

,TITLE DC01-EB SYSTEM EXERCISER TEST
,EBREL
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/DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASS., 01754
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/THIS PROGRAM IS DESIGNED TO EXERCISE THE TRANSMITTER, RECEIVER AND
/TELEPRINTERS FOR THE 'DC01-EB' AND DC01-BB, THE PROGRAM WILL EXERCISE
/FROM '1' TO '4' DC01-EB'S OR 'BB' SIMULTANEOUSLY IN CONFIGURATIONS OF
/'1' TO '32' TELETYPE, THE TEST STARTS BY TYPING A 'REPEATING'
/CHARACTER SET SIMULTANEOUSLY ON ALL AVAILABLE TELETYPES AND THEN RUNS
/A "FLOATING TELETYPE" TEST, IN THIS TEST, ONE TELETYPE ON EACH DC01EB
/UNIT IS LEFT 'SILENT' WHILE ALL REMAINING TELETYPES CONTINUE TYPING OUT
/THE CHARACTER SET, AFTER COMPLETING APPROXIMATELY TEN LINES OF CHARACTER
/SETS THE 'SILENT' TELETYPE IS RE-STARTED AND ANOTHER TELETYPE IS LEFT
/'SILENT', ANY CHARACTER MAY BE TYPED IN ON THE 'SILENT' TELETYPE AND
/IT WILL 'ECHO' BACK THE CHARACTER THUS TESTING THE 'KEYBOARD' SECTION
/OF THAT TELETYPE, PROVISION IS MADE TO 'HOLD' ANY SELECTED TELETYPE
/IN AN 'ECHO' MADE INDEFINATELY, THIS IS DONE VIA TYPING A 'CNTR A'
/ON ANY 'SILENT' TELETYPE, A '#' WILL BE ECHOED BACK TO INDICATE 'ECHO
/HOLD', FOLLOWED VIA A NUMBER OF '0 TO 7' TO INDICATE THE DESIRED TELE-
/TYPE TO BE SELECTED AND TERMINATED BY 'CARRIAGE RETURN', TYPING 'RUBOUT'
/WILL RUBOUT ANY PRECEEDING NUMBER AND TYPING A SECOND 'CNTR A' FOLLOWED BY
/A 'CARRIAGE RETURN' WILL TERMINATE THE 'ECHO HOLD' MODE,

707764 A EBA=707764
707702 A EEM=707702

00000 R 604030 A USERSW 604030 /I/O DEVICE WITH MULTI-AP1 # 70
00001 R 000031 A 31 /UNIT #2 ADDRESS '72',
00002 R 000032 A 32 /UNIT #3 ADDRESS '74',
00003 R 000033 A 33 /UNIT #4 ADDRESS '73'
00004 R 000144 R ,DSA SERVICE
00005 R 000031 R ,DSA INIT
00006 R 040317 A ,SIXBT 'DC01EB'
00007 R 610502 A
00010 R 020000 A DATASW 20000 /DATA 'SW4' INHIBITS THE 'DC01-EB' TEST
00011 R A ,BLOCK 7
00020 R 000000 A SYSERR 0 /ERROR INDICATOR FOR THE MONITOR
00021 R 000000 A 0 /W,C, FOR DATA WORD ERROR CODES,
00022 R 000000 A ERCODE 0
00023 R 000000 A 0
00024 R 000000 A 0
00025 R 000000 A 0
00026 R 000000 A 0
00027 R 000000 A 0
00030 R 000000 A 0
 ,EJECT

/INITIALIZE THE DC01-EB TEST

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INIT 0
00031 R 000000 A          EBA
00032 R 707764 A          EEM
00033 R 707702 A          LAC          INIT
00034 R 200031 R          DAC          SERVICE
00035 R 040144 R          DZM          SYSERR
00036 R 140020 R          DZM          SYSERR+1
00037 R 140021 R          DZM          ERCODE
00040 R 140022 R          DZM          ECHO1
00041 R 142010 R          DZM          ECHO2
00042 R 142011 R          DZM          ECHO3
00043 R 142012 R          DZM          ECHO4
00044 R 142013 R          LAW          =1
00045 R 777777 A          DAC          SILTT1
00046 R 042014 R          DAC          SILTT2
00047 R 042015 R          DAC          SILTT3
00050 R 042016 R          DAC          SILTT4
00051 R 042017 R          DAC          SILSW1
00052 R 042020 R          DAC          SILSW2
00053 R 042021 R          DAC          SILSW3
00054 R 042022 R          DAC          SILSW4
00055 R 042023 R          DAC          LONE1
00056 R 042030 R          DAC          LONE2
00057 R 042031 R          DAC          LONE3
00060 R 042032 R          DAC          LONE4
00061 R 042033 R          DAC          KSTOR4
00062 R 042037 R          DAC          KSTOR5
00063 R 042040 R          DAC          KSTOR6
00064 R 042041 R          DAC          KSTOR8
00065 R 042043 R          JMS          DISFLG
00066 R 100450 R          LAC          (ACTIV1
00067 R 202074 R          DAC          KSTOR1
00070 R 042034 R          LAC          TEMP1
00071 R 042044 R          LAC          (ACTIV2
00072 R 202075 R          DAC          KSTOR2
00073 R 042035 R          LAC          (ACTIV3
00074 R 202076 R          DAC          KSTOR3
00075 R 042036 R          LAC          (ACTIV4
00076 R 202077 R          DAC          KSTOR7
00077 R 042042 R          LAW          =44
00100 R 777734 A          DAC          TEMP2
00101 R 042045 R          LAW          =1
00102 R 777777 A          DAC*        TEMP1
00103 R 062044 R          ISZ          TEMP1
00104 R 442044 R          ISZ          TEMP2
00105 R 442045 R          JMP          =3
00106 R 600103 R          /
                                .EJECT

```

/CLEAR ERROR LOCATIONS

/DISABLE SCANNER AND 'CLR' FLAGS UNIT #1

/ADDRESS OF UNIT #1'S ACTIVE TELETYPE,

/UNIT #2

/UNIT #3

/UNIT #4

/CLEAR 'ACTIVE' TELETYPE BUFFER,

```

00107 R 772000 A      LAW      -6000
00110 R 042061 R      DAC      LOOPA
00111 R 042062 R      DAC      LOOPB
00112 R 042063 R      DAC      LOOPC
00113 R 042064 R      DAC      LOOPD
00114 R 202100 R      LAC      (DSTSW0+1
00115 R 040151 R      DAC      DSTSW0
00116 R 202101 R      LAC      (REC1
00117 R 040514 R      DAC      DSTSW1
00120 R 202102 R      LAC      (REC2
00121 R 040567 R      DAC      DSTSW2
00122 R 202103 R      LAC      (REC3
00123 R 040642 R      DAC      DSTSW3
00124 R 202104 R      LAC      (REC4
00125 R 040715 R      DAC      DSTSW4
00126 R 202105 R      LAC      (600000
00127 R 042065 R      DAC      PASCNT
00130 R 142024 R      DZM      HLDTT1
00131 R 142025 R      DZM      HLDTT2
00132 R 142026 R      DZM      HLDTT3
00133 R 142027 R      DZM      HLDTT4
00134 R 776000 A      LAW      -2000
00135 R 042066 R      DAC      WAITCT
00136 R 101654 R      JMS      HOLDSW
00137 R 202106 R      LAC      (215
00140 R 042046 R      DAC      TEMP3
00141 R 101326 R      JMS      TRNSMT
00142 R 101345 R      JMS      SETPR1
00143 R 620031 R      JMP*     INIT
/
.EJECT

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/WAIT COUNTER FOR 'FLAG SET' TIME
/CHECK 'HOLD SWITCH'
/=TO 'CARRIAGE RETURN',

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/INITIALIZE ALL TTY'S WITH 'CARRIAGE RETURN',
/SET UP 'ASCII' CHARACTER TABLES,

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/SERVICE ROUTINE FOR THE "DC01-EB" TEST

```

00144 R 000000 A SERVICE 0
00145 R 707704 A EBA
00146 R 707702 A EEM
00147 R 042070 R DAC SAVEAC /SAVE CONTENTS OF 'AC',
00150 R 620151 R JMP* DSTSW0
00151 R 000000 A DSTSW0 0
00152 R 202066 R LAC WAITCI
00153 R 740200 A SZA /HAVE TELETYPES BEEN SET UP?
00154 R 600227 R JMP CHKFLG /NO, CHECK ACTIVE TTY'S
00155 R 777777 A LAW =1
00156 R 042072 R DAC FLGDRV /SET "NO-FLAG" INDICATOR,
00157 R 101664 R JMS HOLDSW /CHECK FOR THE HOLD SWITCH,
00160 R 100303 R JMS CHKTRN /CHECK TRANSMITTER AND RECEIVER FLAGS,
00161 R 442001 R ISZ LOOPA /ECHO UNIT #1
00162 R 741000 A SKP
00163 R 101002 R JMS FLOAT1 /YES, FLOAT NEXT TTY
00164 R 442062 R ISZ LOOPB /ECHO UNIT #2
00165 R 741000 A SKP
00166 R 101067 R JMS FLOAT2 /YES, FLOAT NEXT TTY,
00167 R 442063 R ISZ LOOPC /ECHO UNIT #3
00170 R 741000 A SKP
00171 R 101154 R JMS FLOAT3 /YES, FLOAT NEXT TTY,
00172 R 442064 R ISZ LOOPD /ECHO UNIT #4?
00173 R 741000 A SKP
00174 R 101241 R JMS FLOAT4 /YES, FLOAT NEXT TTY,
00175 R 202030 R LAC LONE1
00176 R 741200 A SNA /IS ONLY '1' TELETYPE AVAILABLE?
00177 R 601732 R JMP EXITM5 /YES, EXIT "-5"
00200 R 202072 R LAC FLGDRV
00201 R 740200 A SZA /WERE ANY FLAGS SET?
00202 R 601737 R JMP NOFLAG /NO, EXIT
00203 R 202037 R LAC KSTOR4
00204 R 740100 A SMA
00205 R 600222 R JMP EXIT
00206 R 202040 R LAC KSTOR5
00207 R 740100 A SMA
00210 R 600222 R JMP EXIT
00211 R 202041 R LAC KSTOR6
00212 R 740100 A SMA
00213 R 600222 R JMP EXIT
00214 R 202043 R LAC KSTOR8
00215 R 740100 A SMA
00216 R 600222 R JMP EXIT
00217 R 442065 R ISZ PASCNT /INCREMENT THE PASS COUNTER,
00220 R 741000 A SKP
00221 R 601724 R JMP EXITH4 /ON OVERFLOW, TYPE 'DONE',
00222 R 705512 A EXIT RPL
00223 R 751100 A SPA:CLA /IS 'API' ON?
00224 R 202070 R LAC SAVEAC /YES, RESTORE 'AC'
00225 R 703344 A DBR /NO, EXIT
00226 R 620144 R JMP* SERVICE

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EJECT

/DETERMINE THE NO. OF AVAILABLE TTY'S AND SET UP
/A "ACTIVE" TTY BUFFER FOR EACH UNIT.

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00227 R 401610 R   CHKFLG  XCT   SSF1           /IS UNIT #1 SCANNER FLAG SET?
00230 R 600240 R       JMP   CKFLG2        /NO, CHECK UNIT #2
00231 R 401614 R       XCT   RSD1           /READ SCANNER DATA AND CLEAR FLAG,
00232 R 502107 R       AND   (7000          /MASK SCANNER LINE NO.
00233 R 101644 R       JMS   ROT9R
00234 R 062034 R       DAC*  KSTOR1          /SAVE SCANNER ADDRESS
00235 R 442034 R       ISZ   KSTOR1
00236 R 401634 R       XCT   STS1           /CLEAR SCANNER FLAG& RESTART THE SCANNER,
00237 R 600227 R       JMP   CHKFLG
00240 R 401611 R   CKFLG2  XCT   SSF2           /RECHECK SCANNER FLAG
00241 R 600251 R       JMP   CKFLG3        /SCANNER #2 FLAG SET?
00242 R 401615 R       XCT   RSD2           /NO, CHECK UNIT #3
00243 R 502107 R       AND   (7000          /READ SCANNER DATA AND CLEAR FLAG
00244 R 101644 R       JMS   ROT9R
00245 R 062035 R       DAC*  KSTOR2          /SAVE SCANNER ADDRESS
00246 R 442035 R       ISZ   KSTOR2
00247 R 401635 R       XCT   STS2           /CLEAR SCANNER FLAG & RESTART SCANNER,
00250 R 600240 R       JMP   CKFLG2        /RECHECK SCANNER FLAG
00251 R 401612 R   CKFLG3  XCT   SSF3           /IS UNIT #3 SCANNER FLAG SET?
00252 R 600262 R       JMP   CKFLG4        /CHECK UNIT #4,
00253 R 401616 R       XCT   RSD3           /READ SCANNER DATA AND CLEAR FLAG
00254 R 502107 R       AND   (7000          /MASK SCANNER LINE NO.
00255 R 101644 R       JMS   ROT9R
00256 R 062036 R       DAC*  KSTOR3          /SAVE SCANNER ADDRESS
00257 R 442036 R       ISZ   KSTOR3
00260 R 401636 R       XCT   STS3           /CLEAR SCANNER FLAG& RESTART THE SCANNER,
00261 R 600251 R       JMP   CKFLG3        /RECHECK FLAG
00262 R 401613 R   CKFLG4  XCT   SSF4           /IS UNIT #4 SCANNER FLAG SET?
00263 R 600273 R       JMP   EXTCKF        /NO, EXIT
00264 R 401617 R       XCT   RSD4           /READ SCANNER DATA AND CHAR FLAG,
00265 R 502107 R       AND   (7000
00266 R 101644 R       JMS   ROT9R
00267 R 062042 R       DAC*  KSTOR7          /SAVE SCANNER ADDRESS,
00270 R 442042 R       ISZ   KSTOR7
00271 R 401637 R       XCT   STS4           /RESTART THE SCANNER,
00272 R 600262 R       JMP   CKFLG4
00273 R 442066 R   EXTCKF  ISZ   WAITCT        /ALL FLAGS HAD TIME TO SET?
00274 R 601732 R       JMP   EXITM2        /NO, EXIT "-5",
00275 R 142072 R       DZM   FLGDRV        /CLEAR "NO-FLAG" INDICATOR
00276 R 202110 R       LAC   (212          /=TO LINE FEED
00277 R 042046 R       DAC   TEMP3
00300 R 101664 R       JMS   HOLDSW        /CHECK FOR HOLD SWITCH,
00301 R 101326 R       JMS   TRNSMT
00302 R 600222 R       JMP   EXIT
/
.EJECT

```

/CHECK UNIT #1,2,3 AND 4 FOR ANY TRANSMITTER FLAGS FOR BEING SET

```

/
CHKTRN 0
00303 R 000000 A      LAC      HLDTT1
00304 R 202024 R      SZA
00305 R 740200 A      JMP      ,+4
00306 R 600312 R      XCT      SSF1
00307 R 401610 R      XCT      SSF1
00310 R 600326 R      JMP      CHKTR2
00311 R 401614 R      XCT      RSD1
00312 R 142072 R      DZM      FLGDRV
00313 R 142024 R      DZM      HLDTT1
00314 R 042044 R      DAC      TEMP1
00315 R 502107 R      AND      (7000
00316 R 101644 R      JMS      ROT9R
00317 R 542014 R      SAD      SILTT1
00320 R 600456 R      JMP      CKREC1
00321 R 342111 R      TAD      (TABLE1
00322 R 100414 R      JMS      PRTPHR
00323 R 100000 A      100000
00324 R 401640 R      XCT      SLS1
00325 R 600304 R      JMP      CHKTRN+1

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/WAS THE HOLD SWITCH SET?
/YES, PROCESS DATA,
/IS UNIT #1 SCANNER FLAG SET?
/NO, CHECK UNIT #2,
/READ SCANNER DATA,
/YES, CLEAR "NO-FLAG" INDICATOR,
/CLEAR THE 'HOLD SET' INDICATOR,
/SAVE DATA
/ROTATE RIGHT '9',
/=TO SILENT TTY?
/YES, CHECK RECEIVER DATA
/CALCULATE PRINT BUFFER ADDRESS
/SETUP THE NEXT CHARACTER
/=TO UNIT #1
/TRANSMIT NEXT CHARACTER
/CHECK NEXT FLAG

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/CHECK UNIT #2 TRANSMITTER FLAGS

```

/
CHKTR2 LAC      HLDTT2
00326 R 202025 R      SZA
00327 R 740200 A      JMP      ,+4
00330 R 600334 R      XCT      SSF2
00331 R 401611 R      XCT      SSF2
00332 R 600350 R      JMP      CHKTR3
00333 R 401615 R      XCT      RSD2
00334 R 142072 R      DZM      FLGDRV
00335 R 142025 R      DZM      HLDTT2
00336 R 042044 R      DAC      TEMP1
00337 R 502107 R      AND      (7000
00340 R 101644 R      JMS      ROT9R
00341 R 542015 R      SAD      SILTT2
00342 R 600531 R      JMP      CKREC2
00343 R 342112 R      TAD      (TABLE2
00344 R 100414 R      JMS      PRTPHR
00345 R 200000 A      200000
00346 R 401641 R      XCT      SLS2
00347 R 600326 R      JMP      CHKTR2

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/IS UNIT #2 SCANNER FLAG SET?
/NO, CHECK UNIT #3
/READ SCANNER DATA
/YES, CLEAR "NO-FLAG" INDICATOR,
/SAVE DATA
/ROTATE RIGHT '9',
/=TO SILENT TTY?
/YES, CHECK RECEIVER DATA
/CALCULATE PRINT BUFFER ADDRESS
/SETUP THE NEXT CHATACTER
/=TO UNIT #2
/TRANSMIT NEXT CHARACTER
/CHECK NEXT FLAG,

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,EJECT

/CHECK UNIT #3 TRANSMITTER FLAGS

```

00350 R 202026 R   CHKTR3 LAC    HLDTT3
00351 R 740200 A           SZA
00352 R 600356 R           JMP    ,+4
00353 R 401612 R           XCT    SSF3      /IS UNIT #3 SCANNER FLAG SET?
00354 R 600372 R           JMP    CHKTR4   /NO, CHECK UNIT #4,
00355 R 401616 R           XCT    RSD3      /READ SCANNER DATA
00356 R 142072 R           DZM    FLGDRV   /CLEAR "NO-FLAG" INDICATOR,
00357 R 142026 R           DZM    HLDTT3
00360 R 042044 R           DAC    TEMP1   /SAVE DATA
00361 R 502107 R           AND    (7000
00362 R 101644 R           JMS    ROT9R
00363 R 542016 R           SAD    SILTT3   /=TO SILENT TTY?
00364 R 600604 R           JMP    CKREC3   /YES, CHECK RECEIVER DATA
00365 R 342113 R           TAD    (TABLE3 /CALCULATE THE PRINT BUFFER ADDRESS
00366 R 100414 R           JMS    PRTCHR   /SETUP THE NEXT CHARACTER
00367 R 300000 A           300000        /=TO UNIT #3
00370 R 401642 R           XCT    SLS3     /TRANSMIT NEXT CHARACTER
00371 R 600350 R           JMP    CHKTR3   /CHECK NEXT FLAG

```

/CHECK UNIT #4 TRANSMITTER FLAGS,

```

00372 R 202027 R   CHKTR4 LAC    HLDTT4
00373 R 740200 A           SZA
00374 R 600400 R           JMP    ,+4
00375 R 401613 R           XCT    SSF4      /IS UNIT #4 SCANNER FLAG SET?
00376 R 620303 R           JMP*   CHKTRN   /NO, EXIT
00377 R 401617 R           XCT    RSD4      /READ SCANNER DATA
00400 R 142072 R           DZM    FLGDRV
00401 R 142027 R           DZM    HLDTT4
00402 R 042044 R           DAC    TEMP1   /SAVE DATA,
00403 R 502107 R           AND    (7000
00404 R 101644 R           JMS    ROT9R
00405 R 542017 R           SAD    SILTT4   /=TO SILENT TTY?
00406 R 600657 R           JMP    CKREC4   /YES, CHECK RECEIVER DATA
00407 R 342114 R           TAD    (TABLE4 /CALCULATE THE PRINT BUFFER ADDRESS
00410 R 100414 R           JMS    PRTCHR   /SETUP THE NEXT CHARACTER
00411 R 400000 A           400000        /=TO UNIT #4
00412 R 401643 R           XCT    SLS4     /TRANSMIT NEXT CHARACTER
00413 R 600372 R           JMP    CHKTR4   /CHECK NEXT FLAG,

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/EJECT

/SUBROUTINE TO COMPARE TRANSMITTED DATA AND SETUP TO TRANSMIT THE NEXT
 /CHARACTER, ENTERED WITH PRINT 'BUFFER ADDR' IN 'AC', AND EXIT WITH THE
 /NEXT CHARACTER TO BE TRANSMITTED IN 'AC',

```

00414 R 000000 A   PRTCHR 0
00415 R 042045 R   DAC      TEMP2      /STORE SELECTED TTY'S PRINT BUFFER
00416 R 220414 R   LAC*    PRTCHR
00417 R 042073 R   DAC      UNIT        /STORE FAILING UNIT NO,
00420 R 440414 R   ISZ    PRTCHR
00421 R 222045 R   LAC*    TEMP2
00422 R 042046 R   DAC      TEMP3      /=TO PRINT TABLE ADDRESS POINTER
00423 R 202044 R   LAC      TEMP1      /SCANNER DATA
00424 R 502115 R   AND     (377        /MASK 'CHARACTER' BITS,
00425 R 741200 A   SNA
00426 R 600432 R   JMP     ,+4          /=TO '0' FROM RESTARTED TTY?
00427 R 562046 R   SAD*   TEMP3        /YES, DON'T COMPARE DATA,
00430 R 741000 A   SKP
00431 R 101744 R   JMS    ERROR1      /SAME AS TRANSMITTED DATA?
00432 R 462045 R   ISZ*   TEMP2        /YES, CONTINUE
00433 R 222045 R   LAC*   TEMP2        /NO, DATA TRANSMIT ERROR
00434 R 042046 R   DAC    TEMP3        /INCREMENT TABLE POINTER
00435 R 222046 R   LAC*   TEMP3
00436 R 741200 A   SNA
00437 R 600445 R   JMP    RESETP      /=TO NEXT CHARACTER TO BE TRANSMITTED
00440 R 202044 R   LAC    TEMP1        /END OF TABLE?
00441 R 502107 R   AND    (7000        /YES, RESET TABLE POINTER
00442 R 362046 R   TAD*   TEMP3        /ORIGINAL SCANNER DATA
00443 R 342116 R   TAD    (400         /MASK SCANNER ADDRESS
00444 R 620414 R   JMP*   PRTCHR      /ADD 'NEW' CHARACTER
                                /=TO CLEAR THE 'TR' FLAG,
                                /
                                /RESET PRINT TABLE POINTER
                                /
00445 R 202117 R   RESETP LAC    (PRTTAB
00446 R 062045 R   DAC*   TEMP2      /RELOAD PRINT TABLE
00447 R 600433 R   JMP    PRCHR1
                                /
                                /DISABLE SCANNER AND CLEAR ALL FLAGS,
                                /
00450 R 000000 A   DISFLG 0
00451 R 401620 R   XCT    DIS1        /UNIT #1
00452 R 401621 R   XCT    DIS2        /UNIT #2
00453 R 401622 R   XCT    DIS3        /UNIT #3
00454 R 401623 R   XCT    DIS4        /UNIT #4
00455 R 620450 R   JMP*   DISFLG
                                ,EJECT

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/CHECK THE RECEIVER DATA FROM UNIT #1'S SILENT TELETYPE AND ENABLE THE
/"ECHO HOLD" MODE IF "CNTR A" IS TYPED.

| | | | | |
|------------------|--------|------|----------|--|
| 00456 R 202020 R | CKREC1 | LAC | SILSW1 | |
| 00457 R 740200 A | | SZA | | /HAS SILENT TTY BEEN SET UP? |
| 00460 R 600526 R | | JMP | CLRFG1 | /NO, CLEAR TTY FLAG, |
| 00461 R 202101 R | | LAC | (REC1 | |
| 00462 R 042060 R | | DAC | TYPDATA | /=TO THE ADDRESS TO 'ECHO' UNIT #1, |
| 00463 R 202120 R | | LAC | (CLRFG1 | |
| 00464 R 042057 R | | DAC | CKREC | /=TO THE ADDRESS TO 'UNIT' REC, ROUTINE |
| 00465 R 202121 R | | LAC | (KSTOR4 | |
| 00466 R 042050 R | | DAC | TEMP5 | /ADDRESS TO STORE SELECTED SCANNER ADDR, |
| 00467 R 202074 R | | LAC | (ACTIV1 | |
| 00470 R 042051 R | | DAC | TEMP6 | |
| 00471 R 202122 R | | LAC | (ECHO1 | |
| 00472 R 042052 R | | DAC | TEMP7 | |
| 00473 R 202123 R | | LAC | (LOOPA | |
| 00474 R 042056 R | | DAC | TEMP11 | |
| 00475 R 202044 R | | LAC | TEMP1 | /RESTORE SCANNER DATA |
| 00476 R 502115 R | | AND | (377 | /MASK CHARACTER 'BITS', |
| 00477 R 542124 R | | SAD | (201 | /WAS "CNTR A" TYPED? |
| 00500 R 741000 A | | SKP | | |
| 00501 R 620514 R | | JMP* | DSTSW1 | /NO, CONTINUE |
| 00502 R 202010 R | | LAC | ECHO1 | |
| 00503 R 740200 A | | SZA | | /IS "ECHO HOLD" ACTIVE? |
| 00504 R 620514 R | | JMP* | DSTSW1 | /YES, IGNORE ALL "CNTR A'S" |
| 00505 R 777777 A | | LAW | =1 | |
| 00506 R 042010 R | | DAC | ECHO1 | /NO, ENABLE "ECHO HOLD", |
| 00507 R 042037 R | | DAC | KSTOR4 | |
| 00510 R 202125 R | | LAC | (DECODE | |
| 00511 R 040514 R | | DAC | DSTSW1 | /SET UP TO DECODE SELECTED TTY, |
| 00512 R 202126 R | | LAC | (243 | /TYPE '#' TO INDICATE 'ECHO HOLD' MODE |
| 00513 R 600515 R | | JMP | REC1 | |
| 00514 R 000000 A | DSTSW1 | | | |
| 00515 R 042047 R | REC1 | DAC | TEMP4 | /SAVE CHARACTER TO BE TRANSMITTED |
| 00516 R 202044 R | | LAC | TEMP1 | |
| 00517 R 502107 R | | AND | (7000 | /MASK SCANNER ADDRESS |
| 00520 R 342047 R | | TAD | TEMP4 | /ADD CHARACTER |
| 00521 R 342116 R | | TAD | (400 | /=TO CLEAR THE 'TR' FLAG, |
| 00522 R 401640 R | | XCT | SLS1 | /TRANSMIT |
| 00523 R 777777 A | | LAW | =1 | |
| 00524 R 042020 R | | DAC | SILSW1 | |
| 00525 R 600304 R | | JMP | CHKTRN+1 | /EXIT |
| 00526 R 142020 R | CLRFG1 | DZM | SILSW1 | |
| 00527 R 401634 R | | XCT | STS1 | /CLEAR SILENT TTY FLAG, |
| 00530 R 600304 R | | JMP | CHKTRN+1 | |
| | | | ,EJECT | |

/CHECK THE RECEIVER DATA FROM UNIT "2'S SILENT TELETYPE AND
/ENABLE THE "ECHO HOLD" MODE IF "CNTR A" IS TYPED,

00531 R 202021 R
00532 R 740200 A
00533 R 600601 R
00534 R 202102 R
00535 R 042060 R
00536 R 202127 R
00537 R 042057 R
00540 R 202130 R
00541 R 042050 R
00542 R 202075 R
00543 R 042051 R
00544 R 202131 R
00545 R 042052 R
00546 R 202132 R
00547 R 042056 R
00550 R 202044 R
00551 R 502115 R
00552 R 542124 R
00553 R 741000 A
00554 R 620567 R
00555 R 202011 R
00556 R 740200 A
00557 R 620567 R
00560 R 777777 A
00561 R 042011 R
00562 R 042040 R
00563 R 202125 R
00564 R 040567 R
00565 R 202126 R
00566 R 600570 R
00567 R 000000 A

00570 R 042047 R
00571 R 202044 R
00572 R 502107 R
00573 R 342047 R
00574 R 342116 R
00575 R 401641 R
00576 R 777777 A
00577 R 042021 R
00600 R 600326 R

00601 R 142021 R
00602 R 401635 R
00603 R 600326 R

CKREC2 LAC SILSW2
/ SZA
JMP CLRFG2
LAC (REC2
DAC TYPDATA
LAC (CLRFG2
DAC CKREC
LAC (KSTOR5
DAC TEMP5
LAC (ACTIV2
DAC TEMP6
LAC (ECHO2
DAC TEMP7
LAC (LOOPB
DAC TEMP11
LAC TEMP1
AND (377
SAD (201
SKP
JMP* DSTSW2
LAC ECHO2
SZ
JMP* DSTSW2
LAW =1
DAC ECHO2
DAC KSTOR5
LAC (DECODE
DAC DSTSW2
LAC (243
JMP REC2
DSTSW2 0
/
REC2 DAC TEMP4
LAC TEMP1
AND (7000
TAD TEMP4
TAD (400
XCT SLS2
LAW =1
DAC SILSW2
JMP CHKTR2
/
CLRFG2 DZM SILSW2
XCT STS2
JMP CHKTR2
EJECT

/ADDRESS TO STORE SELECTED SCANNER ADDR,

/RESTORE SCANNER DATA
/MASK CHARACTER
/WAS 'CNTR A' TYPED?

/NO, CONTINUE

/IS "ECHO HOLD" ACTIVE?
/YES, IGNORE ALL "CNTR A'S",

/NO, ENABLE "ECHO HOLD"

/SET UP TO DECODE SELECTED TTY,
/TYPE '#' TO INDICATE 'ECHO HOLD' MODE

/SAVE CHARACTER TO BE TRANSMITTED

/MASK SCANNER ADDRESS
/ADD CHARACTER
/SET CLEAR THE 'TR' FLAG,
/TRANSMIT

/EXIT

/CHECK THE RECEIVER DATA FROM UNIT #3'S SILENT TELETYPE
/AND ENABLE THE "ECHO HOLD" MODE IF "CNTR A" IS TYPED,

00604 R 202022 R
00605 R 740200 A
00606 R 600654 R
00607 R 202103 R
00610 R 042060 R
00611 R 202133 R
00612 R 042057 R
00613 R 202134 R
00614 R 042050 R
00615 R 202076 R
00616 R 042051 R
00617 R 202135 R
00620 R 042052 R
00621 R 202136 R
00622 R 042056 R
00623 R 202044 R
00624 R 502115 R
00625 R 542124 R
00626 R 741000 A
00627 R 620642 R
00630 R 202012 R
00631 R 740200 A
00632 R 620642 R
00633 R 777777 A
00634 R 042012 R
00635 R 042041 R
00636 R 202125 R
00637 R 040642 R
00640 R 202126 R
00641 R 600643 R
00642 R 000000 A
00643 R 042047 R
00644 R 202044 R
00645 R 502107 R
00646 R 342047 R
00647 R 342116 R
00650 R 401642 R
00651 R 777777 A
00652 R 042022 R
00653 R 600350 R
00654 R 142022 R
00655 R 401636 R
00656 R 600350 R

CKREC3 /
LAC SILSW3
SZA
JMP CLRFG3
LAC (REC3
DAC TYPDATA
LAC (CLRFG3
DAC CKREC
LAC (KSTOR6
DAC TEMP5
LAC (ACTIV3
DAC TEMP6
LAC (ECHO3
DAC TEMP7
LAC (LOOPC
DAC TEMP11
LAC TEMP1
AND (377
SAD (201
SKP
JMP* DSTSW3
LAC ECHO3
SZA
JMP* DSTSW3
LAW =1
DAC ECHO3
DAC KSTOR6
LAC (DECODE
DAC DSTSW3
LAC (243
JMP REC3
DSTSW3 0
/
REC3 DAC TEMP4
LAC TEMP1
AND (7000
TAD TEMP4
TAD (400
XCT SLS3
LAW =1
DAC SILSW3
JMP CHKTR3
/
CLRFG3 DZM SILSW3
XCT STS3
JMP CHKTR3
,EJECT

/=TO THE ADDRESS TO "ECHO" UNIT #3,

/MASK CHARACTER BITS
/WAS "CNTR A" TYPED?

/NO, CONTINUE
/YES
/IS "ECHO HOLD" ACTIVE?
/YES, IGNORE ALL "CNTR A'S",
/NO, ENABLE "ECHO HOLD"

/SAVE CHARACTER TO BE TRANSMITTED

/MASK SCANNER ADDRESS

/TRANSMIT

/EXIT

/CHECK THE RECEIVER DATA FROM UNIT #4'S SILENT TELETYPE,
/AND ENABLE THE "ECHO HOLD" MODE IF "CNTR A2 IS TYPED,

00657 R 202023 R
00660 R 740200 A
00661 R 600727 R
00662 R 202104 R
00663 R 042060 R
00664 R 202137 R
00665 R 042057 R
00666 R 202140 R
00667 R 042050 R
00670 R 202077 R
00671 R 042051 R
00672 R 202141 R
00673 R 042052 R
00674 R 202142 R
00675 R 042056 R
00676 R 202044 R
00677 R 502115 R
00700 R 542124 R
00701 R 741000 A
00702 R 620715 R
00703 R 202013 R
00704 R 740200 A
00705 R 620715 R
00706 R 777777 A
00707 R 042013 R
00710 R 042043 R
00711 R 202125 R
00712 R 040715 R
00713 R 202126 R
00714 R 600716 R
00715 R 000000 A

00716 R 042047 R
00717 R 202044 R
00720 R 502107 R
00721 R 342047 R
00722 R 342116 R
00723 R 401643 R
00724 R 777777 A
00725 R 042023 R
00726 R 600372 R

00727 R 142023 R
00730 R 401637 R
00731 R 600372 R

CKREC4 /
LAC SILSW4
SZA
JMP CLRFG4
LAC (REC4
DAC TYPDATA
LAC (CLRFG4
DAC CKREC
LAC (KSTOR8
DAC TEMP5
LAC (ACTIV4
DAC TEMP6
LAC (ECHO4
DAC TEMP7
LAC (LOOPD
DAC TEMP11
LAC TEMP1
AND (377
SAD (201
SKP
JMP* DSTSW4
LAC ECHO4
SZA
JMP* DSTSW4
LAW =1
DAC ECHO4
DAC KSTOR8
LAC (DECODE
DAC DSTSW4
LAC (243
JMP REC4

DSTSW4 0
/
REC4 DAC TEMP4
LAC TEMP1
AND (7000
TAD TEMP4
TAD (400
XCT SILS4
LAW =1
DAC SILSW4
JMP CHKTR4
/
CLRFG4 DZM SILSW4
XCT STS4
JMP CHKTR4
.EJECT

/=TO THE ADDRESS TO "ECHO" UNIT #4.

/MASK CHARACTER BITS,
/WAS "CNTR A" TYPED?

/NO, CONTINUE
/YES
/IS "ECHO HOLD" ACTIVE?
/YES, IGNORE ALL "CNTR A'S",

/NO, ENABLE "ECHO HOLD",

/SAVE CHARACTER TO BE TRANSMITTED.

/MASK SCANNER ADDRESS

/TRANSMIT

/EXIT

/DECODE THE SELECTED TELETYPE OF ALL UNITS

```

00732 R 542106 R   DECODE  SAD      (215           /WAS 'GR' TYPED TO TERMINATE?
00733 R 600764 R   JMP      DECODA          /YES, CHECK SELECTED TELETYPE?
00734 R 542115 R   SAD      (377           /WAS RUBOUT TYPED?
00735 R 600760 R   JMP      RUBOUT          /YES, DELETE LAST CHARACTER,
00736 R 042054 R   DAC      TEMP9           /SAVE CHARACTER
00737 R 502143 R   AND      (7
00740 R 042053 R   DAC      TEMP8
00741 R 202144 R   LAC      (NOTABL=1         /ADDRESS OF CHARACTER TABLE
00742 R 042055 R   DAC      TEMP10
00743 R 442055 R   ISZ     TEMP10
00744 R 222055 R   LAC*    TEMP10
00745 R 542054 R   SAD      TEMP9           /=TO SELECTED NO.
00746 R 600754 R   JMP      CMPUTE          /YES
00747 R 542145 R   SAD      (267           /END OF TABLE?
00750 R 741000 A   SKP
00751 R 600743 R   JMP      ,=6             /YES, ILLEGAL CHARACTER
00752 R 202146 R   TYPEQM  LAC      (277           /TYPE '?!'
00753 R 622060 R   JMP*    TYPDATA
/
00754 R 202053 R   CMPUTE  LAC      TEMP8
00755 R 062050 R   DAC*    TEMP5           /STORE NO.
00756 R 202054 R   LAC      TEMP9
00757 R 622060 R   JMP*    TYPDATA          /ECHO BACK THE 'NO.'
/
00760 R 777777 A   RUBOUT  LAW      =1
00761 R 062050 R   DAC*    TEMP5
00762 R 202147 R   LAC      (257           /TYPE A '/' TO INDICATE RUBOUT.
00763 R 622060 R   JMP*    TYPDATA
/
/ON TERMINATING CHECK THE SELECTED TELETYPE FOR BEING AVAILABLE
/
00764 R 222050 R   DECODA  LAC*    TEMP5
00765 R 542150 R   SAD      (=1           /WAS A CHANNEL SELECTED?
00766 R 600776 R   JMP      TAGA           /NO, CLEAR "ECHO HOLD" ACTIVE
00767 R 222051 R   LAC*    TEMP6           /=TO UNITS "ACTIVE" BUFFER
00770 R 562050 R   SAD*    TEMP5           /=TO SELECTED TELETYPE?
00771 R 600776 R   JMP      TAGA           /YES, EXIT
00772 R 542150 R   SAD      (=1           /END OF "ACTIVE" TABLE?
00773 R 600752 R   JMP      TYPEQM        /YES, ILLEGAL TTY SELECTED, TYPE '?!'
00774 R 442051 R   ISZ     TEMP6
00775 R 600767 R   JMP      ,=6
00776 R 162052 R   TAGA   DZM*    TEMP7           /CLEAR "ECHO"
00777 R 777777 A   LAW      =1
01000 R 062056 R   DAC*    TEMP11          /SET 'LOOP' COUNTER TO EXIT NEXT PASS
01001 R 622057 R   JMP*    CKREC
/
,EJECT

```

/ROUTINE TO FLOAT '1' TELETYPE ON UNIT #1 WHILE TYPING ON ALL OTHERS

```

01002 R 000000 A   FLOAT1  0
01003 R 766000 A       LAW      =12000
01004 R 042061 R       DAC      LOOPA      /REINITIALIZE LOOP COUNTER
01005 R 042020 R       DAC      SILSW1     /SET 'SILENT' SWITCH,
01006 R 201473 R       LAC      ACTI1      /IS THIS UNIT 'ACTIVE'?
01007 R 542150 R       SAD      (=1
01010 R 621002 R       JMP*     FLOAT1    /NO, NO TTY'S
01011 R 202101 R       LAC      (REC1
01012 R 040514 R       DAC      DSTSW1    /REINITIALIZE THE 'RECEIVER' TEST
01013 R 202014 R       LAC      SILTT1
01014 R 101654 R       JMS      ROT9L
01015 R 042045 R       DAC      TEMP2     /SET UP THE 'CURRENT' SILENT TTY
01016 R 202037 R       LAC      KSTOR4
01017 R 542150 R       SAD      (=1
01020 R 741000 A       SKP
01021 R 601060 R       JMP      SELECT1  /YES, ECHO SELECTED TELETYPE,
01022 R 222034 R       LAC*     KSTOR1
01023 R 542150 R       SAD      (=1
01024 R 101036 R       JMS      SETAV1    /END OF "ACTIVE" TABLE?
01025 R 222034 R       LAC*     KSTOR1    /YES, RESET "ACTIVE" TABLE
01026 R 042014 R       DAC      SILTT1    /GET NEXT TTY TO BE ECHOED
01027 R 442034 R       ISZ      KSTOR1
01030 R 202045 R       FLT1A  LAC      TEMP2
01031 R 542151 R       SAD      (777000
01032 R 601035 R       JMP      ,+3
01033 R 342116 R       TAD      (400
01034 R 401640 R       XCT      SLS1
01035 R 621002 R       JMP*     FLOAT1    /IS ANY TTY NOW SILENT?
                                     /NO, EXIT,
                                     /=TO CLEAR THE 'TR' FLAG,
                                     /RESTART SILENT TTY
                                     .EJECT

```

```

01036 R 000000 A      SETAV1 0
01037 R 202074 R      LAC      (ACTIV1
01040 R 042034 R      DAC      KSTOR1
01041 R 201474 R      LAC      ACTIV1+1
01042 R 542150 R      SAD      (=1      /IS ONLY '1' TELETYPE AVAILABLE?
01043 R 741000 A      SKP
01044 R 621036 R      JMP*   SETAV1      /NO, EXIT
01045 R 202030 R      LAC      LONE1      /YES
01046 R 740001 A      CMA
01047 R 042030 R      DAC      LONE1
01050 R 751200 A      SNA!CLA      /FLOAT TTY?
01051 R 202151 R      LAC      (777000      /YES, FLOAT TTY
01052 R 042045 R      DAC      TEMP2      /NO, RESTART TTY
01053 R 740200 A      SZA
01054 R 621036 R      JMP*   SETAV1
01055 R 777777 A      LAW      =1
01056 R 042014 R      DAC      SILTT1
01057 R 621036 R      JMP*   SETAV1
01060 R 142061 R      SELCT1 DZM      LOOPA
01061 R 202037 R      LAC      KSTOR4      /=TO SELECTED TELETYPE
01062 R 042014 R      DAC      SILTT1
01063 R 101654 R      JMS      ROT9L
01064 R 542045 R      SAD      TEMP2      /IS SELECTED TTY ALREADY SILENT?
01065 R 621002 R      JMP*   FLOAT1      /YES, IGNORE AND EXIT.
01066 R 601030 R      JMP      FLT1A
      ,EJECT

```


/ROUTINE TO FLOAT '1' TELETYPE ON UNIT #2 WHILE TYPEING ON ALL OTHERS,

```

01067 R 000000 A   FLOAT2 0
01070 R 774000 A   LAW      =4000
01071 R 042062 R   DAC      LOOPB   /REINITIALIZE LOOP COUNTER
01072 R 042021 R   DAC      SILSW2  /SET 'SILENT' SWITCH,
01073 R 201504 R   LAC      ACTIV2
01074 R 542150 R   SAD      (=1    /IS THIS UNIT 'ACTIVE'?
01075 R 621067 R   JMP*    FLOAT2  /NO, NO TTY'S
01076 R 202102 R   LAC      (REC2
01077 R 040567 R   DAC      DSTSW2
01100 R 202015 R   LAC      SILTT2  /=TO NO, OF SILENT TTY,
01101 R 101654 R   JMS     ROT9L
01102 R 042045 R   DAC      TEMP2   /SET UP TO RESTART TTY,
01103 R 202040 R   LAC      KSTOR5
01104 R 542150 R   SAD      (=1    /IS "ECHO HOLD" MODE SELECTED?
01105 R 741000 A   SKP
01106 R 601145 R   JMP     SELECT2 /YES, ECHO SELECTED TELETYPE,
01107 R 222035 R   LAC*   KSTOR2
01110 R 542150 R   SAD      (=1    /END OF "ACTIVE" TABLE?
01111 R 101123 R   JMS     SETAV2  /YES, RESET 'ACTIVE' TABLE
01112 R 222035 R   LAC*   KSTOR2  /GET NEXT TTY TO BE SELECTED,
01113 R 042015 R   DAC      SILTT2
01114 R 442035 R   ISZ    KSTOR2
01115 R 202045 R   LAC      TEMP2
01116 R 542151 R   SAD      (777000 /IS A TTY NOW SILENT?
01117 R 601122 R   JMP     ,+3    /NO, EXIT
01120 R 342116 R   TAD    (400   /=TO CLEAR THE 'TR' FLAG,
01121 R 401641 R   XCT    SILS2  /YES, RESTART SILENT TTY,
01122 R 621067 R   JMP*   FLOAT2
      .EJECT

```

FLT2A

```

01123 R 000000 A   SETAV2 0
01124 R 202075 R   LAC      (ACTIV2
01125 R 042035 R   DAC      KSTOR2
01126 R 201505 R   LAC      ACTIV2+1
01127 R 542150 R   SAD      (-1           /IS ONLY '1' TELETYPE AVAILABLE?
01130 R 741000 A   SKP
01131 R 621123 R   JMP*    SETAV2         /NO, EXIT
01132 R 202031 R   LAC      LONE2
01133 R 740001 A   CMA
01134 R 042031 R   DAC      LONE2
01135 R 751200 A   SNA:CLA
01136 R 202151 R   LAC      (777000
01137 R 042045 R   DAC      TEMP2
01140 R 740200 A   SZA
01141 R 621123 R   JMP*    SETAV2
01142 R 777777 A   LAW      -1
01143 R 042015 R   DAC      SILTT2
01144 R 621123 R   JMP*    SETAV2
01145 R 142062 R   SELCT2  DZM      LOOPB
01146 R 202040 R   LAC      KSTOR2         /=TO SELECTED TELETYPE
01147 R 042015 R   DAC      SILTT2
01150 R 101654 R   JMS      ROT9L
01151 R 542045 R   SAD      TEMP2
01152 R 621067 R   JMP*    FLOAT2
01153 R 601115 R   JMP      FLT2A
          .EJECT

```

/ROUTINE TO FLOAT '1' TELETYPE ON UNIT #3 WHILE TYPING ON ALL OTHERS,

```

01154 R 000000 A
01155 R 766000 A
01156 R 042063 R
01157 R 042022 R
01160 R 201515 R
01161 R 542150 R
01162 R 621154 R
01163 R 202103 R
01164 R 040642 R
01165 R 202016 R
01166 R 101654 R
01167 R 042045 R
01170 R 202041 R
01171 R 542150 R
01172 R 741000 A
01173 R 601232 R
01174 R 222036 R
01175 R 542150 R
01176 R 101210 R
01177 R 222036 R
01200 R 042016 R
01201 R 442036 R
01202 R 202045 R
01203 R 542151 R
01204 R 601207 R
01205 R 342116 R
01206 R 401642 R
01207 R 621154 R

FLOAT3 /
LAW =12000
DAC LOOPC
DAC SILSW3 /REINITIALIZE LOOP COUNTER
LAC ACTIV3 /SET 'SILENT' SWITCH,
SAD (=1 /IS THIS UNIT 'ACTIVE'?
JMP* FLOAT3 /NO, NO TTY'S
LAC (REC3
DAC DSTSW3
LAC SILTT3
JMS ROT9L
DAC TEMP2
LAC KSTOR6
SAD (=1 /IS "ECHO HOLD" MODE SELECTED?
JMP SELCT3 /YES, ECHO SELECTED TELETYPE
LAC* KSTOR3
SAD (=1 /END OF "ACTIVE" TABLE?
JMS SETAV3 /YES, RESET "ACTIVE" TABLE,
LAC* KSTOR3 /GET NEXT TTY TO BE ECHOED,
DAC SILTT3
ISZ KSTOR3
LAC TEMP2
SAD (777000 /IS A TTY NOW SILENT?
JMP ,+3 /NO, EXIT
TAD (400 /=TO CLEAR THE 'TR' FLAG,
XCT SLS3 /YES, RESTART SILENT TTY,
JMP* FLOAT3
EJECT

```

```

01210 R 020000 A   SETAV3 0
01211 R 202076 R   LAC      (ACTIV3
01212 R 042036 R   DAC      KSTOR3
01213 R 201516 R   LAC      ACTIV3+1
01214 R 542150 R   SAD      (=1      /THIS THE ONLY TTY AVAILABLE?
01215 R 741000 A   SKP
01216 R 621210 R   JMP*   SETAV3      /NO, EXIT
01217 R 202032 R   LAC      LONE3
01220 R 740001 A   CMA
01221 R 042032 R   DAC      LONE3
01222 R 751200 A   SNA:CLA
01223 R 202151 R   LAC      (777000 /FLOAT TTY?
01224 R 042045 R   DAC      TEMP2    /YES, FLOAT TTY
01225 R 740200 A   SZA
01226 R 621210 R   JMP*   SETAV3    /NO, RESTART TTY,
01227 R 777777 A   LAW      -1
01230 R 042016 R   DAC      SILTT3
01231 R 621210 R   JMP*   SETAV3
01232 R 142063 R   SELECT3 DZM      LOOPC
01233 R 202041 R   LAC      KSTOR6    /=TO SELECTED TELETYPE
01234 R 042016 R   DAC      SILTT3
01235 R 101654 R   JMS      ROT9L
01236 R 542045 R   SAD      TEMP2    /IS SELECTED TTY ALREADY SILENT
01237 R 621154 R   JMP*   FLOAT3    /YES, EXIT
01240 R 601202 R   JMP      FLT3A    /NO, RESTART LAST TTY,
/Routine TO FLOAT '1' TELETYPE ON UNIT #1 WHILE TYPING ON ALL OTHERS.
/
01241 R 000000 A   FLOAT4 0
01242 R 766000 A   LAW      -12000
01243 R 042064 R   DAC      LOOPD    /REINITIALIZE LOOP COUNTER,
01244 R 042023 R   DAC      SILSW4
01245 R 201526 R   LAC      ACTIV4
01246 R 542150 R   SAD      (=1      /IS THIS UNIT 'ACTIVE'?
01247 R 621241 R   JMP*   FLOAT4    /NO, NO TTY'S
01250 R 202104 R   LAC      (REC4
01251 R 040715 R   DAC      DSTSW4
01252 R 202017 R   LAC      SILTT4
01253 R 101654 R   JMS      ROT9L
01254 R 042045 R   DAC      TEMP2
01255 R 202043 R   LAC      KSTOR8
01256 R 542150 R   SAD      (=1      /IS "ECHO HOLD" MODE SELECTED?
01257 R 741000 A   SKP
01260 R 601317 R   JMP      SELECT4 /NO, CONTINUE
01261 R 222042 R   LAC*   KSTOR7    /YES, ECHO SELECTED TELETYPE,
01262 R 542150 R   SAD      (=1
01263 R 101275 R   JMS      SETAV4  /END OF "ACTIVE2 TABLE?
01264 R 222042 R   LAC*   KSTOR7    /YES, RESET "ACTIVE" TABLE,
01265 R 042017 R   DAC      SILTT4  /GET NEXT TTY TO BE ECHOED?
01266 R 442042 R   ISZ      KSTOR7
01267 R 202045 R   FLT4A  LAC      TEMP2
01270 R 542151 R   SAD      (777000 /IS A TTY NOW SILENT?
01271 R 601274 R   JMP      ,+3     /NO, EXIT
01272 R 342116 R   TAD      (400    /=TO CLEAR THE 'TR' FLAG,

```

01273 R 401643 R
01274 R 621241 R

XCT SLS4
JMP* FLOAT4
,EJECT

/YES, RESTART SILENT TTY.

```

01275 R 000000 A   SETAV4 0
01276 R 202077 R   LAC      (ACTIV4
01277 R 042042 R   DAC      KSTOR7
01300 R 201527 R   LAC      ACTIV4+1
01301 R 542150 R   SAD      (-1           /THIS THE ONLY TTY AVAILABLE?
01302 R 741000 A   SKP
01303 R 621275 R   JMP*    SETAV4         /NO, EXIT
01304 R 202033 R   LAC      LONE4
01305 R 740001 A   CMA
01306 R 042033 R   DAC      LONE4
01307 R 751200 A   SNAICLA
01310 R 202151 R   LAC      (777000
01311 R 042045 R   DAC      TEMP2         /FLOAT TTY?
01312 R 740200 A   SZA           /YES, FLOAT TTY
01313 R 621275 R   JMP*    SETAV4         /NO, RESTART TTY.
01314 R 777777 A   LAW      -1
01315 R 042017 R   DAC      SILTT4
01316 R 621275 R   JMP*    SETAV4
01317 R 142064 R   SELCT4 DZM      LOOPD
01320 R 202043 R   LAC      KSTOR8
01321 R 042017 R   DAC      SILTT4
01322 R 101654 R   JMS      ROT9L
01323 R 542045 R   SAD      TEMP2
01324 R 621241 R   JMP*    FLOAT4
01325 R 601267 R   JMP      FLT4A
          .EJECT

```

/TRANSMIT A CHARACTER TO INITIALIZE ALL TELEPRINTERS.

```

01326 R 000000 A   TRNSMT  /
01327 R 777740 A       LAW      -40
01330 R 042044 R       DAC      TEMP1      /=TO '32' TELETYPES
01331 R 202152 R       LAC      (SCNTAB
01332 R 042045 R       DAC      TEMP2      /= TO SCANNER ADDRESS TABLE
01333 R 222045 R   TRNS1  LAC*    TEMP2      /SCANNER ADDRESS
01334 R 542150 R       SAD      (-1        /END OF TABLE?
01335 R 621326 R       JMP*    TRNSMT    /YES, EXIT
01336 R 342046 R       TAD      TEMP3      /=TO CHAR, TO BE TRANSMITTED,
01337 R 401640 R       XCT      SLS1      /TRANSMIT TO UNIT #1
01340 R 401641 R       XCT      SLS2      /UNIT #2
01341 R 401642 R       XCT      SLS3      /UNIT #3
01342 R 401643 R       XCT      SLS4      /UNIT #4
01343 R 442045 R       ISZ      TEMP2      /INCREMENT SCANNER ADDRESS
01344 R 601333 R       JMP      TRNS1

```

/SET UP THE 'ASCII' CHARACTER TABLE FOR ALL TELEPRINTERS.

```

01345 R 000000 A   SETPRT  /
01346 R 777740 A       LAW      -40
01347 R 042044 R       DAC      TEMP1
01350 R 202111 R       LAC      (TABLE1    /UNIT #1 CHARACTER TABLE
01351 R 042045 R       DAC      TEMP2
01352 R 202117 R       LAC      (PRTTAB    /=TO THE ADDRESS OF 'CHARACTER' BUFFER
01353 R 062045 R       DAC*    TEMP2      /INITIALIZE ALL '32' TTY'S,
01354 R 442045 R       ISZ      TEMP2      /INCREMENT TABLE POINTER
01355 R 442044 R       ISZ      TEMP1
01356 R 601353 R       JMP      ,=3
01357 R 621345 R       JMP*    SETPRI
          .EJECT

```

/CHARACTER EQUIVALENCE TABLE

| | | | | | | | |
|-------|---|--------|---|--------|-----|---|-----------|
| 01360 | R | 000212 | A | PRTTAB | 212 | / | LINE FEED |
| 01361 | R | 000304 | A | | 304 | / | D |
| 01362 | R | 000303 | A | | 303 | / | C |
| 01363 | R | 000317 | A | | 317 | / | O |
| 01364 | R | 000261 | A | | 261 | / | 1 |
| 01365 | R | 000255 | A | | 255 | / | T |
| 01366 | R | 000305 | A | | 305 | / | E |
| 01367 | R | 000302 | A | | 302 | / | B |
| 01370 | R | 000240 | A | | 240 | / | SPACE |
| 01371 | R | 000301 | A | | 301 | / | A |
| 01372 | R | 000302 | A | | 302 | / | B |
| 01373 | R | 000303 | A | | 303 | / | C |
| 01374 | R | 000304 | A | | 304 | / | D |
| 01375 | R | 000305 | A | | 305 | / | E |
| 01376 | R | 000306 | A | | 306 | / | F |
| 01377 | R | 000307 | A | | 307 | / | G |
| 01400 | R | 000310 | A | | 310 | / | H |
| 01401 | R | 000311 | A | | 311 | / | I |
| 01402 | R | 000312 | A | | 312 | / | J |
| 01403 | R | 000313 | A | | 313 | / | K |
| 01404 | R | 000314 | A | | 314 | / | L |
| 01405 | R | 000315 | A | | 315 | / | M |
| 01406 | R | 000316 | A | | 316 | / | N |
| 01407 | R | 000317 | A | | 317 | / | O |
| 01410 | R | 000320 | A | | 320 | / | P |
| 01411 | R | 000321 | A | | 321 | / | Q |
| 01412 | R | 000322 | A | | 322 | / | R |
| 01413 | R | 000323 | A | | 323 | / | S |
| 01414 | R | 000324 | A | | 324 | / | T |
| 01415 | R | 000325 | A | | 325 | / | U |
| 01416 | R | 000326 | A | | 326 | / | V |
| 01417 | R | 000327 | A | | 327 | / | W |
| 01420 | R | 000330 | A | | 330 | / | X |
| 01421 | R | 000331 | A | | 331 | / | Y |
| 01422 | R | 000332 | A | | 332 | / | Z |
| 01423 | R | 000240 | A | | 240 | / | SPACE |
| 01424 | R | 000260 | A | N0TABL | 260 | / | 0 |
| 01425 | R | 000261 | A | | 261 | / | 1 |
| 01426 | R | 000262 | A | | 262 | / | 2 |
| 01427 | R | 000263 | A | | 263 | / | 3 |
| 01430 | R | 000264 | A | | 264 | / | 4 |
| 01431 | R | 000265 | A | | 265 | / | 5 |
| 01432 | R | 000266 | A | | 266 | / | 6 |
| 01433 | R | 000267 | A | | 267 | / | 7 |
| 01434 | R | 000270 | A | | 270 | / | 8 |
| 01435 | R | 000271 | A | | 271 | / | 9 |
| | | | | | | / | EJECT |

| | | | | | |
|-------|---|--------|---|-----|-------------------|
| 01436 | R | 000240 | A | 240 | / SPACE |
| 01437 | R | 000241 | A | 241 | / ! |
| 01440 | R | 000242 | A | 242 | / " |
| 01441 | R | 000243 | A | 243 | / # |
| 01442 | R | 000244 | A | 244 | / \$ |
| 01443 | R | 000245 | A | 245 | / % |
| 01444 | R | 000246 | A | 246 | / & |
| 01445 | R | 000247 | A | 247 | / ' |
| 01446 | R | 000250 | A | 250 | / (|
| 01447 | R | 000251 | A | 251 | /) |
| 01450 | R | 000252 | A | 252 | / * |
| 01451 | R | 000253 | A | 253 | / + |
| 01452 | R | 000254 | A | 254 | / , |
| 01453 | R | 000256 | A | 256 | / ; |
| 01454 | R | 000257 | A | 257 | / / |
| 01455 | R | 000272 | A | 272 | / : |
| 01456 | R | 000273 | A | 273 | / ; |
| 01457 | R | 000274 | A | 274 | / < |
| 01460 | R | 000275 | A | 275 | / = |
| 01461 | R | 000276 | A | 276 | / > |
| 01462 | R | 000277 | A | 277 | / ? |
| 01463 | R | 000300 | A | 300 | / @ |
| 01464 | R | 000333 | A | 333 | / [|
| 01465 | R | 000334 | A | 334 | / \ |
| 01466 | R | 000335 | A | 335 | /] |
| 01467 | R | 000336 | A | 336 | / ^ |
| 01470 | R | 000337 | A | 337 | / + |
| 01471 | R | 000215 | A | 215 | / CARRIAGE RETURN |
| 01472 | R | 000000 | A | 0 | |

| | | | | | |
|-------|---|--|---|--------|-----------|
| 01473 | R | | A | ACTIV1 | ,BLOCK 11 |
| 01504 | R | | A | ACTIV2 | ,BLOCK 11 |
| 01515 | R | | A | ACTIV3 | ,BLOCK 11 |
| 01526 | R | | A | ACTIV4 | ,BLOCK 11 |
| 01537 | R | | A | TABLE1 | ,BLOCK 10 |
| 01547 | R | | A | TABLE2 | ,BLOCK 10 |
| 01557 | R | | A | TABLE3 | ,BLOCK 10 |
| 01567 | R | | A | TABLE4 | ,BLOCK 10 |

/SCANNER ADDRESS TABLE

| | | | | | | |
|-------|---|--------|---|--------|--------|---------|
| 01577 | R | 000000 | A | SCNTAB | 0 | /TTY #0 |
| 01600 | R | 001000 | A | | 1000 | /#1 |
| 01601 | R | 002000 | A | | 2000 | /#2 |
| 01602 | R | 003000 | A | | 3000 | /#3 |
| 01603 | R | 004000 | A | | 4000 | /#4 |
| 01604 | R | 005000 | A | | 5000 | /#5 |
| 01605 | R | 006000 | A | | 6000 | /#6 |
| 01606 | R | 007000 | A | | 7000 | /#7 |
| 01607 | R | 777777 | A | | 777777 | |
| | | | | | ,EJECT | |

/DC01-EB IOT LIST

/SKIP ON SCANNER FLAG

| | | | | | | |
|-------|---|--------|---|------|--------|----------|
| 01610 | R | 704551 | A | SSF1 | 704551 | /UNIT #1 |
| 01611 | R | 704411 | A | SSF2 | 704411 | /#2 |
| 01612 | R | 704451 | A | SSF3 | 704451 | /#3 |
| 01613 | R | 704511 | A | SSF4 | 704511 | /#4 |

/READ SCANNER DATA AND CLEAR THE SCANNER AND REC. FLAG,

| | | | | | | |
|-------|---|--------|---|------|--------|----------|
| 01614 | R | 704552 | A | RSD1 | 704552 | /UNIT #1 |
| 01615 | R | 704412 | A | RSD2 | 704412 | /#2 |
| 01616 | R | 704452 | A | RSD3 | 704452 | /#3 |
| 01617 | R | 704512 | A | RSD4 | 704512 | /#4 |

/DISABLE THE SCANNER AND CLEAR ALL FLAGS,

| | | | | | | |
|-------|---|--------|---|------|--------|----------|
| 01620 | R | 704544 | A | DIS1 | 704544 | /UNIT #1 |
| 01621 | R | 704404 | A | DIS2 | 704404 | /#2 |
| 01622 | R | 704444 | A | DIS3 | 704444 | /#3 |
| 01623 | R | 704504 | A | DIS4 | 704504 | /#4 |

/LOAD SCANNER ADDRESS

| | | | | | | |
|-------|---|--------|---|------|--------|----------|
| 01624 | R | 704561 | A | LSA1 | 704561 | /UNIT #1 |
| 01625 | R | 704421 | A | LSA2 | 704421 | /#2 |
| 01626 | R | 704461 | A | LSA3 | 704461 | /#3 |
| 01627 | R | 704521 | A | LSA4 | 704521 | /#4 |

/LOAD SCANNER DATA

| | | | | | | |
|-------|---|--------|---|------|--------|----------|
| 01630 | R | 704562 | A | LSD1 | 704562 | /UNIT #1 |
| 01631 | R | 704422 | A | LSD2 | 704422 | /#2 |
| 01632 | R | 704462 | A | LSD3 | 704462 | /#3 |
| 01633 | R | 704522 | A | LSD4 | 704522 | /#4 |

/CLEAR SCANNER FLAG AND START SCANNER

| | | | | | | |
|-------|---|--------|---|------|--------|-----|
| 01634 | R | 704564 | A | STS1 | 704564 | |
| 01635 | R | 704424 | A | STS2 | 704424 | |
| 01636 | R | 704464 | A | STS3 | 704464 | |
| 01637 | R | 704524 | A | STS4 | 704524 | /#4 |

/STOP SCANNER, LOAD DATA AND START SCANNER

| | | | | | | |
|-------|---|--------|---|------|--------|----------|
| 01640 | R | 704567 | A | SLS1 | 704567 | /UNIT #1 |
| 01641 | R | 704427 | A | SLS2 | 704427 | /#2 |
| 01642 | R | 704467 | A | SLS3 | 704467 | /#3 |
| 01643 | R | 704527 | A | SLS4 | 704527 | /#4 |

,EJECT

```

/ROTATE CONTAINS OF 'AC' '9' TIMES RIGHT EXIT WITH DATA 'AC'
01644 R 000000 A ROT9R 0
01645 R 502107 R AND (7000
01646 R 746020 A CLL!RTR
01647 R 742020 A RTR
01650 R 742020 A RTR
01651 R 742020 A RTR
01652 R 740020 A RAR
01653 R 621644 R JMP* ROT9R

/ROTATE CONTAINS OF 'AC' 9 LEFT,
01654 R 000000 A ROT9L 0
01655 R 502153 R AND (777
01656 R 746010 A CLL!RTL
01657 R 742010 A RTL
01660 R 742010 A RTL
01661 R 742010 A RTL
01662 R 740010 A RAL
01663 R 621654 R JMP* ROT9L

/TEST FOR DATA 'SW4' WHICH INHIBITS THE DC01-EB TEST,
01664 R 000000 A HOLDSW 0
01665 R 750004 A LAS
01666 R 500010 R AND DATASW /DATA SW4
01667 R 741200 A SNA /IS SWITCH SET?
01670 R 621664 R JMP* HOLDSW /NO, EXIT
01671 R 200151 R LAC DSTSW0
01672 R 042071 R DAC SAVDSI /SAVE RETURN ADDRESS
01673 R 202154 R LAC (HOLD,1
01674 R 040151 R DAC DSTSW0
01675 R 101702 R JMS CLRTRN /CLEAR TRN FLAGS AND SAVE DATA,
01676 R 601732 R JMP EXITM5 /EXIT '-5'
01677 R 202071 R HOLD,1 LAC SAVDSI
01700 R 040151 R DAC DSTSW0 /RESTORE RETURN ADDRESS,
01701 R 601665 R JMP HOLDSW+1 /RE-TEST SWITCH,

/
01702 R 000000 A CLRTRN 0
01703 R 401610 R XCT SSF1 /SKIP ON SCANNER FLAG, UNIT #1
01704 R 601707 R JMP ,+3
01705 R 401614 R XCT RSD1 /READ SCANNER DATA,
01706 R 042024 R DAC HLDTT1 /SAVE DATA,
01707 R 401611 R XCT SSF2 /SKIP ON SCANNER FLAG,UNIT #2,
01710 R 601713 R JMP ,+3
01711 R 401615 R XCT RSD2 /READ SCANNER DATA,
01712 R 042025 R DAC HLDTT2 /SAVE DATA,
01713 R 401612 R XCT SSF3 /SKIP ON SCANNER FLAG,UNIT #3,
01714 R 601717 R JMP ,+3
01715 R 401616 R XCT RSD3 /READ SCANNER DATA,
01716 R 042026 R DAC HLDTT3 /SAVE DATA,
01717 R 401613 R XCT SSF4 /SKIP ON SCANNER FLAG, UNIT #4
01720 R 601723 R JMP ,+3
01721 R 401617 R XCT RSD4 /READ SCANNER DATA,
01722 R 042027 R DAC HLDTT4 /SAVE DATA,
01723 R 621702 R JMP* CLRTRN
,EJECT

```

```

/SET UP TO TYPE 'DONE',
01724 R 777774 A EXITM4 LAW =4
01725 R 040020 R DAC SYSERR
01726 R 140021 R DZM SYSERR+1
01727 R 140022 R DZM ERCODE
01730 R 100450 R JMS DISFLG /DISABLE AND CLEAR SCANNER FLAGS
01731 R 600222 R JMP EXIT

/SETUP FOR '5' EXIT,
01732 R 777773 A EXITM5 LAW =5
01733 R 040020 R DAC SYSERR
01734 R 140021 R DZM SYSERR+1
01735 R 140022 R DZM ERCODE
01736 R 600222 R JMP EXIT

/EXIT FOR A 'NO-FLAG CONDITION,
01737 R 705512 A NOFLAG 705512 /TEST FOR 'API' (RPL)
01740 R 741100 A SPA /IS 'API' ON,
01741 R 602001 R JMP ERROR2 /YES, 'API' ERROR,
01742 R 777777 A LAW =1 /NO
01743 R 620144 R JMP* SERVICE
      EJECT

```

/ERROR1, DATA TRANSFER ERROR,

```

01744 R 000000 A ERROR1 0
01745 R 200151 R LAC DSTSW0
01746 R 042067 R DAC SAVEPC
01747 R 777776 A LAW -2
01750 R 040020 R DAC SYSERR
01751 R 202155 R LAC (1 /ERROR CODE
01752 R 040022 R DAC ERCODE
01753 R 777774 A LAW -4
01754 R 040021 R DAC ERCODE=-1
01755 R 202044 R LAC TEMP1
01756 R 502107 R AND (7000 /MASK SCANNER ADDRESS
01757 R 342073 R TAD UNIT /ADD FAILING UNIT NO,
01760 R 040023 R DAC ERCODE+1 /#1, SCANNER ADDRESS,
01761 R 222046 R LAC* TEMP3
01762 R 040024 R DAC ERCODE+2 /#2, TRANSMITTED DATA,
01763 R 202044 R LAC TEMP1
01764 R 502115 R AND (377
01765 R 040025 R DAC ERCODE+3 /#3, RECEIVED DATA,
01766 R 202156 R LAC (ENTER
01767 R 040151 R DAC DSTSW0
01770 R 101702 R JMS CLRTRN /CLEAR ALL OTHER TRN FLAGS AND SAVE DATA,
01771 R 600222 R JMP EXIT
/ENTER HERE AFTER PRINTING ERROR,
01772 R 101702 R ERENTER JMS CLRTRN
01773 R 200020 R LAC SYSERR
01774 R 542157 R SAD (-2 /HAS ERROR BEEN PRINTED?
01775 R 600222 R JMP EXIT /NO, EXIT
01776 R 202067 R LAC SAVEPC
01777 R 040151 R DAC DSTSW0
02000 R 621744 R JMP* ERROR1
/ERROR2, 'API' INTERRUPTED WITH NO FLAGS SET,
ERROR2 LAW -2
DAC SYSERR
LAC (2 /ERROR CODE
DAC ERCODE
LAW -1
DAC ERCODE=-1
JMP EXIT
.EJECT

```

| | | | | | |
|-------|---|--------|---|---------|---|
| 02010 | R | 000000 | A | ECH01 | 0 |
| 02011 | R | 000000 | A | ECH02 | 0 |
| 02012 | R | 000000 | A | ECH03 | 0 |
| 02013 | R | 000000 | A | ECH04 | 0 |
| 02014 | R | 000000 | A | SILTT1 | 0 |
| 02015 | R | 000000 | A | SILTT2 | 0 |
| 02016 | R | 000000 | A | SILTT3 | 0 |
| 02017 | R | 000000 | A | SILTT4 | 0 |
| 02020 | R | 000000 | A | SILSW1 | 0 |
| 02021 | R | 000000 | A | SILSW2 | 0 |
| 02022 | R | 000000 | A | SILSW3 | 0 |
| 02023 | R | 000000 | A | SILSW4 | 0 |
| 02024 | R | 000000 | A | HLDTT1 | 0 |
| 02025 | R | 000000 | A | HLDTT2 | 0 |
| 02026 | R | 000000 | A | HLDTT3 | 0 |
| 02027 | R | 000000 | A | HLDTT4 | 0 |
| 02030 | R | 000000 | A | LONE1 | 0 |
| 02031 | R | 000000 | A | LONE2 | 0 |
| 02032 | R | 000000 | A | LONE3 | 0 |
| 02033 | R | 000000 | A | LONE4 | 0 |
| 02034 | R | 000000 | A | KSTOR1 | 0 |
| 02035 | R | 000000 | A | KSTOR2 | 0 |
| 02036 | R | 000000 | A | KSTOR3 | 0 |
| 02037 | R | 000000 | A | KSTOR4 | 0 |
| 02040 | R | 000000 | A | KSTOR5 | 0 |
| 02041 | R | 000000 | A | KSTOR6 | 0 |
| 02042 | R | 000000 | A | KSTOR7 | 0 |
| 02043 | R | 000000 | A | KSTOR8 | 0 |
| 02044 | R | 000000 | A | TEMP1 | 0 |
| 02045 | R | 000000 | A | TEMP2 | 0 |
| 02046 | R | 000000 | A | TEMP3 | 0 |
| 02047 | R | 000000 | A | TEMP4 | 0 |
| 02050 | R | 000000 | A | TEMP5 | 0 |
| 02051 | R | 000000 | A | TEMP6 | 0 |
| 02052 | R | 000000 | A | TEMP7 | 0 |
| 02053 | R | 000000 | A | TEMP8 | 0 |
| 02054 | R | 000000 | A | TEMP9 | 0 |
| 02055 | R | 000000 | A | TEMP10 | 0 |
| 02056 | R | 000000 | A | TEMP11 | 0 |
| 02057 | R | 000000 | A | CKREC | 0 |
| 02060 | R | 000000 | A | TYPDATA | 0 |
| 02061 | R | 000000 | A | LOOPA | 0 |
| 02062 | R | 000000 | A | LOOPB | 0 |
| 02063 | R | 000000 | A | LOOPC | 0 |
| 02064 | R | 000000 | A | LOOPD | 0 |
| 02065 | R | 000000 | A | PASCNT | 0 |
| 02066 | R | 000000 | A | WAITCT | 0 |
| 02067 | R | 000000 | A | SAVEPC | 0 |
| 02070 | R | 000000 | A | SAVEAC | 0 |
| 02071 | R | 000000 | A | SAVDST | 0 |
| 02072 | R | 000000 | A | FLGORV | 0 |
| 02073 | R | 000000 | A | UNIT | 0 |

.EJECT

END USERSW

000000 R
02074 R 001473 R #L
02075 R 001504 R #L
02076 R 001515 R #L
02077 R 001526 R #L
02100 R 000152 R #L
02101 R 000515 R #L
02102 R 000570 R #L
02103 R 000643 R #L
02104 R 000716 R #L
02105 R 600000 A #L
02106 R 000215 A #L
02107 R 007000 A #L
02110 R 000212 A #L
02111 R 001537 R #L
02112 R 001547 R #L
02113 R 001557 R #L
02114 R 001567 R #L
02115 R 000377 A #L
02116 R 000400 A #L
02117 R 001560 R #L
02120 R 000526 R #L
02121 R 002037 R #L
02122 R 002010 R #L
02123 R 002061 R #L
02124 R 000201 A #L
02125 R 000732 R #L
02126 R 000243 A #L
02127 R 000601 R #L
02130 R 002040 R #L
02131 R 002011 R #L
02132 R 002062 R #L
02133 R 000654 R #L
02134 R 002041 R #L
02135 R 002012 R #L
02136 R 002063 R #L
02137 R 000727 R #L
02140 R 002043 R #L
02141 R 002013 R #L
02142 R 002064 R #L
02143 R 000007 A #L
02144 R 001423 R #L
02145 R 000267 A #L
02146 R 000277 A #L
02147 R 000257 A #L
02150 R 777777 A #L
02151 R 777000 A #L
02152 R 001577 R #L
02153 R 000777 A #L
02154 R 001677 R #L
02155 R 000001 A #L
02156 R 001772 R #L
02157 R 777776 A #L

02160 R 000002 A *L
SIZE=02206

NO ERROR LINES

| | | | | | | | | | | | |
|--------|--------|---|--------|--------|---|--------|-------|---|--------|-------|---|
| ACTIV1 | 01473 | R | ACTIV2 | 01504 | R | ACTIV3 | 01515 | R | ACTIV4 | 01526 | R |
| CHKFLG | 00227 | R | CHKTRN | 00303 | R | CHKTR2 | 00326 | R | CHKTR3 | 00350 | R |
| CHKTR4 | 00372 | R | CKFLG2 | 00240 | R | CKFLG3 | 00251 | R | CKFLG4 | 00262 | R |
| CKREC | 02057 | R | CKREC1 | 00456 | R | CKREC2 | 00531 | R | CKREC3 | 00604 | R |
| CKREC4 | 00657 | R | CLRFG1 | 00526 | R | CLRFG2 | 00601 | R | CLRFG3 | 00654 | R |
| CLRFG4 | 00727 | R | CLRTRN | 01702 | R | CMPTTE | 00754 | R | DATASW | 00010 | R |
| DECODA | 00764 | R | DECODE | 00732 | R | DISFLG | 00450 | R | DIS1 | 01620 | R |
| DIS2 | 01621 | R | DIS3 | 01622 | R | DIS4 | 01623 | R | DSTSW0 | 00151 | R |
| DSTSW1 | 00514 | R | DSTSW2 | 00567 | R | DSTSW3 | 00642 | R | DSTSW4 | 00715 | R |
| EBA | 707764 | A | ECH01 | 02010 | R | ECH02 | 02011 | R | ECH03 | 02012 | R |
| ECH04 | 02013 | R | EEM | 707702 | A | ERCODE | 00022 | R | ERENTE | 01772 | R |
| ERROR1 | 01744 | R | ERROR2 | 02001 | R | EXIT | 00222 | R | EXITM4 | 01724 | R |
| EXITM5 | 01732 | R | EXTCKF | 00273 | R | FLGDRV | 02072 | R | FLOAT1 | 01002 | R |
| FLOAT2 | 01067 | R | FLOAT3 | 01154 | R | FLOAT4 | 01241 | R | FLT1A | 01030 | R |
| FLT2A | 01115 | R | FLT3A | 01202 | R | FLT4A | 01267 | R | HLDTT1 | 02024 | R |
| HLDTT2 | 02025 | R | HLDTT3 | 02026 | R | HLDTT4 | 02027 | R | HOLDSW | 01664 | R |
| HOLD.1 | 01677 | R | INIT | 00031 | R | KSTOR1 | 02034 | R | KSTOR2 | 02035 | R |
| KSTOR3 | 02036 | R | KSTOR4 | 02037 | R | KSTOR5 | 02040 | R | KSTOR6 | 02041 | R |
| KSTOR7 | 02042 | R | KSTOR8 | 02043 | R | LONE1 | 02030 | R | LONE2 | 02031 | R |
| LONE3 | 02032 | R | LONE4 | 02033 | R | LOOPA | 02061 | R | LOOPB | 02062 | R |
| LOOPC | 02063 | R | LOOPD | 02064 | R | LSA1 | 01624 | R | LSA2 | 01625 | R |
| LSA3 | 01626 | R | LSA4 | 01627 | R | LSD1 | 01630 | R | LSD2 | 01631 | R |
| LSD3 | 01632 | R | LSD4 | 01633 | R | NOFLAG | 01737 | R | N0TABL | 01424 | R |
| PASCNT | 02065 | R | PRCHR1 | 00433 | R | PRTCHR | 00414 | R | PRTTAB | 01360 | R |
| REC1 | 00515 | R | REC2 | 00570 | R | REC3 | 00643 | R | REC4 | 00716 | R |
| RESETP | 00445 | R | ROT9L | 01654 | R | ROT9R | 01644 | R | RSD1 | 01614 | R |
| RSD2 | 01615 | R | RSD3 | 01616 | R | RSD4 | 01617 | R | RUBOUT | 00760 | R |
| SAVDST | 02071 | R | SAVEAC | 02070 | R | SAVEPC | 02067 | R | SCNTAB | 01577 | R |
| SELCT1 | 01060 | R | SELCT2 | 01145 | R | SELCT3 | 01232 | R | SELCT4 | 01317 | R |
| SERVCE | 00144 | R | SETAV1 | 01036 | R | SETAV2 | 01123 | R | SETAV3 | 01210 | R |
| SETAV4 | 01275 | R | SETPRT | 01345 | R | SILSW1 | 02020 | R | SILSW2 | 02021 | R |
| SILSW3 | 02022 | R | SILSW4 | 02023 | R | SILTT1 | 02014 | R | SILTT2 | 02015 | R |
| SILTT3 | 02016 | R | SILTT4 | 02017 | R | SLS1 | 01640 | R | SLS2 | 01641 | R |
| SLS3 | 01642 | R | SLS4 | 01643 | R | SSF1 | 01610 | R | SSF2 | 01611 | R |
| SSF3 | 01612 | R | SSF4 | 01613 | R | STS1 | 01634 | R | STS2 | 01635 | R |
| STS3 | 01636 | R | STS4 | 01637 | R | SYSERR | 00020 | R | TABLE1 | 01537 | R |
| TABLE2 | 01547 | R | TABLE3 | 01557 | R | TABLE4 | 01567 | R | TAGA | 00776 | R |
| TEMP1 | 02044 | R | TEMP10 | 02055 | R | TEMP11 | 02056 | R | TEMP2 | 02045 | R |
| TEMP3 | 02046 | R | TEMP4 | 02047 | R | TEMP5 | 02050 | R | TEMP6 | 02051 | R |
| TEMP7 | 02052 | R | TEMP8 | 02053 | R | TEMP9 | 02054 | R | TRNSMT | 01326 | R |
| TRNS1 | 01333 | R | TYPDAT | 02060 | R | TYPEQM | 00752 | R | UNIT | 02073 | R |
| USERSW | 00000 | R | WAITCT | 02066 | R | | | | | | |

| | | | | | | | | | | | |
|--------|--------|---|--------|--------|---|--------|-------|---|--------|-------|---|
| USERSW | 00000 | R | DATASW | 00010 | R | SYSERR | 00020 | R | ERCODE | 00022 | R |
| INIT | 00031 | R | SERVCE | 00144 | R | DSTSW0 | 00151 | R | EXIT | 00222 | R |
| CHKFLG | 00227 | R | CKFLG2 | 00240 | R | CKFLG3 | 00251 | R | CKFLG4 | 00262 | R |
| EXTCKF | 00273 | R | CHKTRN | 00303 | R | CHKTR2 | 00326 | R | CHKTR3 | 00350 | R |
| CHKTR4 | 00372 | R | PRTCHR | 00414 | R | PRCHR1 | 00433 | R | RESETP | 00445 | R |
| DISFLG | 00450 | R | CKREC1 | 00456 | R | DSTSW1 | 00514 | R | REC1 | 00515 | R |
| CLRFG1 | 00526 | R | CKREC2 | 00531 | R | DSTSW2 | 00567 | R | REC2 | 00570 | R |
| CLRFG2 | 00601 | R | CKREC3 | 00604 | R | DSTSW3 | 00642 | R | REC3 | 00643 | R |
| CLRFG3 | 00654 | R | CKREC4 | 00657 | R | DSTSW4 | 00715 | R | REC4 | 00716 | R |
| CLRFG4 | 00727 | R | DECODE | 00732 | R | TYPEQM | 00752 | R | CMPUTE | 00754 | R |
| RUBOUT | 00760 | R | DECODA | 00764 | R | TAGA | 00776 | R | FLOAT1 | 01002 | R |
| FLT1A | 01030 | R | SETAV1 | 01036 | R | SELCT1 | 01060 | R | FLOAT2 | 01067 | R |
| FLT2A | 01115 | R | SETAV2 | 01123 | R | SELCT2 | 01145 | R | FLOAT3 | 01154 | R |
| FLT3A | 01202 | R | SETAV3 | 01210 | R | SELCT3 | 01232 | R | FLOAT4 | 01241 | R |
| FLT4A | 01267 | R | SETAV4 | 01275 | R | SELCT4 | 01317 | R | TRNSMT | 01326 | R |
| TRNS1 | 01333 | R | SETPRT | 01345 | R | PRTTAB | 01360 | R | NOTABL | 01424 | R |
| ACTIV1 | 01473 | R | ACTIV2 | 01504 | R | ACTIV3 | 01515 | R | ACTIV4 | 01526 | R |
| TABLE1 | 01537 | R | TABLE2 | 01547 | R | TABLE3 | 01557 | R | TABLE4 | 01567 | R |
| SCNTAB | 01577 | R | SSF1 | 01610 | R | SSF2 | 01611 | R | SSF3 | 01612 | R |
| SSF4 | 01613 | R | RSD1 | 01614 | R | RSD2 | 01615 | R | RSD3 | 01616 | R |
| RSD4 | 01617 | R | DIS1 | 01620 | R | DIS2 | 01621 | R | DIS3 | 01622 | R |
| DIS4 | 01623 | R | LSA1 | 01624 | R | LSA2 | 01625 | R | LSA3 | 01626 | R |
| LSA4 | 01627 | R | LSD1 | 01630 | R | LSD2 | 01631 | R | LSD3 | 01632 | R |
| LSD4 | 01633 | R | STS1 | 01634 | R | STS2 | 01635 | R | STS3 | 01636 | R |
| STS4 | 01637 | R | SLS1 | 01640 | R | SLS2 | 01641 | R | SLS3 | 01642 | R |
| SLS4 | 01643 | R | ROT9R | 01644 | R | ROT9L | 01654 | R | HOLD5W | 01664 | R |
| HOLD,1 | 01677 | R | CLRTRN | 01702 | R | EXITM4 | 01724 | R | EXITM5 | 01732 | R |
| NOFLAG | 01737 | R | ERROR1 | 01744 | R | ERENTE | 01772 | R | ERROR2 | 02001 | R |
| ECHO1 | 02010 | R | ECHO2 | 02011 | R | ECHO3 | 02012 | R | ECHO4 | 02013 | R |
| SILTT1 | 02014 | R | SILTT2 | 02015 | R | SILTT3 | 02016 | R | SILTT4 | 02017 | R |
| SILSW1 | 02020 | R | SILSW2 | 02021 | R | SILSW3 | 02022 | R | SILSW4 | 02023 | R |
| HLDTT1 | 02024 | R | HLDTT2 | 02025 | R | HLDTT3 | 02026 | R | HLDTT4 | 02027 | R |
| LONE1 | 02030 | R | LONE2 | 02031 | R | LONE3 | 02032 | R | LONE4 | 02033 | R |
| KSTOR1 | 02034 | R | KSTOR2 | 02035 | R | KSTOR3 | 02036 | R | KSTOR4 | 02037 | R |
| KSTOR5 | 02040 | R | KSTOR6 | 02041 | R | KSTOR7 | 02042 | R | KSTOR8 | 02043 | R |
| TEMP1 | 02044 | R | TEMP2 | 02045 | R | TEMP3 | 02046 | R | TEMP4 | 02047 | R |
| TEMP5 | 02050 | R | TEMP6 | 02051 | R | TEMP7 | 02052 | R | TEMP8 | 02053 | R |
| TEMP9 | 02054 | R | TEMP10 | 02055 | R | TEMP11 | 02056 | R | CKREC | 02057 | R |
| TYPDAT | 02060 | R | LOOPA | 02061 | R | LOOPB | 02062 | R | LOOPC | 02063 | R |
| LOOPD | 02064 | R | PASCNT | 02065 | R | WAITCT | 02066 | R | SAVEPC | 02067 | R |
| SAVEAC | 02070 | R | SAVDST | 02071 | R | FLGDRV | 02072 | R | UNIT | 02073 | R |
| EEM | 707702 | A | EBA | 707764 | A | | | | | | |