

/
/
/
/

PDP-15 SYSTEM EXERCISER
MAINDEC-15-DAQAA-A-LA
MAINTAINER: DIAGNOSTIC GROUP
PART 1 MONITOR

,TITLE RESIDENT MONITOR FOR SYSTEM EXERCISER
 /COPYRIGHT DIGITAL EQUIPMENT CORPORATION
 /MAYNARD, MASS, 5-5-72 ED HILTON

```

00000      /
           ,ABS
           ,LOC      0
           /
00000      000000      0
00001      707702      EEM
00002      040004      DAC      SAVAC
00003      740040      HLT
00004      000000      SAVAC      0
           /
00020      000000      CALTRP      ,LOC      20
00020      740040      0
00021      XX
           /
707764      EBA=707764
707702      EEM=707702
707541      DTCA=707541
707544      DTXA=707544
707545      DTLA=707545
707552      DTRA=707552
707561      DTEF=707561
707572      DTRB=707572
707601      DTDF=707601
700311      KSF=700311
700312      KRB=700312
700401      TSF=700401
700402      TCF=700402
700406      TLS=700406
001402      TYPEI=1402
000023      SRCH=23
000024      BLKNUM=24
000027      CHAR=27
           /
00103      ,LOC      103
           /START HERE, CALL SYSTEM MONITOR,
           /
00103      740000      NOP      /INSERT FOR MULTICORE BOOTSTRAP
           /
           /THIS WILL BE CHANGED TO A PROGRAM COUNTER IF A MULTICORE BOOT IS USED,
           /IF AN OLD BOOTSTRAP IS USED, THE NOP WON'T HURT ANYTHING,
           /
00104      741000      SKP      /SKIP OVER THE POINTER USED BY THE BOOTSTRAP
00105      000103      103      /BOOTSTRAP POINTER TO START OF SYSTST
00106      200116      LAC      SYSGO+2      /THIS CODE IS NECESSARY BECAUSE
00107      040001      DAC      1      /BOOTSTRAP LOADS FROM LOCATION 100 UP TO 17777
00110      201015      LAC      (040004
00111      040002      DAC      2
00112      201016      LAC      (HLT
00113      040021      DAC      21
           ,EJECT
  
```

```

00114 703302  SYSGO  CAF
00115 707764  EBA
00116 707702  EEM
00117 600122  JMP      ,+3
/
/MONITOR CALL (CONTROL C)
/
00120 705514  GETMON  ISA+10  /DISABLE API SYSTEM
00121 100260  JMS     CNTRLG  /PRINT +C,
00122 705514  ISA+10
00123 100514  JMS     CRLF
00124 201017  LAC     (SYSMN=1+400000
00125 100460  JMS     TSIXBT  /SYSTST
00126 100453  JMS     TPREFX
/
/PROGRAM IS RUNNING HERE BECAUSE MONITOR IS ACTIVE
/
00127 100253  BEGIN  JMS     WAIT      /CHECK TO SEE WHAT PROGRAM IS WANTED,
00130 541020  SAD     (215)
00131 600161  JMP     BEG,4
00132 040027  DAC     CHAR
00133 541021  SAD     (203)  /CONTROL C? NOBODY SHOULD TYPE
00134 600120  JMP     GETMON /CONTROL 'C' WITH MONITOR ALREADY ACTIVE!
00135 541022  SAD     (377)
00136 741000  SKP
00137 600144  JMP     BEG,2
00140 760334  LAW     334
00141 100522  JMS     TYPONE
00142 140027  DZM     CHAR
00143 600127  JMP     BEGIN
/
00144 541023  BEG,2  SAD     (201)
00145 741000  SKP
00146 600153  JMP     BEG,3
00147 100271  JMS     UPAROW
00150 760301  LAW     301
00151 100522  BEG,1  JMS     TYPONE
00152 600127  JMP     BEGIN
/
00153 541024  BEG,3  SAD     (204)
00154 741000  SKP
00155 600127  JMP     BEGIN
00156 100271  JMS     UPAROW
00157 760304  LAW     304
00160 600151  JMP     BEG,1
,EJECT

```

| | | | | | |
|-------|--------|-------|--------|--------|---|
| 00161 | 100514 | BEG,4 | JMS | CRLF | |
| 00162 | 200027 | | LAC | CHAR | |
| 00163 | 541025 | | SAD | (301) | /A? |
| 00164 | 741000 | | SKP | | /PRINT USER PROGRAM CORE MAP |
| 00165 | 600172 | | JMP | ,+5 | |
| 00166 | 100275 | | JMS | RDPROG | |
| 00167 | 000003 | BLKA | 3 | | |
| 00170 | 777500 | WCA | 777500 | | |
| 00171 | 001100 | | 1100 | | |
| | | | / | | |
| 00172 | 541026 | | SAD | (314) | /L? |
| 00173 | 741000 | | SKP | | /GO TO LOADER PROGRAM |
| 00174 | 600201 | | JMP | ,+5 | |
| 00175 | 100275 | | JMS | RDPROG | |
| 00176 | 000010 | BLKB | 10 | | |
| 00177 | 775400 | WCB | 775400 | | |
| 00200 | 001100 | | 1100 | | |
| | | | / | | |
| 00201 | 541027 | | SAD | (330) | /X? |
| 00202 | 741000 | | SKP | | /EXECUTE ACTLST, IF EMPTY, GO TO CHAIN MODE |
| 00203 | 600210 | | JMP | ,+5 | |
| 00204 | 100275 | | JMS | RDPROG | |
| 00205 | 000005 | BLKC | 5 | | |
| 00206 | 776400 | WCC | 776400 | | |
| 00207 | 001400 | | 1400 | | |
| | | | / | | |
| 00210 | 541030 | | SAD | (320) | /P? |
| 00211 | 741000 | | SKP | | /MODIFY PARAMETERS OF PROGRAMS IN ACTLST |
| 00212 | 600217 | | JMP | ,+5 | |
| 00213 | 100275 | | JMS | RDPROG | |
| 00214 | 000004 | BLKD | 4 | | |
| 00215 | 777500 | WCD | 777500 | | |
| 00216 | 001100 | | 1100 | | |
| | | | / | | |
| 00217 | 541023 | | SAD | (201) | /CONTROL A? |
| 00220 | 741000 | | SKP | | /ADD PROGRAMS FROM PTR TO DT0 |
| 00221 | 600226 | | JMP | ,+5 | |
| 00222 | 100275 | | JMS | RDPROG | |
| 00223 | 000022 | BLKE | 22 | | |
| 00224 | 776400 | WCE | 776400 | | |
| 00225 | 001100 | | 1100 | | |
| | | | ,EJECT | | |

| | | | | | |
|-------|--------|--------|--------|---------|--|
| 00226 | 541024 | | SAD | (204) | /CONTROL D? |
| 00227 | 741000 | | SKP | | /DELETE PROGRAMS FROM DT0 |
| 00230 | 600235 | | JMP | ,+5 | |
| 00231 | 100275 | | JMS | RDPROG | |
| 00232 | 000025 | BLKF | 25 | | |
| 00233 | 776400 | WCF | 776400 | | |
| 00234 | 001100 | | 1100 | | |
| | | | / | | |
| 00235 | 541031 | | SAD | (304) | /D? |
| 00236 | 741000 | | SKP | | /LIST DIRECTORY ON TELEPRINTER |
| 00237 | 600244 | | JMP | ,+5 | |
| 00240 | 100275 | | JMS | RDPROG | |
| 00241 | 000002 | BLKG | 2 | | |
| 00242 | 777500 | WCG | 777500 | | |
| 00243 | 001100 | | 1100 | | |
| | | | / | | |
| 00244 | 760277 | | LAW | 277 | /UNIDENTIFIED CHARACTER |
| 00245 | 100522 | | JMS | TYPONE | /TYPE "?" |
| 00246 | 600126 | | JMP | BEGIN=1 | |
| | | | / | | |
| 00247 | 100275 | CHAIN | JMS | RDPROG | /CHAIN OPERATION, GET CHAIN OPERATING SYSTEM |
| 00250 | 000015 | | 15 | | |
| 00251 | 775400 | | 775400 | | |
| 00252 | 001400 | | 1400 | | |
| | | | / | | |
| 00253 | 000000 | WAIT | 0 | | |
| 00254 | 700311 | | KSF | | |
| 00255 | 600254 | | JMP | ,=1 | |
| 00256 | 700312 | | KRB | | |
| 00257 | 620253 | | JMP* | WAIT | |
| | | | / | | |
| 00260 | 000000 | CNTRLC | 0 | | |
| 00261 | 200263 | | LAC | ,+2 | |
| 00262 | 040275 | | DAC | RDPROG | |
| 00263 | 440275 | | ISZ | RDPROG | |
| 00264 | 600263 | | JMP | ,=1 | |
| 00265 | 100271 | | JMS | UPAROW | |
| 00266 | 760303 | | LAW | 303 | |
| 00267 | 100522 | | JMS | TYPONE | |
| 00270 | 620260 | | JMP* | CNTRLC | |
| | | | / | | |
| 00271 | 000000 | UPAROW | 0 | | |
| 00272 | 760336 | | LAW | 336 | |
| 00273 | 100522 | | JMS | TYPONE | |
| 00274 | 620271 | | JMP* | UPAROW | |
| | | | ,EJECT | | |

```

00275 000000 RDPROG 0
00276 140027 DZM CHAR
00277 220275 LAC* RDPROG /GET BLOCK NUMBER
00300 040024 DAC BLKNUM
00301 440275 ISZ RDPROG
00302 220275 LAC* RDPROG /GET WORD COUNT OF
00303 040316 DAC READ+2 /NON-RESIDENT PROGRAM
00304 440275 ISZ RDPROG
00305 777777 LAW -1
00306 360275 TAD* RDPROG
00307 040317 DAC READ+3 /CURRENT ADDRESS
00310 100314 JMS READ
00311 220275 LAC* RDPROG
00312 040275 DAC RDPROG
00313 620275 JMP* RDPROG

```

```

/
/DECTAPE HANDLER, PRIOR TO ENTERING; BLKNUM MUST BE
/LOADED WITH STARTING BLOCK NUMBER, READ/WRITE +2 IS WORD COUNT
/READ/WRITE +3 IS CURRENT ADDRESS -1, THEN JMS READ/WRITE
/ERRORS WILL BE REPORTED AS STATUS A XXXXXX STATUS B YYYYYY,
/EXIT TO MONITOR

```

```

00314 000000 READ 0
00315 100360 JMS SEARCH
00316 000000 0 /WORD COUNT
00317 000000 0 /CURRENT ADDRESS -1
00320 200316 LAC READ+2
00321 040030 DAC 30
00322 200317 LAC READ+3
00323 040031 DAC 31
00324 201032 LAC (013000
00325 100350 JMS GO
00326 741100 SPA
00327 600421 JMP DTERR
00330 707555 DTLA+10
00331 620314 JMP* READ
00332 000000 WRITE 0
00333 100360 JMS SEARCH
00334 000000 0 /WORD COUNT
00335 000000 0 /CURRENT ADDRESS=1
00336 200334 LAC WRITE+2
00337 040030 DAC 30
00340 200335 LAC WRITE+3
00341 040031 DAC 31
00342 201033 LAC (015000
00343 100350 JMS GO
00344 741100 SPA
00345 600421 JMP DTERR
00346 707555 DTLA+10
00347 620332 JMP* WRITE
      .EJECT

```

```

00350 000000 GO 0
00351 707544 DTXA
00352 707573 DTEF:DTRB
00353 751000 SKP:CLA
00354 620350 JMP# GO
00355 707601 DTDF
00356 600352 JMP =4
00357 620350 JMP# GO
/
00360 000000 SEARCH 0
00361 707555 DTLA+10
00362 140030 DZM 30
00363 201034 LAC (SRCH /SET UP WORD COUNT AND CURRENT ADDRESS
00364 040031 DAC 31 /FOR SEARCHING REVERSE, NORMAL MODE,
00365 440360 ISZ SEARCH
00366 440360 ISZ SEARCH
00367 201035 LAC (061000
00370 100350 SRCHA JMS GO
00371 741100 SPA
00372 600414 JMP SRCHB /ERROR, CHECK FOR REVERSE END ZONE
00373 200023 LAC SRCH
00374 500451 AND K1777
00375 740001 CMA
00376 340024 TAD BLKNUM /GO THREE BLOCKS PAST DESIRED BLOCK
00377 341036 TAD (=2 /GOING BACKWARDS THEN TURN AROUND
00400 751100 SPA:CLA /AND SEARCH FORWARD NORMAL MODE UNTIL
00401 600370 JMP SRCHA /DESIRED BLOCK APPEARS,
00402 201037 LAC (040000 /CHANGE DIRECTION BIT
00403 100350 SRCHC JMS GO
00404 741100 SPA
00405 600421 JMP DTERR
00406 200023 LAC SRCH
00407 500451 AND K1777
00410 540024 SAD BLKNUM
00411 620360 JMP# SEARCH
00412 750000 CLA
00413 600403 JMP SRCHC
00414 501040 SRCHB AND (100000
00415 741200 SNA
00416 600421 JMP DTERR
00417 201041 LAC (060000
00420 600403 JMP SRCHC
,EJECT

```

```

00421 707552 DTERR DTRA
00422 040025 DAC 25
00423 707572 DTRB
00424 040026 DAC 26
00425 707555 DTLA+10
00426 201042 LAC (DTERA=1+400000
00427 100460 JMS TSIXBT
00430 200025 LAC 25 /IF YOU'RE HERE, DECTAPE FOULED UP,
00431 100540 JMS PSOD /GO BACK TO MONITOR,
00432 201043 LAC (DTERB=1
00433 100460 JMS TSIXBT
00434 200026 LAC 26
00435 100540 JMS PSOD
00436 600122 JMP GETMON+2
/
00437 042440 DTERA ,SIXBT !DT ERR A=@!
00440 052222
00441 404001
00442 750000
00443 400275 DTERB ,SIXBT ! B=@!
00444 000000
00445 233123 SYSMN ,SIXBT !SYSTST V10@!
00446 242324
00447 402661
00450 040000
00451 001777 K1777 1777
00452 000000 K1 0
/TYPE MONITOR PREFIX CR,LF,$
/
00453 000000 TPREFIX 0
00454 100514 JMS CRLF
00455 760244 LAW 244 /S
00456 100522 JMS TYPONE
00457 620453 JMP* TPREFIX
,EJECT

```


/TYPE MESSAGES PACKED IN ,SIXBT FORMAT

```

00460 000000 TSIXBT 0
00461 745100 CLL!SPA
00462 744002 STL
00463 501044 AND (377777
00464 040010 DAC 10
00465 745400 SZL!CLL
00466 100514 JMS CRLF
00467 777775 TYPE LAW 3
00470 040540 DAC PSOD
00471 220010 LAC* 10
00472 744010 RCL
00473 100533 JMS LROT6
00474 040514 DAC CRLF
00475 501045 AND (77
00476 741200 SNA /TERMINATE TYPEOUT ON ZERO CHARACTER,(0),
00477 620460 JMP* TSIXBT
00500 341046 TAD (=40
00501 741102 SPA!CML /SKIP IF CHARACTER >37
00502 600506 JMP ,+4
00503 341047 TAD (240
00504 100522 JMS TYPONE
00505 600510 JMP ,+3
00506 341050 TAD (340
00507 100522 JMS TYPONE
00510 200514 LAC CRLF
00511 440540 ISZ PSOD /SKIP IF 3RD CHARACTER
00512 600473 JMP TYPE+4
00513 600467 JMP TYPE
/
/EXECUTE CARRIAGE RETURN, LINE FEED,
CRLF 0
00514 000000
00515 760215 LAW 215
00516 100522 JMS TYPONE
00517 760212 LAW 212
00520 100522 JMS TYPONE
00521 620514 JMP* CRLF
,EJECT

```

```

00522 000000 TYPONE 0
00523 700406      TLS
00524 700314      IORS
00525 741100      SPA
00526 601402      JMP      TYPEI      /TYPEI IS IN THE OPERATING SYSTEM
00527 700401      TSF
00530 600527      JMP      =1
00531 700402      TCF
00532 620522      JMP*     TYPONE
/
/ROTATE AC SIX POSITIONS LEFT
/
00533 000000 LROT6 0
00534 742010      RTL
00535 742010      RTL
00536 742010      RTL
00537 620533      JMP*     LROT6
/
00540 000000 PSOD 0
00541 040022      DAC      22
00542 777772      LAW      -6
00543 040533      DAC      LROT6
00544 200022      LAC      22
00545 744010      RCL
00546 740010      ROT3  RAL
00547 742010      RTL
00550 040022      DAC      22
00551 501051      AND      (000007
00552 341052      TAD      (260
00553 100522      JMS      TYPONE
00554 200022      LAC      22
00555 440533      ISZ     LROT6
00556 600546      JMP      ROT3
00557 620540      JMP*     PSOD
/
00560 000000 UPREFX 0      /TYPE USER PREFIX (*)
00561 100514      JMS     CRLF
00562 760252      LAW     252
00563 100522      JMS     TYPONE
00564 620560      JMP*    UPREFX
      .EJECT

```


| | | |
|-------|--------|----|
| 00640 | 000000 | *R |
| 00641 | 000000 | *R |
| 00642 | 000000 | *R |
| 00643 | 000000 | *R |
| 00644 | 000000 | *R |
| 00645 | 000000 | *R |
| 00646 | 000000 | *R |
| 00647 | 000000 | *R |
| 00650 | 000000 | *R |
| 00651 | 000000 | *R |
| 00652 | 000000 | *R |
| 00653 | 000000 | *R |
| 00654 | 000000 | *R |
| 00655 | 000000 | *R |
| 00656 | 000000 | *R |
| 00657 | 000000 | *R |
| 00660 | 000000 | *R |
| 00661 | 000000 | *R |
| 00662 | 000000 | *R |
| 00663 | 000000 | *R |
| 00664 | 000000 | *R |
| 00665 | 000000 | *R |
| 00666 | 000000 | *R |
| 00667 | 000000 | *R |
| 00670 | 000000 | *R |
| 00671 | 000000 | *R |
| 00672 | 000000 | *R |
| 00673 | 000000 | *R |
| 00674 | 000000 | *R |
| 00675 | 000000 | *R |
| 00676 | 000000 | *R |
| 00677 | 000000 | *R |
| 00700 | 000000 | *R |
| 00701 | 000000 | *R |
| 00702 | 000000 | *R |
| 00703 | 000000 | *R |
| 00704 | 000000 | *R |
| 00705 | 000000 | *R |
| 00706 | 000000 | *R |
| 00707 | 000000 | *R |
| 00710 | 000000 | *R |
| 00711 | 000000 | *R |
| 00712 | 000000 | *R |
| 00713 | 000000 | *R |
| 00714 | 000000 | *R |
| 00715 | 000000 | *R |
| 00716 | 000000 | *R |
| 00717 | 000000 | *R |
| 00720 | 000000 | *R |
| 00721 | 000000 | *R |
| 00722 | 000000 | *R |
| 00723 | 000000 | *R |
| 00724 | 000000 | *R |

| | | |
|-------|--------|----|
| 00725 | 000000 | *R |
| 00726 | 000000 | *R |
| 00727 | 000000 | *R |
| 00730 | 000000 | *R |
| 00731 | 000000 | *R |
| 00732 | 000000 | *R |
| 00733 | 000000 | *R |
| 00734 | 000000 | *R |
| 00735 | 000000 | *R |
| 00736 | 000000 | *R |
| 00737 | 000000 | *R |
| 00740 | 000000 | *R |
| 00741 | 000000 | *R |
| 00742 | 000000 | *R |
| 00743 | 000000 | *R |
| 00744 | 000000 | *R |
| 00745 | 000000 | *R |
| 00746 | 000000 | *R |
| 00747 | 000000 | *R |
| 00750 | 000000 | *R |
| 00751 | 000000 | *R |
| 00752 | 000000 | *R |
| 00753 | 000000 | *R |
| 00754 | 000000 | *R |
| 00755 | 000000 | *R |

.EJECT

/THE FOLLOWING IS THE SYSTEM LINK TABLE,
 /IN THIS TABLE WILL BE THE ADDRESSES OF THE USER PROGRAMS,
 /THE WILL BE ENTERED BY THE LOADER AND USED BY THE OPERATING
 /SYSTEM FOR FINDING THE USER PROGRAMS,

/
 ,REPT 37

| | | |
|-------|--------|----|
| 00756 | 000000 | |
| 00757 | 000000 | *R |
| 00760 | 000000 | *R |
| 00761 | 000000 | *R |
| 00762 | 000000 | *R |
| 00763 | 000000 | *R |
| 00764 | 000000 | *R |
| 00765 | 000000 | *R |
| 00766 | 000000 | *R |
| 00767 | 000000 | *R |
| 00770 | 000000 | *R |
| 00771 | 000000 | *R |
| 00772 | 000000 | *R |
| 00773 | 000000 | *R |
| 00774 | 000000 | *R |
| 00775 | 000000 | *R |
| 00776 | 000000 | *R |
| 00777 | 000000 | *R |
| 01000 | 000000 | *R |
| 01001 | 000000 | *R |
| 01002 | 000000 | *R |
| 01003 | 000000 | *R |
| 01004 | 000000 | *R |
| 01005 | 000000 | *R |
| 01006 | 000000 | *R |
| 01007 | 000000 | *R |
| 01010 | 000000 | *R |
| 01011 | 000000 | *R |
| 01012 | 000000 | *R |
| 01013 | 000000 | *R |
| 01014 | 000000 | *R |

SLINK 0

,EJECT

,END SYSGO

000114
01015 040004 *L
01016 740040 *L
01017 400444 *L
01020 000215 *L
01021 000203 *L
01022 000377 *L
01023 000201 *L
01024 000204 *L
01025 000301 *L
01026 000314 *L
01027 000330 *L
01030 000320 *L
01031 000304 *L
01032 013000 *L
01033 015000 *L
01034 020023 *L
01035 061000 *L
01036 777776 *L
01037 040000 *L
01040 100000 *L
01041 060000 *L
01042 400436 *L
01043 000442 *L
01044 377777 *L
01045 000077 *L
01046 777740 *L
01047 000240 *L
01050 000340 *L
01051 000007 *L
01052 000260 *L

SIZE=01053

NO ERROR LINES

| | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|
| BEGIN | 00127 | BEG,1 | 00151 | BEG,2 | 00144 | BEG,3 | 00153 |
| BEG,4 | 00161 | BLKA | 00167 | BLKB | 00176 | BLKC | 00205 |
| BLKD | 00214 | BLKE | 00223 | BLKF | 00232 | BLKG | 00241 |
| BLKNUM | 000024 | CALTRP | 00020 | CHAIN | 00247 | CHAR | 000027 |
| CNTRLC | 00260 | CRLF | 00514 | DIRECT | 00565 | DTCA | 707541 |
| DTDF | 707601 | DTEF | 707561 | DTERA | 00437 | DTERB | 00443 |
| DTERR | 00421 | DTLA | 707545 | DTRA | 707552 | DTRB | 707572 |
| DTXA | 707544 | EBA | 707764 | EEM | 707702 | GETMON | 00120 |
| GO | 00350 | KRB | 700312 | KSF | 700311 | K1 | 00452 |
| K1777 | 00451 | LROT6 | 00533 | PSOD | 00540 | RDPROG | 00275 |
| READ | 00314 | ROT3 | 00546 | SAVAC | 00004 | SEARCH | 00360 |
| SLINK | 00756 | SRCH | 000023 | SRCHA | 00370 | SRCHB | 00414 |
| SRCHC | 00403 | SYSGO | 00114 | SYSMN | 00445 | TCF | 700402 |
| TLS | 700406 | TPREFX | 00453 | TSF | 700401 | TSIXBT | 00460 |
| TYPE | 00467 | TYPEI | 001402 | TYPQNE | 00522 | UPAROW | 00271 |
| UPREFX | 00560 | WAIT | 00253 | WCA | 00170 | WCB | 00177 |
| WCC | 00206 | WCD | 00215 | WCE | 00224 | WCF | 00233 |
| WCG | 00242 | WRITE | 00332 | | | | |

| | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|
| SAVAC | 00004 | CALTRP | 00020 | SRCH | 00023 | BLKNUM | 00024 |
| CHAR | 00027 | SYSGO | 00114 | GETMON | 00120 | BEGIN | 00127 |
| BEG,2 | 00144 | BEG,1 | 00151 | BEG,3 | 00153 | BEG,4 | 00161 |
| BLKA | 00167 | WCA | 00170 | BLKB | 00176 | WCB | 00177 |
| BLKC | 00205 | WCC | 00206 | BLKD | 00214 | WCD | 00215 |
| BLKE | 00223 | WCE | 00224 | BLKF | 00232 | WCF | 00233 |
| BLKG | 00241 | WCG | 00242 | CHAIN | 00247 | WAIT | 00253 |
| CNTRLC | 00260 | UPAROW | 00271 | RUPROG | 00275 | READ | 00314 |
| WRITE | 00332 | GO | 00350 | SEARCH | 00360 | SRCHA | 00370 |
| SRCHC | 00403 | SRCHB | 00414 | DTERR | 00421 | DTERA | 00437 |
| DTERB | 00443 | SYSMN | 00445 | K1777 | 00451 | K1 | 00452 |
| TPREFX | 00453 | TSIXBT | 00460 | TYPE | 00467 | CRLF | 00514 |
| TYPONE | 00522 | LROT6 | 00533 | PSOD | 00540 | ROT3 | 00546 |
| UPREFX | 00560 | DIRECT | 00565 | SLINK | 00756 | TYPEI | 001402 |
| KSF | 700311 | KRB | 700312 | TSF | 700401 | TCF | 700402 |
| TLS | 700406 | DTCA | 707541 | DTXA | 707544 | DTLA | 707545 |
| DTRA | 707552 | DTEF | 707561 | DTRB | 707572 | DTDF | 707601 |
| EEM | 707702 | EBA | 707764 | | | | |