

@TFOR,FSQ MICXRF
 ATHENA EXTENDED FORTRAN 24G-14 (28 NOV 75)
 COMPILATION DONE ON 09 AUG 76 AT 09:59:59

MAIN PROGRAM
 FUNCTION ICOMP ENTRY POINT 00440 SEQ 000263

STORAGE USED (BLOCK, NAME, LENGTH)

| | | |
|------|-------------|--------|
| 0001 | *CODE | 000451 |
| 0000 | *CONST+TEMP | 000051 |
| 0002 | *SIMPLE VAR | 000010 |
| 0004 | *ARRAYS | 076527 |
| 0005 | N\$BLNK | 000000 |

EXTERNAL REFERENCES

| | |
|------|---------|
| 0006 | CHPACK |
| 0007 | INSORT |
| 0010 | NINTR\$ |
| 0011 | NRDU\$ |
| 0012 | NI01\$ |
| 0013 | NI02\$ |
| 0014 | NWDU\$ |
| 0015 | NSTOP\$ |
| 0016 | NER10\$ |

STORAGE ASSIGNMENT FOR VARIABLES (BLOCK, TYPE, RELATIVE LOCATION, NAME)

| | | | | | | | | | | | | | | | | | | | |
|------|---|--------|--------|------|---|--------|--------|------|---|--------|-------|------|---|--------|-------|------|---|--------|-------|
| 0004 | I | 000000 | CARDIN | 0002 | I | 000003 | I | 0001 | I | 000440 | ICOMP | 0002 | I | 000007 | ICOMP | 0002 | I | 000002 | I\$ |
| 0002 | I | 000004 | J | 0002 | I | 000005 | K | 0002 | I | 000006 | LINE | 0004 | I | 072607 | LIST | 0002 | I | 000001 | NSORT |
| 0002 | I | 000000 | SEQNO | 0004 | I | 000127 | SORTBF | 0004 | I | 000120 | WORK | 0001 | | 000003 | 10L | 0001 | | 000202 | 100L |
| 0001 | | 000012 | 110G | 0001 | | 000251 | 110L | 0001 | | 000265 | 120L | 0001 | | 000031 | 123G | 0001 | | 000275 | 130L |
| 0001 | | 000066 | 134G | 0000 | | 000001 | 140F | 0001 | | 000316 | 150L | 0001 | | 000120 | 155G | 0000 | | 000005 | 160F |
| 0001 | | 000341 | 170L | 0001 | | 000367 | 180L | 0001 | | 000373 | 190L | 0000 | | 000000 | 20F | 0000 | | 000012 | 200F |
| 0001 | | 000363 | 246G | 0001 | | 000423 | 266I | 0001 | | 000064 | 40L | 0001 | | 000075 | 60L | 0001 | | 000111 | 70L |
| 0001 | | 000130 | 90L | | | | | | | | | | | | | | | | |

| | | | | | |
|-------|-----|----|--|----|-------|
| 00100 | 1* | C | MICROPROGRAM CROSS REFERENCE (LIMITED) | 1 | 00003 |
| 00101 | 2* | | INTEGER CARDIN(80),WORK(7),SORTBF(15,2000),LIST(2000),SEQNO/0/ | 2 | |
| 00101 | 3* | C | | 3 | |
| 00104 | 4* | | NSORT=0 | 4 | |
| 00105 | 5* | 10 | READ (5,20,END=120) CARDIN | 5 | 00004 |
| 00114 | 6* | 20 | FORMAT (80A1) | 6 | 00017 |
| 00115 | 7* | | SEQNO=SEQNO+1 | 7 | |
| 00116 | 8* | | IF (CARDIN(1).EQ.' ') GO TO 40 | 8 | 00022 |
| 00120 | 9* | | IF (CARDIN(1).EQ.'*') GO TO 10 | 9 | 00025 |
| 00122 | 10* | | DO 30 I=1,6 | 10 | 00032 |
| 00125 | 11* | 30 | WORK(1)=CARDIN(I) | 11 | |
| 00127 | 12* | | WORK(7)='D' | 12 | 00035 |
| 00130 | 13* | | NSORT=NSORT+1 | 13 | 00037 |
| 00131 | 14* | | CALL CHPACK (WORK,1,SORTBF(1,NSORT),1,7) | 14 | 00042 |
| 00132 | 15* | | FLD(6,18,SORTBF(2,NSORT))=SEQNO | 15 | 00055 |
| 00133 | 16* | 40 | DO 50 J=16,80 | 16 | 00070 |
| 00136 | 17* | | IF (CARDIN(J).NE.' ') GO TO 60 | 17 | |
| 00140 | 18* | 50 | CONTINUE | 18 | 00075 |

| | | | | |
|-------|-----|-----|--|----------|
| 00142 | 19* | | GO TO 10 | 19 |
| 00143 | 20* | 60 | IF (CARDIN(J).NE.'/') GO TO 10 | 20 00076 |
| 00145 | 21* | | IF (CARDIN(J+1).EQ.'*') GO TO 10 | 21 00102 |
| 00147 | 22* | | WORK(7)='R' | 22 00105 |
| 00150 | 23* | | I=J+2 | 23 00107 |
| 00151 | 24* | 70 | J=0 | 24 00112 |
| 00152 | 25* | | IF (CARDIN(I+1).NE.'*') GO TO 90 | 25 00113 |
| 00154 | 26* | | DO 80 J=1,6 | 26 00121 |
| 00157 | 27* | 80 | WORK(J)=CARDIN(J) | 27 |
| 00161 | 28* | | J=6 | 28 00124 |
| 00162 | 29* | | I=I+1 | 29 00126 |
| 00163 | 30* | 90 | I=I+1 | 30 00131 |
| 00164 | 31* | | IF (CARDIN(I).NE.'/') GO TO 100 | 31 00134 |
| 00166 | 32* | | NSORT=NSORT+1 | 32 00140 |
| 00167 | 33* | | SORTBF(1,NSORT)=' ' | 33 00143 |
| 00170 | 34* | | CALL CHPACK (WORK,1,SORTBF(1,NSORT),1,J) | 34 00146 |
| 00171 | 35* | | SORTBF(2,NSORT)=WORK(7) | 35 00157 |
| 00172 | 36* | | FLD(6,18,SORTBF(2,NSORT))=SEQNO | 36 00163 |
| 00173 | 37* | | CALL CHPACK (CARDIN,1,SORTBF(1,NSORT),11,80) | 37 00171 |
| 00174 | 38* | | GO TO 10 | 38 00202 |
| 00175 | 39* | 100 | IF (CARDIN(I).NE.'/') GO TO 110 | 39 00203 |
| 00177 | 40* | | NSORT=NSORT+1 | 40 00207 |
| 00200 | 41* | | SORTBF(1,NSORT)=' ' | 41 00212 |
| 00201 | 42* | | CALL CHPACK (WORK,1,SORTBF(1,NSORT),1,J) | 42 00215 |
| 00202 | 43* | | SORTBF(2,NSORT)=WORK(7) | 43 00226 |
| 00203 | 44* | | FLD(6,18,SORTBF(2,NSORT))=SEQNO | 44 00232 |
| 00204 | 45* | | CALL CHPACK (CARDIN,1,SORTBF(1,NSORT),11,80) | 45 00240 |
| 00205 | 46* | | GO TO 70 | 46 00251 |
| 00206 | 47* | 110 | J=MIN(6,J+1) | 47 00252 |
| 00207 | 48* | | WORK(J)=CARDIN(I) | 48 00261 |
| 00210 | 49* | | GO TO 90 | 49 00265 |
| 00210 | 50* | C | SORT TABLE | 50 |
| 00211 | 51* | 120 | CALL INSORT (ICOMP,NSORT,LIST,K) | 51 00266 |
| 00212 | 52* | | LINE=99 | 52 00274 |
| 00213 | 53* | 130 | IF (K.EQ.0) GO TO 190 | 53 00276 |
| 00215 | 54* | | SEQNO=FLD(6,18,SORTBF(2,K)) | 54 00300 |
| 00216 | 55* | | IF (LINE.LE.50) GO TO 150 | 55 00306 |
| 00220 | 56* | | WRITE (6,140) | 56 00311 |
| 00223 | 57* | 140 | FORMAT ('1LABEL D/R SEQ') | 57 00316 |
| 00224 | 58* | | LINE=0 | 58 |
| 00225 | 59* | 150 | LINE=LINE+1 | 59 00317 |
| 00226 | 60* | | IF (SORTBF(2,K).GT.'D') GO TO 170 | 60 00322 |
| 00230 | 61* | | WRITE (6,160) SORTBF(1,K),SORTBF(2,K),SEQNO | 61 00331 |
| 00236 | 62* | 160 | FORMAT (1X,A6,2X,A1,I6,2X,R2,13A6) | 62 00341 |
| 00237 | 63* | | GO TO 180 | 63 |
| 00240 | 64* | 170 | WRITE (6,160) SORTBF(1,K),SORTBF(2,K),SEQNO,(SORTBF(1,K),I=2,15) | 64 00342 |
| 00252 | 65* | 180 | K=LIST(K) | 65 00370 |
| 00253 | 66* | | GO TO 130 | 66 00373 |
| 00254 | 67* | 190 | WRITE (6,200) | 67 00374 |
| 00257 | 68* | 200 | FORMAT ('1') | 68 00401 |
| 00260 | 69* | | STOP | 69 |
| 00260 | 70* | C | COMPARE SUBROUTINE | 70 |
| 00260 | 71* | C | | 71 |
| 00261 | 72* | | FUNCTION ICOMP (I,J) | 72 00413 |
| 00264 | 73* | | ICOMP=SORTBF(1,I)-SORTBF(1,J) | 73 |
| 00265 | 74* | | IF (ICOMP.NE.0) RETURN | 74 00420 |
| 00267 | 75* | | ICOMP=SORTBF(2,I)-SORTBF(2,J) | 75 00424 |

00270 76* RETURN
 00270 77* C
 00271 78* END

76 00431
 77
 78 00452

0 DIAGNOSTICS

CROSS REFERENCE

10L *105, 121, 142, 144, 146, 174
 100L 165, *175
 110L 176, *206
 120L 105, *211
 130L *213, 253
 140F 220, 223
 150L 217, *225
 160F 230, 236, 240
 170L 227, *240
 180L 237, *252
 190L 214, *254
 20F 105, 114
 200F 254, 257
 40L 117, *133
 60L 137, *143
 70L *151, 205
 90L 153, *163, 210
 CARDIN 101, *105, 116, 120, 125, 136, 143, 145, 152, 157, 164, *173, 175, *204, 207
 CHPACK *131, *170, *173, *201, *204
 I 122, 125, *150, 152, *162, *163, 164, 175, 207, 240
 I 261, 264, 267
 ICOMP 261, *264, 265, *267
 INSORT *211
 J 133, 136, 143, 145, 150, *151, 154, 157, *161, *170, *201, *206, 207
 J 261, 264, 267
 K *211, 213, 215, 226, 230, 240, *252
 LINE *212, 216, *224, *225
 LIST 101, *211, 252
 MIN 206
 NSORT *104, *130, 131, 132, *166, 167, 170, 171, 172, 173, *177, 200, 201, 202, 203, 204, *211
 SEQNO 101, *115, 132, 172, 203, *215, 230, 240
 SORTBF 101, *131, *132, *167, *170, *171, *172, *173, *200, *201, *202, *203, *204, 215, 226, 230, 240, 264, 267
 WORK 101, *125, *127, *131, *147, *157, *170, 171, *201, 202, *207

CPU:1.340 CTP:.072 SUPS:6.051