type | Name | Type | Name |
|------|------------|------|------------|
| | IRPSW_FUNC | I*4 | LIB\$EXTZV |

COMMAND QUALIFIERS

FORTRAN /LIS=LIS:MFTAPE/OBJ=OBJ:MFTAPE MSRC\$:MFTAPE
 /CHECK=(NOBOUNDS,OVERFLOW,NOUNDERFLOW)
 /DEBUG=(NOSYMBOLS,TRACEBACK)
 /STANDARD=(NOSYNTAX,NOSOURCE FORM)
 /SHOW=(NOPREPROCESSOR,NOINCLUDE,MAP)
 /F77 /NOG_FLOATING /I4 /OPTIMIZE /WARNINGS /NOD_LINES /NOCROSS_REFERENCE /NOMACHINE_CODE /CONTINUATIONS=19

COMPILATION STATISTICS

Run Time: 24.70 seconds
 Elapsed Time: 52.25 seconds
 Page Faults: 580
 Dynamic Memory: 386 pages

ML1
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J

A grid of 15 columns and 10 rows of terminal screens. Each screen displays a different system utility or diagnostic tool. The screens are arranged in a regular grid pattern, with each cell containing a distinct interface. The interfaces vary in layout, including lists of data, status indicators, and graphical elements like bar charts. Some screens have titles such as 'MESSAGE LIS', 'ML11 LIS', 'MFTAPE LIS', 'MOUNT LIS', 'MOUXX LIS', and 'MCHK.DTSP LIS'. The overall appearance is that of a multi-terminal computer console from the early 1980s.