```
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
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                        FORTRAN COMPILER -- SHIFT CFL PHASE -- PHASE 50B                        PAGE   1

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

101                     JOB   FORTRAN COMPILER -- SHIFT CFL PHASE -- PHASE 50B
102                     CTL   6611
103            *
104            * CONSTANTS, FORMATS AND LIST STRINGS ARE MOVED INTO THEIR
105            * OBJECT CORE-STORAGE LOCATIONS ABOVE ARRAY STORAGE.  ARRAY
106            * STORAGE-AREA IS CLEARED.
107            *
108            * ON ENTRY X3 IS AT THE TOP OF THE MOVED-DOWN CODE.
109            *
110            X1     EQU   89                                                  0089
111            X2     EQU   94                                                  0094
112            X3     EQU   99                                                  0099
113            *
114            * STUFF IN THE RESIDENT AREA
115            *
116            PHASID EQU   110  PHASE ID, FOR SNAPSHOT DUMPS                    0110
117            TBLBOT EQU   145  ONE BELOW NUMBERS, FORMATS, I/O LISTS          0145
118            SEQTAB EQU   148  BOTTOM OF SEQUENCE NUMBER TABLE - 2            0148
119            ARYSIZ EQU   160  TOTAL ARRAY SIZE & 2                           0160
120            NEGARY EQU   163  16000 - ARYSIZ                                 0163
121            ARYTOP EQU   194  TOP OF ARRAYS IN OBJECT CODE                   0194
122            SNAPSH EQU   333  CORE DUMP SNAPSHOT                             0333
123            TOPCOR EQU   688  TOP CORE ADDRESS FROM PARAM CARD               0688
124            LOADNX EQU   700  LOAD NEXT OVERLAY                              0700
125            CLEARL EQU   707  CS AT START OF OVERLAY LOADER                  0707
126            TPREAD EQU   780  TAPE READ INSTRUCTION IN OVERLAY LOADER        0780
127            LOADXX EQU   793  EXIT FROM OVERLAY LOADER                       0793
128            CLRBOT EQU   833  BOTTOM OF CORE TO CLEAR IN OVERLAY LOADER      0833
129            *
130            * STUFF FROM THE PREVIOUS PHASE
131            *
132            ADR5B  EQU   891                                                 0891
133            ADR5   EQU   896                                                 0896
134            CONV35 EQU   969  CONVERT ADDRESS IN ADR5 TO DIGITS IN ADR5B     0969
135            TOOBIG EQU   1092                                                1092
136            *
137                   ORG   1175                                                    1175
138            LOADDD EQU   *&1            LOAD ADDRESS                         1175
139  1 175  BEGINN C     TOPCOR,ARYTOP                                  7  1175  C 688 194         4
140  1 182         BE    DONE                                           5  1182  B V49 S           4
141  1 187         MCW   SEQTAB,X1                                      7  1187  M 148 089         4
142  1 194         MCW   SEQTAB,X2                                      7  1194  M 148 094         4
143  1 201         MA    NEGARY,X2                                      7  1201  # 163 094         4
144  1 208         SBR   SX3&6,0&X3                                     7  1208  H U89 0?0         5
145  1 215         CW    ADR5-2                                         4  1215  ) 894             5
146  1 219         MCW   X2,ADR5                                        7  1219  M 094 896         5
147  1 226         B     CONV35                                         4  1226  B 969             5
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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION TYPE	CARD
148	1	230		MCW	ADR5B,W5A		7	1230	M 891 V94	5
149	1	237		MCW	X3,ADR5		7	1237	M 099 896	5
150	1	244		B	CONV35		4	1244	B 969	6
151	1	248		MCW	ADR5B,W5B		7	1248	M 891 V99	6
152	1	255		C	W5A,W5B		7	1255	C V94 V99	6
153	1	262		BH	TOOBIG		5	1262	B |92 U	6
154	1	267		MCW	SEQTAB,ADR5		7	1267	M 148 896	6
155	1	274		B	CONV35		4	1274	B 969	6
156	1	278		MCW	ADR5B,W5C		7	1278	M 891 W04	7
157	1	285		MCW	ARYTOP,ADR5		7	1285	M 194 896	7
158	1	292		B	CONV35		4	1292	B 969	7
159	1	296		MCW	ADR5B,W5D		7	1296	M 891 W09	7
160	1	303		C	W5C,W5D		7	1303	C W04 W09	7
161	1	310		BL	NOSQMV		5	1310	B T93 T	7
162			*							
163			* MOVE SEQUENCE NUMBER TABLE DOWN BY THE ARRAY SIZE							
164			*							
165	1	315	SEQMV	MA	KA001,X1		7	1315	# W12 089	8
166	1	322		MA	KA001,X2		7	1322	# W12 094	8
167	1	329		BW	SEQMV3,0&X1		8	1329	V T82 0|0 1	8
168	1	337		CW	0&X2		4	1337	) 0!0	8
169	1	341		MN	0&X1,0&X2		7	1341	D 0|0 0!0	8
170	1	348		MZ	0&X1,0&X2		7	1348	Y 0|0 0!0	9
171	1	355	SEQMV2	CW	0&X1		4	1355	) 0|0	9
172	1	359		C	X1,ARYTOP		7	1359	C 089 194	9
173	1	366		BU	SEQMV		5	1366	B T15 /	9
174	1	371		MCW	ARYTOP,X3		7	1371	M 194 099	9
175	1	378		B	NOSQV2		4	1378	B U00	9
176	1	382	SEQMV3	LCA	0&X1,0&X2		7	1382	L 0|0 0!0	10
177	1	389		B	SEQMV2		4	1389	B T55	10
178			*							
179			* DON'T MOVE THE SEQUENCE NUMBER TABLE							
180			*							
181	1	393	NOSQMV	MCW	SEQTAB,X3		7	1393	M 148 099	10
182	1	400	NOSQV2	BW	*&9,1&X3		8	1400	V U16 0?1 1	10
183	1	408		CW	FLAG		4	1408	) W13	10
184	1	412		SW	1&X3		4	1412	, 0?1	10
185			*							
186			* MOVE CONSTANTS AND STRINGS UP							
187			*							
188	1	416		MCW	TOPCOR,X1		7	1416	M 688 089	11
189	1	423		MCW	ARYTOP,X2		7	1423	M 194 094	11
190	1	430	MOVEUP	LCA	0&X1,0&X2		7	1430	L 0|0 0!0	11
191	1	437		SBR	X2		4	1437	H 094	11
192	1	441		SBR	X1		4	1441	H 089	11
193	1	445		MA	ARYSIZ,X1		7	1445	# 160 089	11
194	1	452		C	X1,X3		7	1452	C 089 099	12
195	1	459		BU	MOVEUP		5	1459	B U30 /	12
196	1	464		BW	SX3,FLAG		8	1464	V U83 W13 1	12
197	1	472		MA	NEGARY,X3		7	1472	# 163 099	12

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

198  1 479         CW   1&X3                                                 4  1479  ) 0?1                  12
199  1 483  SX3    SBR  X3,0                                                 7  1483  H 099 000              12
200  1 490         MA   NEGARY,83                                           7  1490  # 163 083              13
201  1 497         MA   NEGARY,TBLBOT                                       7  1497  # 163 145              13
202  1 504         MA   NEGARY,SEQTAB                                       7  1504  # 163 148              13
203  1 511         MCW  TOPCOR,X1                                           7  1511  M 688 089              13
204  1 518  CSLOOP C    X1,ARYTOP                                           7  1518  C 089 194              13
205  1 525         BE   DONE                                                5  1525  B V49 S                14
206  1 530         MCW  KB1,0&X1                                            7  1530  M W14 0|0              14
207  1 537         CW   0&X1                                                4  1537  ) 0|0                  14
208  1 541         SBR  X1                                                  4  1541  H 089                  14
209  1 545         B    CSLOOP                                              4  1545  B V18                  14
210             *
211  1 549  DONE   BSS  SNAPSH,C                                            5  1549  B 333 C                14
212  1 554         SBR  TPREAD&6,838                                        7  1554  H 786 838              14
213  1 561         SBR  CLRBOT                                              4  1561  H 833                  15
214  1 565         SBR  LOADXX&3,838                                        7  1565  H 796 838              15
215  1 572         SBR  CLEARL&3,GMWM                                       7  1572  H 710 W24              15
216  1 579         LCA  REPLAC,PHASID                                       7  1579  L W23 110              15
217  1 586         B    LOADNX                                              4  1586  B 700                  15
218             *
219             * DATA
220             *
221  1 594  W5A    DCW  #5                                                  5  1594                         15
222  1 599  W5B    DCW  #5                                                  5  1599                         15
223  1 604  W5C    DCW  #5                                                  5  1604                         16
224  1 609  W5D    DCW  #5                                                  5  1609                         16
225  1 612  KA001  DSA  1                                                   3  1612  001                    16
226  1 613  FLAG   DCW  #1                                                  1  1613                         16
227  1 614  KB1    DCW  #1                                                  1  1614                         16
228  1 623  REPLAC DCW  @REPLACE 1@                                         9  1623                         16
229  1 624  GMWM   DCW  @}@                                                 1  1624          GMARK          16
230             ORG  201                                                       0201
231    203         DSA  LOADDD    LOAD ADDRESS FOR CARD-TO-TAPE PROGRAM     3  0203  /75                    17
232             EX   BEGINN                                                       B /75                  18
233             END                                                              / 000 080
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SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
ADR5	896	ADR5B	891	ARYSIZ	160	ARYTOP	194	BEGINN	1175	CLEARL	707	CLRBOT	833
CONV35	969	CSLOOP	1518	DONE	1549	FLAG	1613	GMWM	1624	KA001	1612	KB1	1614
LOADDD	1175	LOADNX	700	LOADXX	793	MOVEUP	1430	NEGARY	163	NOSQMV	1393	NOSQV2	1400
PHASID	110	REPLAC	1623	SEQMV	1315	SEQMV2	1355	SEQMV3	1382	SEQTAB	148	SNAPSH	333
SX3	1483	TBLBOT	145	TOOBIG	1092	TOPCOR	688	TPREAD	780	W5A	1594	W5B	1599
W5C	1604	W5D	1609	X1	89	X2	94	X3	99				