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

101                 JOB   CARD 1 OF DUMP FROM GERMANY
103         * SET WORD MARKS
104                 ORG   1                                                    0001
105                 SW    A1,A2                                          7  0001  , 008 012
106         A1      SW    A3                                             4  0008  , 016
107         A2      SW    A4                                             4  0012  , 023
108         A3      SW    A5,A6                                          7  0016  , 030 034
109         A4      SW    A7,A8                                          7  0023  , 041 048
110         A5      SW    A9                                             4  0030  , 049
111         A6      SW    A10,A11                                        7  0034  , 056 063
112         A7      SW    BLOOP,A13                                      7  0041  , 022 072
113         A8      SW                                                   1  0048  ,
114         A9      SW    A14,A15                                        7  0049  , 074 076
115         A10     SW    A16,A12                                        7  0056  , 080 067
116         A11     CW    A4                                             4  0063  ) 023
117         A12     SW    B1                                             4  0067  , 029
118                 W                                                    1  0071  2
119         A13        2)                                                2  0072  2 )
120         A14        N0                                                2  0074  N 0
121         A15     R     BSTART                                         4  0076  1 012
122         A16     NOP                                                  1  0080  N
```



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

123                 JOB   CARD 2 OF DUMP FROM GERMANY
124                 ORG   1                                                    0001
125         BDOTS2  DCW   @..@                                           2  0002
126                 DC    @..5..@                                        5  0007
127         BADDR   DCW   210                                            3  0010
128                 DC    @ @                                            1  0011
129         BSTART  CS    332              MAKE SURE 330 IS NOT ZERO     4  0012  / 332
130                    N0 0                                              5  0016  N 000 0
131                 NOP                                                  1  0021  N
132         BLOOP   LCA   BADDR,210                                      7  0022  L 010 210
133         B1      LCA                                                  1  0029  L
134                 CW    A8                                             4  0030  ) 048
135                 A     BREAD+1,BADDR                                  7  0034  A 077 010
136                 BCE   BDONE,330,0                                    8  0041  B 067 330 0
137                 A     BREAD+1,BLOOP+6                                7  0049  A 077 028
138                 LCA   BDOTS2,332                                     7  0056  L 002 332
139                 B     BLOOP                                          4  0063  B 022
140         BDONE   CW    B1                                             4  0067  ) 029
141                 W                                                    1  0071  2
142                    N0                                                2  0072  N 0
143                    N0                                                2  0074  N 0
144         BREAD   R     CSTART                                         4  0076  1 012
145                 DCW   #1                                             1  0080
```

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

146                 JOB   CARD 3 OF DUMP FROM GERMANY
147                 ORG   1                                                      0001
148         CGOTWM  MCW   CNOP,CDONE                                    7  0001  M 080 067
149                 B     CCONT                                         4  0008  B 034
150         CSTART  SW    C1                                            4  0012  , 017
151                 NOP                                                 1  0016  N
152         C1      CS    332                                           4  0017  / 332
153                 NOP                                                 1  0021  N
154                 BW    CGOTWM,101                                    8  0022  V 001 101 1
155                 SW    101                                           4  0030  , 101
156         CCONT   LCA   101,201                                       7  0034  L 101 201
157                 BCE   CDONE,CCONT+4,3                               8  0041  B 067 038 3
158                 A     CREAD,CCONT+3                                 7  0049  A 076 037
159                 A     CREAD,CCONT+6                                 7  0056  A 076 040
160                 B     CCONT                                         4  0063  B 034
161         CDONE   CW    201                                           4  0067  ) 201
162                 W                                                   1  0071  2
163                    2)                                               2  0072  2 )
164                    N0                                               2  0074  N 0
165         CREAD   R     DSTART                                        4  0076  1 012
166         CNOP    NOP                                                 1  0080  N
```



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

167                 JOB   CARD 4 OF DUMP FROM GERMANY
168                 ORG   1                                                      0001
169                 DCW   @....5..@                                     7  0007
170         DADDR   DCW   110                                           3  0010
171                 DC    #1                                            1  0011
172         DSTART  CS    300              MAKE SURE 300 IS NOT ZERO    4  0012  / 300
173                 NOP                                                 1  0016  N
174                 SW    D1                                            4  0017  , 029
175                 NOP                                                 1  0021  N
176         DLOOP   LCA   DADDR,210                                     7  0022  L 010 210
177         D1      LCA                                                 1  0029  L
178                 NOP   0                                             4  0030  N 000
179                 A     DREAD+1,DADDR                                 7  0034  A 077 010
180                 BCE   DDONE,300,0                                   8  0041  B 067 300 0
181                 A     DREAD+1,DLOOP+6                               7  0049  A 077 028
182                 NOP   0,0                                           7  0056  N 000 000
183                 B     DLOOP                                         4  0063  B 022
184         DDONE   CW    D1                                            4  0067  ) 029
185                 W                                                   1  0071  2
186                    N0                                               2  0072  N 0
187                    N0                                               2  0074  N 0
188         DREAD   R     ESTART                                        4  0076  1 017
189                 NOP                                                 1  0080  N
```

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

190                 JOB   CARD 5 OF DUMP FROM GERMANY
191                 ORG   1                                        0001
192         EGOTWM  MCW   ENOP,EDONE                   7  0001  M 080 067
193                 B     ECONT                        4  0008  B 034
194                 DCW   #4                           4  0015
195                 DCW   #1                           1  0016
196         ESTART  CS    300                          4  0017  / 300
197                 CS                                 1  0021  /
198                 BW    EGOTWM,81                    8  0022  V 001 081 1
199                 SW    81                           4  0030  , 081
200         ECONT   LCA   81,281                       7  0034  L 081 281
201                 BCE   EDONE,ECONT+4,3              8  0041  B 067 038 3
202                 A     EREAD,ECONT+3                7  0049  A 076 037
203                 A     EREAD,ECONT+6                7  0056  A 076 040
204                 B     ECONT                        4  0063  B 034
205         EDONE   CW    281                          4  0067  ) 281
206                 W                                  1  0071  2
207                    2)                              2  0072  2 )
208                    N0                              2  0074  N 0
209         EREAD   R     FSTART                       4  0076  1 030
210         ENOP    NOP                                1  0080  N
```



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

211                 JOB   CARD 6 OF DUMP FROM GERMANY
212                 ORG   1                                        0001
213         FDOTS   DCW   @......*1*..*2*..*3*.@      20  0020
214                 DC    #9                           9  0029
215         FSTART  SW    F1                           4  0030  , 048
216                 CW    A1,A2                        7  0034  ) 008 012
217                 CW    BLOOP,C1                     7  0041  ) 022 017
218         F1      CW                                 1  0048  )
219                 LCA   FDOTS,300                    7  0049  L 020 300
220                 SW    GINDEX-4,GAUS-2              7  0056  , 023 016
221                 R     GSTART                       4  0063  1 034
222                 DCW   #4                           4  0070
223                 DCW   #1                           1  0071
224                 DCW   #2                           2  0073
225                 DCW   #2                           2  0075
226                 DCW   #4                           4  0079
227                 DCW   #1                           1  0080
```

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

228                 JOB   CARD 7 OF DUMP FROM GERMANY
229                 ORG   1                                        0001
230         GUMS    DCW   @UMSCHALTER EIN@            14  0014
231                 DC    #1                           1  0015
232         GAUS    DCW   @AUS@                       3  0018
233                 DCW   #4                           4  0022
234         GINDEX  DCW   @INDEX@                      5  0027
235                 DC    #2                           2  0029
236                 DCW   #4                           4  0033
237         GSTART  LCA   GINDEX,280                   7  0034  L 027 280
238                 LCA   GINDEX,305                   7  0041  L 027 305
239                 NOP                                1  0048  N
240                 LCA   GUMS,214                     7  0049  L 014 214
241                 LCA   GAUS,234                     7  0056  L 018 234
242                 CW    A14                          4  0063  ) 074
243                 CW    A12                          4  0067  ) 067
244                 NOP                                1  0071  N
245                 SW    HLOOP                        4  0072  , 011
246                 R     HLOOP                        4  0076  1 011
247                 DCW   #1                           1  0080
```



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

248                 JOB   CARD 8 OF DUMP FROM GERMANY
249                 ORG   1                                        0001
250         HINC    DCW   2                            1  0001
251                 DC    #9                           9  0010
252         HLOOP   BSS   HON,B                        5  0011  B 034 B
253         HOFF    MCW   HSWICH,236                   7  0016  M 080 236
254                 A     HINC,HOFF+6                  7  0023  A 001 022
255                 B     HCONT                        4  0030  B 049
256         HON     MCW   HSWICH,216                   7  0034  M 080 216
257                 A     HINC,HON+6                   7  0041  A 001 040
258                 NOP                                1  0048  N
259         HCONT   A     HREAD,HLOOP+4                7  0049  A 076 015
260                 A     HREAD,HSWICH                 7  0056  A 076 080
261                 BCE   HREAD,HSWICH,H               8  0063  B 076 080 H
262                 NOP                                1  0071  N
263                 B     HLOOP                        4  0072  B 011
264         HREAD   R     ISTART                       4  0076  1 034
265         HSWICH  DCW   @B@                          1  0080
```

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

266                 JOB   CARD 9 OF DUMP FROM GERMANY
267                 ORG   101                                                                 0101
268         * CLEAR CORE AT 299, THEN AT 80, SET A WORD MARK AT 1, READ AND
269         * BRANCH TO 1.  LOADED FROM 16 6O 116
270         ICLR1   CS    299                                                      4  0101  / 299
271         ICLR2   CS    80                                                       4  0105  / 080
272         ICLR3   SW    JSTART                                                   4  0109  , 001
273         ICLR4   R     JSTART                                                   4  0113  1 001
274         * START OF THE CARD...
275                 ORG   1                                                                 0001
276         ILOAD   DCW   @/299/080,0011001@                                      16  0016
277                 DC    #6                                                       6  0022
278                 DCW   #7                                                       7  0029
279                 DCW   #4                                                       4  0033
280         ISTART  SW    I1,I2                                                    7  0034  , 067 074
281                 CW    HLOOP,HOFF                                               7  0041  ) 011 016
282                 CW                                                             1  0048  )
283                 LCA   ILOAD,ICLR4+3                                            7  0049  L 016 116
284                 SW    ICLR4+4,ICLR4                                            7  0056  , 117 113
285                 SW    ICLR3                                                    4  0063  , 109
286         I1      SW    ICLR2                                                    4  0067  , 105
287                 W                                                              1  0071  2
288                    N0                                                          2  0072  N 0
289         I2      CC    K                                                        2  0074  F K
290                 B     ICLR1                                                    4  0076  B 101
```



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

291                 JOB   CARD 10 OF DUMP FROM GERMANY
292         *
293                 ORG   75                                                                  0075
294                 MCW   175,105                                                  7  0075  M 175 105
295                 MCW                                                            1  0082  M
296                 MCW   172,114                                                  7  0083  M 172 114
297                 MCW   175,119                                                  7  0090  M 175 119
298                 SW    245                                                      4  0097  , 245
299                 MCW   333,245                                                  7  0101  M 333 245
300                 BW    120,331                                                  8  0108  V 120 331 1
301                 CW    245                                                      4  0116  ) 245
302                 A     168,175                                                  7  0120  A 168 175
303                 MA                                                             1  0127  #
304                 C     175,179                                                  7  0128  C 175 179
305                 BU    068                                                      5  0135  B 068 /
306                 W                                                              1  0140  2
307                    2)                                                          2  0141  2 )
308                    N0                                                          2  0143  N 0
309                 MN    14,173                                                   7  0145  D 014 173
310                 C     51,191                                                   7  0152  C 051 191
311                 BU    1                                                        5  0159  B 001 /
312                 R     PSTART                                                   4  0164  1 001
313                 DCW   1                                                        1  0168
314                 DCW   1                                                        1  0169
315                 DCW   333                                                      3  0172
316                 DCW   245                                                      3  0175
317                 DCW   22                                                       2  0177
318                 DCW   12                                                       2  0179
319                 DCW   @.....5..@                                               8  0187
320                 DCW   39                                                       2  0189
321                 DCW   00400                                                    5  0194
322         ZONE    DC    @-ZONE @                                                 6  0200
323                 ORG   1                                                                 0001
324         JSTART  SW    J1,J2                                                    7  0001  , 008 015
325         J1      SW    J3,J4                                                    7  0008  , 022 023
326         J2      SW    J5,J6                                                    7  0015  , 027 031
327         J3      NOP                                                            1  0022  N
328         J4      SW    J7                                                       4  0023  , 038
329         J5      SW    J8                                                       4  0027  , 042
330         J6      LCA   JCODE,ZONE                                               7  0031  L 078 200
331         J7      R     KSTART                                                   4  0038  1 001
332         J8      EQU   *+1                                                         0042
333         JCODE   DCW   @1001113332452212.....5..3900400-ZONE @                 37  0078
```

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

334                 JOB   CARD 11 OF DUMP FROM GERMANY
335                 ORG   1                                                              0001
336         KSTART  LCA   KCODE,119                                          7  0001  L 080 119
337                 SW    190,188                                            7  0008  , 190 188
338                 SW    170,83                                             7  0015  , 170 083
339                 SW                                                       1  0022  ,
340                 SW    180                                                4  0023  , 180
341                 SW    178                                                4  0027  , 178
342                 SW    176,68                                             7  0031  , 176 068
343                 R     LSTART                                             4  0038  1 001
344         KCODE   DCW   @7MM172114M175119,245M333245V1203331)245@          39  0080
```



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

345                 JOB   CARD 12 OF DUMP FROM GERMANY
346                 ORG   1                                                              0001
347         LSTART  LCA   LCODE2,163                                         7  0001  L 079 163
348                 LCA   LCODE1,144                                         7  0008  L 066 144
349                 SW    141,64                                             7  0015  , 141 064
350                 SW                                                       1  0022  ,
351                 SW    180                                                4  0023  , 180
352                 SW    178                                                4  0027  , 178
353                 SW    176,68                                             7  0031  , 176 068
354                 R     MSTART                                             4  0038  1 001
355         LCODE1  DCW   @A168175#C175179B068/22)N0@                       25  0066
356                 DC    #1                                                 1  0067
357         LCODE2  DCW   @C051191B001/@                                     12  0079
```

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

358                 JOB   CARD 13 OF DUMP FROM GERMANY
359                 ORG   1                                        0001
360         MSTART  LCA   MCODE+6,151                   7  0001  L 073 151
361                 SW    173,168                       7  0008  , 173 168
362                 SW    159,143                       7  0015  , 159 143
363                 NOP                                 1  0022  N
364                 SW    135,128                       7  0023  , 135 128
365                 CW    42,81                         7  0030  ) 042 081
366                 SW    127,116                       7  0037  , 127 116
367                 SW    108                           4  0044  , 108
368                 SW    101,97                        7  0048  , 101 097
369                 SW    90,90                         7  0055  , 090 090
370                 NOP                                 1  0062  N
371                 R     NSTART                        4  0063  1 001
372         MCODE   MN    14,173                        7  0067  D 014 173
```



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

373                 JOB   CARD 14 OF DUMP FROM GERMANY
374                 ORG   1                                        0001
375         NSTART  MCS   200,211                     7  0001  Z 200 211
376                 MCW   172,205                     7  0008  M 172 205
377                 LCA   37,251                      7  0015  L 037 251
378                 NOP                               1  0022  N
379                 B     NCONT                       4  0023  B 038
380                 DCW   #4                          4  0030
381                 DCW   @,,5,,39@                   7  0037
382         NCONT   CW    27,27                       7  0038  ) 027 027
383                 R     OSTART                      4  0045  1 023
```

```
SEQ PG LIN  LABEL   OP    OPERANDS                    SFX CT  LOCN  INSTRUCTION TYPE  CARD
384                 JOB   CARD 15 OF DUMP FROM GERMANY
385                 ORG   1                                        0001
386                 MCS   200,211                        7  0001  Z 200 211
387                 A     169,192                        7  0008  A 169 192
388                 LCA   189,251                        7  0015  L 189 251
389                 LCA                                  1  0022  L
390         OSTART  BCE   49,188,9                       8  0023  B 049 188 9
391                 A     169,188                        7  0031  A 169 188
392                 A     169,20                         7  0038  A 169 020
393                 B     15                             4  0045  B 015
394                 MN    80,188                         7  0049  D 080 188
395                 MCW   177,20                         7  0056  M 177 020
396                 W                                    1  0063  2
397                 CW    299                            4  0064  ) 299
398                 MCW   175,100                        7  0068  M 175 100
399                 MCW   175,107                        7  0075  M 175 107
```



```
SEQ PG LIN  LABEL   OP    OPERANDS                    SFX CT  LOCN  INSTRUCTION TYPE  CARD
400                 JOB   CARD 16 OF DUMP FROM GERMANY
401                 ORG   1                                        0001
402         PSTART  SW    27,35                          7  0001  , 027 035
403                 SW    36,54                          7  0008  , 036 054
404                 NOP   0,0                            7  0015  N 000 000
405                 NOP                                  1  0022  N
406                 SW    65                             4  0023  , 065
407                 CW    75                             4  0027  ) 075
408                 CS    332                            4  0031  / 332
409                 CS                                   1  0035  /
410                    N0                                2  0036  N 0
411                 LCA   PUMSCH,213                     7  0038  L 079 213
412                 NOP   0                              4  0045  N 000
413                 BLC   63                             5  0049  B 063 A
414                      N0                              2  0054  N 0
415                 LCA   PAUS,213                       7  0056  L 066 213
416                 H                                    1  0063  .
417         PAUS    DCW   @AUS@                          3  0066
418                 DC    #1                             1  0067
419         PUMSCH  DCW   @UMSCH. A EIN@                12  0079
420                 END                                          / 333 080
```

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
A1	8	A10	56	A11	63	A12	67	A13	72	A14	74	A15	76
A16	80	A2	12	A3	16	A4	23	A5	30	A6	34	A7	41
A8	48	A9	49	B1	29	BADDR	10	BDONE	67	BDOTS2	2	BLOOP	22
BREAD	76	BSTART	12	C1	17	CCONT	34	CDONE	67	CGOTWM	1	CNOP	80
CREAD	76	CSTART	12	D1	29	DADDR	10	DDONE	67	DLOOP	22	DREAD	76
DSTART	12	ECONT	34	EDONE	67	EGOTWM	1	ENOP	80	EREAD	76	ESTART	17
F1	48	FDOTS	20	FSTART	30	GAUS	18	GINDEX	27	GSTART	34	GUMS	14
HCONT	49	HINC	1	HLOOP	11	HOFF	16	HON	34	HREAD	76	HSWICH	80
I1	67	I2	74	ICLR1	101	ICLR2	105	ICLR3	109	ICLR4	113	ILOAD	16
ISTART	34	J1	8	J2	15	J3	22	J4	23	J5	27	J6	31
J7	38	J8	42	JCODE	78	JSTART	1	KCODE	80	KSTART	1	LCODE1	66
LCODE2	79	LSTART	1	MCODE	67	MSTART	1	NCONT	38	NSTART	1	OSTART	23
PAUS	66	PSTART	1	PUMSCH	79	ZONE	200						