

ADDER SRC

ADD PROGRAMS TO DIRECTORY

,TITLE ADD PROGRAMS TO DIRECTORY
/7-27-71
/DIGITAL EQUIPMENT CORPORATION; MAYNARD, MASS,
/ED HILTON

01100 ,ABS
 ,LOC 1100
 /

000514 CRLF=514
700312 KRB=700312
000560 UPREFX=560
000522 TYPONE=522
000460 TSIXBT=460
000253 WAIT=253
000120 GETMON=120
000565 DIRECT=565
000756 SLINK=756
000332 WRITE=332
000314 READ=314
000024 BLKNUM=24
000533 LROT6=533
000540 PSOD=540
700144 RSB=700144
700112 RRB=700112
700101 RSF=700101
707764 EBA=707764
707702 EEM=707702

01100 100514 ADDER JMS CRLF
01101 100560 JMS UPREFX
01102 707764 EBA
01103 707702 EEM
01104 202257 LAC (ENTER=1
01105 100460 JMS TSIXBT
01106 100514 ADD,1 JMS CRLF
01107 202260 LAC (TITMSG=1+400000
01110 100460 JMS TSIXBT
01111 777771 LAW =7
01112 042227 DAC CARCNT# /SET UP INPUT CHARACTER COUNTER
01113 142224 DZM A#
01114 142225 DZM B#
 ,EJECT

| | | | | | |
|-------|--------|--------|-----|---------|---------------------------------------|
| 01200 | 202272 | ADDERE | LAC | (000003 | /SET UP TITLE WORD INDICATORS |
| 01201 | 042242 | | DAC | PROSZ# | /AND PROGRAM SIZE INDICATORS |
| 01202 | 042251 | | DAC | TMODE1# | |
| 01203 | 042252 | | DAC | TMODE2# | |
| 01204 | 442251 | | ISZ | TMODE1 | |
| 01205 | 442252 | | ISZ | TMODE2 | |
| 01206 | 442252 | | ISZ | TMODE2 | |
| 01207 | 142254 | | DZM | UPDTBK# | /UPDATE BLOCK # USED FOR > 4K FILES |
| 01210 | 777777 | | LAW | =1 | |
| 01211 | 042234 | | DAC | EOF# | /SET UP END OF FILE INDICATOR |
| 01212 | 042250 | | DAC | TITIND# | /TITLE INDICATOR |
| 01213 | 703302 | | CAF | | /TELL READER TO GO |
| 01214 | 700144 | | RSB | | |
| 01215 | 202273 | | LAC | (007777 | |
| 01216 | 040015 | | DAC | 15 | |
| 01217 | 770000 | | LAW | =10000 | |
| 01220 | 042253 | | DAC | TOTSZE# | /WORD COUNT |
| 01221 | 142244 | | DZM | REDTIM# | /SETUP READER TIMER TO ALLOW UP |
| 01222 | 142256 | | DZM | WRDCNT# | /TO FIVE FEET OF LEADER |
| 01223 | 777777 | | LAW | =1 | |
| 01224 | 042240 | | DAC | MODE# | /READER MODE, USED TO DETERMINE FIRST |
| 01225 | 142230 | | DZM | CHKSUM# | /WORD OF BLOCK |
| 01226 | 101403 | ADDERG | JMS | READPT | /GET A WORD |
| 01227 | 442240 | | ISZ | MODE | /FIRST WORD OF BLOCK? |
| 01230 | 601245 | | JMP | ADDERH | /NO |
| 01231 | 202243 | | LAC | REDBUF# | /GET WORD |
| 01232 | 502274 | | AND | (377000 | /WORD PAIR RESIDES IN BITS 1-8, |
| 01233 | 744000 | | CLL | | /SET UP COUNTER, |
| 01234 | 742020 | | RTR | | |
| 01235 | 101763 | | JMS | RROT6 | |
| 01236 | 740001 | | CMA | | |
| 01237 | 342275 | | TAD | (2 | |
| 01240 | 042256 | | DAC | WRDCNT | /WORD COUNT FOR BLOCK |
| 01241 | 202243 | | LAC | REDBUF | /GET WORD |
| 01242 | 502276 | | AND | (7 | |
| 01243 | 542277 | | SAD | (5 | |
| 01244 | 142234 | | DZM | EOF | /END OF FILE? |

.EJECT

| | | | | | |
|-------|--------|--------|--------|--------|---------------|
| 01245 | 202240 | ADDERH | LAC | MODE | /NO |
| 01246 | 542242 | | SAD | PROSZ | |
| 01247 | 101770 | | JMS | PRGSZE | |
| 01250 | 542251 | | SAD | TMODE1 | /TITLE? |
| 01251 | 101300 | | JMS | TITLE | |
| 01252 | 542252 | | SAD | TMODE2 | /TITLE? |
| 01253 | 101300 | | JMS | TITLE | |
| 01254 | 202243 | | LAC | REDBUF | |
| 01255 | 060015 | | DAC* | 15 | |
| 01256 | 202234 | | LAC | EOF | |
| 01257 | 741200 | | SNA | | /END OF FILE? |
| 01260 | 601271 | | JMP | ,*11 | |
| 01261 | 442253 | | ISZ | TOTSZE | |
| 01262 | 601226 | | JMP | ADDERG | |
| 01263 | 101441 | | JMS | DTWRIT | |
| 01264 | 202273 | | LAC | (7777 | |
| 01265 | 040015 | | DAC | 15 | |
| 01266 | 770000 | | LAW | -10000 | |
| 01267 | 042253 | | DAC | TOTSZE | |
| 01270 | 601226 | | JMP | ADDERG | |
| 01271 | 442253 | | ISZ | TOTSZE | |
| 01272 | 442253 | | ISZ | TOTSZE | |
| 01273 | 740000 | | NOP | | |
| 01274 | 101403 | | JMS | READPT | |
| 01275 | 202243 | | LAC | REDBUF | |
| 01276 | 060015 | | DAC* | 15 | |
| 01277 | 101441 | | JMS | DTWRIT | |
| | | | .EJECT | | |

| | | | | | |
|-------|--------|--------|--------|---------|---|
| 01300 | 000000 | TITLE | 0 | | |
| 01301 | 442250 | | ISZ | TITIND | /TITLE INDICATOR FOR FIRST OR SECOND WORD |
| 01302 | 601315 | | JMP | TITLEA | /SECOND WORD |
| 01303 | 202243 | | LAC | REDBUF | /FIRST WORD |
| 01304 | 740100 | | SMA | | |
| 01305 | 101327 | | JMS | TITLEC | |
| 01306 | 502300 | | AND | (377777 | /MASK OFF BIT TO INDICATE TWO WORD TITLE |
| 01307 | 102007 | | JMS | CNV6BT | |
| 01310 | 542224 | | SAD | A | /DIFFERENT |
| 01311 | 741000 | | SKP | | /NO |
| 01312 | 601337 | | JMP | TITERR | /YES, TITLE ERROR, |
| 01313 | 202240 | TITLEB | LAC | MODE | /GET ORIGINAL WORD |
| 01314 | 621300 | | JMP* | TITLE | |
| 01315 | 202243 | TITLEA | LAC | REDBUF | /SAME AS ABOVE ONLY ON SECOND WORD |
| 01316 | 102007 | | JMS | CNV6BT | |
| 01317 | 542225 | | SAD | B | |
| 01320 | 741000 | | SKP | | |
| 01321 | 601337 | | JMP | TITERR | /TITLE ERROR |
| 01322 | 777771 | | LAW | =7 | /NOW CHANGE TITLE MODE INDICATOR |
| 01323 | 042251 | | DAC | TMODE1 | /SO NO MORE WORDS WILL BE RECOGNIZED |
| 01324 | 042252 | | DAC | TMODE2 | /AS TITLES |
| 01325 | 042242 | | DAC | PROSZ | /OR PROGRAM SIZES |
| 01326 | 601313 | | JMP | TITLEB | |
| 01327 | 000000 | TITLEC | 0 | | |
| 01330 | 042226 | | DAC | C# | |
| 01331 | 777771 | | LAW | =7 | |
| 01332 | 042251 | | DAC | TMODE1 | |
| 01333 | 042252 | | DAC | TMODE2 | |
| 01334 | 042242 | | DAC | PROSZ | |
| 01335 | 202226 | | LAC | C | |
| 01336 | 621327 | | JMP* | TITLEC | |
| | | | .EJECT | | |

```

01337 202301 TITERR LAC (TITLER=1+400000
01340 100460 JMS TSIXBT
01341 202250 LAC TITIND
01342 542302 SAD (000001
01343 601360 JMP TITERA
01344 202243 LAC REDBUF
01345 740100 SMA
01346 601354 JMP TITERB
01347 502300 AND (377777
01350 102007 JMS CNV6BT
01351 101371 JMS P6BIT
01352 101403 JMS READPT
01353 202243 LAC REDBUF
01354 102007 TITERB JMS CNV6BT
01355 101371 JMS P6BIT
01356 100514 JMS CRLF
01357 601106 JMP ADD,1
01360 777777 TITERA LAW =1 /GET FIRST WORD
01361 340015 TAD 15
01362 040015 DAC 15
01363 220015 LAC* 15
01364 502300 AND (377777
01365 102007 JMS CNV6BT
01366 101371 JMS P6BIT /PRINT IT
01367 202243 LAC REDBUF
01370 601354 JMP TITERB
01371 000000 P6BIT 0
01372 041376 DAC P6BIT1 /SET UP TO PRINT IN 6 BIT
01373 202303 LAC (P6BIT1=1 /ENTER WITH WORD IN AC
01374 100460 JMS TSIXBT
01375 621371 JMP* P6BIT
01376 000000 P6BIT1 0
01377 000000
01400 202304 REEDER LAC (READER=1+4000000 /PRINT ICHECK SUM ERROR!
01401 100460 JMS TSIXBT /AND START AGAIN
01402 601100 JMP ADDER
      .EJECT

```

```

01403 000000      READPT 0
01404 700101            RSF
01405 601431            JMP      READAP            /TIMED WAIT LOOP FOR READER FLAG
01406 700314            IORS
01407 502305            AND      (001000            /CHECK FOR READER NO TAPE FLAG
01410 740200            SZA
01411 601436            JMP      RNOTPE            /ERROR
01412 700112            RRB
01413 042243            DAC      REDBUF            /PUT WORD AWAY
01414 342230            TAD      CHKSUM
01415 042230            DAC      CHKSUM            /UPDATE CHECKSUM
01416 442256            ISZ      WRDCNT
01417 601425            JMP      ,+6
01420 777776            LAW      =2
01421 042240            DAC      MODE
01422 202230            LAC      CHKSUM
01423 740200            SZA
01424 601400            JMP      REEDER
01425 202306            LAC      (747777
01426 042244            DAC      REDTIM            /SETUP NEW CONSTANT TIME ON READER FLAG
01427 700144            RSB            /DO IT AGAIN
01430 621403            JMP*     READPT
          /
01431 442244      READAP ISZ      REDTIM
01432 601404            JMP      READPT+1
01433 202307            LAC      (REDERR=1+400000 /TOO LATE WITH READER FLAG
01434 100460            JMS      TSIXBT            /READ TIMER ERROR, FLAG DIDN'T COME UP
01435 601100            JMP      ADDER            /FOR SOME REASON, START AGAIN,
01436 202310      RNOTPE LAC      (RNTPE=1+400000 /READER NO TAPE MESSAGE
01437 100460            JMS      TSIXBT
01440 601100            JMP      ADDER
          ,EJECT

```

| | | | | | |
|-------|--------|--------|--------|---------|---|
| 01441 | 000000 | DTWRIT | 0 | | |
| 01442 | 442234 | | ISZ | EOF | /EOF INDICATOR |
| 01443 | 601461 | | JMP | ADDERP | /YES |
| 01444 | 777777 | | LAW | -1 | /NOT END OF FILE |
| 01445 | 042234 | | DAC | EOF | |
| 01446 | 202254 | | LAC | UPDTBK | /UPDATE BLOCK NUMBER |
| 01447 | 741200 | | SNA | | |
| 01450 | 601503 | | JMP | ADDERN | /FIRST PASS AND NOT EOF |
| 01451 | 040024 | | DAC | BLKNUM | |
| 01452 | 342311 | | TAD | (000020 | |
| 01453 | 042254 | | DAC | UPDTBK | |
| 01454 | 770000 | | LAW | =10000 | |
| 01455 | 040334 | | DAC | WRITE+2 | |
| 01456 | 362246 | | TAD* | TEMP | /UPDATE WORD COUNT FOR NEW FILE BY |
| 01457 | 062246 | | DAC* | TEMP | /4096 |
| 01460 | 601507 | | JMP | ADDERN | |
| | | | / | | |
| 01461 | 142234 | ADDERP | DZM | EOF | /END OF FILE PASS COULD BE ANY NUMBER, |
| 01462 | 202254 | | LAC | UPDTBK | |
| 01463 | 741200 | | SNA | | |
| 01464 | 601501 | | JMP | ADDERR | /FIRST PASS |
| 01465 | 040024 | | DAC | BLKNUM | /BOOTSTRAP BLOCK # |
| 01466 | 202273 | ADDERS | LAC | (007777 | /CA,-1 |
| 01467 | 040335 | | DAC | WRITE+3 | /BOOTSTRAP CA |
| 01470 | 740001 | | CMA | | |
| 01471 | 342302 | | TAD | (000001 | /COMPUTE WORD COUNT |
| 01472 | 340015 | | TAD | 15 | /FOR PARTIAL BUFFER |
| 01473 | 740001 | | CMA | | |
| 01474 | 342302 | | TAD | (1 | |
| 01475 | 040334 | | DAC | WRITE+2 | /CALCULATE TOTAL WORD COUNT |
| 01476 | 362246 | | TAD* | TEMP | /FOR THIS PROGRAM |
| 01477 | 062246 | | DAC* | TEMP | |
| 01500 | 601511 | | JMP | ADDERT | |
| | | | / | | |
| 01501 | 101516 | ADDERR | JMS | ADDERU | |
| 01502 | 601466 | | JMP | ADDERS | |
| | | | ,EJECT | | |

| | | | | | |
|-------|--------|--------|--------|---------|--|
| 01503 | 101516 | ADDERN | JMS | ADDERU | /FIRST PASS, NOT EOF |
| 01504 | 770000 | | LAW | =10000 | |
| 01505 | 062246 | | DAC* | TEMP | |
| 01506 | 040334 | | DAC | WRITE+2 | |
| 01507 | 202273 | ADDERM | LAC | (007777 | |
| 01510 | 040335 | | DAC | WRITE+3 | |
| 01511 | 100332 | ADDERT | JMS | WRITE | |
| 01512 | 202234 | | LAC | EOF | /EOF? |
| 01513 | 740200 | | SZA | | |
| 01514 | 621441 | | JMP* | DTWRIT | |
| 01515 | 601557 | | JMP | VERFYA | /YES NOW VERIFY DATA ON DECTAPE |
| | | | / | | |
| 01516 | 000000 | ADDERU | 0 | | |
| 01517 | 202246 | | LAC | TEMP | |
| 01520 | 740001 | | CMA | | /CHECK TO SEE THAT THE ADDRESS POINTED |
| 01521 | 342302 | | TAD | (1 | /TO IN TEMP IS STILL IN THE DIRECTORY, |
| 01522 | 342267 | | TAD | (DIRECT | /THE FIRST PROGRAM SHOULD START AT BLOCK |
| 01523 | 741100 | | SPA | | /NUMBER 40 (OCTAL) |
| 01524 | 601527 | | JMP | ,+3 | |
| 01525 | 202312 | | LAC | (40 | |
| 01526 | 601546 | | JMP | ADDERX | |
| 01527 | 777776 | | LAW | =2 | |
| 01530 | 342246 | | TAD | TEMP | |
| 01531 | 042246 | | DAC | TEMP | |
| 01532 | 222246 | | LAC* | TEMP | /GET BLOCK NUMBER OF PRECEDING PROGRAM |
| 01533 | 042241 | | DAC | PBLKNM# | |
| 01534 | 442246 | | ISZ | TEMP | |
| 01535 | 222246 | | LAC* | TEMP | /GET WORD COUNT OF PRECEDING PROGRAM |
| 01536 | 442246 | | ISZ | TEMP | |
| 01537 | 142232 | | DZM | CNTBLK# | /COMPUTE TOTAL BLOCKS REQUIRED FOR PRECEDING |
| 01540 | 442232 | | ISZ | CNTBLK | /PROGRAM AND ADD TO HIS LOCATION ON |
| 01541 | 342313 | | TAD | (000400 | /TAPE AND INSERT INTO DIRECTORY, |
| 01542 | 741100 | | SPA | | |
| 01543 | 601540 | | JMP | ,=3 | |
| 01544 | 202232 | | LAC | CNTBLK | /# OF BLOCKS REQUIRED BY PRECEDING PROGRAM |
| 01545 | 342241 | | TAD | PBLKNM | |
| 01546 | 040024 | ADDERX | DAC | BLKNUM | |
| 01547 | 342311 | | TAD | (000020 | |
| 01550 | 042254 | | DAC | UPDTBK | |
| 01551 | 442246 | | ISZ | TEMP | |
| 01552 | 442246 | | ISZ | TEMP | |
| 01553 | 200024 | | LAC | BLKNUM | /PUT STARTING BLOCK NUMBER OF NEW PROGRAM |
| 01554 | 062246 | | DAC* | TEMP | /INTO DIRECTORY |
| 01555 | 442246 | | ISZ | TEMP | |
| 01556 | 621516 | | JMP* | ADDERU | |
| | | | ,EJECT | | |

| | | | | |
|-------|--------|--------|------|----------|
| 01557 | 142230 | VERFYA | DZM | CHKSUM |
| 01560 | 777777 | | LAW | =1 |
| 01561 | 342246 | | TAD | TEMP |
| 01562 | 042246 | | DAC | TEMP |
| 01563 | 222246 | | LAC* | TEMP |
| 01564 | 042245 | | DAC | STBLK# |
| 01565 | 442246 | | ISZ | TEMP |
| 01566 | 222246 | | LAC* | TEMP |
| 01567 | 342314 | VERFYC | TAD | (010000) |
| 01570 | 740100 | | SMA | |
| 01571 | 601617 | | JMP | VERFYB |
| 01572 | 042255 | | DAC | WCLEFT# |
| 01573 | 770000 | | LAW | =10000 |
| 01574 | 040316 | | DAC | READ+2 |
| 01575 | 202273 | | LAC | (007777) |
| 01576 | 040317 | | DAC | READ+3 |
| 01577 | 202245 | | LAC | STBLK |
| 01600 | 040024 | | DAC | BLKNUM |
| 01601 | 342311 | | TAD | (000020) |
| 01602 | 042245 | | DAC | STBLK |
| 01603 | 100314 | | JMS | READ |
| 01604 | 202273 | | LAC | (007777) |
| 01605 | 040016 | | DAC | 16 |
| 01606 | 770000 | | LAW | =10000 |
| 01607 | 042231 | | DAC | CNT |
| 01610 | 220016 | | LAC* | 16 |
| 01611 | 342230 | | TAD | CHKSUM |
| 01612 | 042230 | | DAC | CHKSUM |
| 01613 | 442231 | | ISZ | CNT |
| 01614 | 601610 | | JMP | ,=4 |
| 01615 | 202255 | | LAC | WCLEFT |
| 01616 | 601567 | | JMP | VERFYC |
| 01617 | 342315 | VERFYB | TAD | (=10000) |
| 01620 | 042255 | | DAC | WCLEFT |
| 01621 | 040316 | | DAC | READ+2 |
| 01622 | 202273 | | LAC | (007777) |
| 01623 | 040317 | | DAC | READ+3 |
| 01624 | 202245 | | LAC | STBLK |
| 01625 | 040024 | | DAC | BLKNUM |
| 01626 | 100314 | | JMS | READ |
| 01627 | 202273 | | LAC | (007777) |
| 01630 | 040016 | | DAC | 16 |
| 01631 | 220016 | | LAC* | 16 |
| 01632 | 342230 | | TAD | CHKSUM |
| 01633 | 042230 | | DAC | CHKSUM |
| 01634 | 442255 | | ISZ | WCLEFT |
| 01635 | 601631 | | JMP | ,=4 |
| 01636 | 202230 | | LAC | CHKSUM |
| 01637 | 740200 | | SZA | |
| 01640 | 601734 | | JMP | CKSMER |

/THIS ROUTINE IS TO CHECK THAT DECTAPE
/CONTAINS ALL THE CORRECT DATA, THE SUM OF
/ALL THE WORDS SHOULD BE ZERO,

/GET STARTING BLOCK NUMBER

/CHECK SUM ERROR,

,EJECT

/NOW WRITE UPDATED DIRECTORY ON DECTAPE

01641 202316
 01642 040017
 01643 777741
 01644 042231
 01645 160017
 01646 442231
 01647 601645

/
 LAC (SLINK=1
 DAC 17
 LAW =37
 DAC CNT
 DZM* 17
 ISZ CNT
 JMP ,=2

/CLEAR LINK TABLE

01650 777775
 01651 342246
 01652 042246
 01653 202224
 01654 062246
 01655 442246
 01656 202225
 01657 062246

/
 LAW =3
 TAD TEMP
 DAC TEMP
 LAC A
 DAC* TEMP
 ISZ TEMP
 LAC B
 DAC* TEMP

VERFYE

01660 777775
 01661 042233
 01662 202317
 01663 040335
 01664 777400
 01665 040334
 01666 202302
 01667 040024
 01670 100332
 01671 202273
 01672 040317
 01673 777522
 01674 040316
 01675 100314
 01676 777510
 01677 042231

LAW =3
 DAC CNTR#
 LAC (477
 DAC WRITE+3
 LAW =400
 DAC WRITE+2
 LAC (1)
 DAC BLKNUM
 JMS WRITE
 LAC (007777
 DAC READ+3
 LAW =256
 DAC READ+2
 JMS READ
 LAW =170
 DAC CNT

/WRITE THE DIRECTORY IN MONITOR

/NOW CHECK DIRECTORY BY READING
/AND CHECKING AGAINST CORE

01700 202320
 01701 040016
 01702 202321
 01703 040017
 01704 220016
 01705 560017
 01706 741000
 01707 601726
 01710 442231
 01711 601704

LAC (DIRECT=1
 DAC 16
 LAC (10064
 DAC 17
 LAC* 16
 SAD* 17
 SKP
 JMP DIRGER
 ISZ CNT
 JMP ,=5

/DIRECTORY COMPARE ERROR

,EJECT

```

01712 202322 VERFYD LAC (CONTIN=1+400000 /NOW QUESTION OPERATOR AS TO
01713 100460 JMS TSIXBT /WHETHER HE WANTS TO CONTINUE ADDING
01714 100253 JMS WAIT /PROGRAMS OR RETURN TO MONITOR
01715 542261 SAD (000203
01716 600120 JMP GETMON
01717 542323 SAD (000316
01720 600122 JMP GETMON+2
01721 542324 SAD (000331
01722 601106 JMP ADD,1
01723 760277 LAW 277
01724 100522 JMS TYPONE
01725 601714 JMP VERFYD+2
/
01726 442233 DIRCER ISZ CNTR
01727 601662 JMP VERFYE
01730 202325 LAC (DIRCER=1+400000
01731 100460 JMS TSIXBT
01732 700312 KRB
01733 600122 JMP GETMON+2
/
01734 202326 CKSMER LAC (ACSMER=1+400000
01735 100460 JMS TSIXBT
01736 700312 KRB
01737 600122 JMP GETMON+2
/
01740 000000 DBPRSL 0 /DOUBLE PRECISION SHIFT LEFT ROUTINE
01741 042246 DAC TEMP /FOR SIX 6 BIT CHOPPED ASCII CHARACTERS
01742 202225 LAC B
01743 740010 RAL
01744 100533 JMS LROT6
01745 042247 DAC TEMP1#
01746 740020 RAR
01747 502327 AND (777700
01750 242246 XOR TEMP
01751 042225 DAC B
01752 202247 LAC TEMP1
01753 502265 AND (000077
01754 042247 DAC TEMP1
01755 202224 LAC A
01756 100533 JMS LROT6
01757 502327 AND (777700
01760 242247 XOR TEMP1
01761 042224 DAC A
01762 621740 JMP# DBPRSL
/
01763 000000 RROT6 0 /SHIFT AC 6 PLACES TO RIGHT
01764 742020 RTR
01765 742020 RTR
01766 742020 RTR
01767 621763 JMP# RROT6
,EJECT

```

```

01770 000000 PRGSZE 0
01771 202243 LAC REDBUF
01772 342315 TAD (=10000)
01773 740300 SMA!SMA
01774 601777 JMP ,+3
01775 202240 LAC MODE
01776 621770 JMP# PRGSZE
01777 342314 TAD (10000)
02000 042240 DAC MODE
02001 202330 LAC (PTBMSG=1+400000)
02002 100460 JMS TSIXBT
02003 202240 LAC MODE
02004 100540 JMS PSOD
02005 700312 KRB
02006 600122 JMP GETMON+2
/
/SUBROUTINE TO CONVERT MACRO 9 RADIX 50 SYMBOL TO ,SIXBIT,
/
02007 000000 CNV6BT 0 /ENTER WITH RADIX 50 NUMBER IN THE AC
02010 042237 DAC LTEMP3# /STORE AS MINUEND
02011 142235 DZM LTEMP#
02012 774700 LAW =3100
02013 102044 JMS SUBTRC /DETERMINE FIRST CHARACTER
02014 342331 TAD (=35 /RETURN WITH CHAR, IN LTEMP + AC
/
/CONVERT RADIX 50 CODE TO ASCII (IE:35=46 TO 60=71)
/
02015 750100 SMA!CLA
02016 202332 LAC (23
02017 342235 TAD LTEMP
02020 744000 CLL
02021 100533 JMS LROT6
02022 042235 DAC LTEMP
02023 777730 LAW =50
02024 102044 JMS SUBTRC /DETERMINE SECOND CHARACTER
02025 502265 AND (77 /MASK OUT FIRST CHARACTER
02026 342331 TAD (=35
02027 750100 SMA!CLA
02030 202332 LAC (23
02031 342235 TAD LTEMP
02032 744000 CLL
02033 100533 JMS LROT6 /POSITION FIRST & SECOND CHAR,
02034 042235 DAC LTEMP
02035 202237 LAC LTEMP3 /FETCH 3RD CHARACTER
02036 342331 TAD (=35
02037 750100 SMA!CLA
02040 202332 LAC (23
02041 342237 TAD LTEMP3
02042 342235 TAD LTEMP /AC CONTAINS 3 ,SIXBIT CHARACTERS
02043 622007 JMP# CNV6BT
,EJECT

```

```

02044 000000      SUBTRC 0                    /ENTER WITH SUBTRAHEND IN THE AC
02045 042236            DAC        LTEMP2#
02046 202237            LAC        LTEMP3            /FETCH MINUEND
02047 744000            CLL
02050 342236            TAD        LTEMP2            /SUBTRACT
02051 740400            SNL                    /SKIP IF TRUE SUBTRACT
02052 602056            JMP        XSUBTR
02053 442235            ISZ        LTEMP            /INCREMENT TRUE SUBTRACT COUNTER
02054 042237            DAC        LTEMP3            /STORE RESULT AS NEW MINUEND
02055 602047            JMP        SUBTRC+3
                      /
                      /EXIT WITH PARTIAL CONVERSION IN LTEMP & AC
                      /
02056 202235      XSUBTR LAC        LTEMP
02057 622044            JMP*       SUBTRC
                      /
02060 000000      DBPRSR 0
02061 760334            LAW        000334            /REPLY WITH BACK SLASH AND PERFORM
02062 100522            JMS        TYPONE            /A DOUBLE PRECISION SHIFT RIGHT
02063 202225            LAC        B                /WITH THE SIX CHOPPED ASCII
02064 744000            CLL                    /BYTES, THEY ARE IN LOCATIONS "A" AND
02065 502327            AND        (777700            /"B", THE FORMAT IS A1,A2,A3;B1,B2,B3,
02066 101763            JMS        RROT6
02067 042225            DAC        B
02070 202224            LAC        A
02071 744020            RCR
02072 101763            JMS        RROT6
02073 042224            DAC        A
02074 502315            AND        (770000
02075 242225            XOR        B
02076 042225            DAC        B
02077 202224            LAC        A
02100 740010            RAL
02101 502273            AND        (007777
02102 042224            DAC        A
02103 622060            JMP*       DBPRSR
                      ,EJECT

```

ADDER SRC

ADD PROGRAMS TO DIRECTORY

| | | | | |
|-------|--------|--------|--------|-------------------------------------|
| 02104 | 031005 | READER | ,SIXBT | !CHECK SUM ERROR PAPER TAPE@! |
| 02105 | 031340 | | | |
| 02106 | 232515 | | | |
| 02107 | 400522 | | | |
| 02110 | 221722 | | | |
| 02111 | 402001 | | | |
| 02112 | 200522 | | | |
| 02113 | 402401 | | | |
| 02114 | 200500 | | | |
| 02115 | 404027 | WHAT | ,SIXBT | ! WHAT?@! |
| 02116 | 100124 | | | |
| 02117 | 770000 | | | |
| 02120 | 241124 | TITMSG | ,SIXBT | !TITLE? @! |
| 02121 | 140577 | | | |
| 02122 | 404000 | | | |
| 02123 | 041122 | DRGER | ,SIXBT | !DIRECTORY COMPARE ERROR @! |
| 02124 | 050324 | | | |
| 02125 | 172251 | | | |
| 02126 | 400317 | | | |
| 02127 | 152001 | | | |
| 02130 | 220540 | | | |
| 02131 | 052222 | | | |
| 02132 | 172240 | | | |
| 02133 | 000000 | | | |
| 02134 | 151722 | CONTIN | ,SIXBT | !MORE? (Y OR N) @! |
| 02135 | 057740 | | | |
| 02136 | 503140 | | | |
| 02137 | 172240 | | | |
| 02140 | 165140 | | | |
| 02141 | 000000 | | | |
| 02142 | 031005 | ACSMER | ,SIXBT | !CHECK SUM ERROR DATA ON DT WRONG@! |
| 02143 | 031340 | | | |
| 02144 | 232515 | | | |
| 02145 | 400522 | | | |
| 02146 | 221722 | | | |
| 02147 | 404004 | | | |
| 02150 | 012401 | | | |
| 02151 | 401716 | | | |
| 02152 | 400424 | | | |
| 02153 | 402722 | | | |
| 02154 | 171607 | | | |
| 02155 | 000000 | | | |

,EJECT

.END

000000
02257 002155 #L
02260 402117 #L
02261 000203 #L
02262 000377 #L
02263 777777 #L
02264 000215 #L
02265 000077 #L
02266 002114 #L
02267 000565 #L
02270 000004 #L
02271 402174 #L
02272 000003 #L
02273 007777 #L
02274 377000 #L
02275 000002 #L
02276 000007 #L
02277 000005 #L
02300 377777 #L
02301 402201 #L
02302 000001 #L
02303 001375 #L
02304 402103 #L
02305 001000 #L
02306 747777 #L
02307 402212 #L
02310 402216 #L
02311 000020 #L
02312 000040 #L
02313 000400 #L
02314 010000 #L
02315 770000 #L
02316 000755 #L
02317 000477 #L
02320 000564 #L
02321 010064 #L
02322 402133 #L
02323 000316 #L
02324 000331 #L
02325 402122 #L
02326 402141 #L
02327 777700 #L
02330 402161 #L
02331 777743 #L
02332 000023 #L

SIZE=02333

NO ERROR LINES

| | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|
| A | 02224 | ACSMER | 02142 | ADDER | 01100 | ADDERA | 01115 |
| ADDERB | 01132 | ADDERC | 01147 | ADDERD | 01164 | ADDERE | 01200 |
| ADDERG | 01226 | ADDERH | 01245 | ADDERM | 01507 | ADDERN | 01503 |
| ADDERP | 01461 | ADDERR | 01501 | ADDESS | 01466 | ADDERT | 01511 |
| ADDERU | 01516 | ADDERX | 01546 | ADD,1 | 01106 | B | 02225 |
| BLKNUM | 000024 | C | 02226 | CARCNT | 02227 | CHKSUM | 02230 |
| CKSMER | 01734 | CNT | 02231 | CNTBLK | 02232 | CNTR | 02233 |
| CNV6BT | 02007 | CONTIN | 02134 | CRLF | 000514 | DBPRSL | 01740 |
| DBPRSR | 02060 | DIRCER | 01726 | DIRECT | 000565 | DIRFL | 02175 |
| DR CER | 02123 | DTWRIT | 01441 | EBA | 707764 | EEM | 707702 |
| ENTER | 02156 | EOF | 02234 | GETMON | 000120 | KRB | 700312 |
| LROT6 | 000533 | LTEMP | 02235 | LTEMP2 | 02236 | LTEMP3 | 02237 |
| MODE | 02240 | PBLKMN | 02241 | PRGSZE | 01770 | PROSZ | 02242 |
| PSOD | 000540 | PTBMSG | 02162 | P6BIT | 01371 | P6BIT1 | 01376 |
| READ | 000314 | READAP | 01431 | READER | 02104 | READPT | 01403 |
| REDBUF | 02243 | REDERR | 02213 | REDTIM | 02244 | REEDER | 01400 |
| RNOTPE | 01436 | RNTPE | 02217 | RRB | 700112 | RROT6 | 01763 |
| RSB | 700144 | RSF | 700101 | SLINK | 000756 | STBLK | 02245 |
| SUBTRC | 02044 | TEMP | 02246 | TEMP1 | 02247 | TITERA | 01360 |
| TITERB | 01354 | TITERR | 01337 | TITIND | 02250 | TITLE | 01300 |
| TITLEA | 01315 | TITLEB | 01313 | TITLEC | 01327 | TITLER | 02202 |
| TITMSG | 02120 | TMODE1 | 02251 | TMODE2 | 02252 | TOTSZE | 02253 |
| TSIXBT | 000460 | TYPONE | 000522 | UPDTBK | 02254 | UPREFX | 000560 |
| VERFYA | 01557 | VERFYB | 01617 | VERFYC | 01567 | VERFYD | 01712 |
| VERFYE | 01662 | WAIT | 000253 | WGLEFT | 02255 | WHAT | 02115 |
| WRDCNT | 02256 | WRITE | 000332 | XSUBTR | 02056 | | |

| | | | |
|---------------|---------------|---------------|---------------|
| BLKNUM 000024 | GETMON 000120 | WAIT 000253 | READ 000314 |
| WRITE 000332 | TSIXBT 000460 | CRLF 000514 | TYPONE 000522 |
| LROT6 000533 | PSOD 000540 | UPREFX 000560 | DIRECT 000565 |
| SLINK 000756 | ADDER 01100 | ADD,1 01106 | ADDERA 01115 |
| ADDERB 01132 | ADDERC 01147 | ADDERD 01164 | ADDERE 01200 |
| ADDERG 01226 | ADDERH 01245 | TITLE 01300 | TITLEB 01313 |
| TITLEA 01315 | TITLEC 01327 | TITERR 01337 | TITERB 01354 |
| TITERA 01360 | P6BIT 01371 | P6BIT1 01376 | REEDER 01400 |
| READPT 01403 | READAP 01431 | RNOTPE 01436 | DTWRIT 01441 |
| ADDERP 01461 | ADDERS 01466 | ADDERR 01501 | ADDERN 01503 |
| ADDERM 01507 | ADDERT 01511 | ADDERU 01516 | ADDERX 01546 |
| VERFYA 01557 | VERFYC 01567 | VERFYB 01617 | VERFYE 01662 |
| VERFYD 01712 | DIRCER 01726 | CKSMER 01734 | DBPRSL 01740 |
| RROT6 01763 | PRGSZE 01770 | CNV6BT 02007 | SUBTRC 02044 |
| XSUBTR 02056 | DBPRSR 02060 | READER 02104 | WHAT 02115 |
| TITMSG 02120 | DRCER 02123 | CONTIN 02134 | ACSMER 02142 |
| ENTER 02156 | PTBMSG 02162 | DIRFL 02175 | TITLER 02202 |
| REDERR 02213 | RNTPE 02217 | A 02224 | B 02225 |
| C 02226 | CARCNT 02227 | CHKSUM 02230 | CNT 02231 |
| CNTBLK 02232 | CNTR 02233 | EOF 02234 | LTEMP 02235 |
| LTEMP2 02236 | LTEMP3 02237 | MODE 02240 | PBLKNM 02241 |
| PROSZ 02242 | REDBUF 02243 | REDTIM 02244 | STBLK 02245 |
| TEMP 02246 | TEMP1 02247 | TITIND 02250 | TMODE1 02251 |
| TMODE2 02252 | TOTSZE 02253 | UPDTBK 02254 | WCLEFT 02255 |
| WRDCNT 02256 | RSF 700101 | RRB 700112 | RSB 700144 |
| KRB 700312 | EEM 707702 | EBA 707764 | |