

TITLE LT15/19 SYSTEM EXERCISER TEST

EBREL

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/REV. C, REVISED APRIL 21, 1972

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/

/THIS PROGRAM IS DESIGNED TO EXERCISE THE TRANSMITTER
 /RECEIVER AND TELEPRINTERS FOR THE LT15/19. THE PROGRAM
 /WILL EXERCISE BOTH THE LT15 AND LT19 SIMULTANEOUSLY
 /IN CONFIGURATIONS OF 1 TO 16 TELETYPES. THE TEST STARTS
 /BY TYPING ALL CHARACTERS SIMULTANEOUSLY ON ALL
 /AVAILABLE TELETYPES AND THEN RUNS A "FLOATING
 /TELETYPE" TEST. IN THIS TEST, ONE TELETYPE IS LEFT
 /SILENT WHILE ALL REMAINING TELETYPES CONTINUE
 /TYPING OUT THE CHARACTER SET. AFTER COMPLETING
 /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 RECEIVER SECTION OF THAT TELETYPE.
 /PROVISION IS MADE TO 'HOLD' ANY SELECTED TELETYPE IN AN
 /'ECHO' MODE VIA TYPING A 'CNTR A' FOLLOWED VIA A
 /NUMBER OF '1 TO 16' ON ANY SILENT TELETYPE AND TERMINATE
 /THE INPUT WITH 'CARRIAGE RETURN'. TYPING 'RUBOUT'
 /WILL RUBOUT ANY PRECEDING NUMBER AND TYPING A SECOND
 /'CNTR A' WILL RELEASE THE 'HOLD' MODE.

707764 A

EBA=707764

707702 A

EEM=707702

00000 R 604034 A
 00001 R 000035 A
 00002 R 000000 A
 00003 R 000000 A
 00004 R 000115 R
 00005 R 000031 R
 00006 R 142461 A
 00007 R 656171 A
 00010 R 020000 A
 00011 R A
 00020 R 000000 A
 00021 R 000000 A
 00022 R 000000 A
 00023 R 000000 A
 00024 R 000000 A
 00025 R 000000 A
 00026 R 000000 A
 00027 R 000000 A
 00030 R 000000 A

USERSW 604034
 35
 0
 0
 ,DSA SERVICE
 ,DSA INIT
 ,SIXBT 'LT1519'

/I/O DEVICE WITH MULTI - 'API' CHANNELS
 /LT15/19 RECEIVER 'SPI' ADDRESS '75'

DATASW 20000
 ,BLOCK 7

/DATA SW4 INHIBITS LT15/19 TEST

SYSERR 0

/ERROR INDICATOR FOR MONITOR,
 /W,C, FOR DATA WORD ERROR CODES

ERCODE 0

/ERROR CODE

/EJECT

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/INITILIZE THE LT15/19 TEST
00031 R 000000 A INIT 0
00032 R 707764 A EBA
00033 R 707702 A EEM
00034 R 200031 R LAC INIT
00035 R 040115 R DAC SERVICE
00036 R 140020 R DZM SYSERR /CLEAR ERROR LOCATIONS
00037 R 140021 R DZM SYSERR+1
00040 R 140022 R DZM ERCODE
00041 R 141040 R DZM LONTTY
00042 R 141041 R DZM TLSMO
00043 R 141024 R DZM TEMP6
00044 R 141037 R DZM MODESW
00045 R 141032 R DZM TIYHOLD
00046 R 776100 A LAW =1700
00047 R 041015 R DAC LOOPA /SET UP FIRST TEST
00050 R 201175 R LAC (DSTSW1+1
00051 R 040122 R DAC DSTSW1
00052 R 201176 R LAC (RECA
00053 R 040270 R DAC DSTSW2
00054 R 100565 R JMS HOLDSW /CHECK FOR HOLD SWITCH
00055 R 141036 R DZM HOLSET /CLEAR HOLD SWITCH
00056 R 777400 A LAW =400
00057 R 041016 R DAC WAITCT /WAIT COUNTER FOR FLAGS
00060 R 760215 A LAW 215
00061 R 041025 R DAC TEMP7 /SET UP TO TYPE CARRIAGE RETURN
00062 R 100074 R JMS TRNSMT /INITILIZE TTY'S
00063 R 201177 R LAC (TTY1
00064 R 041021 R DAC TEMP3 /SAVE ADDRESS OF TTY TABLE
00065 R 777777 A LAW =1
00066 R 061021 R DAC* TEMP3
00067 R 441021 R ISZ TEMP3
00070 R 441020 R ISZ TEMP2
00071 R 600066 R JMP ,=3
00072 R 100624 R JMS SETPRT /SET UP ASCII CHARACTERS,
00073 R 620031 R JMP* INIT
/TRANSMIT A 'CHARACTER' TO INITIALIZE ALL TELETYPES,
00074 R 000000 A TRNSMT 0
00075 R 777760 A LAW =20
00076 R 041017 R DAC TEMP1 /= TO 16 TTY'S
00077 R 041020 R DAC TEMP2
00100 R 201200 R LAC (TLS1
00101 R 041021 R DAC TEMP3 /SAVE ADDRESS OF TLS IOT'S
00102 R 201021 R LAC TEMP3
00103 R 541041 R SAD TLSMO /IS THIS THE SILENT TTY?
00104 R 600111 R JMP ,+5 /YES
00105 R 541024 R SAD TEMP6 /IS THIS THE SELECTED TTY?
00106 R 600111 R JMP ,+3 /YES
00107 R 201025 R LAC TEMP7
00110 R 421021 R XCT* TEMP3 /TYPE CARRIAGE RETURN ON ALL TTY'S
00111 R 441021 R ISZ TEMP3
00112 R 441017 R ISZ TEMP1 /INITIALIZED ALL TTY'S?
00113 R 600110 R JMP ,=3 /NO,

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00114 R 620074 R

JMP* TRNSM
EJECT

/SERVICE ROUTINE OF LT15/19 TEST

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00115 R 000000 A  SERVICE 0
00116 R 707764 A      EBA
00117 R 707702 A      EEM
00120 R 041034 R      DAC      SAVEAC      /SAVE CONTENTS OF AC,
00121 R 620122 R      JMP*     DSTSW1
00122 R 000000 A  DSTSW1 0
00123 R 201016 R      LAC      WAITCT
00124 R 740200 A      SZA      /HAVE TTY'S BEEN SET UP?
00125 R 100510 R      JMS      CHKFLG  /NO, CHECK FLAGS
00126 R 777777 A      LAW      =1
00127 R 041035 R      DAC      FLGDRY  /SET "NO-FLAG" INDICATOR
00130 R 441015 R      ISZ     LOOPA   /ECHO NEXT TTY?
00131 R 741000 A      SKP
00132 R 100373 R      JMS      SILENC  /NO, CONTINUE
00133 R 100224 R      JMS      CHKREC  /YES, FLOAT NEXT TTY
00134 R 100150 R      JMS      CHKTRN  /CHECK RECEIVER FLAGS
00135 R 201040 R      LAC      LONTTY  /CHECK TRANSMIT FLAGS
00136 R 740200 A      SZA
00137 R 600605 R      JMP      EXITM> /IS ONLY ONE TTY AVAILABLE?
00140 R 201035 R      LAC      FLGDRY  /YES, EXIT "-5"
00141 R 740200 A      SZA      /NO, CONTINUE
00142 R 600610 R      JMP      NOFLAG /WERE ANY FLAGS SET?
00143 R 705512 A  EXIT  705512 /NO, EXIT
00144 R 751100 A      SPAICLA /YES, 'RPL' IOT
00145 R 201034 R      LAC      SAVEAC  /IS "API" ON?
00146 R 703344 A      DBR
00147 R 620115 R      JMP*     SERVICE /YES, RESTORE AC
                                /NO, EXIT
                                /
                                /CHECK FOR ANY TRANSMITTER FLAGS BEING SET
                                /
00150 R 000000 A  CHKTRN 0
00151 R 201201 R      LAC      (TSF1=1 /LOAD ADDRESS OF TRANS, FLAGS
00152 R 041017 R      DAC      TEMP1   /SAVE IT
00153 R 201202 R      LAC      (TLS1=1 /LOAD ADDRESS OF TLS'S
00154 R 041020 R      DAC      TEMP2
00155 R 201203 R      LAC      (TCF1=1 /LOAD ADDRESS OF TCF'S
00156 R 041023 R      DAC      TEMP5
00157 R 201204 R      LAC      (PRT1A=1 /PRT1A=1 ADDRESS
00160 R 041022 R      DAC      TEMP4
00161 R 441017 R      ISZ     TEMP1   /INCREMENT !TSF! TABLE
00162 R 441020 R      ISZ     TEMP2   /INCREMENT !TLS! TABLE
00163 R 441023 R      ISZ     TEMP5   /INCREMENT !TCF! TABLE
00164 R 441022 R      ISZ     TEMP4   /INCREMENT PRINT TABLE
00165 R 201017 R      LAC      TEMP1
00166 R 541205 R      SAD      (TCF1   /END OF TABLE?
00167 R 620150 R      JMP*     CHKTRN  /YES, NO TRANS, FLAGS SET
00170 R 421017 R      XCT*    TEMP1   /NO, IS FLAG SET?
00171 R 600161 R      JMP      CKTRN1 /NO, CHECK NEXT FLAG
                                /
                                ,EJECT

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00172 R 141035 R      DZM      FLGDRV      /YES, CLEAR 'NO FLAG' SWITCH
00173 R 421023 R      XCT*     TEMP5      /CLEAR FLAG
00174 R 201020 R      LAC      TEMP2
00175 R 541041 R      SAD      TLSMO
00176 R 600161 R      JMP      CKTRN1  /IS FLAG FROM FLOATING TTY?
00177 R 221022 R      LAC*     TEMP4      /YES, IGNORE FLAG
00200 R 041024 R      DAC      TEMP6      /= TO ADDRESS OF THE PRINT TABLE POINTER
00201 R 221024 R      LAC*     TEMP6      /SAVE IT
00202 R 741200 A      SNA
00203 R 100217 R      JMS      RESPRT   /END OF PRINT TABLE?
00204 R 100565 R      JMS      HOLDSW  /YES, RESET PRINT TABLE
00205 R 221024 R      LAC*     TEMP6      /CHECK FOR HOLD SWITCH
00206 R 421020 R      XCT*     TEMP2      /GET CHARACTER
00207 R 461022 R      ISZ*     TEMP4      /TRANSMIT NEXT CHAR.
00210 R 201036 R      LAC      HOLSET
00211 R 751200 A      SNA!CLA  /WAS THE HOLD SWITCH SET?
00212 R 600161 R      JMP      CKTRN1  /NO, CHECK FOR NEXT FLAG
00213 R 141036 R      DZM      HOLSET
00214 R 041025 R      DAC      TEMP7
00215 R 100074 R      JMS      TRNSMT
00216 R 620150 R      JMP*     CHKTRN

/
/RESET PRINT TABLE
/
00217 R 000000 A      RESPRT  0
00220 R 201206 R      LAC      (PRTTAB  /RELOAD PRINT TABLE
00221 R 061022 R      DAC*     TEMP4
00222 R 041024 R      DAC      TEMP6
00223 R 620217 R      JMP*     RESPRT

/
/CHECK FOR ANY RECEIVER FLAGS FOR BEING SET AND
/IF THE 'SILENT' TTY'S FLAG IS SET, ECHO BACK THE
/CHARACTER RECEIVED,
/
00224 R 000000 A      CHKREC  0
00225 R 201207 R      LAC      (KSF1-1  /ADDRESS OF REC, FLAGS-1
00226 R 041017 R      DAC      TEMP1
00227 R 201210 R      LAC      (KRB1-1
00230 R 041020 R      DAC      TEMP2      /ADDRESS OF 'KRB'S'
00231 R 201202 R      LAC      (TLS1-1  /ADDRESS OF 'TLS'S'
00232 R 041021 R      DAC      TEMP3
00233 R 441017 R      CKREC1  ISZ      TEMP1
00234 R 441020 R      ISZ      TEMP2
00235 R 441021 R      ISZ      TEMP3
00236 R 201017 R      LAC      TEMP1
00237 R 541211 R      SAD      (KRB1      /END OF TABLE!
00240 R 620224 R      JMP*     CHKREC  /YES, ALL FLAGS CHECKED,
00241 R 421017 R      XCT*     TEMP1      /NO, IS FLAG SET?
00242 R 600233 R      JMP      CKREC1  /NO, CHECK NEXT FLAG
00243 R 421020 R      XCT*     TEMP2      /YES, CLEAR THE FLAG
00244 R 141035 R      DZM      FLGDRV      /CLEAR 'NO FLAG' SWITCH

,EJECT

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00245 R 201020 R      LAC      TEMP2
00246 R 541042 R      SAD      KRBM0      /IS THIS THE SILENT TTY?
00247 R 741000 A      SKP
00250 R 600233 R      JMP      CKREC1      /YES
00251 R 100565 R      JMS      HOLDSW      /NO, IGNORE FLAG
00252 R 421020 R      XCT*     TEMP2      /CHECK FOR HOLD SWITCH,
00253 R 541212 R      SAD      (201      /YES, READ THE CHAR,
00254 R 741000 A      SKP      /WAS 'A' TYPED?
00255 R 620270 R      JMP*     DSTSW2      /YES, COMPLIMENT 'ECHOHOLD' MODE
00256 R 201032 R      LAC      TTYHOLD      /NO, CONTINUE
00257 R 740001 A      CMA
00260 R 041032 R      DAC      TTYHOLD      /COMPLIMENT 'ECHOHOLD' SWITCH
00261 R 740200 A      SZA
00262 R 600277 R      JMP      ECOTTY      /SET UP 'ECHOHOLD' MODE?
00263 R 777777 A      LAW      =1      /YES, ENTER 'ECHOHOLD' MODE
00264 R 041015 R      DAC      LOOPA      /NO, EXIT 'ECHOHOLD' MODE
00265 R 201176 R      LAC      (RECA      /SET UP TO FLOAT NEXT TELETYPE
00266 R 040270 R      DAC      DSTSW2      /ON THE NEXT PASS,
00267 R 600233 R      JMP      CKREC1
/
00270 R 000000 A      DSTSW2  0
00271 R 421021 R      RECA    XCT*     TEMP3      /TYPE IT
00272 R 201036 R      LAC      HOLSET
00273 R 741200 A      SNA
00274 R 600233 R      JMP      CKREC1      /WAS THE HOLD SWITCH SET?
00275 R 141036 R      DZM      HOLSET      /NO, CONTINUE
00276 R 620224 R      JMP*     CHKREC      /YES, CLEAR SWITCH AND EXIT
/SET UP TO DECODE SELECTED TTY ON ENTERING 'ECHOHOLD' MODE,
/
00277 R 201213 R      ECOTTY  LAC      (RECB
00300 R 040270 R      DAC      DSTSW2      /SET DISTRIBUTION SW FOR 'ECHOHOLD' MODE
00301 R 141031 R      DZM      SAVNUM      /CLEAR TTY NO, COUNTER
00302 R 760243 A      LAW      243      /RESPOND WITH '#',
00303 R 600271 R      JMP      RECA
/
/DECODE THE NUMBER OF SELECTED TELETYPE,
/
00304 R 541214 R      RECB    SAD      (215      /WAS 'CR' TYPED TO TERMINATE?
00305 R 600350 R      JMP      EXTECO      /YES, COMPUTE SELECTED TTY
00306 R 541215 R      SAD      (377      /WAS 'RUBOUT' TYPED?
00307 R 600341 R      JMP      RUBOUT      /YES, DELETE LAST CHARACTER
00310 R 041027 R      DAC      TEMP9      /SAVE CHARACTER
00311 R 501216 R      AND      (17      /MASK NO,
00312 R 041026 R      DAC      TEMP8      /NO, SAVE NUMBER
/
,EJECT

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00313 R 201217 R      LAC      (TABNUM=1
00314 R 041030 R      DAC      TEMP10      /CHECK FOR LEGAL NØ,
00315 R 441030 R      ISZ      TEMP10
00316 R 221030 R      LAC#     TEMP10
00317 R 541027 R      SAD      TEMP9
00320 R 600327 R      JMP      CMPUTE      /ADD NUMBER
00321 R 541220 R      SAD      (270
00322 R 741000 A      SKP
00323 R 600315 R      JMP      ,=6
00324 R 760277 A      TYPEQM  LAW      277      /NO,TYPE '?!',
00325 R 421021 R      XCT#    TEMP3      /TYPE CHARACTER
00326 R 600233 R      JMP      CKREC1
/
00327 R 201031 R      CMPUTE  LAC      SAVNUM
00330 R 746010 A      CLL!RTL
00331 R 740010 A      RAL
00332 R 041031 R      DAC      SAVNUM
00333 R 201026 R      LAC      TEMP8
00334 R 501221 R      AND      (7
00335 R 341031 R      TAD      SAVNUM
00336 R 041031 R      DAC      SAVNUM
00337 R 201027 R      LAC      TEMP9      /PRINT NØ,
00340 R 600271 R      JMP      RECA
/
00341 R 201031 R      RUBOUT  LAC      SAVNUM      /DELETE '1' CHARACTER
00342 R 744020 A      CLL!RAR
00343 R 744020 A      CLL!RAR
00344 R 744020 A      CLL!RAR
00345 R 041031 R      DAC      SAVNUM
00346 R 760257 A      LAW      257
00347 R 600325 R      JMP      TYPEQM+1      /TYPE A '!' TO INICATE RUBOUT
/
00350 R 201031 R      EXTECO  LAC      SAVNUM
00351 R 741200 A      SNA
00352 R 600324 R      JMP      TYPEQM      /WERE ANY CHARACTERS TYPED?
00353 R 201031 R      LAC      SAVNUM      /NO, ILLEGAL COMMAND, TYPE '?!'
00354 R 501216 R      AND      (17      /YES, CONTINUE
00355 R 041031 R      DAC      SAVNUM      /MAXIMIM NØ, OF TTY'S 16
00356 R 501222 R      AND      (10      /SAVE COMPLIMENT OF TTY NØ,
00357 R 750200 A      SZA!CLA
00360 R 201223 R      LAC      (2      /IS NØ, >THAN '7'?
00361 R 341031 R      TAD      SAVNUM      /YES, ADD '2' TO THE NØ
00362 R 740001 A      CMA
00363 R 341224 R      TAD      (1
00364 R 041031 R      DAC      SAVNUM
00365 R 777777 A      LAW      =1
00366 R 041015 R      DAC      LOOPA      /FLOAT SELECTED TELETYPE ON NEXT PASS
00367 R 201176 R      LAC      (RECA
00370 R 040270 R      DAC      DSTSW2      /SET UP FOR HOLD 'ECHO' MODE,
00371 R 600233 R      JMP      CKREC1
00372 R 600233 R      JMP      CKREC1
/
.EJECT

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/ROUTINE TO FLOAT "1" TTY WHILE TYPING ON ALL OTHERS,

00373 R 000000 A
 00374 R 776100 A
 00375 R 041015 R
 00376 R 141040 R
 00377 R 201041 R
 00400 R 041020 R
 00401 R 201032 R
 00402 R 740200 A
 00403 R 100460 R
 00404 R 141032 R
 00405 R 201176 R
 00406 R 040270 R
 00407 R 441041 R
 00410 R 441042 R
 00411 R 201041 R
 00412 R 541225 R
 00413 R 100424 R
 00414 R 541200 R
 00415 R 100432 R
 00416 R 221041 R
 00417 R 541226 R
 00420 R 600407 R
 00421 R 750000 A
 00422 R 421020 R
 00423 R 620373 R

SILENC /
 LAW =1700
 DAC LOOPA
 DZM LQNTTY
 LAC TLSMO
 DAC TEMP2
 LAC TTYHOLD
 SZA
 JMS SELECT
 DZM TTYHOLD
 LAC (RECA
 DAC DSTSW2
 SILENC1 ISZ TLSMO
 ISZ KRBMO
 LAC TLSMO
 SAD (TSF1
 JMS REPONT
 SAD (TLS1
 JMS CHKONE
 LAC* TLSMO
 SAD (740000
 SILEXT JMP SILENC1
 CLA
 XCT* TEMP2
 JMP* SILENC

/SET UP TO PRINT "650" CHAR,
 /SET UP TO REINIT SILENT TTY,
 /ECHOHOLD MODE' SELECTED
 /YES, SELECT TTY
 /CLEAR 'MODE' ON ILLEGAL TTY NO,
 /INCREMENT 'TLS' ADDRESS,
 /INCREMENT KRB ADDRESS
 /END OF 'TLS' TABLE?
 /YES, RESET POINTERS
 /NO, IS THIS THE FIRST TTY?
 /YES, CHECK FOR BEING THE ONLY TTY
 /IS TTY AVAILABLE?
 /NO, CHECK NEXT TTY
 /RESTART SILENT TTY
 /XCT TLS IOT
 /YES, FLOAT THIS TTY

00424 R 000000 A
 00425 R 201211 R
 00426 R 041042 R
 00427 R 201200 R
 00430 R 041041 R
 00431 R 620424 R

REPONT /
 /
 LAC (KRB1
 DAC KRBMO
 LAC (TLS1
 DAC TLSMO
 JMP* REPONT
 .EJECT

/CHECK FOR ONLY '1' TTY BEING AVAILABLE AND IF SO SET
/UP TO EXIT VIA '-5'

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00432 R 000000 A   CHKONE 0
00433 R 200657 R   LAC      TLS2
00434 R 541227 R   SAD      (704024   /IS TTY #2 AVAILABLE?
00435 R 620432 R   JMP*    CHKONE   /YES, EXIT
00436 R 200660 R   LAC      TLS3
00437 R 541230 R   SAD      (704044   /IS TTY #3 AVAILABLE?
00440 R 620432 R   JMP*    CHKONE   /YES, EXIT
00441 R 201037 R   LAC      MODESW   /TTY #1 ONLY
00442 R 740001 A   CMA
00443 R 041037 R   DAC      MODESW   /COMPLEMENT THE MODE SWITCH
00444 R 741200 A   SNA
00445 R 600451 R   JMP      ,+4      /= TO TTY 0?
00446 R 777777 A   LAW      =1        /YES RESTART TTY #1
00447 R 041040 R   DAC      LONTTY   /NO, SILENCE TTY #1
00450 R 620432 R   JMP*    CHKONE   /SET UP TO EXIT -5
00451 R 201202 R   LAC      (TLS1=1
00452 R 041041 R   DAC      TLSMO
00453 R 201210 R   LAC      (KRB1=1
00454 R 041042 R   DAC      KRBMO
00455 R 750000 A   CLA
00456 R 400656 R   XCT      TLS1
00457 R 620373 R   JMP*    SILENC

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/SET UP TO FLOAT THE SELECTED TELETYPE,

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00460 R 000000 A   SELECT 0
00461 R 201202 R   LAC      (TLS1=1
00462 R 041026 R   DAC      TEMP8    /TLS ADDRESS=1
00463 R 201210 R   LAC      (KRB1=1
00464 R 041027 R   DAC      TEMP9    /KRB ADDRESS=1
00465 R 441026 R   SELNXT ISZ      TEMP8
00466 R 441027 R   ISZ      TEMP9
00467 R 441031 R   ISZ      SAVNUM   /WHEN '0' = TO SELECTED TTY,
00470 R 741000 A   SKP
00471 R 600474 R   JMP      ,+3
00472 R 100503 R   JMS      CHKSEL   /CHECK FOR LEGAL TELETYPE NO,
00473 R 600465 R   JMP      SELNXT
00474 R 100503 R   JMS      CHKSEL   /CHECK IS SELECTED TTY IS LEGAL,
00475 R 141015 R   DZM      LOOPA
00476 R 201026 R   LAC      TEMP8    /SET UP SELECTED TELETYPE
00477 R 041041 R   DAC      TLSMO
00500 R 201027 R   LAC      TEMP9
00501 R 041042 R   DAC      KRBMO
00502 R 600421 R   JMP      SILEXT   /RE=INITIALIZE SILENT TTY,

00503 R 000000 A   CHKSEL 0
00504 R 221026 R   LAC*    TEMP8
00505 R 541226 R   SAD      (740000   /IS THIS A LEGAL TTY?
00506 R 620460 R   JMP*    SELECT   /NO, EXIT
00507 R 620503 R   JMP*    CHKSEL   /YES, CONTINUE

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/INITIALIZE ALL AVAILABLE TTY'S
/
00510 R 000000 A   CHKFLG 0
00511 R 201201 R   LAC      (TLS1=1 /TSF1=1 ADDRESS
00512 R 041017 R   DAC      TEMP1
00513 R 201203 R   LAC      (TSF1=1 /TCF1=1 ADDRESS
00514 R 041020 R   DAC      TEMP2
00515 R 201231 R   LAC      (KRB1=1 /TTY1=1 ADDRESS
00516 R 041021 R   DAC      TEMP3
00517 R 441017 R   CKFLG1 ISZ     TEMP1
00520 R 441020 R   ISZ     TEMP2
00521 R 441021 R   ISZ     TEMP3
00522 R 201017 R   LAC      TEMP1
00523 R 541205 R   SAD      (TCF1 /ALL FLAGS BEEN CHECKED?
00524 R 600532 R   JMP      EXTCKF /YES, EXIT
00525 R 421017 R   XCT*    TEMP1 /IS FLAG SET?
00526 R 600517 R   JMP      CKFLG1 /NO, CHECK NEXT FLAG
00527 R 421020 R   XCT*    TEMP2 /YES, CLEAR THE FLAG
00530 R 161021 R   DZM*    TEMP3 /CLEAR TTY POINTER
00531 R 600517 R   JMP      CKFLG1
00532 R 441016 R   EXTCKF ISZ     WAITCT /HAVE ALL FLAGS HAD TIME TO SET?
00533 R 600605 R   JMP      EXITM5 /NO, EXIT "=5"
00534 R 777757 A   LAW      =21 /YES
00535 R 041017 R   DAC      TEMP1 /TO 16 TTY'S
00536 R 201231 R   LAC      (TTY1=1 /TTY1=1 ADDRESS
00537 R 041020 R   DAC      TEMP2
00540 R 201202 R   LAC      (TLS1=1 /TLS1=1 ADDRESS
00541 R 041021 R   DAC      TEMP3
00542 R 441017 R   CKFLG2 ISZ     TEMP1
00543 R 741000 A   SKP
00544 R 600555 R   JMP      EXTCK2
00545 R 441020 R   ISZ     TEMP2
00546 R 441021 R   ISZ     TEMP3
00547 R 221020 R   LAC*    TEMP2
00550 R 741200 A   SNA
00551 R 600542 R   JMP      CKFLG2 /WAS TTY'S FLAG SET
00552 R 201226 R   LAC      (740000 /YES, CHECK NEXT TTY
00553 R 061021 R   DAC*    TEMP3 /NO,
00554 R 600542 R   JMP      CKFLG2 /DEPOSIT !NOP! FOR IOT
/
00555 R 201202 R   EXTCK2 LAC      (TLS1=1
00556 R 041041 R   DAC      TL5M0 /SAVE ADDRESS OF !TLS! TABLE
00557 R 201210 R   LAC      (KRB1=1 /KRB1=1 ADDRESS
00560 R 041042 R   DAC      KRBM0 /SAVE ADDRESS OF !KRB! TABLE
00561 R 760212 A   LAW      212
00562 R 041025 R   DAC      TEMP7 /TO LINE FEED
00563 R 100074 R   JMS     TRNSMT /REINITIALIZE ALL TELETYPES
00564 R 620510 R   JMP*    CHKFLG
/
.EJECT

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/TEST FOR DATA SW4 WHICH INHIBITS THE LT15/19 TEST

```

00565 R 000000 A   HOLDSW 0
00566 R 750004 A   LAS
00567 R 500010 R   AND   DATASW   /DATA SW4
00570 R 741200 A   SNA   /IS SWITCH SET?
00571 R 620565 R   JMP#  HOLDSW   /NO, CONTINUE
00572 R 777777 A   LAW   =1       /YES,
00573 R 041036 R   DAC   HOLSET   /SET HOLD SWITCH INDICATOR
00574 R 100637 R   JMS   CLRFLG   /CLEAR ALL TRANSMITTER RECEIVER FLAGS
00575 R 200122 R   LAC   DSTSW1
00576 R 041033 R   DAC   SAVDST   /SAVE RETURN ADDRESS
00577 R 201232 R   LAC   (HOLD,1
00600 R 040122 R   DAC   DSTSW1
00601 R 600605 R   JMP   EXITM5   /EXIT !=5!

```

```

00602 R 201033 R   HOLD,1 LAC   SAVDST
00603 R 040122 R   DAC   DSTSW1   /RESTORE RETURN ADDRESS
00604 R 600566 R   JMP   HOLDSW+1 /RE=TEST SWITCH

```

/SETUP FOR !=5! EXIT

```

00605 R 777773 A   EXITM5 LAW   =5
00606 R 040020 R   DAC   SYSERR
00607 R 600143 R   JMP   EXIT

```

/EXIT FOR A 'NO=FLAG' CONDITION

```

00610 R 705512 A   NOFLAG 705512   /TEST FOR 'API' (RPL)
00611 R 741100 A   SPA   /IS 'API' ON?
00612 R 600615 R   JMP   ERROR1   /YES, 'API' ERROR
00613 R 777777 A   LAW   =1       /NO
00614 R 620115 R   JMP#  SERVC   /NORMAL EXIT

```

/ERROR 1, API INTERRUPTED WITH NO FLAGS SET

```

00615 R 777777 A   ERROR1 LAW   =1   /SET UP ERROR 3
00616 R 040020 R   DAC   SYSERR
00617 R 201224 R   LAC   (1       /ERROR CODE 1, API ERROR
00620 R 040022 R   DAC   ERCODE
00621 R 777777 A   LAW   =1
00622 R 040021 R   DAC   ERCODE=1 /PRINT !1! DATA WORD
00623 R 600143 R   JMP   EXIT

```

/EJECT

/
/SET UP AN ASCII CHARACTER CHARACTER TABLE FOR ALL TELETYPES
/

00624 R 000000 A
00625 R 777762 A
00626 R 041021 R
00627 R 201233 R
00630 R 041022 R
00631 R 201206 R
00632 R 061022 R
00633 R 441022 R
00634 R 441021 R
00635 R 600632 R
00636 R 620624 R

SETPRT 0
LAW =16
DAC TEMP3
LAC (PRT1A
DAC TEMP4
LAC (PRTTAB
DAC* TEMP4
ISZ TEMP4
ISZ TEMP3
JMP =3
JMP* SETPRT

/CLEAR ALL TRANSMITTER AND RECEIVER FLAGS
/

00637 R 000000 A
00640 R 777760 A
00641 R 041017 R
00642 R 201205 R
00643 R 041022 R
00644 R 201211 R
00645 R 041023 R
00646 R 421022 R
00647 R 421023 R
00650 R 441022 R
00651 R 441023 R
00652 R 441017 R
00653 R 600646 R
00654 R 620637 R

CLRFLG 0
LAW =20
DAC TEMP1
LAC (TCF1
DAC TEMP4
LAC (KRB1
DAC TEMP5
XCT* TEMP4
XCT* TEMP5
ISZ TEMP4
ISZ TEMP5
ISZ TEMP1
JMP =5
JMP* CLRFLG
EJECT

/LT15/19 IOT TABLE

00655	R	740000	A	TTYIOT	740000
00656	R	704004	A	TLS1	704004
00657	R	704024	A	TLS2	704024
00660	R	704044	A	TLS3	704044
00661	R	704064	A	TLS4	704064
00662	R	704604	A	TLS5	704604
00663	R	704204	A	TLS6	704204
00664	R	704224	A	TLS7	704224
00665	R	704244	A	TLS8	704244
00666	R	704264	A	TLS9	704264
00667	R	704624	A	TLS10	704624
00670	R	704404	A	TLS11	704404
00671	R	704424	A	TLS12	704424
00672	R	704444	A	TLS13	704444
00673	R	704464	A	TLS14	704464
00674	R	704644	A	TLS15	704644
00675	R	704664	A	TLS16	704664
00676	R	704001	A	TSF1	704001
00677	R	704021	A	TSF2	704021
00700	R	704041	A	TSF3	704041
00701	R	704061	A	TSF4	704061
00702	R	704601	A	TSF5	704601
00703	R	704201	A	TSF6	704201
00704	R	704221	A	TSF7	704221
00705	R	704241	A	TSF8	704241
00706	R	704261	A	TSF9	704261
00707	R	704621	A	TSF10	704621
00710	R	704401	A	TSF11	704401
00711	R	704421	A	TSF12	704421
00712	R	704441	A	TSF13	704441
00713	R	704461	A	TSF14	704461
00714	R	704641	A	TSF15	704641
00715	R	704661	A	TSF16	704661
00716	R	704002	A	TCF1	704002
00717	R	704022	A	TCF2	704022
00720	R	704042	A	TCF3	704042
00721	R	704062	A	TCF4	704062
00722	R	704602	A	TCF5	704602
00723	R	704202	A	TCF6	704202
00724	R	704222	A	TCF7	704222
00725	R	704242	A	TCF8	704242
00726	R	704262	A	TCF9	704262
00727	R	704622	A	TCF10	704622
00730	R	704402	A	TCF11	704402
00731	R	704422	A	TCF12	704422
00732	R	704442	A	TCF13	704442
00733	R	704642	A	TCF15	704642
00734	R	704662	A	TCF16	704662

,EJECT

00735	R	704101	A	KSF1	704101
00736	R	704121	A	KSF2	704121
00737	R	704141	A	KSF3	704141
00740	R	704161	A	KSF4	704161
00741	R	704701	A	KSF5	704701
00742	R	704301	A	KSF6	704301
00743	R	704321	A	KSF7	704321
00744	R	704341	A	KSF8	704341
00745	R	704361	A	KSF9	704361
00746	R	704721	A	KSF10	704721
00747	R	704501	A	KSF11	704501
00750	R	704521	A	KSF12	704521
00751	R	704541	A	KSF13	704541
00752	R	704561	A	KSF14	704561
00753	R	704741	A	KSF15	704741
00754	R	704761	A	KSF16	704761
00755	R	704102	A	KRB1	704102
00756	R	704122	A	KRB2	704122
00757	R	704142	A	KRB3	704142
00760	R	704162	A	KRB4	704162
00761	R	704702	A	KRB5	704702
00762	R	704302	A	KRB6	704302
00763	R	704322	A	KRB7	704322
00764	R	704342	A	KRB8	704342
00765	R	704362	A	KRB9	704362
00766	R	704722	A	KRB10	704722
00767	R	704502	A	KRB11	704502
00770	R	704522	A	KRB12	704522
00771	R	704542	A	KRB13	704542
00772	R	704562	A	KRB14	704562
00773	R	704742	A	KRB15	704742
00774	R	704762	A	KRB16	704762
00775	R	000000	A	TTY1	0
00776	R	000000	A	TTY2	0
00777	R	000000	A	TTY3	0
01000	R	000000	A	TTY4	0
01001	R	000000	A	TTY5	0
01002	R	000000	A	TTY6	0
01003	R	000000	A	TTY7	0
01004	R	000000	A	TTY8	0
01005	R	000000	A	TTY9	0
01006	R	000000	A	TTY10	0
01007	R	000000	A	TTY11	0
01010	R	000000	A	TTY12	0
01011	R	000000	A	TTY13	0
01012	R	000000	A	TTY14	0
01013	R	000000	A	TTY15	0
01014	R	000000	A	TTY16	0

.EJECT

01015	R	000000	A	LOOPA	0
01016	R	000000	A	WAITCT	0
01017	R	000000	A	TEMP1	0
01020	R	000000	A	TEMP2	0
01021	R	000000	A	TEMP3	0
01022	R	000000	A	TEMP4	0
01023	R	000000	A	TEMP5	0
01024	R	000000	A	TEMP6	0
01025	R	000000	A	TEMP7	0
01026	R	000000	A	TEMP8	0
01027	R	000000	A	TEMP9	0
01030	R	000000	A	TEMP10	0
01031	R	000000	A	SAVNUM	0
01032	R	000000	A	TTYHOLD	0
01033	R	000000	A	SAVDST	0
01034	R	000000	A	SAVEAC	0
01035	R	000000	A	FLGDRV	0
01036	R	000000	A	HOLSET	0
01037	R	000000	A	MODESW	0
01040	R	000000	A	LONTTY	0
01041	R	000000	A	TLSMO	0
01042	R	000000	A	KRBMO	0
01043	R	000000	A	PRT1A	0
01044	R	000000	A	PRT2A	0
01045	R	000000	A	PRT3A	0
01046	R	000000	A	PRT4A	0
01047	R	000000	A	PRT5A	0
01050	R	000000	A	PRT6A	0
01051	R	000000	A	PRT7A	0
01052	R	000000	A	PRT8A	0
01053	R	000000	A	PRT9A	0
01054	R	000000	A	PRT10	0
01055	R	000000	A	PRT12A	0
01056	R	000000	A	PRT13A	0
01057	R	000000	A	PRT14A	0
01060	R	000000	A	PRT15A	0
01061	R	000000	A	PRT16A	0

.EJECT

/CHARACTER EQUIVALENCE TABLE

01062	R	000314	A	PRTTAB	314
01063	R	000324	A		324
01064	R	000261	A		261
01065	R	000265	A		265
01066	R	000257	A		257
01067	R	000261	A		261
01070	R	000271	A		271
01071	R	000240	A		240
01072	R	000301	A		301
01073	R	000302	A		302
01074	R	000303	A		303
01075	R	000304	A		304
01076	R	000305	A		305
01077	R	000306	A		306
01100	R	000307	A		307
01101	R	000310	A		310
01102	R	000311	A		311
01103	R	000312	A		312
01104	R	000313	A		313
01105	R	000314	A		314
01106	R	000315	A		315
01107	R	000316	A		316
01110	R	000317	A		317
01111	R	000320	A		320
01112	R	000321	A		321
01113	R	000322	A		322
01114	R	000323	A		323
01115	R	000324	A		324
01116	R	000325	A		325
01117	R	000326	A		326
01120	R	000327	A		327
01121	R	000330	A		330
01122	R	000331	A		331
01123	R	000332	A		332
01124	R	000240	A		240
01125	R	000260	A	TABNUM	260
01126	R	000261	A		261
01127	R	000262	A		262
01130	R	000263	A		263
01131	R	000264	A		264
01132	R	000265	A		265
01133	R	000266	A		266
01134	R	000267	A		267
01135	R	000270	A		270
01136	R	000271	A		271

.EJECT

01137 R 000240 A 240
 01140 R 000241 A 241
 01141 R 000242 A 242
 01142 R 000243 A 243
 01143 R 000244 A 244
 01144 R 000245 A 245
 01145 R 000246 A 246
 01146 R 000247 A 247
 01147 R 000250 A 250
 01150 R 000251 A 251
 01151 R 000252 A 252
 01152 R 000253 A 253
 01153 R 000254 A 254
 01154 R 000255 A 255
 01155 R 000256 A 256
 01156 R 000272 A 272
 01157 R 000273 A 273
 01160 R 000274 A 274
 01161 R 000275 A 275
 01162 R 000276 A 276
 01163 R 000277 A 277
 01164 R 000300 A 300
 01165 R 000333 A 333
 01166 R 000334 A 334
 01167 R 000335 A 335
 01170 R 000336 A 336
 01171 R 000337 A 337
 01172 R 000215 A 215
 01173 R 000212 A 212
 01174 R 000000 A 0

END

USERSW

000000 R
 01175 R 000123 R *L
 01176 R 000271 R *L
 01177 R 000775 R *L
 01200 R 000656 R *L
 01201 R 000675 R *L
 01202 R 000655 R *L
 01203 R 000715 R *L
 01204 R 001042 R *L
 01205 R 000716 R *L
 01206 R 001062 R *L
 01207 R 000734 R *L
 01210 R 000754 R *L
 01211 R 000755 R *L
 01212 R 000201 A *L
 01213 R 000304 R *L
 01214 R 000215 A *L
 01215 R 000377 A *L
 01216 R 000017 A *L
 01217 R 001124 R *L
 01220 R 000270 A *L
 01221 R 000007 A *L
 01222 R 000010 A *L

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LT1519 SRC

LT15/19 SYSTEM EXERCISER TEST

01223 R 000002 A *L
01224 R 000001 A *L
01225 R 000676 R *L
01226 R 740000 A *L
01227 R 704024 A *L
01230 R 704044 A *L
01231 R 000774 R *L
01232 R 000602 R *L
01233 R 001043 R *L

SIZE=01260

NO ERROR LINES

CHKFLG	00510	R	CHKONE	00432	R	CHKREC	00224	R	CHKSEL	00503	R
CHKTRN	00150	R	CKFLG1	00517	R	CKFLG2	00542	R	CKREC1	00233	R
CKTRN1	00161	R	CLRFLG	00637	R	CMPUTE	00327	R	DATASW	00010	R
DSTSW1	00122	R	DSTSW2	00270	R	EBA	707764	A	ECOTTY	00277	R
EEM	707702	A	ERCODE	00022	R	ERROR1	00615	R	EXIT	00143	R
EXITM5	00605	R	EXTCKF	00532	R	EXTCK2	00555	R	EXTECO	00350	R
FLGDRV	01035	R	HOLDSW	00565	R	HOLD,1	00602	R	HOLSET	01036	R
INIT	00031	R	KRBMO	01042	R	KRB1	00755	R	KRB10	00766	R
KRB11	00767	R	KRB12	00770	R	KRB13	00771	R	KRB14	00772	R
KRB15	00773	R	KRB16	00774	R	KRB2	00756	R	KRB3	00757	R
KRB4	00760	R	KRB5	00761	R	KRB6	00762	R	KRB7	00763	R
KRB8	00764	R	KRB9	00765	R	KSF1	00735	R	KSF10	00746	R
KSF11	00747	R	KSF12	00750	R	KSF13	00751	R	KSF14	00752	R
KSF15	00753	R	KSF16	00754	R	KSF2	00736	R	KSF3	00737	R
KSF4	00740	R	KSF5	00741	R	KSF6	00742	R	KSF7	00743	R
KSF8	00744	R	KSF9	00745	R	LAW	00046	R	LONTTY	01040	R
LOOPA	01015	R	MODESW	01037	R	NOFLAG	00610	R	PRTTAB	01062	R
PRT1A	01043	R	PRT10	01054	R	PRT12A	01055	R	PRT13A	01056	R
PRT14A	01057	R	PRT15A	01060	R	PRT16A	01061	R	PRT2A	01044	R
PRT3A	01045	R	PRT4A	01046	R	PRT5A	01047	R	PRT6A	01050	R
PRT7A	01051	R	PRT8A	01052	R	PRT9A	01053	R	RECA	00271	R
RECB	00304	R	REPONT	00424	R	RESPRT	00217	R	RUBOUT	00341	R
SAVDST	01033	R	SAVEAC	01034	R	SAVNUM	01031	R	SELECT	00460	R
SELNXT	00465	R	SERVCE	00115	R	SETPRT	00624	R	SILENC	00373	R
SILEXT	00421	R	SILNC1	00407	R	SYSERR	00020	R	TABNUM	01125	R
TCF1	00716	R	TCF10	00727	R	TCF11	00730	R	TCF12	00731	R
TCF13	00732	R	TCF15	00733	R	TCF16	00734	R	TCF2	00717	R
TCF3	00720	R	TCF4	00721	R	TCF5	00722	R	TCF6	00723	R
TCF7	00724	R	TCF8	00725	R	TCF9	00726	R	TEMP1	01017	R
TEMP10	01030	R	TEMP2	01020	R	TEMP3	01021	R	TEMP4	01022	R
TEMP5	01023	R	TEMP6	01024	R	TEMP7	01025	R	TEMP8	01026	R
TEMP9	01027	R	TLSMO	01041	R	TLS1	00656	R	TLS10	00667	R
TLS11	00670	R	TLS12	00671	R	TLS13	00672	R	TLS14	00673	R
TLS15	00674	R	TLS16	00675	R	TLS2	00657	R	TLS3	00660	R
TLS4	00661	R	TLS5	00662	R	TLS6	00663	R	TLS7	00664	R
TLS8	00665	R	TLS9	00666	R	TRNSMT	00074	R	TSF1	00676	R
TSF10	00707	R	TSF11	00710	R	TSF12	00711	R	TSF13	00712	R
TSF14	00713	R	TSF15	00714	R	TSF16	00715	R	TSF2	00677	R
TSF3	00700	R	TSF4	00701	R	TSF5	00702	R	TSF6	00703	R
TSF7	00704	R	TSF8	00705	R	TSF9	00706	R	TTYHOL	01032	R
TTY10T	00655	R	TTY1	00775	R	TTY10	01006	R	TTY11	01007	R
TTY12	01010	R	TTY13	01011	R	TTY14	01012	R	TTY15	01013	R
TTY16	01014	R	TTY2	00776	R	TTY3	00777	R	TTY4	01000	R
TTY5	01001	R	TTY6	01002	R	TTY7	01003	R	TTY8	01004	R
TTY9	01005	R	TYPEQM	00324	R	USERSW	00000	R	WAITCT	01016	R

USERSW	00000	R	DATASW	00010	R	SYSERR	00020	R	ERCODE	00022	R
INIT	00031	R	LAW	00046	R	TRNSMT	00074	R	SERVCE	00115	R
DSTSW1	00122	R	EXIT	00143	R	CHKTRN	00150	R	CKTRN1	00161	R
RESPRT	00217	R	CHKREC	00224	R	CKREC1	00233	R	DSTSW2	00270	R
RECA	00271	R	ECOTTY	00277	R	RECB	00304	R	TYPEQM	00324	R
CMPUTE	00327	R	RUBQUT	00341	R	EXTECO	00350	R	SILENC	00373	R
SILNC1	00407	R	SILEXT	00421	R	REPQNT	00424	R	CHKONE	00432	R
SELECT	00460	R	SELNXT	00465	R	CHKSEL	00503	R	CHKFLG	00510	R
CKFLG1	00517	R	EXTCKF	00532	R	CKFLG2	00542	R	EXTCK2	00555	R
HOLD SW	00565	R	HOLD,1	00602	R	EXITM5	00605	R	NOFLAG	00610	R
ERROR1	00615	R	SETPRT	00624	R	CLRFLG	00637	R	TTYIOT	00655	R
TLS1	00656	R	TLS2	00657	R	TLS3	00660	R	TLS4	00661	R
TLS5	00662	R	TLS6	00663	R	TLS7	00664	R	TLS8	00665	R
TLS9	00666	R	TLS10	00667	R	TLS11	00670	R	TLS12	00671	R
TLS13	00672	R	TLS14	00673	R	TLS15	00674	R	TLS16	00675	R
TSF1	00676	R	TSF2	00677	R	TSF3	00700	R	TSF4	00701	R
TSF5	00702	R	TSF6	00703	R	TSF7	00704	R	TSF8	00705	R
TSF9	00706	R	TSF10	00707	R	TSF11	00710	R	TSF12	00711	R
TSF13	00712	R	TSF14	00713	R	TSF15	00714	R	TSF16	00715	R
TCF1	00716	R	TCF2	00717	R	TCF3	00720	R	TCF4	00721	R
TCF5	00722	R	TCF6	00723	R	TCF7	00724	R	TCF8	00725	R
TCF9	00726	R	TCF10	00727	R	TCF11	00730	R	TCF12	00731	R
TCF13	00732	R	TCF15	00733	R	TCF16	00734	R	KSF1	00735	R
KSF2	00736	R	KSF3	00737	R	KSF4	00740	R	KSF5	00741	R
KSF6	00742	R	KSF7	00743	R	KSF8	00744	R	KSF9	00745	R
KSF10	00746	R	KSF11	00747	R	KSF12	00750	R	KSF13	00751	R
KSF14	00752	R	KSF15	00753	R	KSF16	00754	R	KRB1	00755	R
KRB2	00756	R	KRB3	00757	R	KRB4	00760	R	KRB5	00761	R
KRB6	00762	R	KRB7	00763	R	KRB8	00764	R	KRB9	00765	R
KRB10	00766	R	KRB11	00767	R	KRB12	00770	R	KRB13	00771	R
KRB14	00772	R	KRB15	00773	R	KRB16	00774	R	TTY1	00775	R
TTY2	00776	R	TTY3	00777	R	TTY4	01000	R	TTY5	01001	R
TTY6	01002	R	TTY7	01003	R	TTY8	01004	R	TTY9	01005	R
TTY10	01006	R	TTY11	01007	R	TTY12	01010	R	TTY13	01011	R
TTY14	01012	R	TTY15	01013	R	TTY16	01014	R	LOOPA	01015	R
WAITCT	01016	R	TEMP1	01017	R	TEMP2	01020	R	TEMP3	01021	R
TEMP4	01022	R	TEMP5	01023	R	TEMP6	01024	R	TEMP7	01025	R
TEMP8	01026	R	TEMP9	01027	R	TEMP10	01030	R	SAVNUM	01031	R
TTYHOL	01032	R	SAVDST	01033	R	SAVEAC	01034	R	FLGDRV	01035	R
HQLSET	01036	R	MODESW	01037	R	LONTTY	01040	R	TLSMO	01041	R
KRBMO	01042	R	PRT1A	01043	R	PRT2A	01044	R	PRT3A	01045	R
PRT4A	01046	R	PRT5A	01047	R	PRT6A	01050	R	PRT7A	01051	R
PRT8A	01052	R	PRT9A	01053	R	PRT10	01054	R	PRT12A	01055	R
PRT13A	01056	R	PRT14A	01057	R	PRT15A	01060	R	PRT16A	01061	R
PRTTAB	01062	R	TABNUM	01125	R	EEM	707702	A	EBA	707764	A