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BOOTSTRAP FOR CLEAR ,008015,022026,030040/019,001L020100   ,047054,061068,072072)0810811022                 1
CLEAR OR BOOTSTRAP  ,008047/047046       /000H025B022100  4/061046,054061,068072,0010401040                 2

                          YET ANOTHER LOADER                                                       PAGE    1

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

 101                JOB   YET ANOTHER LOADER
 102         *
 103         * 1-5   BRANCH TO ,,BACK,, WITH D=BLANK TO LOAD THE CARD, OR
 104         * 1-5   BRANCH TO PROGRAM WITH D=BLANK, OR
 105         * 1-7   /XXX080 TO CS AND BRANCH TO THE PROGRAM AT XXX, OR
 106         * 1-7   ,008YYY TO START A NEW LOADER
 107         * IF 1-5 IS BRANCH TO BACK...
 108         * 6-8   WHERE TO LOAD COLUMN 80
 109         * 9     0-5-8 SENTINEL
 110         * 10-80 DATA TO LOAD, PUT 0-5-8 BEFORE CHARACTER TO GET WM
 111         *       IF 10 IS NOT 0-5-8, IT **DOES NOT** GET WM
 112         *
 113         * USES 87-193 SO ANOTHER LOADER MUST BE USED TO LOAD THOSE AREAS
 114         * AFTER THIS ONE IS FINISHED.
 115         *
 116                SFX   A                                               A
 117         X1     EQU   089                FOR SEARCHING CARD FOR 0-5-8      A      0089
 118         X2     EQU   094                TOP ADDRESS OF FIELD IN CARD      A      0094
 119         X3     EQU   099                TOP ADDRESS OF FIELD IN CORE      A      0099
 120                ORG   97                                               A              0097
 121                DCW   #3                 X3 GETS A WM                      A   3  0099                     3
 122         *
 123         NOWM   CW    1&X3               FIRST FIELD ON CARD WANTS NO WM   A   4  0100  ) 0?1              3
 124         READ   CS    80                 CLEAR WMS SET TO LOAD FIELDS      A   4  0104  / 080              3
 125                SW    1                                                A   4  0108  , 001              3
 126                R     1                  RETURN TO ,,BACK,, OR THE PROGRAM A   4  0112  1 001              3
 127         BACK   SBR   X1,80                                            A   7  0116  H 089 080          3
 128                MCW   8,X3                                             A   7  0123  M 008 099          3
 129         OUTER  SBR   X2,0&X1            X2 NOW TOP OF NEXT FIELD IN CARD  A   7  0130  H 094 0|0          4
 130         INNER  BCE   FOUND,0&X1,=       SEARCH BACKWARD FOR 0-5-8         A   8  0137  B 153 0|0 =        4
 131                SBR   X1                 X1 DOWN TO NEXT CHARACTER OF CARD A   4  0145  H 089              4
 132                B     INNER                                            A   4  0149  B 137              4
 133         FOUND  SW    1&X1               ON THE CHARACTER AFTER 0-5-8      A   4  0153  , 0|1              4
 134                MN                       X1 DOWN TO CHARACTER              A   1  0157  D                  4
 135                SBR   X1                   OF CARD BEFORE 0-5-8            A   4  0158  H 089              4
 136                LCA   0&X2,0&X3          MOVE THE FIELD                    A   7  0162  L 0!0 0?0          5
 137                SBR   X3                 X3 DOWN TO NEXT DESTINATION       A   4  0169  H 099              5
 138                BW    READ,11            PROCESSED 0-5-8 IN CC 10          A   8  0173  V 104 011 1        5
 139                BW    NOWM,10            PROCESSED 0-5-8 IN CC 9           A   8  0181  V 100 010 1        5
 140                B     OUTER                                            A   4  0189  B 130              5
 141                DCW   #1                                               A   1  0193                     5
 142                EX    READ                                             A              B 104              5
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SEQ PG LIN  LABEL  OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD

143                JOB   AND ANOTHER ONE                                  A
144         *
145         * IF CC 4 = 0-5-8...
146         * 1-3  WHERE TO LOAD COLUMN 80
147         * 5-80 DATA TO LOAD, PUT 0-5-8 BEFORE CHARACTER TO GET WM
148         *       IF 5 IS NOT 0-5-8, IT **DOES NOT** GET WM
149         * IF CC 4 IS NOT 0-5-8, LOADER BRANCHES TO 1, SO E.G.
150         * 1-5 BXXX WITH D=BLANK TO START PROGRAM, OR
151         * 1-7 /XXX080 TO CS AND START PROGRAM, OR
152         * 1-7 ,008YYY TO START NEW LOADER
153         *
154         * USES 87-202, SO ANOTHER LOADER MUST BE USED TO LOAD IN THAT
155         * AREA AFTER THIS ONE IS FINISHED
156         *
157                SFX   B                                                B
158         X1     EQU   089                FOR SEARCHING CARD FOR 0-5-8      B      0089
159         X2     EQU   094                TOP ADDRESS OF FIELD IN CARD      B      0094
160         X3     EQU   099                TOP ADDRESS OF FIELD IN CORE      B      0099
161                ORG   100                                              B             0100
162         *
163         NOWM   CW    1&X3               FIRST FIELD ON CARD WANTS NO WM   B   4  0100  ) 0?1               6
164         READ   CS    80                 CLEAR WMS SET TO LOAD FIELDS      B   4  0104  / 080               6
165                SW    1                                                B   4  0108  , 001               6
166                R                                                      B   1  0112  1                   6
167                BCE   BACK,4,=           LOAD THE CARD IF 0-5-8            B   8  0113  B 125 004 =         6
168                B     1                  RUN THE PROGRAM                   B   4  0121  B 001               6
169         BACK   SBR   X1,80                                            B   7  0125  H 089 080           6
170                LCA   3,X3                                             B   7  0132  L 003 099           7
171         OUTER  SBR   X2,0&X1            X2 NOW TOP OF NEXT FIELD IN CARD  B   7  0139  H 094 0|0           7
172         INNER  BCE   FOUND,0&X1,=       SEARCH BACKWARD FOR 0-5-8         B   8  0146  B 162 0|0 =         7
173                SBR   X1                 X1 DOWN TO NEXT CHARACTER OF CARD B   4  0154  H 089               7
174                B     INNER                                            B   4  0158  B 146               7
175         FOUND  SW    1&X1               ON THE CHARACTER AFTER 0-5-8      B   4  0162  , 0|1               7
176                MN                       X1 DOWN TO CHARACTER              B   1  0166  D                   7
177                SBR   X1                   OF CARD BEFORE 0-5-8            B   4  0167  H 089               8
178                LCA   0&X2,0&X3          MOVE THE FIELD                    B   7  0171  L 0!0 0?0           8
179                SBR   X3                 X3 DOWN TO NEXT DESTINATION       B   4  0178  H 099               8
180                BW    READ,6             PROCESSED 0-5-8 IN CC 5           B   8  0182  V 104 006 1         8
181                BW    NOWM,5             PROCESSED 0-5-8 IN CC 4           B   8  0190  V 100 005 1         8
182                B     OUTER                                            B   4  0198  B 139               8
183                DCW   #1                                               B   1  0202                      8
184                EX    READ                                             B            B 104               8
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SEQ PG LIN  LABEL  OP    OPERANDS                                            SFX CT  LOCN  INSTRUCTION TYPE  CARD

185                JOB   AND A THIRD ONE                                      B
186         *
187         * IF CC 9 = 0-5-8...
188         * 1-3   TOP COLUMN TO LOAD
189         * 4-5   NOT USED
190         * 6-8   WHERE TO LOAD TOP
191         * 9     0-5-8 SENTINEL
192         * 10-80 DATA TO LOAD, PUT 0-5-8 BEFORE CHARACTER TO GET WM
193         *        IF 10 IS NOT 0-5-8, IT **DOES NOT** GET WM
194         * IF CC 9 IS NOT 0-5-8, LOADER BRANCHES TO 1, SO E.G.
195         * 1-5 BXXX WITH D=BLANK TO START PROGRAM, OR
196         * 1-7 /XXX080 TO CS AND START PROGRAM, OR
197         * 1-7 ,008YYY TO START NEW LOADER
198         *
199         * USES 87-194, SO ANOTHER LOADER MUST BE USED TO LOAD IN THAT
200         * AREA AFTER THIS ONE IS FINISHED
201         *
202                SFX   C                                                    C
203         X1     EQU   089               FOR SEARCHING CARD FOR 0-5-8      C      0089
204         X2     EQU   094               TOP ADDRESS OF FIELD IN CORE      C      0094
205         X3     EQU   099               TOP ADDRESS OF FIELD IN CARD      C      0099
206         *
207                ORG   100                                                  C             0100
208         NOWM   CW    1&X2              FIRST FIELD ON CARD WANTS NO WM   C   4  0100  ) 0!1                9
209         READ   CS    80                CLEAR WMS SET TO LOAD FIELDS      C   4  0104  / 080                9
210                SW    1                                                    C   4  0108  , 001                9
211                BCE   BACK,9,=          LOAD THE CARD IF 0-5-8            C   8  0112  B 124 009 =          9
212                B     1                 RUN THE PROGRAM                   C   4  0120  B 001                9
213         BACK   MCW   8,X2              TOP AND WHERE TO LOAD IT TO X1,X2 C   7  0124  M 008 094            9
214         OUTER  SBR   X3,0&X1           X3 NOW TOP OF NEXT FIELD IN CARD  C   7  0131  H 099 0|0            9
215         INNER  BCE   FOUND,0&X1,=      SEARCH BACKWARD FOR 0-5-8         C   8  0138  B 154 0|0 =         10
216                SBR   X1                X1 DOWN TO NEXT CHARACTER OF CARD C   4  0146  H 089               10
217                B     INNER                                                C   4  0150  B 138               10
218         FOUND  SW    1&X1              ON THE CHARACTER AFTER 0-5-8      C   4  0154  , 0|1               10
219                MN                      X1 DOWN TO CHARACTER              C   1  0158  D                   10
220                SBR   X1                  OF CARD BEFORE 0-5-8            C   4  0159  H 089               10
221                LCA   0&X3,0&X2         MOVE THE FIELD                    C   7  0163  L 0?0 0!0           10
222                SBR   X2                X2 DOWN TO NEXT DESTINATION       C   4  0170  H 094               11
223                BW    READ,11           PROCESSED 0-5-8 IN CC 10          C   8  0174  V 104 011 1         11
224                BW    NOWM,10           PROCESSED 0-5-8 IN CC 9           C   8  0182  V 100 010 1         11
225                B     OUTER                                                C   4  0190  B 131               11
226                DCW   #1                                                   C   1  0194                      11
227                EX    READ                                                 C            B 104               11
228                END                                                        C            / 000 080
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SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
BACK A	116	BACK B	125	BACK C	124	FOUNDA	153	FOUNDB	162	FOUNDC	154	INNERA	137
INNERB	146	INNERC	138	NOWM A	100	NOWM B	100	NOWM C	100	OUTERA	130	OUTERB	139
OUTERC	131	READ A	104	READ B	104	READ C	104	X1 A	89	X1 B	89	X1 C	89
X2 A	94	X2 B	94	X2 C	94	X3 A	99	X3 B	99	X3 C	99		