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CLEAR STORAGE 1     ,008015,022026,030037,044,049,053053N000000N00001026                        1
CLEAR STORAGE 2     L068116,105106,110117B101/I9I#071029C029056B026/B001/0991,001/001117I0?     2
BOOTSTRAP           ,008015,022029,036040,047054,061068,072/061039            ,0010011040      3

                     HZG DEMO                                                  SGSVU              PAGE    1

 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD

 101                JOB   HZG DEMO
 102                CTL   6611
 103         *
 104         * CONTROL CARD LAYOUT
 105         *
 106         I3LEN  EQU   4    1-4     TAPE 3 RECORD LENGTH                          0004
 107         I3WMAX EQU   8    6-8     TAPE 3 RECORDS UNTIL REWIND                   0008
 108         I3PMAX EQU   11   10-11   TAPE 3 PROCESSING DELAY                       0011
 109         I3RDLY EQU   16   13-16   TAPE 3 REWIND DELAY                           0016
 110         I4LEN  EQU   21   18-21   TAPE 4 RECORD LENGTH                          0021
 111         I4WMAX EQU   25   23-25   TAPE 4 RECORDS UNTIL REWIND                   0025
 112         I4PMAX EQU   28   27-28   TAPE 4 PROCESSING DELAY                       0028
 113         I4RDLY EQU   33   30-33   TAPE 4 REWIND DELAY                           0033
 114         I5LEN  EQU   38   35-38   TAPE 5 RECORD LENGTH                          0038
 115         I5WMAX EQU   42   40-42   TAPE 5 RECORDS UNTIL REWIND                   0042
 116         I5PMAX EQU   45   44-45   TAPE 5 PROCESSING DELAY                       0045
 117         I5RDLY EQU   50   47-50   TAPE 5 REWIND DELAY                           0050
 118         I6LEN  EQU   55   52-55   TAPE 6 RECORD LENGTH                          0055
 119         I6WMAX EQU   59   57-59   TAPE 6 RECORDS UNTIL REWIND                   0059
 120         I6PMAX EQU   62   61-62   TAPE 6 PROCESSING DELAY                       0062
 121         I6RDLY EQU   67   64-67   TAPE 6 REWIND DELAY                           0067
 122         IRDLY  EQU   72   69-72   FULL REEL TAPE REWIND DELAY                   0072
 123         IDDLY  EQU   75   74-75   DISK PROCESSING DELAY                         0075
 124         *
 125                ORG   81           RECORD MARK AT 81 WILL BE                           0081
 126                DC    @'.....@     SENTINEL AFTER LAST LINE OF IMAGE          6  0086                         4
 127         X1     DCW   081                                                     3  0089                         4
 128                DC    @..@                                                    2  0091                         4
 129         X2     DCW   010                                                     3  0094                         4
 130                ORG   333                                                           0333
 131 03 33   START  CS    80                                                      4  0333  / 080                  5
 132 03 37          SW    1                                                       4  0337  , 001                  5
 133         *
 134         * LOAD PARAMETERS
 135         *
 136 03 41          R                                                             1  0341  1                      5
 137 03 42          MCW   I3PMAX,T3PMAX      TAPE 3 PROCESSING DELAY              7  0342  M 011 |32              5
 138 03 49          MCW   I4PMAX,T4PMAX      TAPE 4 PROCESSING DELAY              7  0349  M 028 /79              5
 139 03 56          MCW   I5PMAX,T5PMAX      TAPE 5 PROCESSING DELAY              7  0356  M 045 T26              5
 140 03 63          MCW   I6PMAX,T6PMAX      TAPE 6 PROCESSING DELAY              7  0363  M 062 U73              5
 141 03 70          MCW   IDDLY,DCNTI        DISK DELAY COUNT                     7  0370  M 075 841              6
 142 03 77          MCW   I3WMAX,T3WMAX      TAPE 3 RECORDS UNTIL REWIND          7  0377  M 008 |37              6
 143 03 84          MCW   I4WMAX,T4WMAX      TAPE 4 RECORDS UNTIL REWIND          7  0384  M 025 /84              6
 144 03 91          MCW   I5WMAX,T5WMAX      TAPE 5 RECORDS UNTIL REWIND          7  0391  M 042 T31              6
 145 03 98          MCW   I6WMAX,T6WMAX      TAPE 6 RECORDS UNTIL REWIND          7  0398  M 059 U78              6
 146 04 05          MCW   I3RDLY,T3RDLY      TAPE 3 REWIND DELAY                  7  0405  M 016 |44              7
 147 04 12          MCW   I4RDLY,T4RDLY      TAPE 4 REWIND DELAY                  7  0412  M 033 /91              7
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                     HZG DEMO                                                  SGSVU              PAGE    2

 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD

 148 04 19          MCW   I5RDLY,T5RDLY      TAPE 5 REWIND DELAY                  7  0419  M 050 T38              7
 149 04 26          MCW   I6RDLY,T6RDLY      TAPE 6 REWIND DELAY                  7  0426  M 067 U85              7
 150 04 33          MCW   IRDLY,RDELAY       REWIND FULL TAPE DELAY COUNT         7  0433  M 072 U93              7
 151         *
 152         * CALCULATE TAPE WRITE ADDRESSES FROM RECORD LENGTHS
 153         *
 154 04 40          MCW   I3LEN,RLEN         STORE TAPE 3 RECORD LENGTH           7  0440  M 004 657              8
 155 04 47          B     GETOFF             CALULATE OFFSET = - RLEN             4  0447  B 592                  8
 156 04 51          MA    ROFF,TAPE3W&6      SET TAPE 3 ADDRESS                   7  0451  # 662 995              8
 157 04 58          MCW   I4LEN,RLEN         STORE TAPE 4 RECORD LENGTH           7  0458  M 021 657              8
 158 04 65          B     GETOFF             CALCULATE OFFSET = - RLEN            4  0465  B 592                  8
 159 04 69          MA    ROFF,TAPE4W&6      SET TAPE 4 ADDRESS                   7  0469  # 662 /42              8
 160 04 76          MCW   I5LEN,RLEN         STORE TAPE 5 RECORD LENGTH           7  0476  M 038 657              9
 161 04 83          B     GETOFF             CALCULATE OFFSET = - RLEN            4  0483  B 592                  9
 162 04 87          MA    ROFF,TAPE5W&6      SET TAPE 5 ADDRESS                   7  0487  # 662 S89              9
 163 04 94          MCW   I6LEN,RLEN         STORE TAPE 6 RECORD LENGTH           7  0494  M 055 657              9
 164 05 01          B     GETOFF             CALCULATE OFFSET = - RLEN            4  0501  B 592                  9
 165 05 05          MA    ROFF,TAPE6W&6      SET TAPE 6 ADDRESS                   7  0505  # 662 U36              9
 166         *
 167         * READ THE IMAGE AND STORE IT.  THE FIRST CHARACTER AFTER THE LAST
 168         * ONE IN THE STORAGE AREA WILL BE A RECORD MARK.
 169         *
 170 05 12   RLOOP  R                                                             1  0512  1                      9
 171 05 13          LCA   81,IMAGE&X1        STORE ONE LINE OF THE IMAGE          7  0513  L 081 V|X             10
 172 05 20          B     GOTEM,A            DONE?                                5  0520  B 536 A               10
 173 05 25          MA    START&3,X1         ADD 80 TO X1                         7  0525  # 336 089             10
 174 05 32          B     RLOOP              GET ANOTHER ONE                      4  0532  B 512                 10
 175         *
 176 05 36   GOTEM  MCW   START&3,X1         RESET X1 TO 80                       7  0536  M 336 089             10
 177 05 43          CS    332                                                     4  0543  / 332                 10
 178 05 47          CS                                                            1  0547  /                     10
 179 05 48          CC    1                                                       2  0548  F 1                   11
 180 05 50          H                        WAIT FOR THE SWITCHES TO BE SET      1  0550  .                     11
 181         *
 182         * CHECK SWITCHES
 183         *
 184 05 51   SWLOOP C     KZERO,KZERO                                             7  0551  C 833 833             11
 185 05 58   PRNTSW BSS   PRINT,C            CHANGED BY PRINT TO *BE*             5  0558  B 844 C               11
 186 05 63          BSS   DISK,B                                                  5  0563  B 666 B               11
 187 05 68          BSS   TAPE3,D                                                 5  0568  B 902 D               11
 188 05 73          BSS   TAPE4,E                                                 5  0573  B |49 E               11
 189 05 78          BSS   TAPE5,F                                                 5  0578  B /96 F               12
 190 05 83          BSS   TAPE6,G                                                 5  0583  B T43 G               12
 191 05 88          B     SWLOOP                                                  4  0588  B 551                 12
 192         *
 193         * CALCULATE THE OFFSET TO TAPE WRITE ADDRESSES, GIVEN THE
 194         * RECORD LENGTH IN RLEN
 195         *
 196 05 92   GETOFF SBR   GETX&3                                                  4  0592  H 627                 12
 197 05 96          LCA   P16K,ROFF          START WITH 16000                     7  0596  L V02 662             12
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SEQ PG LIN  LABEL  OP    OPERANDS                                                 SFX CT  LOCN  INSTRUCTION TYPE  CARD

198 06 03          S     RLEN,ROFF          DECREASE BY RECORD LENGTH                  7  0603  S 657 662            12
199 06 10          MZ    RLEN,ROFF          CLEAR ZONE                                 7  0610  Y 657 662            12
200 06 17   GETL   C     KZERO,RTHOU        THOUSANDS DOWN TO ZERO?                    7  0617  C 833 659            13
201 06 24   GETX   BE    0                  YES, DONE                                  5  0624  B 000 S              13
202 06 29          MA    K1000,ROFF         ADD 1000 TO OFFSET                         7  0629  # 665 662            13
203 06 36          S     KP1,RTHOU          SUBTRACT ONE FROM THOUSANDS                7  0636  S V03 659            13
204 06 43          MZ    RLEN,RTHOU         CLEAR ZONE                                 7  0643  Y 657 659            13
205 06 50          B     GETL                                                          4  0650  B 617                13
206         *
207 06 54   RLEN   DCW   0000               RECORD LENGTH                              4  0657                       14
208 06 58   RTHOU  DCW   00                 THOUSANDS PART OF OFFSET                   2  0659                       14
209 06 60   ROFF   DC    000                OFFSET TO TAPE ADDRESS = - RLEN            3  0662                       14
210 06 63   K1000  DSA   1000               ADDRESS CONSTANT 1000                      3  0665  |00                  14
211         *
212         * 1311 DISK EXERCISER
213         *
214 06 66   DISK   SBR   DISKX&3                                                       4  0666  H 807                14
215 06 70          C     KONE,DCOUNT        IS THE COUNT ONE?                          7  0670  C 836 843            14
216 06 77          BE    DISKA              YES, EXERCISE THE DISK                     5  0677  B 700 S              14
217 06 82          S     KP1,DCOUNT         SUBTRACT ONE FROM THE COUNT                7  0682  S V03 843            14
218 06 89          MZ    KZERO,DCOUNT       CLEAR THE ZONE                             7  0689  Y 833 843            15
219 06 96          B     DISKX              GO TO SUBR EXIT                            4  0696  B 804                15
220 07 00   DISKA  LCA   DK2,DMUL           A CRUDE MULTIPLICATIVE RNG                 7  0700  L 818 811            15
221 07 07          M     DFAC,DPROD                                                    7  0707  @ 820 814            15
222 07 14          MCW   DPROD,DK2                                                     7  0714  M 814 818            15
223 07 21          LCA   KONE,DADDR1                                                   7  0721  L 836 825            15
224 07 28          MCW   DK1,DADDR1                                                    7  0728  M 816 825            16
225 07 35          A     DADDR1                                                        4  0735  A 825                16
226 07 39          MCW   KONE,DADDR2                                                   7  0739  M 836 830            16
227 07 46          MCW   %F0,DADDR,R        SEEK DISK                                  8  0746  M %F0 821 R          16
228 07 54          MCW   DCNTI,DCOUNT                                                  7  0754  M 841 843            16
229 07 61          B     DISKX              SKIP PRINTING DISK ADDRESSES               4  0761  B 804                16
230 07 65          MCW   DK1,200&X2         MOVE DISK ADDRESS TO PRINT AREA            7  0765  M 816 2!0            17
231 07 72          BCE   DISKW,X2-2,1       INDEX HIGH-ORDER DIGHT 1?                  8  0772  B 784 092 1          17
232 07 80          B     DISKY              NO                                         4  0780  B 797                17
233 07 84   DISKW  W                        YES, WRITE THE ADDRESSES                   1  0784  2                    17
234 07 85          CS    332                                                           4  0785  / 332                17
235 07 89          CS                                                                  1  0789  /                    17
236 07 90          LCA   KZERO,X2           CLEAR INDEX                                7  0790  L 833 094            17
237 07 97   DISKY  A     KTEN,X2            ADD TEN TO INDEX                           7  0797  A 839 094            18
238 08 04   DISKX  B     0                                                             4  0804  B 000                18
239         *
240 08 08   DMUL   DCW   0000                                                          4  0811                       18
241         DPROD  DC    000                                                           3  0814                       18
242 08 15   DK1    DCW   91                                                            2  0816                       18
243         DK2    DC    57                                                            2  0818                       18
244 08 19   DFAC   DCW   83                                                            2  0820                       18
245         DADDR  DC    @*@                                                           1  0821                       18
246         DADDR1 DC    0000                                                          4  0825                       18
247         DADDR2 DC    00001                                                         5  0830                       18
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SEQ PG LIN  LABEL  OP    OPERANDS                                                 SFX CT  LOCN  INSTRUCTION TYPE  CARD

248 08 31   KZERO  DCW   000                CONSTANT ZERO                              3  0833                       18
249 08 34   KONE   DCW   001                                                           3  0836                       19
250 08 37   KTEN   DCW   010                                                           3  0839                       19
251 08 40   DCNTI  DCW   00                 INITIAL DISK DELAY COUNT                   2  0841                       19
252 08 42   DCOUNT DCW   01                 CURRENT DISK DELAY COUNT                   2  0843                       19
253         *
254         * PRINT THE PICTURE
255         *
256 08 44   PRINT  SBR   PRINTX&3                                                      4  0844  H 901                19
257 08 48          MCW   KS,PRNTSW&4        CHANGE ENTRY TEST TO BE                    7  0848  M V04 562            19
258 08 55          LCA   IMAGE&X1,306                                                  7  0855  L V|X 306            19
259 08 62          W                                                                   1  0862  2                    20
260 08 63          B     PRINTA,IMAGE&1&X1,'  LAST IMAGE?                              8  0863  B 882 V|Y '          20
261 08 71          MA    START&3,X1         ADD 80 TO X1                               7  0871  # 336 089            20
262 08 78          B     PRINTX                                                        4  0878  B 898                20
263 08 82   PRINTA MCW   START&3,X1         RESET X1 TO 80                             7  0882  M 336 089            20
264 08 89          CC    1                                                             2  0889  F 1                  20
265 08 91          MCW   KC,PRNTSW&4        CHANGE ENTRY TEST TO BSS C                 7  0891  M V05 562            20
266 08 98   PRINTX B     0                                                             4  0898  B 000                21
267         *
268         * TAPE 3 EXERCISE ROUTINE
269         *
270 09 02   TAPE3  SBR   TAPE3X&3                                                      4  0902  H |14                21
271 09 06          BWZ   TAPE3A,T3RCNT,K    ENOUGH REWIND DELAY?                       8  0906  V 925 |48 K          21
272 09 14          S     KP1,T3RCNT                                                    7  0914  S V03 |48            21
273 09 21          B     TAPE3X                                                        4  0921  B |11                21
274 09 25   TAPE3A C     KONE,T3PCNT        ENOUGH PROCESSING DELAY?                   7  0925  C 836 |34            21
275 09 32          BE    TAPE3B                                                        5  0932  B 955 S              21
276 09 37          S     KP1,T3PCNT         DECR PROCESSING DELAY COUNT                7  0937  S V03 |34            22
277 09 44          MZ    KZERO,T3PCNT                                                  7  0944  Y 833 |34            22
278 09 51          B     TAPE3X                                                        4  0951  B |11                22
279 09 55   TAPE3B LCA   T3RDLY,T3RCNT      RWD DELAY DEPENDING ON REC CNT             7  0955  L |44 |48            22
280 09 62          BWZ   TAPE3E,T3WCNT,K    TIME TO REWIND?                            8  0962  V |15 |40 K          22
281 09 70          LCA   RDELAY,T3RCNT      DELAY FOR FULL REEL REWIND                 7  0970  L U93 |48            23
282 09 77          BEF   TAPE3E                                                        5  0977  B |15 K              23
283 09 82          LCA   KM1,T3RCNT         SET FOR NO REWIND DELAY                    7  0982  L U97 |48            23
284 09 89   TAPE3W MCW   %U3,GMWM,W                                                    8  0989  M %U3 V0W W          23
285 09 97          S     KP1,T3WCNT         DECREMENT WRITE COUNTER                    7  0997  S V03 |40            23
286 10 04          MCW   T3PMAX,T3PCNT      STORE PROCESSING DELAY                     7  1004  M |32 |34            24
287 10 11   TAPE3X B     0                                                             4  1011  B 000                24
288 10 15   TAPE3E CU    %U3,R                                                         5  1015  U %U3 R              24
289 10 20          MCW   T3WMAX,T3WCNT      RE-INITIALIZE WRITE COUNT                  7  1020  M |37 |40            24
290 10 27          B     TAPE3X                                                        4  1027  B |11                24
291         *
292 10 31   T3PMAX DCW   00                                                            2  1032                       24
293 10 33   T3PCNT DCW   01                                                            2  1034                       24
294 10 35   T3WMAX DCW   000                MAX RECORDS TO WRITE UNTIL REWIND          3  1037                       25
295 10 38   T3WCNT DCW   100                RECORDS TO WRITE UNTIL REWIND              3  1040                       25
296 10 41   T3RDLY DCW   0000               DELAY FOR REWIND                           4  1044                       25
297 10 45   T3RCNT DCW   -0001              COUNT WHILE REWINDING                      4  1048                       25
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                     HZG DEMO                                                                SGSVU               PAGE    5

SEQ PG LIN  LABEL  OP    OPERANDS                                                      SFX CT  LOCN  INSTRUCTION TYPE  CARD

298            *
299            * TAPE 4 EXERCISE ROUTINE
300            *
301 10 49   TAPE4  SBR   TAPE4X&3                                                            4  1049  H /61                25
302 10 53          BWZ   TAPE4A,T4RCNT,K    ENOUGH REWIND DELAY?                              8  1053  V |72 /95 K          25
303 10 61          S     KP1,T4RCNT                                                          7  1061  S V03 /95            25
304 10 68          B     TAPE4X                                                              4  1068  B /58                26
305 10 72   TAPE4A C     KONE,T4PCNT        ENOUGH PROCESSING DELAY?                         7  1072  C 836 /81            26
306 10 79          BE    TAPE4B                                                              5  1079  B /02 S              26
307 10 84          S     KP1,T4PCNT         DECR PROCESSING DELAY COUNT                      7  1084  S V03 /81            26
308 10 91          MZ    KZERO,T4PCNT                                                        7  1091  Y 833 /81            26
309 10 98          B     TAPE4X                                                              4  1098  B /58                26
310 11 02   TAPE4B LCA   T4RDLY,T4RCNT      RWD DELAY DEPENDING ON REC CNT                   7  1102  L /91 /95            27
311 11 09          BWZ   TAPE4E,T4WCNT,K    TIME TO REWIND?                                  8  1109  V /62 /87 K          27
312 11 17          LCA   RDELAY,T4RCNT      DELAY FOR FULL REEL REWIND                       7  1117  L U93 /95            27
313 11 24          BEF   TAPE4E                                                              5  1124  B /62 K              27
314 11 29          LCA   KM1,T4RCNT         SET FOR NO REWIND DELAY                          7  1129  L U97 /95            27
315 11 36   TAPE4W MCW   %U4,GMWM,W                                                          8  1136  M %U4 V0W W          28
316 11 44          S     KP1,T4WCNT         DECREMENT WRITE COUNTER                          7  1144  S V03 /87            28
317 11 51          MCW   T4PMAX,T4PCNT      STORE PROCESSING DELAY                           7  1151  M /79 /81            28
318 11 58   TAPE4X B     0                                                                   4  1158  B 000                28
319 11 62   TAPE4E CU    %U4,R                                                               5  1162  U %U4 R              28
320 11 67          MCW   T4WMAX,T4WCNT      RE-INITIALIZE WRITE COUNT                        7  1167  M /84 /87            28
321 11 74          B     TAPE4X                                                              4  1174  B /58                29
322            *
323 11 78   T4PMAX DCW   00                                                                  2  1179                       29
324 11 80   T4PCNT DCW   01                                                                  2  1181                       29
325 11 82   T4WMAX DCW   000                MAX RECORDS TO WRITE UNTIL REWIND                3  1184                       29
326 11 85   T4WCNT DCW   100                RECORDS TO WRITE UNTIL REWIND                    3  1187                       29
327 11 88   T4RDLY DCW   0000               DELAY FOR REWIND                                 4  1191                       29
328 11 92   T4RCNT DCW   -0001              COUNT WHILE REWINDING                            4  1195                       29
329            *
330            * TAPE 5 EXERCISE ROUTINE
331            *
332 11 96   TAPE5  SBR   TAPE5X&3                                                            4  1196  H T08                30
333 12 00          BWZ   TAPE5A,T5RCNT,K    ENOUGH REWIND DELAY?                              8  1200  V S19 T42 K          30
334 12 08          S     KP1,T5RCNT                                                          7  1208  S V03 T42            30
335 12 15          B     TAPE5X                                                              4  1215  B T05                30
336 12 19   TAPE5A C     KONE,T5PCNT        ENOUGH PROCESSING DELAY?                         7  1219  C 836 T28            30
337 12 26          BE    TAPE5B                                                              5  1226  B S49 S              30
338 12 31          S     KP1,T5PCNT         DECR PROCESSING DELAY COUNT                      7  1231  S V03 T28            31
339 12 38          MZ    KZERO,T5PCNT                                                        7  1238  Y 833 T28            31
340 12 45          B     TAPE5X                                                              4  1245  B T05                31
341 12 49   TAPE5B LCA   T5RDLY,T5RCNT      RWD DELAY DEPENDING ON REC CNT                   7  1249  L T38 T42            31
342 12 56          BWZ   TAPE5E,T5WCNT,K    TIME TO REWIND?                                  8  1256  V T09 T34 K          31
343 12 64          LCA   RDELAY,T5RCNT      DELAY FOR FULL REEL REWIND                       7  1264  L U93 T42            32
344 12 71          BEF   TAPE5E                                                              5  1271  B T09 K              32
345 12 76          LCA   KM1,T5RCNT         SET FOR NO REWIND DELAY                          7  1276  L U97 T42            32
346 12 83   TAPE5W MCW   %U5,GMWM,W                                                          8  1283  M %U5 V0W W          32
347 12 91          S     KP1,T5WCNT         DECREMENT WRITE COUNTER                          7  1291  S V03 T34            32
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                     HZG DEMO                                                                SGSVU               PAGE    6

SEQ PG LIN  LABEL  OP    OPERANDS                                                      SFX CT  LOCN  INSTRUCTION TYPE  CARD

348 12 98          MCW   T5PMAX,T5PCNT      STORE PROCESSING DELAY                           7  1298  M T26 T28            33
349 13 05   TAPE5X B     0                                                                   4  1305  B 000                33
350 13 09   TAPE5E CU    %U5,R                                                               5  1309  U %U5 R              33
351 13 14          MCW   T5WMAX,T5WCNT      RE-INITIALIZE WRITE COUNT                        7  1314  M T31 T34            33
352 13 21          B     TAPE5X                                                              4  1321  B T05                33
353            *
354 13 25   T5PMAX DCW   00                                                                  2  1326                       33
355 13 27   T5PCNT DCW   01                                                                  2  1328                       33
356 13 29   T5WMAX DCW   000                MAX RECORDS TO WRITE UNTIL REWIND                3  1331                       34
357 13 32   T5WCNT DCW   100                RECORDS TO WRITE UNTIL REWIND                    3  1334                       34
358 13 35   T5RDLY DCW   0000               DELAY FOR REWIND                                 4  1338                       34
359 13 39   T5RCNT DCW   -0001              COUNT WHILE REWINDING                            4  1342                       34
360            *
361            * TAPE 6 EXERCISE ROUTINE
362            *
363 13 43   TAPE6  SBR   TAPE6X&3                                                            4  1343  H U55                34
364 13 47          BWZ   TAPE6A,T6RCNT,K    ENOUGH REWIND DELAY?                              8  1347  V T66 U89 K          34
365 13 55          S     KP1,T6RCNT                                                          7  1355  S V03 U89            34
366 13 62          B     TAPE6X                                                              4  1362  B U52                35
367 13 66   TAPE6A C     KONE,T6PCNT        ENOUGH PROCESSING DELAY?                         7  1366  C 836 U75            35
368 13 73          BE    TAPE6B                                                              5  1373  B T96 S              35
369 13 78          S     KP1,T6PCNT         DECR PROCESSING DELAY COUNT                      7  1378  S V03 U75            35
370 13 85          MZ    KZERO,T6PCNT                                                        7  1385  Y 833 U75            35
371 13 92          B     TAPE6X                                                              4  1392  B U52                35
372 13 96   TAPE6B LCA   T6RDLY,T6RCNT      RWD DELAY DEPENDING ON REC CNT                   7  1396  L U85 U89            36
373 14 03          BWZ   TAPE6E,T6WCNT,K    TIME TO REWIND?                                  8  1403  V U56 U81 K          36
374 14 11          LCA   RDELAY,T6RCNT      DELAY FOR FULL REEL REWIND                       7  1411  L U93 U89            36
375 14 18          BEF   TAPE6E                                                              5  1418  B U56 K              36
376 14 23          LCA   KM1,T6RCNT         SET FOR NO REWIND DELAY                          7  1423  L U97 U89            36
377 14 30   TAPE6W MCW   %U6,GMWM,W                                                          8  1430  M %U6 V0W W          37
378 14 38          S     KP1,T6WCNT         DECREMENT WRITE COUNTER                          7  1438  S V03 U81            37
379 14 45          MCW   T6PMAX,T6PCNT      STORE PROCESSING DELAY                           7  1445  M U73 U75            37
380 14 52   TAPE6X B     0                                                                   4  1452  B 000                37
381 14 56   TAPE6E CU    %U6,R                                                               5  1456  U %U6 R              37
382 14 61          MCW   T6WMAX,T6WCNT      RE-INITIALIZE WRITE COUNT                        7  1461  M U78 U81            37
383 14 68          B     TAPE6X                                                              4  1468  B U52                38
384            *
385 14 72   T6PMAX DCW   00                                                                  2  1473                       38
386 14 74   T6PCNT DCW   01                                                                  2  1475                       38
387 14 76   T6WMAX DCW   000                MAX RECORDS TO WRITE UNTIL REWIND                3  1478                       38
388 14 79   T6WCNT DCW   100                RECORDS TO WRITE UNTIL REWIND                    3  1481                       38
389 14 82   T6RDLY DCW   0000               DELAY FOR REWIND                                 4  1485                       38
390 14 86   T6RCNT DCW   -0001              COUNT WHILE REWINDING                            4  1489                       38
391            *
392 14 90   RDELAY DCW   0000               DELAY COUNTER FOR EOT REWINDS                    4  1493                       39
393 14 94   KM1    DCW   -0001              CONSTANT -1                                      4  1497                       39
394            *
395 14 98   P16K   DCW   &16000                                                              5  1502                       39
396 15 03   KP1    DCW   &1                 CONSTANT +1                                      1  1503                       39
397 15 04   KS     DCW   @S@                CONSTANT S TO CHANGE BSS TO BE                   1  1504                       39
```

```
SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD

398 15 05   KC     DCW   @C@                CONSTANT C TO CHANGE BE TO BSS       1  1505                      39
399                DS    4000                                                       5505
400         GMWM   DCW   @}@                                                  1  5506              GMARK    40
401         IMAGE  DS    1                                                          5507
402                END   START                                                            / 333 080
```


SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
DADDR	821	DADDR1	825	DADDR2	830	DCNTI	841	DCOUNT	843	DFAC	820	DISK	666
DISKA	700	DISKW	784	DISKX	804	DISKY	797	DK1	816	DK2	818	DMUL	811
DPROD	814	GETL	617	GETOFF	592	GETX	624	GMWM	5506	GOTEM	536	I3LEN	4
I3PMAX	11	I3RDLY	16	I3WMAX	8	I4LEN	21	I4PMAX	28	I4RDLY	33	I4WMAX	25
I5LEN	38	I5PMAX	45	I5RDLY	50	I5WMAX	42	I6LEN	55	I6PMAX	62	I6RDLY	67
I6WMAX	59	IDDLY	75	IMAGE	5507	IRDLY	72	K1000	665	KC	1505	KM1	1497
KONE	836	KP1	1503	KS	1504	KTEN	839	KZERO	833	P16K	1502	PRINT	844
PRINTA	882	PRINTX	898	PRNTSW	558	RDELAY	1493	RLEN	657	RLOOP	512	ROFF	662
RTHOU	659	START	333	SWLOOP	551	T3PCNT	1034	T3PMAX	1032	T3RCNT	1048	T3RDLY	1044
T3WCNT	1040	T3WMAX	1037	T4PCNT	1181	T4PMAX	1179	T4RCNT	1195	T4RDLY	1191	T4WCNT	1187
T4WMAX	1184	T5PCNT	1328	T5PMAX	1326	T5RCNT	1342	T5RDLY	1338	T5WCNT	1334	T5WMAX	1331
T6PCNT	1475	T6PMAX	1473	T6RCNT	1489	T6RDLY	1485	T6WCNT	1481	T6WMAX	1478	TAPE3	902
TAPE3A	925	TAPE3B	955	TAPE3E	1015	TAPE3W	989	TAPE3X	1011	TAPE4	1049	TAPE4A	1072
TAPE4B	1102	TAPE4E	1162	TAPE4W	1136	TAPE4X	1158	TAPE5	1196	TAPE5A	1219	TAPE5B	1249
TAPE5E	1309	TAPE5W	1283	TAPE5X	1305	TAPE6	1343	TAPE6A	1366	TAPE6B	1396	TAPE6E	1456
TAPE6W	1430	TAPE6X	1452	X1	89	X2	94						