```
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         IDPSW  EQU   80           PRINT DISK ADDRESSES IF NON BLANK             0080
 125         *
 126                ORG   81           RECORD MARK AT 81 WILL BE                           0081
 127                DC    @'@          SENTINEL AFTER LAST LINE OF IMAGE        1   0081                    4
 128         KP1    DCW   &1                                                    1   0082                    4
 129         KB     DCW   #1           CHANGES BSS C TO BRANCH                  1   0083                    4
 130         KC     DCW   @C@          CHANGES BRANCH TO BSS C                  1   0084                    4
 131                DC    @..@                                                  2   0086                    4
 132         X1     DCW   081                                                   3   0089                    4
 133                DC    @..@                                                  2   0091                    4
 134         X2     DCW   010                                                   3   0094                    5
 135                DC    @..@                                                  2   0096                    5
 136         X3     DCW   000                                                   3   0099                    5
 137         GMWM   DCW   @"@                                                   1   0100                    5
 138                ORG   336                                                           0336
 139         *
 140         * LOAD PARAMETERS
 141         *
 142         START  R                                                           1   0336  1                 6
 143                MCW   I3RDLY,T3RDLY      TAPE 3 REWIND DELAY               7   0337  M 016 |39         6
 144                MCW                      TAPE 3 PROCESSING DELAY           1   0344  M                 6
 145                MCW                      TAPE 3 RECORDS UNTIL REWIND       1   0345  M                 6
 146                MCW   I4RDLY,T4RDLY      TAPE 4 REWIND DELAY               7   0346  M 033 |67         6
 147                MCW                      TAPE 4 PROCESSING DELAY           1   0353  M                 6
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SEQ PG LIN  LABEL   OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
148                 MCW                     TAPE 4 RECORDS UNTIL REWIND     1  0354  M                   6
149                 MCW   I5RDLY,T5RDLY     TAPE 5 REWIND DELAY             7  0355  M 050 |95           7
150                 MCW                     TAPE 5 PROCESSING DELAY         1  0362  M                   7
151                 MCW                     TAPE 5 RECORDS UNTIL REWIND     1  0363  M                   7
152                 MCW   I6RDLY,T6RDLY     TAPE 6 REWIND DELAY             7  0364  M 067 /23           7
153                 MCW                     TAPE 6 PROCESSING DELAY         1  0371  M                   7
154                 MCW                     TAPE 6 RECORDS UNTIL REWIND     1  0372  M                   7
155                 MCW   IRDLY,RDELAY      REWIND FULL TAPE DELAY COUNT    7  0373  M 072 /44           7
156                 MCW   IDDLY,DCNTI       DISK DELAY COUNT                7  0380  M 075 656           8
157         *
158         * CALCULATE TAPE WRITE ADDRESSES FROM RECORD LENGTHS
159         *
160                 B     GETOFF            CALULATE OFFSET = - I3LEN       4  0387  B 917               8
161                 DSA   I3LEN             TAPE 3 RECORD LENGTH            3  0393  004                 8
162                 DSA   TAPE3W&6          TAPE 3 WRITE INSTRUCTION        3  0396  |46                 8
163                 B     GETOFF            CALULATE OFFSET = - I4LEN       4  0397  B 917               8
164                 DSA   I4LEN             TAPE 4 RECORD LENGTH            3  0403  021                 8
165                 DSA   TAPE4W&6          TAPE 4 WRITE INSTRUCTION        3  0406  |74                 8
166                 B     GETOFF            CALULATE OFFSET = - I5LEN       4  0407  B 917               9
167                 DSA   I5LEN             TAPE 5 RECORD LENGTH            3  0413  038                 9
168                 DSA   TAPE5W&6          TAPE 5 WRITE INSTRUCTION        3  0416  /02                 9
169                 B     GETOFF            CALULATE OFFSET = - I6LEN       4  0417  B 917               9
170                 DSA   I6LEN             TAPE 6 RECORD LENGTH            3  0423  055                 9
171                 DSA   TAPE6W&6          TAPE 6 WRITE INSTRUCTION        3  0426  /30                 9
172         *
173                 SW    1                                                 4  0427  , 001               9
174                 BCE   *&8,IDPSW,        IS IDPSW BLANK?                 8  0431  B 446 080           10
175                 CW    DISKB             TURN ON DISK ADDRESS PRINTING   4  0439  ) 585               10
176         *
177                 B     RDIMAG            READ AND STORE THE IMAGE        4  0443  B 659               10
178         *
179         * EVENT LOOP -- CHECK SWITCHES TO DETERMINE ACTIONS
180         *
181         SWLOOP BSS    PRINT,C           D-MOD CHANGED BY PRINT TO BLANK 5  0447  B 705 C            10
182                BSS    DISK,B            EXERCISE 1311                   5  0452  B 497 B            10
183                BSS    TAPEX,D           EXERCISE TAPE 3                 5  0457  B 763 D            10
184                NOP    T3PAKT                                            4  0462  N |31              10
185                BSS    TAPEX,E           EXERCISE TAPE 4                 5  0466  B 763 E            11
186                NOP    T4PAKT                                            4  0471  N |59              11
187                BSS    TAPEX,F           EXERCISE TAPE 5                 5  0475  B 763 F            11
188                NOP    T5PAKT                                            4  0480  N |87              11
189                BSS    TAPEX,G           EXERCISE TAPE 6                 5  0484  B 763 G            11
190                NOP    T6PAKT                                            4  0489  N /15              11
191                B      SWLOOP                                            4  0493  B 447              11
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SEQ PG LIN  LABEL   OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
192                 JOB   HZG DEMO -- 1311 DISK EXERCISER
193         *
194         * 1311 DISK EXERCISER
195         *
196         DISK    SBR   DISKX&3                                     4  0497  H 625               12
197                 BWZ   DISKA,DCOUNT,K     IS THE COUNT NEGATIVE?   8  0501  V 520 658 K         12
198                 S     KP1,DCOUNT         SUBTRACT ONE FROM THE COUNT 7  0509  S 082 658          12
199                 B     DISKX              GO TO SUBR EXIT          4  0516  B 622               12
200         DISKA   LCA   DK2,DMUL           A CRUDE MULTIPLICATIVE RNG 7  0520  L 636 629          12
201                 M     DFAC,DPROD                                  7  0527  @ 638 632          12
202                 MCW   DPROD,DK2                                   7  0534  M 632 636          13
203                 LCA   KONE,DADDR1                                 7  0541  L 654 643          13
204                 MCW   DK1,DADDR1                                  7  0548  M 634 643          13
205                 A     DADDR1                                      4  0555  A 643              13
206                 MCW   KONE,DADDR2                                 7  0559  M 654 648          13
207                 MCW   %F0,DADDR,R        SEEK DISK                8  0566  M %F0 639 R         14
208                 MCW   DCNTI,DCOUNT                                7  0574  M 656 658          14
209                 B     DISKX              SKIP PRINTING DISK ADDRESSES 4  0581  B 622           14
210         DISKB   DCW   @}@                GM WITHOUT WM TURNS OFF BRANCH 1  0585  GMARK      14
211                 MCW   DK1,200&X2         MOVE DISK ADDRESS TO PRINT AREA 7  0586  M 634 2!0      14
212                 BCE   DISKW,X2-2,1       INDEX HIGH-ORDER DIGHT 1?  8  0593  B 605 092 1       14
213                 B     DISKY              NO                       4  0601  B 615               14
214         DISKW   W                        YES, WRITE THE ADDRESSES 1  0605  2                   15
215                 CS                                                1  0606  /                   15
216                 CS                                                1  0607  /                   15
217                 SBR   X2,0               CLEAR INDEX              7  0608  H 094 000          15
218         DISKY   SBR   X2,10&X2           ADD TEN TO INDEX         7  0615  H 094 0J0          15
219         DISKX   B     0                                           4  0622  B 000              15
220         *
221         DMUL    DCW   0000                                        4  0629                      15
222         DPROD   DC    000                                         3  0632                      15
223         DK1     DCW   91                                          2  0634                      16
224         DK2     DC    57                                          2  0636                      16
225         DFAC    DCW   83                                          2  0638                      16
226         DADDR   DC    @*@                                         1  0639                      16
227         DADDR1  DC    0000                                        4  0643                      16
228         DADDR2  DC    00001                                       5  0648                      16
229         KZERO   DCW   000                CONSTANT ZERO            3  0651                      16
230         KONE    DCW   001                                         3  0654                      16
231         DCNTI   DCW   00                 INITIAL DISK DELAY COUNT 2  0656                      16
232         DCOUNT  DCW   01                 CURRENT DISK DELAY COUNT 2  0658                      16
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SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD

233                JOB   HZG DEMO -- PRINT THE PICTURE
234         *
235         * READ THE IMAGE AND STORE IT.  THE FIRST CHARACTER AFTER THE LAST
236         * ONE IN THE STORAGE AREA WILL BE A RECORD MARK.
237         *
238         RDIMAG SBR   RDEXIT&3                                   4  0659  H 704              17
239         RLOOP  R                                                1  0663  1                  17
240                LCA   81,IMAGE&X1        STORE ONE LINE OF THE IMAGE  7  0664  L 081 /U9        17
241                B     GOTEM,A            DONE?                     5  0671  B 687 A           17
242                SBR   X1,80&X1           ADD 80 TO X1              7  0676  H 089 0Y0         17
243                B     RLOOP              GET ANOTHER ONE           4  0683  B 663             17
244         *
245         GOTEM  SBR   X1,80              RESET X1 TO 80            7  0687  H 089 080         17
246                CS    332                                         4  0694  / 332              18
247                CS                                                1  0698  /                  18
248                CC    1                                           2  0699  F 1                18
249         RDEXIT H     0                  WAIT FOR THE SWITCHES TO BE SET  4  0701  . 000       18
250         *
251         * PRINT THE PICTURE
252         *
253         PRINT  SBR   PRINTX&3                                   4  0705  H 762              18
254                MCW   KB,SWLOOP&4        MAKE ENTRY TEST UNCONDITIONAL  7  0709  M 083 451     18
255                LCA   IMAGE&X1,306                                7  0716  L /U9 306          18
256                W                                                 1  0723  2                  19
257                B     PRINTA,IMAGE&1&X1,'  LAST IMAGE?            8  0724  B 743 /V0 '        19
258                SBR   X1,80&X1           ADD 80 TO X1              7  0732  H 089 0Y0         19
259                B     PRINTX                                      4  0739  B 759              19
260         PRINTA SBR   X1,80              RESET X1 TO 80            7  0743  H 089 080         19
261                CC    1                                           2  0750  F 1                19
262                MCW   KC,SWLOOP&4        CHANGE ENTRY TEST TO BSS C  7  0752  M 084 451        19
263         PRINTX B     0                                           4  0759  B 000              20
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SEQ PG LIN  LABEL   OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD

264                 JOB   HZG DEMO -- TAPE EXERCISER
265         *
266         * TAPE EXERCISER PACKET LAYOUT
267         *
268         TWMAX   EQU   2&X3    NUMBER OF RECORDS INITIAL VALUE              0002 X
269         TPMAX   EQU   5&X3    PROCESSING DELAY INITIAL VALUE               0005 X
270         TRDLY   EQU   10&X3   REWIND DELAY INITIAL VALUE                   0010 X
271         TWRIT   EQU   18&X3   TAPE WRITE INSTRUCTION LAST CHAR             0018 X
272         TPCNT   EQU   20&X3   CURRENT PROCESSING DELAY COUNT               0020 X
273         TWCNT   EQU   23&X3   CURRENT RECORDS UNTIL REWIND                 0023 X
274         TRCNT   EQU   27&X3   CURRENT REWIND DELAY COUNT                   0027 X
275         *
276         * TAPE EXERCISER.  FOLLOW  B TAPEX  WITH  NOP PACKET
277         *
278         TAPEX   SBR   TAPEXX&3                                        4  0763  H 893              21
279                 SBR   X3                                              4  0767  H 099              21
280                 MCW   4&X3,X3             ADDRESS OF PACKET TO X3     7  0771  M 0?4 099          21
281                 BWZ   TAPEXA,TRCNT,K      ENOUGH REWIND DELAY?        8  0778  V 797 0B7 K        21
282                 S     KP1,TRCNT                                       7  0786  S 082 0B7          21
283                 B     TAPEXX                                          4  0793  B 890              21
284         TAPEXA  C     KONE,TPCNT          ENOUGH PROCESSING DELAY?    7  0797  C 654 0B0          22
285                 BE    TAPEXB                                          5  0804  B 827 S            22
286                 S     KP1,TPCNT           DECR PROCESSING DELAY COUNT 7  0809  S 082 0B0          22
287                 MZ    KZERO,TPCNT                                     7  0816  Y 651 0B0          22
288                 B     TAPEXX                                          4  0823  B 890              22
289         TAPEXB  LCA   TRDLY,TRCNT         RWD DELAY DEPENDING ON REC CNT 7  0827  L 0A0 0B7        22
290                 BWZ   TAPEXE,TWCNT,K      TIME TO REWIND?             8  0834  V 894 0B3 K        23
291                 LCA   RDELAY,TRCNT        DELAY FOR FULL REEL REWIND  7  0842  L /44 0B7          23
292                 BEF   TAPEXE                                          5  0849  B 894 K            23
293                 LCA   KM1,TRCNT           SET FOR NO REWIND DELAY     7  0854  L /48 0B7          23
294                 MCW   TWRIT,*&8           COPY TAPE WRITE INSTRUCTION 7  0861  M 0A8 875          23
295                 WT    3,GMWM                                          8  0868  M %U3 100 W        24
296                 S     KP1,TWCNT           DECREMENT WRITE COUNTER     7  0876  S 082 0B3          24
297                 MCW   TPMAX,TPCNT         STORE PROCESSING DELAY      7  0883  M 0?5 0B0          24
298         TAPEXX  B     0                                               4  0890  B 000              24
299         TAPEXE  MN    TWRIT-4,*&4         SET DRIVE NUMBER IN REWIND  7  0894  D 0A4 904          24
300                 RWD   3                                               5  0901  U %U3 R            24
301                 MCW   TWMAX,TWCNT         RE-INITIALIZE WRITE COUNT   7  0906  M 0?2 0B3          25
302                 B     TAPEXX                                          4  0913  B 890              25
303         *
304         * OFFSET THE TAPE WRITE ADDRESS, GIVEN THE RECORD LENGTH
305         * DO THIS BY MA-ING THE 16000-COMPLEMENT OF THE RECORD
306         * LENGTH TO THE ADDRESS IN THE TAPE WRITE INSTRUCTION
307         *
308         GETOFF  SBR   X3                                              4  0917  H 099              25
309                 SBR   GETXX&3,6&X3                                    7  0921  H |11 0?6          25
310                 LCA   P16K,ROFF           START WITH 16001            7  0928  L |28 |20          25
311                 MCW   2&X3,*&4            ADDRESS OF RECORD LENGTH    7  0935  M 0?2 945          25
312                 S     0,ROFF              DECREASE BY RECORD LENGTH   7  0942  S 000 |20          26
313                 MZ    KZERO,ROFF          CLEAR ZONE                  7  0949  Y 651 |20          26
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SEQ PG LIN  LABEL   OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
314         GETL    S     KP1,RTHOU                                   7  0956  S 082 |17           26
315                 BWZ   GETX,RTHOU,K       DONE?                    8  0963  V 982 |17 K         26
316                 MA    K1000,ROFF         ADD 1000 TO OFFSET       7  0971  # |23 |20          26
317                 B     GETL                                        4  0978  B 956              27
318         GETX    MCW   5&X3,X3            ADDRESS OF TAPE WRITE    7  0982  M 0?5 099          27
319                 CS    0                  GET LAST ADDRESS TO B REG 4 0989  / 000              27
320                 LCA   GMWM               GMWM TO TOP OF MEMORY    4  0993  L 100              27
321                 SBR   0&X3               LAST ADDRESS IN MEMORY - 1 4 0997  H 0?0              27
322                 MA    ROFF,0&X3          SUBTRACT RECORD LENGTH   7  1001  # |20 0?0          27
323         GETXX   B     0                                           4  1008  B 000              27
324         *
325         RLEN    DCW   0000               RECORD LENGTH            4  1015                     28
326         RTHOU   DCW   00                 THOUSANDS PART OF OFFSET 2  1017                     28
327         ROFF    DC    000                OFFSET TO TAPE ADDRESS = - RLEN 3 1020                28
328         K1000   DSA   1000               ADDRESS CONSTANT 1000    3  1023 |00                 28
329         P16K    DCW   16001                                       5  1028                     28
330         *
331         * TAPE EXERCISER CONTROL PACKETS
332         *
333         T3PAKT  DCW   000     NUMBER OF RECORDS INITIAL VALUE      3  1031                     28
334                 DC    #1      FILLER FROM CONTROL CARD             1  1032                     28
335                 DCW   00      PROCESSING DELAY INITIAL VALUE       2  1034                     28
336                 DC    #1      FILLER FROM CONTROL CARD             1  1035                     28
337         T3RDLY  DCW   0000    REWIND DELAY INITIAL VALUE           4  1039                     28
338         TAPE3W  WT    3,0     TAPE WRITE INSTRUCTION               8  1040  M %U3 000 W        29
339                 DCW   00      CURRENT PROCESSING DELAY COUNT       2  1049                     29
340                 DCW   000     CURRENT RECORDS UNTIL REWIND         3  1052                     29
341                 DCW   -0001   CURRENT REWIND DELAY COUNT           4  1056                     29
342         *
343         T4PAKT  DCW   000     NUMBER OF RECORDS INITIAL VALUE      3  1059                     29
344                 DC    #1      FILLER FROM CONTROL CARD             1  1060                     29
345                 DCW   00      PROCESSING DELAY INITIAL VALUE       2  1062                     29
346                 DC    #1      FILLER FROM CONTROL CARD             1  1063                     29
347         T4RDLY  DCW   0000    REWIND DELAY INITIAL VALUE           4  1067                     29
348         TAPE4W  WT    4,0     TAPE WRITE INSTRUCTION               8  1068  M %U4 000 W        30
349                 DCW   00      CURRENT PROCESSING DELAY COUNT       2  1077                     30
350                 DCW   000     CURRENT RECORDS UNTIL REWIND         3  1080                     30
351                 DCW   -0001   CURRENT REWIND DELAY COUNT           4  1084                     30
352         *
353         T5PAKT  DCW   000     NUMBER OF RECORDS INITIAL VALUE      3  1087                     30
354                 DC    #1      FILLER FROM CONTROL CARD             1  1088                     30
355                 DCW   00      PROCESSING DELAY INITIAL VALUE       2  1090                     30
356                 DC    #1      FILLER FROM CONTROL CARD             1  1091                     30
357         T5RDLY  DCW   0000    REWIND DELAY INITIAL VALUE           4  1095                     30
358         TAPE5W  WT    5,0     TAPE WRITE INSTRUCTION               8  1096  M %U5 000 W        31
359                 DCW   00      CURRENT PROCESSING DELAY COUNT       2  1105                     31
360                 DCW   000     CURRENT RECORDS UNTIL REWIND         3  1108                     31
361                 DCW   -0001   CURRENT REWIND DELAY COUNT           4  1112                     31
362         *
363         T6PAKT  DCW   000     NUMBER OF RECORDS INITIAL VALUE      3  1115                     31
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SEQ PG LIN  LABEL   OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD

364                 DC    #1      FILLER FROM CONTROL CARD            1  1116                      31
365                 DCW   00      PROCESSING DELAY INITIAL VALUE      2  1118                      31
366                 DC    #1      FILLER FROM CONTROL CARD            1  1119                      31
367         T6RDLY  DCW   0000    REWIND DELAY INITIAL VALUE          4  1123                      31
368         TAPE6W  WT    6,0     TAPE WRITE INSTRUCTION              8  1124  M %U6 000 W         32
369                 DCW   00      CURRENT PROCESSING DELAY COUNT      2  1133                      32
370                 DCW   000     CURRENT RECORDS UNTIL REWIND        3  1136                      32
371                 DCW   -0001   CURRENT REWIND DELAY COUNT          4  1140                      32
372         *
373         RDELAY  DCW   0000    DELAY COUNTER FOR EOT REWINDS       4  1144                      32
374         KM1     DCW   -0001   CONSTANT -1                         4  1148                      32
375         *
376         IMAGE   DS    1       STORAGE FOR IMAGE STARTS HERE          1149
377                 END   START                                              / 336 080
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SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
DADDR	639	DADDR1	643	DADDR2	648	DCNTI	656	DCOUNT	658	DFAC	638	DISK	497
DISKA	520	DISKB	585	DISKW	605	DISKX	622	DISKY	615	DK1	634	DK2	636
DMUL	629	DPROD	632	GETL	956	GETOFF	917	GETX	982	GETXX	1008	GMWM	100
GOTEM	687	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	IDPSW	80	IMAGE	1149	IRDLY	72
K1000	1023	KB	83	KC	84	KM1	1148	KONE	654	KP1	82	KZERO	651
P16K	1028	PRINT	705	PRINTA	743	PRINTX	759	RDELAY	1144	RDEXIT	701	RDIMAG	659
RLEN	1015	RLOOP	663	ROFF	1020	RTHOU	1017	START	336	SWLOOP	447	T3PAKT	1031
T3RDLY	1039	T4PAKT	1059	T4RDLY	1067	T5PAKT	1087	T5RDLY	1095	T6PAKT	1115	T6RDLY	1123
TAPE3W	1040	TAPE4W	1068	TAPE5W	1096	TAPE6W	1124	TAPEX	763	TAPEXA	797	TAPEXB	827
TAPEXE	894	TAPEXX	890	TPCNT	20+X3	TPMAX	5+X3	TRCNT	27+X3	TRDLY	10+X3	TWCNT	23+X3
TWMAX	2+X3	TWRIT	18+X3	X1	89	X2	94	X3	99				