

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

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1401					AUTOCODER-PASS 3-TRANSLATOR-INITIAL			3731L		PAGE	1
101	1	01	003	JOB	1401 AUTOCODER-PASS 3-TRANSLATOR-INITIAL						
102	1	02		CTL	630 1						
103	1	03		*							
104	1	04		*EQUATES							
105	1	05		*							
106	1	06	INTAPE	EQU	8U6			8U6			
107	1	07	OUTAPE	EQU	8U4			8U4			
108	1	08	SYSTAP	EQU	8U1			8U1			
109	1	09	INITAP	EQU	8U0			8U0			
110	1	10	XXXX	EQU	0000			0000			
111	1	11	PRINT	EQU	200			0200			
112	1	12	LIBRN	EQU	000			0000			
113	1	13		*							
114	1	14		*TAPE REDUNDANCY ROUTINE							
115	1	15		*							
116	1	16	ORG	RTEND&1				2210			
117	1	17	TPERR	SBR	XL3	4	2210	H 099			4
118	1	18	SBR	REDXT&3		4	2214	H K82			4
119	1	19	MZ	&9,XL3		7	2218	Y M60 099			4
120	1	20	MCW	4000-10&X3,TPINS&7	BRING IN INSTRUCTION	7	2225	M I10 K73			4
121	1	21	MN	TPINS&3,BSP1&3	THAT CAUSED	7	2232	D K69 K49			4
122	1	22	MCW	TPINS&7,INST2&7	REDUNDANCY	7	2239	M K73 L82			4
123	1	23	BSP1	BSP	INITAP	5	2246	U 8U0 B			5
124	1	24	BCE	WRTRD,TPINS&7,W	Q. WRITE REDUNDANCY	8	2251	B L55 K73 W			5
125	1	25	MCW	&9,RDCT#1	INITIALIZE COUNTER	7	2259	M M60 M61			5
126	1	26	TPINS	RT	INITAP,XXXX	8	2266	M 8U0 000 R			5
127	1	27	BER	RDERR	Q. REDUNDANCY AGAIN	5	2274	B K83 L			5
128	1	28	REDXT	B	XXXX	4	2279	B 000			5
129	1	29	RDERR	MN	TPINS&3,BSP2&3	7	2283	D K69 K93			6
130	1	30	BSP2	BSP	INITAP	5	2290	U 8U0 B			6
131	1	31	S		REDUCE COUNTER	7	2295	S M62 M61			6
132	1	32	BWZ	TPINS,RDCT,B	Q. 10 SUCCESSIVE READS	8	2302	V K66 M61 B			6
133	1	33	MN	TPINS&3,TPHLT&6		7	2310	D K69 L23			6
134	1	34	TPHLT	H	XXXX,390	7	2317	. 000 390			7
135	1	35	MCW	TPINS&7,*&8		7	2324	M K73 L38			7
136	1	36	RT	INITAP,XXXX	RE-READ	8	2331	M 8U0 000 R			7
137	1	37	BSS	BSP1,E	DETERMINE OPTION	5	2339	B K46 E			7
138	1	38	H	XXXX,302	HALT AGAIN	7	2344	. 000 302			7
139	1	39	B	REDXT	EXIT	4	2351	B K79			7
140	1	40	WRTRD	SKP	SYSTAP	5	2355	U 8U1 E			8
141	1	41	BCE	SBCTR,WRTRC-1,5	Q. FIFTY SKIPS	8	2360	B L92 M63 5			8
142	1	42	A	&1,WRTRC#2	INCREASE COUNTER	7	2368	A M62 M64			8
143	1	43	INST2	RT	INITAP,XXXX	8	2375	M 8U0 000 W			8
144	1	44	BER	BSP1	Q. REDUNDANCY AGAIN	5	2383	B K46 L			8
145	1	45	B	REDXT		4	2388	B K79			8
146	1	46	SBCTR	S	WRTRC	4	2392	S M64			9
147	1	47	MN	TPINS&3,*&7	RESET COUNTER	7	2396	D K69 M09			9

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1401					AUTOCODER-PASS 3-TRANSLATOR-INITIAL			3731L		PAGE	2
148	1	48	H	XXXX,360	HALT	7	2403	. 000 360			9
149	1	49	B	INST2		4	2410	B L75			9
150	1	50		*							
151	1	51		* NOISE RECORD ROUTINE							
152	1	52		*							
153	1	53	NOISE	SBR	XL3	4	2414	H 099			9
154	1	54	SBR	NSXT&3		4	2418	H M52			9
155	1	55	MZ	&9,XL3		7	2422	Y M60 099			9
156	1	56	N2	BCE	4000-12&X3, XXXX, }	8	2429	B I88 000 }	GMARK		10
157	1	57	CHAIN	12					MACRO		
158			BCE			1	2437	B	GEN		10
159			BCE			1	2438	B	GEN		10
160			BCE			1	2439	B	GEN		10
161			BCE			1	2440	B	GEN		10
162			BCE			1	2441	B	GEN		10
163			BCE			1	2442	B	GEN		10
164			BCE			1	2443	B	GEN		11
165			BCE			1	2444	B	GEN		11
166			BCE			1	2445	B	GEN		11
167			BCE			1	2446	B	GEN		11
168			BCE			1	2447	B	GEN		11
169			BCE			1	2448	B	GEN		11
170	1	58	NSXT	B	0	4	2449	B 000			11
171	1	59	OBJCOR	DCW	@3@	1	2453				12
172	1	60	HIVAL	DCW	@ 999@	5	2458				12
173	1	61	MANAM	DCW	@#@	1	2459				12
174	1	62	LTORG	*				2460			
			DCW	&9		1	2460		LIT		12
			RDCT	DCW	#01	1	2461		AREA		12
			DCW	&1		1	2462		LIT		12
			WRTRC	DCW	#02	2	2464		AREA		12
175	1	63		*							
176	1	64		*BEGIN	OF MAIN LINE						
177	1	65		*							
178	1	66	BEGIN	RWD	INTAPE	5	2465	U 8U6 R			13
179	1	67	RWD	5	REWIND INPUT TAPE	5	2470	U 8U5 R			13
180	1	68	CS	3999	REWIND 5	4	2475	/ 199			13
181	1	69	RTW	SYSTAP,001	CLEAR INPUT AREA	8	2479	L 8U1 001 R			13
182	1	70	NOP	0	READ LOWER HALF	4	2487	N 000			13
183	1	71	BER	TPERR	PASS 3	5	2491	B K10 L			13
184	1	72	SW	GK1,GK2	INITIALIZE GROUP MARKS	7	2496	, I89 187			13
185	1	73	CW	SYSMK2		4	2503	) P03			14
186	1	74	CS	080		4	2507	/ 080			14
187	1	75	SW	EQVADD	CLEAR READ AREA	4	2511	, A69			14
188	1	76	RWD	OUTAPE	INITIALIZE TO UNDEF	5	2515	U 8U4 R			14
189	1	77	MCW	&FREE&13,N2&6	RWD OUTPUT TAPE	7	2520	M R20 M35			14
190	1	78	MCW	@N@,N3		7	2527	M R21 573			14
191	1	79	MCW	@N@,N4	CRIPPLE TEST FOR NOISE	7	2534	M R21 558			14
192	1	80	RT	5,FREE&1	READ IN MACRO FACTOR	8	2541	M 8U5 101 R			15
193	1	81	B	NOISE	WHICH IS	4	2549	B M14			15

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
194	1	82	BER	TPERR	PASSED IN FROM PASS 2	5		2553	B K10 L		15
195	1	83	RWD	5	AND SAVE VALUE	5		2558	U \$05 R		15
196	1	84	MCW	FREE&3,JOBLBL#3		7		2563	M 103 R24		15
197	1	85	ZA	@101@,ALTRNO	RESET ALTER NUMBER	7		2570	? R27 184		15
198	1	86	*								
199	1	87	*	PROCESS JOB CARD							
200	1	88	*								
201	1	89	B	GET	GET FIRST RECORD	4		2577	B 524		16
202	1	90	BCE	GENJOB,FREE&6,*	Q. COMMENTS CARD	8		2581	B Q53 106 *		16
203	1	91	C	FREE&18,@JOB@	Q. JOB CARD	7		2589	C 118 R30		16
204	1	92	BU	GENJOB		5		2596	B Q53 /		16
205	1	93	CODJOB	MCW	JOBLBL,FREE&8	7		2601	M R24 108		16
206	1	94	WT	OUTAPE,FREE&1	PICKUP FACTOOR	8		2608	M \$14 101 W		16
207	1	95	NOP	0	PUT JOB CARD	4		2616	N 000		17
208	1	96	BER	TPERR		5		2620	B K10 L		17
209	1	97	A	&1,ALTRNO		7		2625	A R31 184		17
210	1	98	B	GET	GET NEXT RECORD	4		2632	B 524		17
211	1	99	MCW	@B@,N3	RESET NOISE ROUTINE	7		2636	M R32 573		17
212	2	00	MCW	@M@,N4		7		2643	M R33 558		17
213	2	01	*								
214	2	02	*	PROCESS CONTROL CARD							
215	2	03	*								
216	2	04	C	FREE&18,@CTL@	Q. CONTROL CARD	7		2650	C 118 R36		18
217	2	05	BU	CHNAD		5		2657	B Q85 /		18
218	2	06	CS	0		4		2662	/ 000		18
219	2	07	SBR	CLEAR&3		4		2666	H O85		18
220	2	08	SBR	SVSZ#3		4		2670	H R39		18
221	2	09	BWZ	PROSZ,CLEAR&3,2		8		2674	V P02 O85 2		18
222	2	10	CLEAR	CS	15999	4		2682	/ I91		18
223	2	11	SBR	CLEAR&3	CLEAR ABOVE 4K	4		2686	H O85		19
224	2	12	C	CLEAR&3,@I99@	Q. END OF CLEARING	7		2690	C O85 R42		19
225	2	13	BU	CLEAR		5		2697	B O82 /		19
226	2	14	PROSZ	MCW	@6@,PHOLD#1	7		2702	M R43 R44		19
227	2	15	BWZ	CSZ,SVSZ,B		8		2709	V P54 R39 B		19
228	2	16	MCW	@5@,PHOLD		7		2717	M R45 R44		19
229	2	17	BWZ	CSZ,SVSZ,K		8		2724	V P54 R39 K		20
230	2	18	MCW	@4@,PHOLD		7		2732	M R46 R44		20
231	2	19	BWZ	CSZ,SVSZ,S		8		2739	V P54 R39 S		20
232	2	20	MCW	@3@,PHOLD		7		2747	M R47 R44		20
233	2	21	CSZ	C	FREE&21,PHOLD	7		2754	C 121 R44		20
234	2	22	BE	INOBJ		5		2761	B P97 S		21
235	2	23	*	MESSG@INCORRECT PROCESSOR MACHINE SIZE SPECIFIED@,42							
236	2	02	CS	332		4		2766	/ 332		21
237	2	03	CS			1		2770	/		21
238	2	04	MCW	@INCORRECT PROCESSOR MACHINE SIZE SPECIFIED@,42&200		7		2771	M R89 242		21
239	2	05	W			1		2778	2		21
240	2	07	BCV	*&5		5		2779	B P88 @		21
241	2	08	B	*&3		4		2784	B P90		21
242	2	09	CC	1		2		2788	F 1		22
243	2	24	MCW	PHOLD,FREE&21		7		2790	M R44 121		22

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
244	2	25	INOBJ	MCW	FREE&22,OBJCOR	7		2797	M 122 M53		22
245	2	26	ZA	OBJCOR,XL1		7		2804	? M53 089		22
246	2	27	S	&30,XL1&1		7		2811	S R91 090		22
247	2	28	A	XL1	CODE -HIVAL-	4		2818	A 089		22
248	2	29	MCW	OBJTBL&X1,HIVAL-3		7		2822	M R/1 M55		23
249	2	30	C	FREE&22,@3@	Q. OBJECT CORE GT 4K	7		2829	C 122 R47		23
250	2	31	BL	GETMN		5		2836	B 419 T		23
251	2	32	BCE	SETHI,FREE&24,1	Q. MA HARDWARE	8		2841	B Q99 124 1		23
252	2	33	B	IS4K		4		2849	B Q92		23
253	2	34	GENJOB	BSP	INTAPE	5		2853	U \$06 B		23
254	2	35	MCW	FREE&74,FREE&73		7		2858	M 174 173		24
255	2	36	MCW	@JOB @,FREE&20	GENERATE JOB CARD	7		2865	M R96 120		24
256	2	37	MCW			1		2872	M		24
257	2	38	MCW	FREE&74,FREE&15	BLANK AREA	7		2873	M 174 115		24
258	2	39	MCW			1		2880	M		24
259	2	40	B	CODJOB		4		2881	B 001		24
260	2	41	CHNAD	MCW	&SUBXL,INTEXT&3	7		2885	M R99 463		24
261	2	42	IS4K	MCW	@A@,MANAM	7		2892	M ?00 M59		25
262	2	43	SETHI	MCW	@03@,HIVAL-3	7		2899	M ?02 M55		25
263	2	44	B	GETMN		4		2906	B 419		25
264	2	45	OBJTBL	DCW	@03@	2		2911			25
265	2	46	DCW	@07@		2		2913			25
266	2	47	DCW	@11@		2		2915			25
267	2	48	DCW	@15@		2		2917			25
268	2	49	LTORG	2918	*			2918			
			DCW	&FREE&13		3		2920	113	ADCON	26
			DCW	@N@		1		2921		LIT	26
			JOBLBL	DCW	#03	3		2924		AREA	26
			DCW	@101@		3		2927		LIT	26
			DCW	@JOB@		3		2930		LIT	26
			DCW	&1		1		2931		LIT	26
			DCW	@B@		1		2932		LIT	26
			DCW	@M@		1		2933		LIT	27
			DCW	@CTL@		3		2936		LIT	27
			SVSZ	DCW	#03	3		2939		AREA	27
			DCW	@I99@		3		2942		LIT	27
			DCW	@6@		1		2943		LIT	27
			PHOLD	DCW	#01	1		2944		AREA	27
			DCW	@5@		1		2945		LIT	27
			DCW	@4@		1		2946		LIT	28
			DCW	@3@		1		2947		LIT	28
			DCW	@INCORRECT PROCESSOR MACHINE SIZE SPECIFIED@		42		2989		LIT	30
			DCW	&30		2		2991		LIT	30
			DCW	@JOB @		5		2996		LIT	30
			DCW	&SUBXL		3		2999	634	ADCON	30
			DCW	@A@		1		3000		LIT	30
			DCW	@03@		2		3002		LIT	31
269	2	50	SYSMK2	DCW	@j@	1		3003		GMARK	31
270	2	51	XFR	000					B 000		32

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
271	2	52		JOB	1401 AUTOCODER-PASS 3 LEFT MAIN LINE						
272	2	53	*								
273	2	54	*		*INITIALIZATION OF INDEX REGISTERS						
274	2	55	*								
275	2	56	*		XINITXL1,XL2,XL3						
276	01		XL1	EQU	089			0089			
277	02		089	DCW	000	3		0089			35
278	04		091	DC	00	2		0091			35
279	05		XL2	EQU	094			0094			
280	06		094	DCW	000	3		0094			35
281	08		096	DC	00	2		0096			35
282	09		XL3	EQU	099			0099			
283	10		099	DCW	000	3		0099			35
284	12		100	DC	0	1		0100			35
285	2	57	*								
286	2	58	*		*FREE FORM INPUT AREA						
287	2	59	*								
288	2	60		ORG	101				0101		
289	2	61	FREE	EQU	100			0100			
290	2	62		DA	1X86			0101	0186		
291	2	63			1,1			0101		FIELD	
292	2	64			19,19			0119		FIELD	
293	2	65			16,16			0116		FIELD	
294	2	66			6,6			0106		FIELD	
295	2	67			21,21			0121		FIELD	
296	2	68	ALTRNO		81,84			0184		FIELD	
297	2	69			85,89			0189		FIELD	
298	2	70	GMK2	DC	@]@	1		0187		GMARK	36
299	2	71	*								
300	2	72	*		*FIXED FORM INPUT AREA						
301	2	73	*								
302	2	74		ORG	333				0333		
303	2	75	INPUT	EQU	*			0332			
304	2	76		DA	1X86			0333	0418		
305	2	77			40,40			0372		FIELD	
306	2	78			17,17			0349		FIELD	
307	2	79			28,28			0360		FIELD	
308	2	80			39,39			0371		FIELD	
309	2	81			76,76			0408		FIELD	
310	2	82	*								
311	2	83	*		* GET UPPER HALF OF PASS 3						
312	2	84	*								
313	2	85	GETMN	RTW	SYSTAP,BEGIN	8		0419	L %U1 M65 R		37
314	2	86			NOP 0	4		0427	N 000		37
315	2	87			BER TPERR	5		0431	B K10 L		37
316	2	88			MCW MANAM,MASYM-3	7		0436	M M59 B93		37
317	2	89			RTW SYSTAP,OVL2	8		0443	L %U1 626 R		37
318	2	90			NOP 0	4		0451	N 000		38
319	2	91			BER TPERR	5		0455	B K10 L		38
320	2	92	INTXT	B	NUREC	4		0460	B 626		38

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
321	2	93	*								
322	2	94	*		* GET FIXED FORM OVERLAY						
323	2	95	*								
324	2	96	GTFIX	RTW	SYSTAP,OVL2	8		0464	L %U1 626 R		38
325	2	97			NOP 0	4		0472	N 000		38
326	2	98			BER TPERR	5		0476	B K10 L		38
327	2	99			BSP SYSTAP	5		0481	U %U1 B		38
328	3	00			BSP SYSTAP	5		0486	U %U1 B		39
329	3	01			BW PROFIX,FREESW	8		0491	V 661 H09 1		39
330	3	02			B RSTMOD	4		0499	B 638		39
331	3	03	*								
332	3	04	*		* GET FREE FORM OVERLAY						
333	3	05	*								
334	3	06	GTFRE	RTW	SYSTAP,OVL2	8		0503	L %U1 626 R		39
335	3	07			NOP 0	4		0511	N 000		39
336	3	08			BER TPERR	5		0515	B K10 L		39
337	3	09			B PSTNU	4		0520	B 630		39
338	3	10	*								
339	3	11	*		*GET ROUTINE						
340	3	12	*								
341	3	13	GET	SBR	GETXT&3	4		0524	H 553		40
342	3	14			B RDTAP	4		0528	B 554		40
343	3	15			MCW INAREA&79,FREE&80	7		0532	M I82 180		40
344	3	16			CHAIN 4					MACRO	
345					MCW	1		0539	M	GEN	40
346					MCW	1		0540	M	GEN	40
347					MCW	1		0541	M	GEN	40
348					MCW	1		0542	M	GEN	40
349	3	17			MCW INAREA&85,FREE&86	7		0543	M I88 186		41
350	3	18	GETXT	B	XXXX	4		0550	B 000		41
351	3	19	RDTAP	SBR	RDXT&3	4		0554	H 585		41
352	3	20	N4	MCW	&INAREA&12,N2&6	7		0558	M R43 M35		41
353	3	21			RT INTAPE,INAREA	8		0565	M %U6 I03 R		41
354	3	22	N3	B	NOISE	4		0573	B M14		41
355	3	23			BER TPERR	5		0577	B K10 L		41
356	3	24	RDXT	B	XXXX	4		0582	B 000		42
357	3	25	*								
358	3	26	*		*PUT ROUTINE						
359	3	27	*								
360	3	28	PUT	SBR	PUTXT&3	4		0586	H 625		42
361	3	29			CW FREE&21	4		0590	) 121		42
362	3	30			WT OUTAPE,FREE&1	8		0594	M %U4 101 W		42
363	3	31			NOP 0	4		0602	N 000		42
364	3	32			BER TPERR	5		0606	B K10 L		42
365	3	33			SW FREE&21	4		0611	, 121		42
366	3	34			A &1,ALTRNO	7		0615	A R44 184		43
367	3	35	PUTXT	B	XXXX	4		0622	B 000		43
368	3	36	OVL2	DCW	0	1		0626			43
369	3	37			DCW @]@	1		0627		GMARK	43
370	3	38			XFR 0				B 000		44

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
371	3	39		JOB	1401 AUTOCODER-PASS 3 PROCESS FREE FORM -VERSION 3						
372	3	40	*								
373	3	41		*BEGINNING	OF NEW FREE FORM RECORD ANALYSIS						
374	3	42	*								
375	3	43		ORG	OVL2				0626		
376	3	44	NUREC	B	PUT	4	0626	B	586		47
377	3	45	PSTNU	B	GET	4	0630	B	524		47
378	3	46	SUBXL	SW	MODESW	4	0634	,	?02		47
379	3	47		CW	FREESW	4	0638	)	H09		47
380	3	48		BCE	NUREC, FREE&6, *	8	0642	B	626 106 *		47
381	3	49		BCE	REG, FREE&75,	8	0650	B	991 175		47
382	3	50		BCE	REG, FREE&75, L	8	0658	B	991 175 L		48
383	3	51		BCE	NUREC, FREE&75, S	8	0666	B	626 175 S		48
384	3	52		BCE	NUREC, FREE&75, Z	8	0674	B	626 175 Z		48
385	3	53		BCE	NUREC, FREE&85, R	8	0682	B	626 185 R		48
386	3	54		C	FREE&18, @CHA@	7	0690	C	118 R47		48
387	3	55		BCE	CKCHN, FREE&75, C	8	0697	B	722 175 C		49
388	3	56		BCE	CKCHN, FREE&75, Y	8	0705	B	722 175 Y		49
389	3	57		BU	NUREC	5	0713	B	626 /		49
390	3	58		B	PRCHN	4	0718	B	727		49
391	3	59	CKCHN	BU	REG	5	0722	B	991 /		49
392	3	60	PRCHN	ZA	FREE&22, WAREA2	7	0727	?	122 A14		49
393	3	61		BCE	*&5, WAREA2, &	8	0734	B	746 A14 &		50
394	3	62		B	*&8	4	0742	B	753		50
395	3	63		ZA	WAREA2-1, WAREA2	7	0746	?	A13 A14		50
396	3	64		BCE	*&5, FREE&75, C	8	0753	B	765 175 C		50
397	3	65		B	*&8	4	0761	B	772		50
398	3	66		MCW	@S@, FREE&75	7	0765	M	R48 175		50
399	3	67		BCE	*&5, FREE&75, Y	8	0772	B	784 175 Y		51
400	3	68		B	*&8	4	0780	B	791		51
401	3	69		MCW	@Z@, FREE&75	7	0784	M	R49 175		51
402	3	70		B	PUT	4	0791	B	586		51
403	3	71		C	WAREA2, &00	7	0795	C	A14 R51		51
404	3	72		BL	*&5	5	0802	B	811 T		51
405	3	73		B	PSTNU	4	0807	B	630		51
406	3	74		MCW	FREE&75, HLDCCD#1	7	0811	M	175 R52		52
407	3	75		MCW	@C@, FREE&75	7	0818	M	R53 175		52
408	3	76		BCE	BLNKX, HLDCCD, R	8	0825	B	848 R52 R		52
409	3	77		BCE	BLNKX, HLDCCD, S	8	0833	B	848 R52 S		52
410	3	78		MCW	@Y@, FREE&75	7	0841	M	R54 175		52
411	3	79	BLNKX	MCW	BLNK2, FREE&74	7	0848	M	A55 174		53
412	3	80		MCW	FREE&74	4	0855	M	174		53
413	3	81		MCW	SAVOP	4	0859	M	R88		53
414	3	82		MCW		1	0863	M			53
415	3	83		MCW		1	0864	M			53
416	3	84		MCW	FREE&74, FREE&5	7	0865	M	174 105		53
417	3	85	CHNLP	B	PUT	4	0872	B	586		53
418	3	86		MCW	FREE&74, FREE&11	7	0876	M	174 111		54
419	3	87		S	&1, WAREA2	7	0883	S	R44 A14		54
420	3	88		C	WAREA2, &00	7	0890	C	A14 R51		54

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
421	3	89		BL	CHNLP	5	0897	B	872 T		54
422	3	90		B	PSTNU	4	0902	B	630		54
423	3	91	GENPS	MCW	@&1 @, FREE&15	7	0906	M	R57 115		54
424	3	92		B	PUT	4	0913	B	586		55
425	3	93		MCW	FREE&73, FREE&72	7	0917	M	173 172		55
426	3	94		MCW	@C@, FREE&75	7	0924	M	R53 175		55
427	3	95		MCW	HIVAL, FREE&25	7	0931	M	M58 125		55
428	3	96		MCW	@EQU @	4	0938	M	R62		55
429	3	97		MCW		1	0942	M			55
430	3	98		MCW	@\$HIVAL &P @	4	0943	M	R72		55
431	3	99		MCW	FREE&73	4	0947	M	173		56
432	4	00		MCW	&NUREC, GENPS&3	7	0951	M	R75 909		56
433	4	01		MCW	@B@, ISHIV	7	0958	M	R76 969		56
434	4	02		B	NUREC	4	0965	B	626		56
435	4	03	ISHIV	NOP	PSTNU	4	0969	M	630		56
436	4	04		MCW	HIVAL, FREE&25	7	0973	M	M58 125		56
437	4	05		MCW	@B@, PSSW2	7	0980	M	R76 '37		57
438	4	06		B	TSTRE	4	0987	B	'53		57
439	4	07	REG	S	XL3&1	4	0991	S	100		57
440	4	08		S		1	0995	S			57
441	4	09		S		1	0996	S			57
442	4	10		C	FREE&18, @ @	7	0997	C	118 R79		57
443	4	11		BU	SVUP3	5	1004	B	'17 /		57
444	4	12		BCE	TSTRE, FREE&19,	8	1009	B	'53 119		58
445	4	13	SVUP3	MCW	FREE&20, SAVOP#9	7	1017	M	120 R88		58
446	4	14		MCW		1	1024	M			58
447	4	15		C	FREE&11, @\$HIVAL@	7	1025	C	111 R94		58
448	4	16		BE	ISHIV	5	1032	B	969 S		58
449	4	17	PSSW2	NOP	TSTRE	4	1037	N	'53		58
450	4	18		C	FREE&10, @\$P @	7	1041	C	110 R99		58
451	4	19		BE	GENPS	5	1048	B	906 S		59
452	4	20	TSTRE	BCE	ISREA, FREE&85, R	8	1053	B	'96 185 R		59
453	4	21		B	TLUOP	4	1061	B	M65		59
454	4	22	STFUN	MCW	FREE&15, SAVOP-5	7	1065	M	115 R83		59
455	4	23		BW	NUREC, EQVADD	8	1072	V	626 A69 1		59
456	4	24		C	FREE&15, @3 @	7	1080	C	115 ?01		59
457	4	25		BE	EOJ	5	1087	B	Q75 S		60
458	4	26		B	NUREC	4	1092	B	626		60
459	4	27	ISREA	SW	FREE&12	4	1096	,	112		60
460	4	28		LCA	FREE&15, EQVADD	7	1100	L	115 A69		60
461	4	29		CW	FREE&12	4	1107	/	112		60
462	4	30		BCE	TYPCL, FREE&15, &	8	1111	B	/26 115 &		60
463	4	31			CHAIN 3					MACRO	
464				BCE		1	1119	B		GEN	60
465				BCE		1	1120	B		GEN	61
466				BCE		1	1121	B		GEN	61
467	4	32		B	STFUN	4	1122	B	'65		61
468	4	33	TYPCL	SW	EQVADD-2	4	1126	,	A67		61
469	4	34		BCE	STFUN, FREE&12, &	8	1130	B	'65 112 &		61
470	4	35		SW	EQVADD-1	4	1138	,	A68		61

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
471	4	36		BCE	STFUN, FREE&13, &		8	1142	B '65 113 &		61
472	4	37		SW	EQVADD		4	1150	, A69		62
473	4	38		B	STFUN		4	1154	B '65		62
474	4	39		DCW	0		1	1158			62
475	4	40		DCW	@} @		1	1159		GMARK	62
476	4	41		XFR	0				B 000		63

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
477	4	42		JOB	1401 AUTOCODER-PASS 3 PROCESS FIX FORM -VERSION 3						
478	4	43		ORG	OVL2				0626		
479	4	44		*							
480	4	45		*	BEGINNING OF NEW FIXED FORM RECORD ANALYSIS						
481	4	46		*							
482	4	47		ENTSPS	B PUT		4	0626	B 586		66
483	4	48		BW	GTFRE, FREESW		8	0630	V 503 H09 1		66
484	4	49		RSTMOD	CW MODESW#1, ABSW		7	0638	) ?02 A10		66
485	4	50		B	RDTAP		4	0645	B 554		66
486	4	51		MCW	INAREA&79, INPUT&80		7	0649	M 182 412		66
487	4	52		CHAIN	5					MACRO	
488				MCW			1	0656	M	GEN	66
489				MCW			1	0657	M	GEN	66
490				MCW			1	0658	M	GEN	67
491				MCW			1	0659	M	GEN	67
492				MCW			1	0660	M	GEN	67
493	4	53		PROFIX	MCW INPUT&80, FREE&80		7	0661	M 412 180		67
494	4	54		MCW	BLANK, FREE&75		7	0668	M A54 175		67
495	4	55		MCW	FREE&75		4	0675	M 175		67
496	4	56		MCW	FREE&75, FREE&20		7	0679	M 175 120		67
497	4	57		MCW			1	0686	M		68
498	4	58		MCW			1	0687	M		68
499	4	59		MCW	INPUT&82, FREE&86		7	0688	M 414 186		68
500	4	60		MCW	INPUT&13, FREE&11		7	0695	M 345 111		68
501	4	61		MCW	INPUT&5		4	0702	M 337		68
502	4	62		BCE	COMCRD, INPUT&8, *		8	0706	B Y71 340 *		68
503	4	63		BCE	LBERR, FREE&11, ,		8	0714	B 778 111 ,		68
504	4	64		CHAIN	4					MACRO	
505				BCE			1	0722	B	GEN	69
506				BCE			1	0723	B	GEN	69
507				BCE			1	0724	B	GEN	69
508				BCE			1	0725	B	GEN	69
509	4	65		BCE	LBERR, FREE&10, -		8	0726	B 778 110 -		69
510	4	66		CHAIN	4					MACRO	
511				BCE			1	0734	B	GEN	69
512				BCE			1	0735	B	GEN	69
513				BCE			1	0736	B	GEN	70
514				BCE			1	0737	B	GEN	70
515	4	67		BCE	LBERR, FREE&10, #		8	0738	B 778 110 #		70
516	4	68		CHAIN	4					MACRO	
517				BCE			1	0746	B	GEN	70
518				BCE			1	0747	B	GEN	70
519				BCE			1	0748	B	GEN	70
520				BCE			1	0749	B	GEN	70
521	4	69		BCE	LBERR, FREE&10, &		8	0750	B 778 110 &		71
522	4	70		CHAIN	4					MACRO	
523				BCE			1	0758	B	GEN	71
524				BCE			1	0759	B	GEN	71
525				BCE			1	0760	B	GEN	71
526				BCE			1	0761	B	GEN	71

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
527	4	71		BCE	LBERR,FREE&10,'		8	0762	B 778 110 '		71
528	4	72		CHAIN	4					MACRO	
529				BCE		1	0770	B		GEN	71
530				BCE		1	0771	B		GEN	72
531				BCE		1	0772	B		GEN	72
532				BCE		1	0773	B		GEN	72
533	4	73		B	ECK1		4	0774	B 798		72
534	4	74	LBERR	CS	332		4	0778	/ 332		72
535	4	75		CS			1	0782	/		72
536	4	76		MCW	@ILLEGAL LABEL - SEQUENCE NUMBER@,231		7	0783	M ?33 231		72
537	4	77		MCS	ALTRNO,236		7	0790	Z 184 236		73
538	4	78		W			1	0797	Z		73
539	4	79	BCK1	C	INPUT&15,BLNK2	Q.	7	0798	C 347 A55		73
540	4	80		BE	ABSFIX	PRESENT IN FIXED FORM	5	0805	B 570 S		73
541	4	81		MCW	BLNK2,SAVOP		7	0810	M A55 R88		73
542	4	82		MCW	INPUT&16		4	0817	M 348		73
543	4	83		MCW	INPUT&16,FREE&18	MOVE MNEMONIC TO FREE	7	0821	M 348 118		73
544	4	84	TLUFI	S	XL3&1	RESET INDEX LOCATIONS	4	0828	S 100		74
545	4	85		S		TO ZERO	1	0832	S		74
546	4	86		S			1	0833	S		74
547	4	87		B	TLUOP	LOOKUP MNEMONIC	4	0834	B M65		74
548	4	88		BW	FIXINS,EQVADD	Q. INSTRUCTION	8	0838	V 854 A69 1		74
549	4	89		BCE	FOUND,EQVADD,	Q. CONTROL OP	8	0846	B T40 A69		74
550	4	90		*							
551	4	91		*	PROCESS INSTRUCTION						
552	4	92		*							
553	4	93	FIXINS	BCE	LKNOP,INPUT&17,	Q. A OPERAND	8	0854	B 974 349		74
554	4	94		BCE	FIXALF,INPUT&17,@	Q. ALPHA LITERAL	8	0862	B /84 349 @		75
555	4	95		B	SCAN	SCAN A OPERAND	4	0870	B 209		75
556	4	96	CKB	BCE	CKMOD,INPUT&28,	Q. B OPERAND	8	0874	B 950 360		75
557	4	97		A	&1,XL2	MOVE COMMA TO FREE	7	0882	A R44 094		75
558	4	98		MCW	@,@,FREE&21&X2	TO SEPARATE OPERANDS	7	0889	M ?34 1K1		75
559	4	99		A	&1,XL2		7	0896	A R44 094		76
560	5	00		MCW	@011@,XL1		7	0903	M ?37 089		76
561	5	01		BCE	FIXALF,INPUT&28,@	Q. ALPHA LITERAL	8	0910	B /84 360 @		76
562	5	02		B	SCAN	SCAN B OPERAND	4	0918	B 209		76
563	5	03	CKOP	C	INPUT&16,@B @	Q. BRANCH INSTRUCTION	7	0922	C 348 ?40		76
564	5	04		BE	MAKBCE		5	0929	B '40 S		76
565	5	05		C	INPUT&16,@ B@	Q. ACTUAL BRANCH INST	7	0934	C 348 ?43		77
566	5	06		BE	MOVMOD		5	0941	B '18 S		77
567	5	07		B	LKNOP		4	0946	B 974		77
568	5	08	CKMOD	C	INPUT&16,@B @	Q. BRANCH INSTRUCTION	7	0950	C 348 ?40		77
569	5	09		BE	ALTROP		5	0957	B '51 S		77
570	5	10		C	INPUT&16,@ B@	Q. ACTUAL BRANCH INST	7	0962	C 348 ?43		77
571	5	11		BE	ALTROP		5	0969	B '51 S		78
572	5	12	LKNOP	C	INPUT&16,@NOP@	Q. NOP INSTRUCTION	7	0974	C 348 ?46		78
573	5	13		BE	CKNOP		5	0981	B /46 S		78
574	5	14		BW	PICKUP,ABSW	Q. ACTUAL OP CODE	8	0986	V '29 A10 1		78
575	5	15		BCE	PICKUP,INPUT&39,	Q. D CHARACTER	8	0994	B '29 371		78
576	5	16	ISMOD	BCE	MOVMOD,FREE&15,	Q. ILLEGAL OP	8	1002	B '18 115		79

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
577	5	17		BWZ	IOTYP,FREE&15,2	Q. I/O INSTRUCTION	8	1010	V /54 115 2		79
578	5	18	MOVMOD	MCW	INPUT&39,FREE&23&X2	MOVE D CHARACTER TO	7	1018	M 371 1K3		79
579	5	19		MCW	@,@	FREE AREA	4	1025	M ?34		79
580	5	20	PICKUP	MCW	INPUT&55,FREE&72	PICKUP COMMENTS	7	1029	M 387 172		79
581	5	21		B	ENDFIX		4	1036	B 626		79
582	5	22	MAKBCE	MCW	@BCE@,FREE&18	MOVE -BCE- MNEMONIC	7	1040	M ?49 118		80
583	5	23		B	ISMOD	TO OPERATION FIELD	4	1047	B '02		80
584	5	24	ALTROP	BCE	PICKUP,INPUT&39,	Q. D CHARACTER, I.E.,	8	1051	B '29 371		80
585	5	25		MCW	@B1@,FREE&18	UNCONDITIONAL BRANCH	7	1059	M ?52 118		80
586	5	26		MCW	@& B@,FREE&15	SET FIVE CHAR BRANCH	7	1066	M ?55 115		80
587	5	27		S	XL1&1		4	1073	S 090		80
588	5	28		MCW	BLNK2,FREE&20		7	1077	M A55 120		81
589	5	29	TLUBIN	C	BINTBL&X1,INPUT&39	SEARCH 5-CHARACTER	7	1084	C H/4 371		81
590	5	30		BE	BINFND	BRANCH TABLE FOR	5	1091	B /15 S		81
591	5	31		BCE	MOVMOD,BINTBL&5&X1,	APPROPRIATE UNIQUE	8	1096	B '18 H/9		81
592	5	32		A	&5,XL1	MNEMONIC, IF NOT	7	1104	A ?56 089		81
593	5	33		B	TLUBIN	PRESENT LEAVE	4	1111	B '84		81
594	5	34	BINFND	MCW	BINTBL-1&X1,FREE&19	MNEMONIC -BIN-	7	1115	M H/3 119		82
595	5	35		MCW			1	1122	M		82
596	5	36		C	FREE&18,@BSS@	Q. BRANCH SENSE SWITCH	7	1123	C 118 ?59		82
597	5	37		BE	MOVMOD		5	1130	B '18 S		82
598	5	38		MCW	INPUT&39,FREE&14	PICKUP DE CHARACTER	7	1135	M 371 114		82
599	5	39		B	PICKUP		4	1142	B '29		82
600	5	40	CKNOP	BCE	PICKUP,INPUT&39,		8	1146	B '29 371		82
601	5	41	IOTYP	MCW	INPUT&39,FREE&14	CODE I/O INSTRUCTION	7	1154	M 371 114		83
602	5	42		MCW	@&@	IN ACTUAL IN	4	1161	M ?60		83
603	5	43		MCW	INPUT&39,FREE&20	OPERATION FIELD	7	1165	M 371 120		83
604	5	44		MCW	FREE&15		4	1172	M 115		83
605	5	45		MCW	BLANK3		4	1176	M A56		83
606	5	46		B	PICKUP		4	1180	B '29		83
607	5	47	FIXALF	BCE	ENDALF,INPUT&27&X1,@	SCAN FOR AT SIGN	8	1184	B 518 3V9 @		83
608	5	48		CHAIN	8					MACRO	
609				BCE			1	1192	B	GEN	84
610				BCE			1	1193	B	GEN	84
611				BCE			1	1194	B	GEN	84
612				BCE			1	1195	B	GEN	84
613				BCE			1	1196	B	GEN	84
614				BCE			1	1197	B	GEN	84
615				BCE			1	1198	B	GEN	84
616				BCE			1	1199	B	GEN	85
617	5	49	VALUE	A	&1,XL2	PROCESS STATEMENT AS	7	1200	A R44 094		85
618	5	50		MCW	@\$\$@,FREE&21&X2	UNPROCESSABLE ALPHA	7	1207	M ?62 1K1		85
619	5	51		B	WHCHOP	LITERAL ILLEGAL OPND	4	1214	B 554		85
620	5	52	ENDALF	SBR	WAREA3	PICKUP LITERAL AND	4	1218	H A15		85
621	5	53		S	&VALUE&2,WAREA3	MOVE TO FREE FORM	7	1222	S ?65 A15		85
622	5	54		ZS	WAREA3	AREA	4	1229	I A15		85
623	5	55		A	WAREA3,XL1		7	1233	A A15 089		86
624	5	56		A	WAREA3,XL2		7	1240	A A15 094		86
625	5	57		MCW	INPUT&17&X1,FREE&21&X2		7	1247	M 309 1K1		86
626	5	58	WHCHOP	C	XL1,@011@	EXIT ON BASIS OF WHICH	7	1254	C 089 ?37		86

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
627	5	59		BH	CKB			5 1261	B 874 U		86
628	5	60		B	CKOP			4 1266	B 922		86
629	5	61	ABSFIX	BCE	SAMFIX,INPUT&16,			8 1270	B T28 348		87
630	5	62		MCW	INPUT&16,FREE&19			7 1278	M 348 119		87
631	5	63		MCW	INPUT&39,FREE&20			7 1285	M 371 120		87
632	5	64	SW1	NOP	SETABS			4 1292	N T20		87
633	5	65		CS	332			4 1296	/ 332		87
634	5	66		CS				1 1300	/		87
635	5	67		MCW	@ACTUAL OP CODES PRESENT IN			7 1301	M A09 270		87
636	5	68		CC	1			2 1308	F 1		88
637	5	69		W				1 1310	Z		88
638	5	70		CC	1			2 1311	F 1		88
639	5	71		MCW	@B@,SW1			7 1313	M R76 S92		88
640	5	72	SETABS	SW	ABSW#1			4 1320	, A10		88
641	5	73		B	TLUFIK			4 1324	B 828		88
642	5	74	SAMFIX	MCW	SAVOP,FREE&20			7 1328	M R88 120		88
643	5	75		MCW				1 1335	M		89
644	5	76		B	TLUFIK			4 1336	B 828		89
645	5	77		*							
646	5	78		*	BEGINNING OF PROCESS CONTROL AND DECLARATIVE OPERATION CODES						
647	5	79		*							
648	5	80	FOUND	BW	FIXINS,EQVADD			8 1340	V 854 A69 1		89
649	5	81		S	XL3&1			4 1348	S 100		89
650	5	82		MN	EQVADD-1,XL3			7 1352	D A68 099		89
651	5	83		A	XL3			4 1359	A 099		89
652	5	84		A	XL3			4 1363	A 099		89
653	5	85		B	*&1&X3			4 1367	B TG1		90
654	5	86		B	BADOP			4 1371	B P28		90
655	5	87		B	DCWSTM			4 1375	B U84		90
656	5	88		B	ERHLT			4 1379	B U73		90
657	5	89		B	ONEOP			4 1383	B X60		90
658	5	90		B	ONEOP			4 1387	B X60		90
659	5	91		B	ERHLT			4 1391	B U73		90
660	5	92		B	CKLOR			4 1395	B Y89		91
661	5	93		B	DSTYP			4 1399	B X88		91
662	5	94		B	INSPC			4 1403	B U21		91
663	5	95		MCW	INPUT&55,FREE&59			7 1407	M 387 159		91
664	5	96		MCW				1 1414	M		91
665	5	97		MCW				1 1415	M		91
666	5	98		MCW				1 1416	M		91
667	5	99		B	ENDFIX			4 1417	B 626		92
668	6	00	INSPC	BCE	NOPND,INPUT&17,			8 1421	B U62 349		92
669	6	01		MCW	@B@,FREE&18			7 1429	M R76 118		92
670	6	02		MCW	EQVADD-2,EQVADD			7 1436	M A67 A69		92
671	6	03		LCA	BLANK			4 1443	L A54		92
672	6	04		MCW	EQVADD,FREE&15			7 1447	M A69 115		92
673	6	05		MCW	@ @@			4 1454	M A12		93
674	6	06		B	FIXINS			4 1458	B 854		93
675	6	07	NOPND	MCW	INPUT&39,FREE&21			7 1462	M 371 121		93
676	6	08		B	ENDFIX			4 1469	B 626		93

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
677	6	09	ERHLT	H	0,301			7 1473	. 000 301		93
678	6	10		B	ERHLT			4 1480	B U73		93
679	6	11		*							
680	6	12		*	PROCESS DCW, DC STATEMENTS						
681	6	13		*							
682	6	14	DCWSTM	BCE	DCWTYP,INPUT&17,*			8 1484	B V51 349 *		93
683	6	15		A	BLANK,INPUT&17			7 1492	A A54 349		94
684	6	16		MCW	FREE&18,WAREA6#6			7 1499	M 118 A18		94
685	6	17		MCW				1 1506	M		94
686	6	18		MCW	@EQU@,FREE&18			7 1507	M A21 118		94
687	6	19		MCW	@&P @			4 1514	M A24		94
688	6	20		MCW	INPUT&21,FREE&25			7 1518	M 353 125		94
689	6	21		B	PUT			4 1525	B 586		94
690	6	22		MCW	FREE&74,FREE&73			7 1529	M 174 173		95
691	6	23		MCW	INPUT&22,FREE&11			7 1536	M 354 111		95
692	6	24		MCW	WAREA6,FREE&18			7 1543	M A18 118		95
693	6	25		MCW				1 1550	M		95
694	6	26	DCWTYP	CW	INPUT&40,INPUT&39			7 1551	) 372 371		95
695	6	27		CW	INPUT&28			4 1558	) 360		95
696	6	28		BCE	DSARTN,FREE&14,J			8 1562	B X15 114 J		96
697	6	29		BCE	KNOWN,INPUT&23,&			8 1570	B W69 355 &		96
698	6	30		BCE	KNOWN,INPUT&23,-			8 1578	B W69 355 -		96
699	6	31		BCE	KNOWN,INPUT&23,@			8 1586	B W69 355 @		96
700	6	32		MN	INPUT&7,XL1			7 1594	D 339 089		96
701	6	33		MN				1 1601	D		97
702	6	34		A	BLANK,XL1			7 1602	A A54 089		97
703	6	35		C	XL1,@032@			7 1609	C 089 A27		97
704	6	36		BL	CORERR			5 1616	B W80 T		97
705	6	37		C	XL1,@000@			7 1621	C 089 A30		97
706	6	38		BE	CORERR			5 1628	B W80 S		97
707	6	39	RTNDCW	MCW	INPUT&23&X1,FREE&21&X1			7 1633	M 3V5 1S1		97
708	6	40		MCW	@@@,FREE&21			7 1640	M A31 121		98
709	6	41		MCW	@@@,FREE&22&X1			7 1647	M A31 1S2		98
710	6	42	RSTWM	SW	INPUT&40,INPUT&39			7 1654	, 372 371		98
711	6	43		SW	INPUT&28			4 1661	, 360		98
712	6	44		B	ENDFIX			4 1665	B 626		98
713	6	45	KNOWN	MCW	INPUT&55,FREE&53			7 1669	M 387 153		98
714	6	46		B	RSTWM			4 1676	B W54		99
715	6	47		S	XL1&1			4 1680	S 090		99
716	6	48	LPERR	BCE	RTNDCW,INPUT&24&X1,			8 1684	B W33 3V6		99
717	6	49		A	&1,XL1			7 1692	A R44 089		99
718	6	50		C	XL1,@52@			7 1699	C 089 A33		99
719	6	51		BE	RTNDCW			5 1706	B W33 S		99
720	6	52		B	LPERR			4 1711	B W84		99
721	6	53		*							
722	6	54		*	PROCESS DSA STATEMENTS						
723	6	55		*							
724	6	56	DSARTN	S	XL2&2			4 1715	S 096		100
725	6	57		MCW	@011@,XL1			7 1719	M 337 089		100
726	6	58		B	SCAN			4 1726	B 209		100

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
727	6	59		MCW	FREE&72,FREE&73			7 1730	M 172 173		100
728	6	60		MCW	@&@			4 1737	M ?60		100
729	6	61		BCE	RSTWM,INPUT&27,			8 1741	B W54 359		100
730	6	62		MCW	INPUT&27,FREE&21			7 1749	M 359 121		101
731	6	63		B	RSTWM			4 1756	B W54		101
732	6	64	ONEOP	B	*&5,INPUT&17,			8 1760	B X72 349		101
733	6	65		B	SCAN			4 1768	B 209		101
734	6	66		C	@3 @,EQVADD			7 1772	C ?01 A69		101
735	6	67		BE	PROJ			5 1779	B Q67 S		101
736	6	68		B	ENDFIX			4 1784	B 626		101
737	6	69		*							
738	6	70		*	PROCESS DS, EQU STATEMENTS						
739	6	71		*							
740	6	72	DSTYP	BCE	DSACT,INPUT&17,*			8 1788	B Y33 349 *		102
741	6	73		BCE	*&5,INPUT&17,			8 1796	B Y08 349		102
742	6	74		B	*&8			4 1804	B Y15		102
743	6	75		NOP	BLANK,INPUT&17			7 1808	N A54 349		102
744	6	76	DOEQU	MCW	@EQU@,FREE&18			7 1815	M A21 118		102
745	6	77		MCW	@P@,FREE&14			7 1822	M A34 114		103
746	6	78		B	ONEOP			4 1829	B X60		103
747	6	79	DSACT	SW	INPUT&6			4 1833	, 338		103
748	6	80		A	BLANK,INPUT&7			7 1837	A A54 339		103
749	6	81		CW	INPUT&6			4 1844	) 338		103
750	6	82		C	INPUT&7,@00@			7 1848	C 339 A36		103
751	6	83		BE	DOEQU			5 1855	B Y15 S		103
752	6	84		MCW	INPUT&7,FREE&22			7 1860	M 339 122		104
753	6	85		B	ENDFIX			4 1867	B 626		104
754	6	86		*							
755	6	87		*	PROCESS COMMENTS CARDS						
756	6	88		*							
757	6	89	COMCRD	MCW	INPUT&55,FREE&53			7 1871	M 387 153		104
758	6	90			CHAIN 7					MACRO	
759				MCW				1 1878	M	GEN	104
760				MCW				1 1879	M	GEN	104
761				MCW				1 1880	M	GEN	104
762				MCW				1 1881	M	GEN	104
763				MCW				1 1882	M	GEN	105
764				MCW				1 1883	M	GEN	105
765				MCW				1 1884	M	GEN	105
766	6	91		B	ENTSPS			4 1885	B 626		105
767	6	92		*							
768	6	93		*	PROCESS ORIGIN, LTORG STATEMENTS						
769	6	94		*							
770	6	95	CKLOR	BCE	ONEOP,FREE&16,@			8 1889	B X60 116 O		105
771	6	96		MCW	@LTORG@,FREE&20			7 1897	M A41 120		105
772	6	97		MCW				1 1904	M		105
773	6	98		B	ONEOP			4 1905	B X60		106
774	6	99		*							
775	7	00		*	SCAN ROUTINE WHICH CONVERTS FIXED FORM INTO FREE FORM						
776	7	01		*							

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
777	7	02	SCAN	SBR	SCNXT&3			4 1909	H J20		106
778	7	03		S	XL3&1			4 1913	S 100		106
779	7	04	LOOP1	BCE	CK1BK,INPUT&18&X1,			8 1917	B 262 3V0		106
780	7	05	CX11	C	XL3,@05@			7 1925	C 099 A43		106
781	7	06		BE	NDOPD			5 1932	B 286 S		106
782	7	07		A	&1,XL1			7 1937	A R44 089		106
783	7	08		A	&1,XL2			7 1944	A R44 094		107
784	7	09		A	&1,XL3			7 1951	A R44 099		107
785	7	10		B	LOOP1			4 1958	B 217		107
786	7	11	CK1BK	C	XL3,@04@			7 1962	C 099 A45		107
787	7	12		BE	NDOPD			5 1969	B 286 S		107
788	7	13		BCE	*&5,INPUT&19&X1,			8 1974	B 286 3V1		107
789	7	14		B	CX11			4 1982	B 225		108
790	7	15	NDOPD	MCW	INPUT&17&X1,FREE&21&X2			7 1986	M 309 1K1		108
791	7	16		C	XL1,@011@			7 1993	C 089 ?37		108
792	7	17		S	XL1&2			4 2000	S 091		108
793	7	18		BH	*&8			5 2004	B 116 U		108
794	7	19		MCW	@011@,XL1			7 2009	M ?37 089		108
795	7	20		BCE	CKLIT2,INPUT&23&X1,			8 2016	B J88 3V5		109
796	7	21	BWZ	MCW	MKMIN,INPUT&23&X1,K			8 2024	V J21 3V5 K		109
797	7	22		MCW	@&@,INPUT&23&X1			7 2032	M ?60 3V5		109
798	7	23	RTN2	SW	INPUT&24&X1,INPUT&23&X1			7 2039	, 3V6 3V5		109
799	7	24		A	BLANK,INPUT&26&X1			7 2046	A A54 3V8		109
800	7	25		A	&4,XL2			7 2053	A A46 094		110
801	7	26		MCW	INPUT&26&X1,FREE&21&X2			7 2060	M 3V8 1K1		110
802	7	27		MCW				1 2067	M		110
803	7	28		CW	INPUT&24&X1,INPUT&23&X1			7 2068	) 3V6 3V5		110
804	7	29	NOADJ	BCE	FIXLIT,INPUT&17&X1,&			8 2075	B J32 3U9 &		110
805	7	30		BCE	FIXLIT,INPUT&17&X1,-			8 2083	B J32 3U9 -		110
806	7	31		BCE	SCNXT,INPUT&27&X1,-			8 2091	B J17 3V9		111
807	7	32		A	&3,XL2			7 2099	A A47 094		111
808	7	33		MN	INPUT&27&X1,FREE&21&X2			7 2106	D 3V9 1K1		111
809	7	34		MCW	@&X@			4 2113	M A49		111
810	7	35	SCNXT	B	XXXX			4 2117	B 000		111
811	7	36	MKMIN	MCW	@-@,INPUT&23&X1			7 2121	M A50 3V5		111
812	7	37		B	RTN2			4 2128	B 139		112
813	7	38	FIXLIT	BCE	NOT11,INPUT&27&X1,			8 2132	B J58 3V9		112
814	7	39		A	&1,XL2			7 2140	A R44 094		112
815	7	40		MN	INPUT&27&X1,FREE&21&X2			7 2147	D 3V9 1K1		112
816	7	41		B	SCNXT			4 2154	B J17		112
817	7	42	NOT11	BCE	SUBT,INPUT&26&X1,			8 2158	B J70 3V8		112
818	7	43		B	SCNXT			4 2166	B J17		113
819	7	44	SUBT	A	@I99@,XL1			7 2170	A A53 089		113
820	7	45		A	@I99@,XL2			7 2177	A A53 094		113
821	7	46		B	NOT11			4 2184	B J58		113
822	7	47	CKLIT2	BCE	SCNXT,INPUT&17&X1,&			8 2188	B J17 3U9 &		113
823	7	48		BCE	SCNXT,INPUT&17&X1,-			8 2196	B J17 3U9 -		113
824	7	49		B	NOADJ			4 2204	B 175		114
825	7	50		DCW	0			1 2208			114
826	7	51	SYSMK1	DCW	@j@			1 2209		GMARK	114

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
827	7	52		XPR	0				B 000		115
828	7	53	RTEND	EQU	*			2209			

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
829	7	54		JOB	1401 AUTOCODER-PASS 3 RIGHT MAIN LINE -VERSION 3						
830	7	55		*							
831	7	56		*TABLE	LOOKUP OF MNEMONIC OP CODE						
832	7	57		*							
833	7	58		ORG	BEGIN				2465		
834	7	59	TLUOP	SBR	TLUXT&3	4		2465	H 046		118
835	7	60		C	FREE&18, BLANK&3#	7		2469	C 118 A56		118
836	7	61		BE	ABSCOD	5		2476	B P55 S		118
837	7	62		MLC	FREE&18, XL2	7		2481	M 118 094		118
838	7	63		A	FREE&18, XL2-1	7		2488	A 118 093		118
839	7	64		A	FREE&18, XL2-2	7		2495	A 118 092		118
840	7	65		A	FREE&16, XL2	7		2502	A 116 094		119
841	7	66	SUB1	S	&5500, XL2&1	7		2509	S A60 095		119
842	7	67		BWZ	SUB1, XL2&1, B	8		2516	V N09 095 B		119
843	7	68		MLCWA	OPND-549&X2, EQVADD#9	7		2524	L EN9 A69		119
844	7	69		SAR	GETOP&3	4		2531	Q N42		119
845	7	70		S	XL2&2	4		2535	S 096		119
846	7	71	GETOP	MLCWA	XXXX, EQVADD	7		2539	L 000 A69		120
847	7	72		SAR	GETOP&3	4		2546	Q N42		120
848	7	73		BCE	BADOP, EQVADD, @	8		2550	B P28 A69 @		120
849	7	74		C	EQVADD, FREE&18	7		2558	C A69 118		120
850	7	75		BU	GETOP	5		2565	B N39 /		120
851	7	76		LCA	EQVADD-3, EQVADD	7		2570	L A66 A69		120
852	7	77		C	@N @, EQVADD	7		2577	C A71 A69		121
853	7	78		BE	ENTER	5		2584	B 047 S		121
854	7	79		C	EQVADD, @B @	7		2589	C A69 A73		121
855	7	80		BE	SPECIN	5		2596	B 083 S		121
856	7	81		C	EQVADD, @2 @	7		2601	C A69 A75		121
857	7	82		BE	SPECIN	5		2608	B 083 S		121
858	7	83	SAVCOD	MCW	EQVADD, FREE&15	7		2613	M A69 115		122
859	7	84		SBR	XL3	4		2620	H 099		122
860	7	85		C	XL3, &FREE&11	7		2624	C 099 A78		122
861	7	86		BE	*&8	5		2631	B 043 S		122
862	7	87		MCW	@&@, 000&X3	7		2636	M ?60 070		122
863	7	88	TLUXT	B	XXXX	4		2643	B 000		122
864	7	89	ENTER	C	FREE&23, @SPS@	7		2647	C 123 A81		123
865	7	90		BE	GTFIX	5		2654	B 464 S		123
866	7	91		C	INPUT&20, @AUTO@	7		2659	C 352 A85		123
867	7	92		BE	GTFRE	5		2666	B 503 S		123
868	7	93		BW	PSTNU, MODESW	8		2671	V 630 ?02 1		123
869	7	94		B	RSTMOD	4		2679	B 638		123
870	7	95	SPECIN	BWZ	MLCTYP, EQVADD-1, B	8		2683	V P17 A68 B		124
871	7	96		LCA	EQVADD-2, EQVADD	7		2691	L A67 A69		124
872	7	97	CKEL	BCE	SAVCOD, FREE&19,	8		2698	B 013 119		124
873	7	98		MCW	@L@, EQVADD	7		2706	M A86 A69		124
874	7	99		B	SAVCOD	4		2713	B 013		124
875	8	00	MLCTYP	LCA	@M@, EQVADD	7		2717	L A87 A69		125
876	8	01		B	CKEL	4		2724	B 098		125
877	8	02		*							
878	8	03		* PROCESS	ILLEGAL OPERATION CODE						

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
879	8	04	*								
880	8	05	BADOP	LCA	BLANK,EQVADD		7	2728	L A54 A69		125
881	8	06		BW	SAVCOD,FREESW		8	2735	V 013 H09 1		125
882	8	07		BW	CKFF,MODESW		8	2743	V Q01 ?02 1		125
883	8	08		B	SAVCOD		4	2751	B 013		125
884	8	09	ABSCOD	BCE	SAVCOD,FREE&19, REW: BCE OPBLK,FREE&19,		8	2755	B 013 119		126
885	8	10		LCA	BLANK,EQVADD		7	2763	L A54 A69		126
886	8	11		MCW	FREE&19,EQVADD		7	2770	M 119 A69		126
887	8	12		BCE	SAVCOD,FREE&20, PROCESS ACTUAL OP		8	2777	B 013 120		126
888	8	13		CW	EQVADD		4	2785	) A69		126
889	8	14		SW			1	2789	,		126
890	8	15		MCW	FREE&20,EQVADD-1		7	2790	M 120 A68		127
891	8	16		B	SAVCOD		4	2797	B 013		127
892	8	17	CKFF	BCE	SAVCOD,FREE&14, IF RECORD APPEARS TO B		8	2801	B 013 114		127
893	8	18		MCW	FREE&80,INPUT&80 BE FIXED FORM RECORD		7	2809	M 180 412		127
894	8	19		CHAIN	9					MACRO	
895				MCW			1	2816	M	GEN	127
896				MCW			1	2817	M	GEN	127
897				MCW			1	2818	M	GEN	127
898				MCW			1	2819	M	GEN	128
899				MCW			1	2820	M	GEN	128
900				MCW			1	2821	M	GEN	128
901				MCW			1	2822	M	GEN	128
902				MCW			1	2823	M	GEN	128
903				MCW			1	2824	M	GEN	128
904	8	20		CS	332		4	2825	/ 332		128
905	8	21		CS			1	2829	/		129
906	8	22		MCW	FREE&80,PRINT&80		7	2830	M 180 280		129
907	8	23		CHAIN	4					MACRO	
908				MCW			1	2837	M	GEN	129
909				MCW			1	2838	M	GEN	129
910				MCW			1	2839	M	GEN	129
911				MCW			1	2840	M	GEN	129
912	8	24		MCW	@PROCESSING AS FIXED FORM RECORD@,332		7	2841	M B18 332		129
913	8	25		W			1	2848	2		130
914	8	26		SW	FREESW		4	2849	, H09		130
915	8	27		BCV	RESTR		5	2853	B Q62 @		130
916	8	28		B	GTFIX		4	2858	B 464		130
917	8	29	RESTR	CCB	GTFIX,1		5	2862	F 464 1		130
918	8	30	*								
919	8	31	*	END OF JOB	PROCEDURE						
920	8	32	*								
921	8	33	PREOJ	RTW	SYSTAP,OVL2		8	2867	L #U1 626 R		130
922	8	34	EOJ	B	PUT		4	2875	B 586		130
923	8	35		WTM	OUTAPE		5	2879	U #U4 M		131
924	8	36	*		MESSG@PASS 3 COMPLETED@,60,K,1						
925	01			CC	K		2	2884	F K		131
926	02			CS	332		4	2886	/ 332		131
927	03			CS			1	2890	/		131
928	04			MCW	@PASS 3 COMPLETED@,60&200		7	2891	M B34 260		131

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
929	05			W			1	2898	2		131
930	06			CC	1		2	2899	F 1		131
931	8	37		CW	SYSMK1		4	2901	) K09		132
932	8	38		CW	GMK1,GMK2		7	2905	) I89 187		132
933	8	39		RTW	SYSTAP,OVL2		8	2912	L #U1 626 R		132
934	8	40		RTW	SYSTAP,085		8	2920	L #U1 085 R		132
935	8	41		NOP	0		4	2928	N 000		132
936	8	42		BER	TPERR		5	2932	B K10 L		132
937	8	43		B	PASSB2		4	2937	B 200		133
938	8	44		LTORG					2941		
				DCW	&INAREA&12		3	2943	I15	ADCON	133
				DCW	&I		1	2944		LIT	133
				DCW	@CHA@		3	2947		LIT	133
				DCW	@S@		1	2948		LIT	133
				DCW	@Z@		1	2949		LIT	133
				DCW	&00		2	2951		LIT	133
			HLDCD	DCW	#01		1	2952		AREA	134
				DCW	@C@		1	2953		LIT	134
				DCW	@Y@		1	2954		LIT	134
				DCW	@&1 @		3	2957		LIT	134
				DCW	@EQU @		5	2962		LIT	134
				DCW	@SHIVAL &P @		10	2972		LIT	134
				DCW	&NUREC		3	2975	626	ADCON	134
				DCW	@B@		1	2976		LIT	135
				DCW	@ @		3	2979		LIT	135
			SAVOP	DCW	#09		9	2988		AREA	135
				DCW	@SHIVAL@		6	2994		LIT	135
				DCW	@SP @		5	2999		LIT	135
				DCW	@3 @		2	3001		LIT	135
			MODESW	DCW	#01		1	3002		AREA	135
				DCW	@ILLEGAL LABEL - SEQUENCE NUMBER@		31	3033		LIT	136
				DCW	@,@		1	3034		LIT	136
				DCW	@011@		3	3037		LIT	136
				DCW	@B @		3	3040		LIT	136
				DCW	@ B@		3	3043		LIT	137
				DCW	@NOP@		3	3046		LIT	137
				DCW	@BCE@		3	3049		LIT	137
				DCW	@BIN@		3	3052		LIT	137
				DCW	@& B@		3	3055		LIT	137
				DCW	&5		1	3056		LIT	137
				DCW	@BSS@		3	3059		LIT	137
				DCW	@&@		1	3060		LIT	138
				DCW	@\$\$@		2	3062		LIT	138
				DCW	&VALUE&2		3	3065	S02	ADCON	138
				DCW	@ACTUAL OP CODES PRESENT IN FIXED FORM IMAGES@		44	3109		LIT	140
			ABSW	DCW	#01		1	3110		AREA	140
				DCW	@ &@		2	3112		LIT	140
			WAREA6	DCW	#06		6	3118		AREA	140
				DCW	@EQU@		3	3121		LIT	140
				DCW	@&P @		3	3124		LIT	141

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				DCW	@032@		3	3127		LIT	141
				DCW	@000@		3	3130		LIT	141
				DCW	@@@		1	3131		LIT	141
				DCW	@52@		2	3133		LIT	141
				DCW	@P@		1	3134		LIT	141
				DCW	@00@		2	3136		LIT	141
				DCW	@LTORG@		5	3141		LIT	142
				DCW	@05@		2	3143		LIT	142
				DCW	@04@		2	3145		LIT	142
				DCW	&4		1	3146		LIT	142
				DCW	&3		1	3147		LIT	142
				DCW	@&X@		2	3149		LIT	142
				DCW	@-@		1	3150		LIT	142
				DCW	@I99@		3	3153		LIT	143
			BLANK3	DCW	#03		3	3156		AREA	143
				DCW	&5500		4	3160		LIT	143
			EQVADD	DCW	#09		9	3169		AREA	143
				DCW	@N @		2	3171		LIT	143
				DCW	@B @		2	3173		LIT	143
				DCW	@2 @		2	3175		LIT	143
				DCW	&FREE&11		3	3178	111	ADCON	144
				DCW	@SPS@		3	3181		LIT	144
				DCW	@AUTO@		4	3185		LIT	144
				DCW	@L@		1	3186		LIT	144
				DCW	@M@		1	3187		LIT	144
				DCW	@PROCESSING AS FIXED FORM RECORD@		31	3218		LIT	145
				DCW	@PASS 3 COMPLETED@		16	3234		LIT	146
939	8	45	*								
940	8	46			*TABLE OF MNEMONIC OPERATION CODES						
941	8	47	*								
942	8	48		ORG	3253				3253		
943	8	49		DCW	@@@	1		3253			147
944	8	50		DCW	#4	4		3257			147
945	8	51		DCW	#2	2		3259			147
946	8	52		DCW	@NNOP@	4		3263			147
947	8	53		DCW	@C XFR@	5		3268			147
948	8	54		DCW	@O LOR@	5		3273			147
949	8	55		DCW	@I JOB@	5		3278			147
950	8	56		DCW	@/CS @	4		3282			148
951	8	57		DCW	@0 DA @	5		3287			148
952	8	58		DCW	@S2WSS@	5		3292			148
953	8	59	MASYM	DCW	@#MA @	4		3296			148
954	8	60		DCW	@3 END@	5		3301			148
955	8	61		DCW	@PMM@	4		3305			148
956	8	62		DCW	@N ENT@	5		3310			148
957	8	63		DCW	@BRMRTB@	6		3316			149
958	8	64		DCW	@ABBLC@	5		3321			149
959	8	65		DCW	@ @	1		3322			149
960	8	66		DCW	@BMMBC@	5		3327			149
961	8	67		DCW	@&D @	4		3331			149

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
962	8	68		DCW	@F3WM2 WDC@	9		3340			149
963	8	69		DCW	@ FCCB@	5		3345			149
964	8	70		DCW	@S1DUDCR@	7		3352			150
965	8	71		DCW	@YMLZ@	4		3356			150
966	8	72		DCW	@@M @	4		3360			150
967	8	73		DCW	@UEUSKP@	6		3366			150
968	8	74		DCW	@O ORG@	5		3371			150
969	8	75		DCW	@HSBR@	4		3375			150
970	8	76		DCW	@K8 SS @	6		3381			150
971	8	77		DCW	@YMZ @	4		3385			151
972	8	78		DCW	@ @	1		3386			151
973	8	79		DCW	@)CW @	4		3390			151
974	8	80		DCW	@UWLWTW@	6		3396			151
975	8	81		DCW	@B MLC@	5		3401			151
976	8	82		DCW	@ZMCS@	4		3405			151
977	8	83		DCW	@UNMWT @	6		3411			151
978	8	84		DCW	@MCMW@	4		3415			152
979	8	85		DCW	@F2WM2 WDT@	9		3424			152
980	8	86		DCW	@QSAR@	4		3428			152
981	8	87		DCW	@R6WRF@	5		3433			152
982	8	88		DCW	@S1EUECR@	7		3440			152
983	8	89		DCW	@8SRF@	4		3444			152
984	8	90		DCW	@)2WM @	5		3449			152
985	8	91		DCW	@1VEW @	5		3454			153
986	8	92		DCW	@9BBC9@	5		3459			153
987	8	93		DCW	@1R @	4		3463			153
988	8	94		DCW	@URLRTW@	6		3469			153
989	8	95		DCW	@F1RMRD @	7		3476			153
990	8	96		DCW	@F1RLRDW@	7		3483			153
991	8	97		DCW	@MMU @	4		3487			153
992	8	98		DCW	@VBWZ@	4		3491			154
993	8	99		DCW	@,SW @	4		3495			154
994	9	00		DCW	@RBBPC@	5		3500			154
995	9	01		DCW	@CC @	4		3504			154
996	9	02		DCW	@C4PCB@	5		3509			154
997	9	03		DCW	@DMLN@	4		3513			154
998	9	04		DCW	@UMUWTM@	6		3519			154
999	9	05		DCW	@EMCE@	4		3523			155
1000	9	06		DCW	@C EX @	5		3528			155
1001	9	07		DCW	@ UCU @	5		3533			155
1002	9	08		DCW	@ZBBAV@	5		3538			155
1003	9	09		DCW	@5RP @	4		3542			155
1004	9	10		DCW	@.H @	4		3546			155
1005	9	11		DCW	@LLU @	4		3550			155
1006	9	12		DCW	@BMMWTB@	6		3556			156
1007	9	13		DCW	@ KSSB@	5		3561			156
1008	9	14		DCW	@KBBBF@	5		3566			156
1009	9	15		DCW	@PMR@	4		3570			156
1010	9	16		DCW	@UBUSP@	6		3576			156
1011	9	17		DCW	@URMRT @	6		3582			156

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1012	9	18		DCW	@SBBE @		5	3587			156
1013	9	19		DCW	@3WR @		4	3591			157
1014	9	20		DCW	@SS @		4	3595			157
1015	9	21		DCW	@BB @		4	3599			157
1016	9	22		DCW	@1 DCW@		5	3604			157
1017	9	23		DCW	@WBBE@		4	3608			157
1018	9	24		DCW	@J DSA@		5	3613			157
1019	9	25		DCW	@LLCA@		4	3617			157
1020	9	26		DCW	@A DC @		5	3622			158
1021	9	27		DCW	@FWLWDW@		7	3629			158
1022	9	28		DCW	@7WRP@		4	3633			158
1023	9	29		DCW	@BBIN@		5	3638			158
1024	9	30		DCW	@KVM @		5	3643			158
1025	9	31		DCW	@BBPB@		5	3648			158
1026	9	32		DCW	@9SPF@		4	3652			158
1027	9	33		DCW	@M SPX@		5	3657			159
1028	9	34		DCW	@4P @		4	3661			159
1029	9	35		DCW	@FORMSD @		7	3668			159
1030	9	36		DCW	@@BBCV@		5	3673			159
1031	9	37		DCW	@1ZS @		4	3677			159
1032	9	38		DCW	@O LTO@		5	3682			159
1033	9	39		DCW	@P EQU@		5	3687			159
1034	9	40		DCW	@ BBSS@		5	3692			160
1035	9	41		DCW	@F8 CC @		6	3698			160
1036	9	42		DCW	@AA @		4	3702			160
1037	9	43		DCW	@LBBE@		5	3707			160
1038	9	44		DCW	@/BBU @		5	3712			160
1039	9	45		DCW	@BBCE@		4	3716			160
1040	9	46		DCW	@UBBH @		5	3721			160
1041	9	47		DCW	@TBL @		5	3726			161
1042	9	48		DCW	@X DS @		5	3731			161
1043	9	49		DCW	@F2RM2 RDT@		9	3740			161
1044	9	50		DCW	@AMBD@		5	3745			161
1045	9	51		DCW	@2W @		4	3749			161
1046	9	52		DCW	@FLMWD @		7	3756			161
1047	9	53		DCW	@DMN @		4	3760			161
1048	9	54		DCW	@CLRCB@		5	3765			162
1049	9	55		DCW	@6WP @		4	3769			162
1050	9	56		DCW	@XMIZ@		4	3773			162
1051	9	57		DCW	#9		9	3782			162
1052	9	58		DCW	#3		3	3785			162
1053	9	59		DCW	@?ZA @		4	3789			162
1054	9	60		DCW	#1		1	3790			162
1055	9	61		DCW	@UURWU@		6	3796			163
1056	9	62		DCW	@URURWD@		6	3802			163
1057	9	63		DCW	@R4RF @		5	3807			163
1058	9	64	OPND	DCW	#1		1	3808			163
1059	9	65		*							
1060	9	66		*	CONSTANTS AND TABLES						
1061	9	67		*							

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1062	9	68	FREESW	DC	0		1	3809			163
1063	9	69	BINTBL	DCW	@BAV Z@		5	3814			163
1064	9	70		DCW	@BC9 9@		5	3819			163
1065	9	71		DCW	@BU /@		5	3824			163
1066	9	72		DCW	@BCV @@		5	3829			164
1067	9	73		DCW	@BE S@		5	3834			164
1068	9	74		DCW	@BEF K@		5	3839			164
1069	9	75		DCW	@BER L@		5	3844			164
1070	9	76		DCW	@BH U@		5	3849			164
1071	9	77		DCW	@BL T@		5	3854			164
1072	9	78		DCW	@BLC A@		5	3859			164
1073	9	79		DCW	@BPB P@		5	3864			165
1074	9	80		DCW	@BPCBR@		5	3869			165
1075	9	81		DCW	@BSS B@		5	3874			165
1076	9	82		DCW	@BSS C@		5	3879			165
1077	9	83		DCW	@BSS D@		5	3884			165
1078	9	84		DCW	@BSS E@		5	3889			165
1079	9	85		DCW	@BSS F@		5	3894			165
1080	9	86		DCW	@BSS G@		5	3899			166
1081	9	87		*							
1082	9	88		*	TAPE INPUT AREA						
1083	9	89		*							
1084	9	90		DS	3			3902			
1085	9	91	INAREA	DA	1X86,G			3903	3988		
1085	9	91		DCW	@"@		1	3989		GMARK	167
1086	9	92	GMK1	EQU	*			3989			
1087	9	93		*							
1088	9	94		*	EQUATES						
1089	9	95		*							
1090	9	96	BLANK	EQU	BLANK3-2			3154			
1091	9	97	BLNK2	EQU	BLANK3-1			3155			
1092	9	98	ENDFIX	EQU	ENTSPS			0626			
1093	9	99	WAREA3	EQU	WAREA6-3			3115			
1094	10	00	WAREA2	EQU	WAREA6-4			3114			
1095	10	01		EX	LIBRN				B 000		168

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1096	10	02		JOB	1401 AUTOCODER-PASS 4-LEFT MAIN LINE						
1097	10	03		SFX	Z						
1098	10	04		*							
1099	10	05		*	INITIALIZATION OF INDEX LOCATIONS						
1100	10	06		*							
1101	10	07		ORG	#5				0085		
1102	10	08	GRPMK1	DC	@}@	Z	1	0085		GMARK	171
1103	10	09		DC	0	Z	1	0086			171
1104	10	10	XL1	DCW	000	Z	3	0089			171
1105	10	11		DC	00	Z	2	0091			171
1106	10	12	XL2	DCW	000	Z	3	0094			171
1107	10	13		DC	00	Z	2	0096			171
1108	10	14	XL3	DCW	000	Z	3	0099			171
1109	10	15		DS	1	Z		0100			
1110	10	16		*							
1111	10	17		*	FIXED FORM IMAGE AREA						
1112	10	18		*							
1113	10	19		IMAGE	EQU *	Z		0100			
1114	10	20		DS	84	Z		0184			
1115	10	21	GRPMK4	DC	@}@	Z	1	0185		GMARK	172
1116	10	22	ZONE	DCW	@2SKB@	Z	4	0189			172
1117	10	23	EXOVFL	DCW	99	Z	2	0191			172
1118	10	24	EXNUMB	DCW	00	Z	2	0193			172
1119	10	25	PROCOR	DCW	#1	Z	1	0194			172
1120	10	26	TOTLBL	DCW	&0000	Z	4	0198			173
1121	10	27	JOBSW	DCW	0	Z	1	0199			173
1122	10	28		*							
1123	10	29		*	READ IN CONTROL CARD OVERLAY						
1124	10	30		*							
1125	10	31	PASSB2	RTW	SYSTAP,DOPROG	Z	8	0200	L #U1 N75 R		173
1126	10	32		NOP	0	Z	4	0208	N 000		173
1127	10	33		BER	TPERR	Z	5	0212	B 221 L		173
1128	10	34		B	START	Z	4	0217	B N75		173
1129	10	35		*							
1130	10	36		*	TAPE REDUNDANCY ROUTINE						
1131	10	37		*							
1132	10	38	TPERR	SBR	XL3	Z	4	0221	H 099		173
1133	10	39		SBR	REXT&3	Z	4	0225	H 293		174
1134	10	40		MZ	&9, XL3	Z	7	0229	Y 464 099		174
1135	10	41		MCW	4000-10&X3, TPINS&7	Z	7	0236	M I10 284		174
1136	10	42		MN	TPINS&3, BSP1&3	Z	7	0243	D 280 260		174
1137	10	43		MCW	TPINS&7, INST2&7	Z	7	0250	M 284 393		174
1138	10	44	BSP1	BSP	INITAP	Z	5	0257	U #U0 B		174
1139	10	45		BCE	WRTRD, TPINS&7, W	Z	8	0262	B 366 284 W		175
1140	10	46		MCW	&9, RDC1#1	Z	7	0270	M 464 465		175
1141	10	47	TPINS	RT	INITAP, XXXX	Z	8	0277	M #U0 000 R		175
1142	10	48		BER	RDERR	Z	5	0285	B 294 L		175
1143	10	49	REDXT	B	XXXX	Z	4	0290	B 000		175
1144	10	50	RDERR	MN	TPINS&3, BSP2&3	Z	7	0294	D 280 304		175
1145	10	51	BSP2	BSP	INITAP	Z	5	0301	U #U0 B		176

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1146	10	52		S	&1, RDC1	Z	7	0306	S 466 465		176
1147	10	53		BWZ	TPINS, RDC1, B	Z	8	0313	V 277 465 B		176
1148	10	54		MN	TPINS&3, TPHLT&6	Z	7	0321	D 280 334		176
1149	10	55	TPHLT	H	XXXX, 490	Z	7	0328	. 000 490		176
1150	10	56		MCW	TPINS&7, * &8	Z	7	0335	M 284 349		177
1151	10	57		RT	INITAP, XXXX	Z	8	0342	M #U0 000 R		177
1152	10	58		BSS	BSP1, E	Z	5	0350	B 257 E		177
1153	10	59		H	XXXX, 402	Z	7	0355	. 000 402		177
1154	10	60		B	REDXT	Z	4	0362	B 290		177
1155	10	61	WRTRD	SKP	SYSTAP	Z	5	0366	U #U1 E		177
1156	10	62		BCE	SBCTR, WRTRC-1, 5	Z	8	0371	B 403 467 5		178
1157	10	63		A	&1, WRTRC#2	Z	7	0379	A 466 468		178
1158	10	64	INST2	WT	INITAP, XXXX	Z	8	0386	M #U0 000 W		178
1159	10	65		BER	BSP1	Z	5	0394	B 257 L		178
1160	10	66		B	REDXT	Z	4	0399	B 290		178
1161	10	67	SBCTR	S	WRTRC	Z	4	0403	S 468		178
1162	10	68		MN	TPINS&3, * &7	Z	7	0407	D 280 420		179
1163	10	69		H	XXXX, 460	Z	7	0414	. 000 460		179
1164	10	70		B	INST2	Z	4	0421	B 386		179
1165	10	71		*							
1166	10	72		*	NOISE RECORD ROUTINE						
1167	10	73		*							
1168	10	74	NOISE	SBR	XL3	Z	4	0425	H 099		179
1169	10	75		SBR	NSXT&3	Z	4	0429	H 463		179
1170	10	76		MZ	&9, XL3	Z	7	0433	Y 464 099		179
1171	10	77	N2	BCE	4000-12&X3, XXXX, }	Z	8	0440	B IH8 000 }	GMARK	180
1172	10	78		CHAIN	12	Z				MACRO	
1173				BCE		Z	1	0448	B	GEN	180
1174				BCE		Z	1	0449	B	GEN	180
1175				BCE		Z	1	0450	B	GEN	180
1176				BCE		Z	1	0451	B	GEN	180
1177				BCE		Z	1	0452	B	GEN	180
1178				BCE		Z	1	0453	B	GEN	180
1179				BCE		Z	1	0454	B	GEN	181
1180				BCE		Z	1	0455	B	GEN	181
1181				BCE		Z	1	0456	B	GEN	181
1182				BCE		Z	1	0457	B	GEN	181
1183				BCE		Z	1	0458	B	GEN	181
1184				BCE		Z	1	0459	B	GEN	181
1185	10	79	NSXT	B	XXXX	Z	4	0460	B 000		181
1186	10	80		LTORG	*	Z			0464		
				DCW	&9	Z	1	0464		LIT	182
				RDC1Z	DCW #01	Z	1	0465		AREA	182
				DCW	&1	Z	1	0466		LIT	182
				WRTRCZ	DCW #02	Z	2	0468		AREA	182
1187	10	81		*							
1188	10	82		*	END OF CONTROL CARD ANALYSIS, READ IN MAIN LINE						
1189	10	83		*							
1190	10	84	CWI98	CW	3998	Z	4	0469	) I98		182
1191	10	85		SW	JOBSW	Z	4	0473	, I99		182

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1192	10	86		B	PUT	Z	4	0477	B 610		182
1193	10	87	RTNJB	CW	JOBSW	Z	4	0481	) 199		183
1194	10	88		B	WRTP	Z	4	0485	B 578		183
1195	10	89	LDOPTB	RTW	SYSTAP,DOPROG	Z	8	0489	L %U1 N75 R		183
1196	10	90		NOP	0	Z	4	0497	N 000		183
1197	10	91		BER	TPERR	Z	5	0501	B 221 L		183
1198	10	92		CW	GRPMK5,GRPMK8	Z	7	0506	) N74 H99		183
1199	10	93		MLC	@0@,FACTOR-3	Z	7	0513	M M83 H45		183
1200	10	94		*							
1201	10	95		*	BEGINNING OF MAIN LINE						
1202	10	96									
1203	10	97	BYPASS	B	GET	Z	4	0520	B 538		184
1204	10	98		S	XL3&1	Z	4	0524	S 100		184
1205	10	99		S		Z	1	0528	S		184
1206	11	00		S		Z	1	0529	S		184
1207	11	01		B	CKCOM	Z	4	0530	B 706		184
1208	11	02		*							
1209	11	03		*	BEGINNING OF NEW CARD ANALYSIS						
1210	11	04		*							
1211	11	05	NUREC	B	PUT ??? SO GETXT GOES TO CKCOM ??? PUT LAST RECORD	Z	4	0534	B 610		184
1212	11	06	GET	SBR	GETXT&3	Z	4	0538	H 577		184
1213	11	07		CS	INPUT&80	Z	4	0542	/ 080		185
1214	11	08		SW	INPUT&21	Z	4	0546	, 021		185
1215	11	09		SBR	N2&6,INPUT&13	Z	7	0550	H 446 013		185
1216	11	10		RT	INTAP,INPUT&1	Z	8	0557	M %U4 001 R		185
1217	11	11		B	NOISE	Z	4	0565	B 425		185
1218	11	12		BER	TPERR	Z	5	0569	B 221 L		185
1219	11	13	GETXT	B	XXXX	Z	4	0574	B 000		185
1220	11	14		*							
1221	11	15		*	IMAGE TO OUTPUT AREA						
1222	11	16		*							
1223	11	17	WRTP	SBR	WRTXT&3	Z	4	0578	H 609		186
1224	11	18		WT	OUTAP,OUTPUT&1	Z	8	0582	M %U5 I18 W		186
1225	11	19		NOP	0	Z	4	0590	N 000		186
1226	11	20		BER	TPERR	Z	5	0594	B 221 L		186
1227	11	21		MLC	@00@,HOLDC	Z	7	0599	M M86 M91		186
1228	11	22	WRTXT	B	XXXX	Z	4	0606	B 000		186
1229	11	23	PUT	SBR	PUTXT&3	Z	4	0610	H 705		186
1230	11	24		MLC	HOLDC,XL3	Z	7	0614	M M91 099		187
1231	11	25		MLC	IMAGE&80,OUTPUT&80&X3	Z	7	0621	M 180 I17		187
1232	11	26		CHAIN	10	Z				MACRO	
1233				MLC		Z	1	0628	M	GEN	187
1234				MLC		Z	1	0629	M	GEN	187
1235				MLC		Z	1	0630	M	GEN	187
1236				MLC		Z	1	0631	M	GEN	187
1237				MLC		Z	1	0632	M	GEN	187
1238				MLC		Z	1	0633	M	GEN	188
1239				MLC		Z	1	0634	M	GEN	188
1240				MLC		Z	1	0635	M	GEN	188
1241				MLC		Z	1	0636	M	GEN	188

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1242				MLC		Z	1	0637	M	GEN	188
1243	11	27	TPYET	A	&80,HOLDC#3	Z	7	0638	A M88 M91		188
1244	11	28	CKTAP	BCE	WRTP,XL3-2,0	Z	8	0645	B 578 097 0		188
1245	11	29		BW	DCWXT,DCWSW2	Z	8	0653	V J85 H92 1		189
1246	11	30		BW	SPGLIN,INITSW	Z	8	0661	V 692 H87 1		189
1247	11	31		CS	INPUT&80	Z	4	0669	/ 080		189
1248	11	32		SW	INPUT&21	Z	4	0673	, 021		189
1249	11	33	MRCM		INPUT&1,IMAGE&1	Z	7	0677	P 001 101		189
1250	11	34		BW	RTNJB,JOBSW	Z	8	0684	V 481 199 1		189
1251	11	35	SPGLIN	S	IMAGE&5	Z	4	0692	S 105		190
1252	11	36		S	XL3&1	Z	4	0696	S 100		190
1253	11	37		S		Z	1	0700	S		190
1254	11	38		S		Z	1	0701	S		190
1255	11	39	PUTXT	B	XXXX	Z	4	0702	B 000		190
1256	11	40	SAVE2	ORG	*	Z		0706	0706		
1257	11	41	CKCOM	BCE	BYPASS,INPUT&6,*	Z	8	0706	B 520 006 *		190
1258	11	42		MN	INPUT&75,CK2&7	Z	7	0714	D 075 735		190
1259	11	43		MZ	INPUT&75,CK2&7	Z	7	0721	Y 075 735		191
1260	11	44	CK2	BCE	BYPASS,@RSWZ@,0	Z	8	0728	B 520 M95 0		191
1261	11	45		CHAIN	3	Z				MACRO	
1262				BCE		Z	1	0736	B	GEN	191
1263				BCE		Z	1	0737	B	GEN	191
1264				BCE		Z	1	0738	B	GEN	191
1265	11	46		MLC	INPUT&84,IMAGE&80	Z	7	0739	M 084 180		191
1266	11	47	BWZ		*&5,INPUT&6,2	Z	8	0746	V 758 006 2		191
1267	11	48		B	PROLBL	Z	4	0754	B V38		192
1268	11	49		MCW	INPUT&18,IMAGE&16	Z	7	0758	M 018 116		192
1269	11	50		SW	SCANSW	Z	4	0765	, N15		192
1270	11	51		MLC	@00@,FREE#3	Z	7	0769	M M86 M98		192
1271	11	52	LCA		BLANK4,EQUADD	Z	7	0776	L H62 N11		192
1272	11	53		MCW	@I9I@,XL1	Z	7	0783	M N01 089		192
1273	11	54	PLSCAN	BCE	PLUSFD,INPUT&15&X1,&	Z	8	0790	B 817 0/5 &		193
1274	11	55	GOBK	C	XL1,@I9G@	Z	7	0798	C 089 N04		193
1275	11	56		A	@I99@,XL1	Z	7	0805	A N07 089		193
1276	11	57		BL	PLSCAN	Z	5	0812	B 790 T		193
1277	11	58	PLUSFD	BCE	GOBK,INPUT&14&X1,&	Z	8	0817	B 798 0/4 &		193
1278	11	59		SW	EQUADD&1&X1	Z	4	0825	, N/2		193
1279	11	60		MCW	INPUT&15,EQUADD#4	Z	7	0829	M 015 N11		194
1280	11	61		S	XL1&2	Z	4	0836	S 091		194
1281	11	62		BW	INSTR,EQUADD	Z	8	0840	V N75 N11 1		194
1282	11	63		BCE	CTRL0P,EQUADD,	Z	8	0848	B C61 N11		194
1283	11	64		B	INSTR	Z	4	0856	B N75		194
1284	11	65		*							
1285	11	66		*	SCAN FOR COMMA OR BLANK						
1286	11	67									
1287	11	68	COMSCN	SBR	CSCNXT&3	Z	4	0860	H 932		194
1288	11	69		S	XL3&1	Z	4	0864	S 100		194
1289	11	70		SW	INPUT&21&X2,SCANSW	Z	7	0868	, 0K1 N15		195
1290	11	71	TSTCOM	A	&1,XL2	Z	7	0875	A N12 094		195
1291	11	72		A	&1,XL3	Z	7	0882	A N12 099		195

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1292	11	73		BCE	PRSCXT, INPUT&20&X2,,				INDEX LOCATION 2	Z 8 0889	B 925 0K0 , 195
1293	11	74		C	INPUT&21&X2, BLANK2				CONTAINS TOTAL	Z 7 0897	C 0K1 H60 195
1294	11	75		BE	CSCNXT				POSITIONS SCANNED FOR	Z 5 0904	B 929 S 196
1295	11	76		C	XL2, @54@				ALL OPERANDS	Z 7 0909	C 094 N14 196
1296	11	77		BE	SCNERR				SCANSW SHOWS WHETHER	Z 5 0916	B 933 S 196
1297	11	78		B	TSOTCOM				SCAN TERMINATED BY	Z 4 0921	B 875 196
1298	11	79	PRSCXT	CW	SCANSW#1				COMMA OR TWO BLANKS	Z 4 0925	) N15 196
1299	11	80	CSCNXT	B	XXXX					Z 4 0929	B 000 196
1300	11	81	SCNERR	MZ	BBIT, IMAGE&5					Z 7 0933	Y 188 105 196
1301	11	82	BCE		CSCNXT, IMAGE&75, 3					Z 8 0940	B 929 175 3 197
1302	11	83		B	NUREC					Z 4 0948	B 534 197
1303	11	84		*							
1304	11	85		*	*CONVERT FREE TO FIXED						
1305	11	86		*							
1306	11	87	FR2FIX	SBR	FR2FXT&3					Z 4 0952	H S32 197
1307	11	88		MCW	BLANK, W6AREA					Z 7 0956	M H59 H77 197
1308	11	89		MCW	XL2&1, XL3&1					Z 7 0963	M 095 100 197
1309	11	90	SCNDEX	C	XL3, @04@				ANY CHARACTER ADJ	Z 7 0970	C 099 N17 197
1310	11	91		BH	DOADRS				OR INDEXING	Z 5 0977	B /50 U 198
1311	11	92		BE	CKADJ					Z 5 0982	B '17 S 198
1312	11	93		C	INPUT&18&X3, @&X@				Q. INDEXING	Z 7 0987	C 0A8 N19 198
1313	11	94		BU	CKADJ				PROCESS INDEXING	Z 5 0994	B '17 / 198
1314	11	95		MN	INPUT&19&X3, IMAGE&27&X1					Z 7 0999	D 0A9 157 198
1315	11	96		A	&K4K-3, XL3					Z 7 1006	A N22 099 198
1316	11	97		B	SCNDEX					Z 4 1013	B 970 199
1317	11	98	CKADJ	BCE	CKMIN, INPUT&18&X3, &					Z 8 1017	B /34 0A8 & 199
1318	11	99	SCANB	EQU	*-1				CHARACTER ADJUSTMENT	Z 1 1023	
1319	12	00		BCE					OR AREA DEFINITION	Z 1 1025	B 199
1320	12	01		BCE					LITERAL CODE	Z 1 1026	B 199
1321	12	02	DOMIN	BCE	ISADJ, INPUT&18&X3, -					Z 8 1027	B '51 0A8 - 199
1322	12	03		BCE						Z 1 1035	B 199
1323	12	04		BCE						Z 1 1036	B 199
1324	12	05		BCE	ISADJ, INPUT&18&X3, #					Z 8 1037	B '51 0A8 # 200
1325	12	06		BCE						Z 1 1045	B 200
1326	12	07		BCE						Z 1 1046	B 200
1327	12	08		B	DOADRS					Z 4 1047	B /50 200
1328	12	09	ISADJ	SBR	W3AREA				PROCESS CHARACTER	Z 4 1051	H H74 200
1329	12	10	PROADJ	S	&SCANB, W3AREA				ADJUSTMENT	Z 7 1055	S N25 H74 200
1330	12	11		MLC	XL2, HOLD3					Z 7 1062	M 094 H65 200
1331	12	12		MLNS	W3AREA, XL2					Z 7 1069	D H74 094 201
1332	12	13		MLC	@00@					Z 4 1076	M N27 201
1333	12	14		MLC	INPUT&19&X3, W3AREA-4&X2					Z 7 1080	M 0A9 HPO 201
1334	12	15		S	XL2&1, XL3&1					Z 7 1087	S 095 100 201
1335	12	16		MZ	INPUT&20&X3, W3AREA-4&X2					Z 7 1094	Y 0B0 HPO 201
1336	12	17		MN	INPUT&20&X3, W6AREA					Z 7 1101	D 0B0 H77 201
1337	12	18		SW	IMAGE&24&X1					Z 4 1108	, 154 202
1338	12	19		A	W3AREA-4&X2, IMAGE&26&X1				ADD CHAR ADJUSTMENT TO	Z 7 1112	A HPO 156 202
1339	12	20		CW	IMAGE&24&X1				FIXED FORM	Z 4 1119	) 154 202
1340	12	21		MLC	HOLD3, XL2					Z 7 1123	M H65 094 202
1341	12	22		B	SCNDEX					Z 4 1130	B 970 202

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1342	12	23	CKMIN	SBR	W3AREA				ACCOUNT FOR POSSIBLE	Z 4 1134	H H74 202
1343	12	24		BCE	DOMIN, INPUT&18&X3, -				MULTI-CHAR ADJ OF	Z 8 1138	B '27 0A8 - 202
1344	12	25		B	PROADJ				&1-2 TYPE	Z 4 1146	B '55 203
1345	12	26		S	FR2FXT, XL3				PROCESS ADDRESS	Z 7 1150	S M98 099 203
1346	12	27		C	XL3, &007				Q. OLLEGAL ADDRESS	Z 7 1157	C 099 N30 203
1347	12	28		BL	FIXER				LENGTH	Z 5 1164	B S33 T 203
1348	12	29		A	FR2FXT, XL3					Z 7 1169	A M98 099 203
1349	12	30		MZ	BLANK, XL3					Z 7 1176	Y H59 099 203
1350	12	31		MCW	@' @, INPUT&20&X3					Z 7 1183	M N31 0B0 204
1351	12	32		MLC	FR2FXT, XL3					Z 7 1190	M M98 099 204
1352	12	33	MRCM		INPUT&21&X3, IMAGE&17&X1				MOVE ADDRESS TO IMAGE	Z 7 1197	P 0B1 1/7 204
1353	12	34		SBR	XL3					Z 4 1204	H 099 204
1354	12	35		MZ	ABBIT, XL3					Z 7 1208	Y 189 099 204
1355	12	36		MCW	BLANK, 4000-1&X3					Z 7 1215	M H59 I19 204
1356	12	37		MN	W6AREA, IMAGE&23&X1					Z 7 1222	D H77 153 205
1357	12	38	FR2FXT	B	XXXX				EXIT	Z 4 1229	B 000 205
1358	12	39	FIXER	SW	FIXSW#1					Z 4 1233	, N32 205
1359	12	40	OPDER	MCW	@000@, XL3				CODE STATEMENT	Z 7 1237	M M86 099 205
1360	12	41		MZ	ABIT, IMAGE&5				BAD BUT PROCESSABLE	Z 7 1244	Y 187 105 205
1361	12	42		BCE	*&8, XL1, 0					Z 8 1251	B S66 089 0 205
1362	12	43		MCW	@003@, XL3					Z 7 1259	M N35 099 206
1363	12	44		MCW	@###@, IMAGE&70&X3					Z 7 1266	M N38 100 206
1364	12	45		MZ	ABBIT, IMAGE&1&X3					Z 7 1273	Y 189 171 206
1365	12	46		BW	FR2FXT, FIXSW					Z 8 1280	V S29 N32 1 206
1366	12	47		B	LTER2					Z 4 1288	B U09 206
1367	12	48		*							
1368	12	49		*	*SCAN FOR SIGN						
1369	12	50		*							
1370	12	51	SCANAT	SBR	SCNATX&3					Z 4 1292	H T85 206
1371	12	52		SW	INPUT&21&X2, SCANSW				SCAN IS EXECUTED FROM	Z 7 1296	, 0K1 N15 207
1372	12	53		ZA	@510@, XL3&1				RIGHT TO LEFT	Z 7 1303	? N41 100 207
1373	12	54	A1ALF	BCE	NDASCN, INPUT&21&X3, @					Z 8 1310	B T29 0B1 @ 207
1374	12	55		S	&10, XL3&1					Z 7 1318	S N43 100 207
1375	12	56		B	A1ALF					Z 4 1325	B T10 207
1376	12	57	NDASCN	C	XL2, XL3				Q. NO ENDING AT SIGN	Z 7 1329	C 094 099 208
1377	12	58		BE	LTERR					Z 5 1336	B T94 S 208
1378	12	59		BCE	SETSW, INPUT&22&X3, ,				Q. IS ENDING AT SIGN	Z 8 1341	B T86 0B2 , 208
1379	12	60		C	INPUT&23&X3, BLANK2				FOLLOWED BY COMMA OR	Z 7 1349	C 0B3 H60 208
1380	12	61		BU	LTERR				TWO BLANKS	Z 5 1356	B T94 / 208
1381	12	62	SXL	S	XL2&1, XL3&1					Z 7 1361	S 095 100 208
1382	12	63		A	&2, XL3					Z 7 1368	A N44 099 209
1383	12	64		A	XL3, XL2					Z 7 1375	A 099 094 209
1384	12	65	SCNATX	B	XXXX				XXXX	Z 4 1382	B 000 209
1385	12	66	SETSW	CW	SCANSW					Z 4 1386	) N15 209
1386	12	67		B	SXL					Z 4 1390	B T61 209
1387	12	68		*							
1388	12	69		*	*IMPROPERLY CODED STATEMENT ROUTINE						
1389	12	70		*							
1390	12	71	LTER2	MLZS	ABIT, IMAGE&5				MARK STATEMENT	Z 7 1394	Y 187 105 209
1391	12	72		CW	FIXSW				BAD BUT PROCESSABLE	Z 4 1401	) N32 209

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1392	12	73		B	OPDER	Z	4	1405	B S37		210
1393	12	74	LTER2	B	COMSCN	Z	4	1409	B 860		210
1394	12	75		MCW	@@@, INPUT&20&X3	Z	7	1413	M N45 0B0		210
1395	12	76		A	&1, XL3	Z	7	1420	A N12 099		210
1396	12	77		B	SCNATX	Z	4	1427	B T82		210
1397	12	78		*							
1398	12	79		*	*PLACE LITERALS ON MASTER TAPE						
1399	12	80		*							
1400	12	81	CALL	BW	CKLOR, LITSW#1	Q. ANY LITERALS	Z	8	1431	V U85 N46 1	210
1401	12	82		RT	SYSTAP, INPUT&1	READ IN PROCESS	Z	8	1439	M &U1 001 R	211
1402	12	83		RTW	SYSTAP, DOPROG	LITERALS OVERLAP	Z	8	1447	L &U1 N75 R	211
1403	12	84		NOP	0		Z	4	1455	N 000	211
1404	12	85		BER	0		Z	5	1459	B 221 L	211
1405	12	86		B	OULLIT		Z	4	1464	B N75	211
1406	12	87	RECALL	RTW	SYSTAP, DOPROG	RECALL MAIN LINE	Z	8	1468	L &U1 N75 R	211
1407	12	88		NOP	0	OVERLAP	Z	4	1476	N 000	212
1408	12	89		BER	TPERR		Z	5	1480	B 221 L	212
1409	12	90	CKLOR	BCE	BYPASS, IMAGE&75,	Q. LITERAL ORIGIN	Z	8	1485	B 520 175	212
1410	12	91		BCE	NUREC, IMAGE&75, C	Q. EXECUTE	Z	8	1493	B 534 175 C	212
1411	12	92		RT	SYSTAP, INPUT&1	SKIP PAST OVERLAPS	Z	8	1501	M &U1 001 R	212
1412	12	93		RT	SYSTAP, INPUT&1	AND READ IN END OF	Z	8	1509	M &U1 001 R	213
1413	12	94		RTW	SYSTAP, EOJRT	JOB OVERLAP	Z	8	1517	L &U1 706 R	213
1414	12	95		NOP	0		Z	4	1525	N 000	213
1415	12	96		BER	TPERR		Z	5	1529	B 221 L	213
1416	12	97		B	EOJRT		Z	4	1534	B 706	213
1417	12	98		*							
1418	12	99		*	*GENERATE ENTRY ADDRESS FOR LABELS						
1419	13	00		*							
1420	13	01	PROLBL	SBR	XTLABEL&3		Z	4	1538	H V77	213
1421	13	02		MLC	INPUT&11, IMAGE&13		Z	7	1542	M 011 113	214
1422	13	03		MLC	IMAGE&13, W6AREA		Z	7	1549	M 113 H77	214
1423	13	04		B	PROLAB		Z	4	1556	B W47	214
1424	13	05		MLC	W3AREA, IMAGE&56		Z	7	1560	M H74 156	214
1425	13	06		A	&1, TOTLBL		Z	7	1567	A N12 198	214
1426	13	07	XTLABEL	B	XXXX		Z	4	1574	B 000	214
1427	13	08		*							
1428	13	09		*	*CONVERT FREE FORM NUMBER TO FIVE CHARACTERS						
1429	13	10		*							
1430	13	11	CVRT5	SBR	CVT5XT&3		Z	4	1578	H V93	215
1431	13	12		BCE	*&5, W5AREA, &		Z	8	1582	B V94 H76 &	215
1432	13	13	CVT5XT	B	XXXX		Z	4	1590	B 000	215
1433	13	14		ZA	W5AREA-1, W5AREA		Z	7	1594	? H75 H76	215
1434	13	15		B	CVRT5&4		Z	4	1601	B V82	215
1435	13	16		*							
1436	13	17		*	*CHECK FOR FINAL OPERAND						
1437	13	18		*							
1438	13	19	FNLOP	SBR	FNLXT&3	Q. FINAL OPERAND	Z	4	1605	H W27	215
1439	13	20		BW	FNLXT, SCANSW	FOLLOWED BY TWO	Z	8	1609	V W24 N15 1	215
1440	13	21		MZ	ABIT, IMAGE&5	BLANKS	Z	7	1617	Y 187 105	216
1441	13	22	FNLXT	B	XXXX		Z	4	1624	B 000	216

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1442	13	23		*							
1443	13	24		*	*CONVERT FLOATING A OPERAND ACTUAL ADDRESS TO FIVE CHARACTERS						
1444	13	25		*							
1445	13	26	CVTFLA	SBR	FLAXT&3		Z	4	1628	H W46	216
1446	13	27		ZA	IMAGE&21, W5AREA	LINK TO SUBROUTINE	Z	7	1632	? 121 H76	216
1447	13	28		B	CVRT5		Z	4	1639	B V78	216
1448	13	29	FLAXT	B	XXXX		Z	4	1643	B 000	216
1449	13	30		*							
1450	13	31		*	*CONVERT SYMBOLS TO THREE CHARACTER ENTRY ADDRESS						
1451	13	32		*							
1452	13	33	PROLAB	SBR	LBLXT&3		Z	4	1647	H Y10	216
1453	13	34		ZA	&2, HOLD2		Z	7	1651	? N44 H64	217
1454	13	35		BCE	*&5, W6AREA,	ADD SUFFIX CHAR TO	Z	8	1658	B W70 H77	217
1455	13	36		B	*&@	LABELS FIVE CHARS	Z	4	1666	B W77	217
1456	13	37		MCW	SFXHLD, W6AREA	OR LESS	Z	7	1670	M H86 H77	217
1457	13	38		ZA	W6AREA-2, HOLD4		Z	7	1677	? H75 H71	217
1458	13	39		A	W6AREA, HOLD4	FOLD SYMBOL TO	Z	7	1684	A H77 H71	218
1459	13	40		A	W6AREA, HOLD4-2	FOUR CHARACTERS	Z	7	1691	A H77 H69	218
1460	13	41		MLZS	BLANK, HOLD4		Z	7	1698	Y H59 H71	218
1461	13	42		ZA	FACTOR, HOLD7	MULTIPLY BY FACTOR	Z	7	1705	? H48 H84	218
1462	13	43	MPYLP	MLNS	HOLD7, HOLD1		Z	7	1712	D H84 H85	218
1463	13	44		ZA	1		Z	1	1719	?	218
1464	13	45	MULT	BCE	NXTDGT, HOLD1, ?		Z	8	1720	B X46 H85 ?	219
1465	13	46		A	HOLD4, HOLD7-2		Z	7	1728	A H71 H82	219
1466	13	47		S	&1, HOLD1		Z	7	1735	S N12 H85	219
1467	13	48		B	MULT		Z	4	1742	B X20	219
1468	13	49	NXTDGT	S	&1, HOLD2		Z	7	1746	S N12 H64	219
1469	13	50		BWZ	MPYLP, HOLD2, B		Z	8	1753	V X12 H64 B	220
1470	13	51		S	W5AREA		Z	4	1761	S H76	220
1471	13	52		BAV	*&1		Z	5	1765	B X70 Z	220
1472	13	53	LOOP1	A	&96, HOLD7-5	FOLD FIVE CHARACTER	Z	7	1770	A N48 H79	220
1473	13	54		BAV	LOOP1	RESULT TO THREE	Z	5	1777	B X70 Z	220
1474	13	55		MLZS	HOLD7-6, W3AREA	CHARACTER TABLE ENTRY	Z	7	1782	Y H78 H74	220
1475	13	56		MLC	HOLD7-3	ADDRESS	Z	4	1789	M H81	221
1476	13	57		MLNS	HOLD7-5, *&4		Z	7	1793	D H79 Y03	221
1477	13	58		MLZS	ZONE, W3AREA-2		Z	7	1800	Y 189 H72	221
1478	13	59	LBLXT	B	XXXX		Z	4	1807	B 000	221
1479	13	60		*							
1480	13	61		*	*PROCESS DCW, DC, DSA CARDS						
1481	13	62		*							
1482	13	63	DCWCD	BCE	DCWALF, INPUT&21, @	Q. ALPHA CONSTANT	Z	8	1811	B K44 021 @	221
1483	13	64		BCE	ARDEF, INPUT&21, #	Q. AREA DEFINITION	Z	8	1819	B L01 021 #	221
1484	13	65		BCE	CKDCW, INPUT&21, &	Q. NUMERIC LITERAL	Z	8	1827	B Y58 021 &	222
1485	13	66		BCE	CKDCW, INPUT&21, -		Z	8	1835	B Y58 021 -	222
1486	13	67		MLC	INPUT&72, INPUT&73	SHIFT RIGHT	Z	7	1843	M 072 073	222
1487	13	68		MLC	@&@		Z	4	1850	M N49	222
1488	13	69		SW	DCWSW	SET NO ZONING SWITCH	Z	4	1854	B H89	222
1489	13	70	CKDCW	B	COMSCN	SCAN FOR BLANK	Z	4	1858	B 860	222
1490	13	71		BCE	ISDSA, INPUT&22, @	Q. ADCON OF LITERAL	Z	8	1862	B Y90 022 @	223
1491	13	72		B	FNLOP	CHECK LAST OPERAND	Z	4	1870	B W05	223

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1492	13	73		BCE	ISDSA, IMAGE&75, J				Q. DSA STATEMENT		
1493	13	74		BWZ	ISDCW, INPUT&22, 2	Z	8	1874	B Y90 175 J		223
1494	13	75	*						Q. DC, DCW STATEMENT		223
1495	13	76			*PROCESS DSA CARDS, SUBSET OF DCW						
1496	13	77	*								
1497	13	78	ISDSA	MLC	@011@, XL1	Z	7	1890	M N52 089		223
1498	13	79		MLNS	&2, IMAGE&75	Z	7	1897	D N44 175		224
1499	13	80		MZ	INPUT&21, IMAGE&27	Z	7	1904	Y 021 127		224
1500	13	81		MCW	BLANK, INPUT&21	Z	7	1911	M H59 021		224
1501	13	82		BWZ	*&5, IMAGE&75, K	Z	8	1918	V 230 175 K		224
1502	13	83		B	*&8	Z	4	1926	B 237		224
1503	13	84		MZ	BLANK, IMAGE&75	Z	7	1930	Y H59 175		225
1504	13	85		SW	DSASW2	Z	4	1937	H91		225
1505	13	86		MLC	@001@, FREEA	Z	7	1941	M N55 M98		225
1506	13	87		MCW	INPUT&34, IMAGE&53	Z	7	1948	M 034 153		225
1507	13	88		BCE	DSADC, INPUT&22, @	Z	8	1955	B 154 022 @		225
1508	13	89		BCE	DSADC, INPUT&22, &	Z	8	1963	B 154 022 &		226
1509	13	90		BCE	DSADC, INPUT&22, -	Z	8	1971	B 154 022 -		226
1510	13	91		B	FR2FIX	Z	4	1979	B 952		226
1511	13	92		MZ	IMAGE&27, INPUT&21	Z	7	1983	Y 127 021		226
1512	13	93	DSAX1	MZ	IMAGE&27, IMAGE&40	Z	7	1990	Y 127 140		226
1513	13	94		MLC	@03@, IMAGE&7	Z	7	1997	M N57 107		227
1514	13	95		MLC	@03@, XL2	Z	7	2004	M N57 094		227
1515	13	96	CKAOP	BCE	DCWAST, INPUT&6,	Z	8	2011	B 168 006		227
1516	13	97		BWZ	DCWAST, IMAGE&75, S	Z	8	2019	V 168 175 S		227
1517	13	98		BWZ	*&5, INPUT&6, 2	Z	8	2027	V 139 006 2		227
1518	13	99		B	DCWAST	Z	4	2035	B 168		228
1519	14	00		MLC	INPUT&10, IMAGE&21	Z	7	2039	M 010 121		228
1520	14	01		B	CVTFLA	Z	4	2046	B W28		228
1521	14	02	DCWACT	MLC	W5AREA, IMAGE&21	Z	7	2050	M H76 121		228
1522	14	03		MLC	W5AREA, IMAGE&61	Z	7	2057	M H76 161		228
1523	14	04		B	CKMACR	Z	4	2064	B 189		228
1524	14	05	DCWAST	A	XL2, ORGCTR	Z	7	2068	A 094 H58		229
1525	14	06	BMPCTR	MCW	@*@, IMAGE&17	Z	7	2075	M N58 117		229
1526	14	07	DSETAD	A	ORGCTR, IMAGE&61	Z	7	2082	A H58 161		229
1527	14	08	CKMACR	BCE	NUREC, IMAGE&75, P	Z	8	2089	B 534 175 P		229
1528	14	09		BCE	NUREC, IMAGE&75, X	Z	8	2097	B 534 175 X		229
1529	14	10		BW	DCWXT, DSASW2	Z	8	2105	V S85 H91 1		230
1530	14	11		MLC	INPUT&51, IMAGE&53	Z	7	2113	M 051 153		230
1531	14	12		MLC		Z	1	2120	M		230
1532	14	13		MLC		Z	1	2121	M		230
1533	14	14		MLC	XL2, IMAGE&7	Z	7	2122	M 094 107		230
1534	14	15		C	XL2, @030@	Z	7	2129	C 094 N61		230
1535	14	16		BH	DCWXT	Z	5	2136	B J85 U		230
1536	14	17		MN	@8@, INPUT&75	Z	7	2141	D N62 075		231
1537	14	18		BWZ	*&8, IMAGE&75, B	Z	8	2148	V J63 175 B		231
1538	14	19		MZ	IMAGE&75, INPUT&75	Z	7	2156	Y 175 075		231
1539	14	20		MCW	HOLDC, XL3	Z	7	2163	M M91 099		231
1540	14	21		MCW	INPUT&80, OUTPUT&80&X3	Z	7	2170	M 080 I17		231
1541	14	22		SW	DCWSW2	Z	4	2177	, H92		232

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1542	14	23		B	TPYET	Z	4	2181	B 638		232
1543	14	24	DCWXT	CW	DSASW2, DCWSW2	Z	7	2185	V H91 H92		232
1544	14	25		BW	*&5, LITSW2	Z	8	2192	V K04 H90 1		232
1545	14	26		B	NUREC	Z	4	2200	B 534		232
1546	14	27		BCE	LITRTN, INPUT&21, @	Z	8	2204	B P31 021 @		232
1547	14	28		BCE	LITGEN, INPUT&22, &	Z	8	2212	B M00 022 &		233
1548	14	29		BCE	LITGEN, INPUT&22, -	Z	8	2220	B M00 022 -		233
1549	14	30		BCE	LITGEN, INPUT&22, @	Z	8	2228	B M00 022 @		233
1550	14	31		B	LITRTN	Z	4	2236	B P31		233
1551	14	32	PDCWLF	S	XL2&2	Z	4	2240	S 096		233
1552	14	33	DCWALF	B	SCANAT	Z	4	2244	B S92		233
1553	14	34		B	FNLOP	Z	4	2248	B W05		234
1554	14	35		BW	ACNRT, DSASW2	Z	8	2252	V L62 H91 1		234
1555	14	36		S	&30, XL2&1	Z	7	2260	S N64 095		234
1556	14	37		B	CKAOP	Z	4	2267	B 111		234
1557	14	38	ISDCW	S	&20, XL2&1	Z	7	2271	S N66 095		234
1558	14	39		BW	NOZONE, DCWSW	Z	8	2278	V K93 H89 1		234
1559	14	40		MLZS	INPUT&21, INPUT&21&X2	Z	7	2286	Y 021 OK1		235
1560	14	41	NOZONE	CW	DCWSW	Z	4	2293	H89		235
1561	14	42		B	CKAOP	Z	4	2297	B 111		235
1562	14	43	ARDEF	SW	INPUT&22	Z	4	2301	, 022		235
1563	14	44		ZA	INPUT&24, W5AREA	Z	7	2305	? 024 H76		235
1564	14	45		B	CVRT5	Z	4	2312	B V78		235
1565	14	46		MLZS	ABBIT, IMAGE&4	Z	7	2316	Y 189 104		235
1566	14	47		MLNS	W5AREA, XL2	Z	7	2323	D H76 094		236
1567	14	48		MLC		Z	1	2330	M		236
1568	14	49		C	XL2, @053@	Z	7	2331	C 094 N69		236
1569	14	50		BH	CKAOP	Z	5	2338	B 111 U		236
1570	14	51		MZ	BBIT, IMAGE&5	Z	7	2343	Y 188 105		236
1571	14	52		B	CKAOP	Z	4	2350	B 111		236
1572	14	53	DSADC	BCE	PDCWLF, INPUT&22, @	Z	8	2354	B K40 022 @		236
1573	14	54	ACNRT	S	&10, XL3&1	Z	7	2362	S N43 100		237
1574	14	55		MCW	XL3, W3AREA	Z	7	2369	M 099 H74		237
1575	14	56		C	XL3, @006@	Z	7	2376	C 099 N72		237
1576	14	57		BL	DOBIG	Z	5	2383	B A57 T		237
1577	14	58		BCE	XALFL1, INPUT&22, @	Z	8	2388	B ?93 022 @		237
1578	14	59		B	XLIT1	Z	4	2396	B B82		237
1579	14	60	LITGEN	B	PUT	Z	4	2400	B 610		238
1580	14	61		MCW	@/@, IMAGE&75	Z	7	2404	M N73 175		238
1581	14	62		MCW	LAREA&72, INPUT&72	Z	7	2411	M H31 072		238
1582	14	63		MCW		Z	1	2418	M		238
1583	14	64		MCW		Z	1	2419	M		238
1584	14	65		MCW		Z	1	2420	M		238
1585	14	66		MCW	LAREA&74, LAREA&73	Z	7	2421	M H33 H32		238
1586	14	67		B	PROLBL	Z	4	2428	B V38		239
1587	14	68		S	XL2&2	Z	4	2432	S 096		239
1588	14	69		S		Z	1	2436	S		239
1589	14	70		B	DCWCD	Z	4	2437	B Y11		239
1590	14	71	*								
1591	14	72		*	CALL IN DA ROUTINE						

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1592	14	73	*								
1593	14	74	DARTN	RTW	SYSTAP,DOPROG				CALL DA ROUTINE		
				NOP	0	Z	8	2441	L %U1 N75 R		239
1594	14	75		BER	TPERR	Z	4	2449	N 000		239
1595	14	76		B	DASTMT	Z	5	2453	B 221 L		239
1596	14	77		B	DASTMT	Z	4	2458	B N75		240
1597	14	78	FINDA	RTW	SYSTAP,DOPROG				GO TO DA ROUTINE		
				NOP	0	Z	8	2462	L %U1 N75 R		240
1598	14	79		NOP	0	Z	4	2470	N 000		240
1599	14	80		BER	TPERR	Z	5	2474	B 221 L		240
1600	14	81		B	CKCOM	Z	4	2479	B 706		240
1601	14	82		LTORG	*	Z			2483		
				DCW	@0@	Z	1	2483		LIT	240
				DCW	@000@	Z	3	2486		LIT	240
				DCW	&60	Z	2	2488		LIT	241
			HOLD	DCW	#03	Z	3	2491		AREA	241
				DCW	@RSWZ@	Z	4	2495		LIT	241
				DCW	#03	Z	3	2498		AREA	241
				DCW	@I9I@	Z	3	2501		LIT	241
				DCW	@I9G@	Z	3	2504		LIT	241
				DCW	@I99@	Z	3	2507		LIT	241
				DCW	#04	Z	4	2511		AREA	242
				DCW	&1	Z	1	2512		LIT	242
				DCW	@54@	Z	2	2514		LIT	242
				DCW	#01	Z	1	2515		AREA	242
				DCW	@04@	Z	2	2517		LIT	242
				DCW	@&X@	Z	2	2519		LIT	242
				DCW	&K4KZ-3	Z	3	2522	I97	ADCON	242
				DCW	&SCANBZ	Z	3	2525	'23	ADCON	243
				DCW	@00@	Z	2	2527		LIT	243
				DCW	@007	Z	3	2530		LIT	243
				DCW	@ '@	Z	1	2531		LIT	243
				DCW	#01	Z	1	2532		AREA	243
				DCW	@003@	Z	3	2535		LIT	243
				DCW	@###@	Z	3	2538		LIT	243
				DCW	@510@	Z	3	2541		LIT	244
				DCW	&10	Z	2	2543		LIT	244
				DCW	&2	Z	1	2544		LIT	244
				DCW	@@@	Z	1	2545		LIT	244
				DCW	#01	Z	1	2546		AREA	244
				DCW	&96	Z	2	2548		LIT	244
				DCW	@&@	Z	1	2549		LIT	244
				DCW	@011@	Z	3	2552		LIT	245
				DCW	@001@	Z	3	2555		LIT	245
				DCW	@03@	Z	2	2557		LIT	245
				DCW	@*@	Z	1	2558		LIT	245
				DCW	@030@	Z	3	2561		LIT	245
				DCW	@8@	Z	1	2562		LIT	245
				DCW	&30	Z	2	2564		LIT	245
				DCW	&20	Z	2	2566		LIT	246
				DCW	@053@	Z	3	2569		LIT	246
				DCW	@006@	Z	3	2572		LIT	246

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				DCW	@/@	Z	1	2573		LIT	246
1602	14	83	GRPMKS	DCW	@}@	Z	1	2574		GMARK	246
1603	14	84		EX	DOZERO	Z			B 000		247

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1604	14	85		JOB	1401 AUTOCODER-PASS 4 PROCESS JOB/CTL						
1605	14	86	*								
1606	14	87		*PROCESS CONTROL CARD							
1607	14	88	*								
1608	14	89	DOPROG	ORG	*	Z		2575	2575		
1609	14	90	START	CS	INPUT&84	Z	4	2575	/ 084		250
1610	14	91		CS	3999	Z	4	2579	/ 199		250
1611	14	92		SW	INPUT&21, INPUT&81	Z	7	2583	, 021 081		250
1612	14	93		SW	IMAGE&1, IMAGE&6	Z	7	2590	, 101 106		250
1613	14	94		SW	IMAGE&8, IMAGE&14	Z	7	2597	, 108 114		250
1614	14	95		SW	IMAGE&17, IMAGE&28	Z	7	2604	, 117 128		250
1615	14	96		SW	IMAGE&39, IMAGE&57	Z	7	2611	, 139 157		251
1616	14	97		SW	IMAGE&62, IMAGE&67	Z	7	2618	, 162 167		251
1617	14	98		SW	IMAGE&23	Z	4	2625	, 123		251
1618	14	99		SW	GRPML1, GRPMK8	Z	7	2629	, 085 H99		251
1619	15	00		SW	GRPML3, GRPMK4	Z	7	2636	, H44 185		251
1620	15	01		CW	INITSW	Z	4	2643	) H87		251
1621	15	02		RWD	INTAP	Z	5	2647	U &104 R		252
1622	15	03		RWD	OUTAP	Z	5	2652	U &105 R		252
1623	15	04		RWD	LITAPE	Z	5	2657	U &106 R		252
1624	15	05		MLC	@000@, HOLDC	Z	7	2662	M R16 M91		252
1625	15	06		B	GET	Z	4	2669	B 538		252
1626	15	07		MCW	INPUT&80, IMAGE&21	Z	7	2673	M 080 121		252
1627	15	08		MCW	@I@, IMAGE&75	Z	7	2680	M R17 175		253
1628	15	09		SW	3998	Z	4	2687	, 198		253
1629	15	10		B	GET	Z	4	2691	B 538		253
1630	15	11		BCE	NOCTL, INPUT&6, *	Z	8	2695	B Q71 006 *		253
1631	15	12		C	INPUT&18, @CTL@	Z	7	2703	C 018 R20		253
1632	15	13		BU	NOCTL	Z	5	2710	B Q71 /		253
1633	15	14		MLNS	INPUT&21, CTL3&7	Z	7	2715	D 021 P29		254
1634	15	15	CTL3	BCE	CTL2, CKPRO,	Z	8	2722	B P37 R13		254
1635	15	16		BCE		Z	1	2730	B		254
1636	15	17		BCE		Z	1	2731	B		254
1637	15	18		BCE		Z	1	2732	B		254
1638	15	19		B	NOCTL	Z	4	2733	B Q71		254
1639	15	20	CTL2	MLC	INPUT&21, PROCOR	Z	7	2737	M 021 194		254
1640	15	21		ZA	INPUT&21, XL1	Z	7	2744	? 021 089		255
1641	15	22		S	&30, XL1&1	Z	7	2751	S R22 090		255
1642	15	23		A	XL1	Z	4	2758	A 089		255
1643	15	24		A	XL1	Z	4	2762	A 089		255
1644	15	25		MLC	FCTBL&X1, FACTOR	Z	7	2766	M Q27 H48		255
1645	15	26		MLC	@0@, FACTOR-3	Z	7	2773	M R23 H45		255
1646	15	27		MLC	FCTBL-3&X1, CKTAP&7	Z	7	2780	M Q24 652		256
1647	15	28		BCE	IS16K, INPUT&21, 6	Z	8	2787	B Q52 021 6		256
1648	15	29		BCE	IS16K, INPUT&21, 5	Z	8	2795	B Q52 021 5		256
1649	15	30		BCE	IS8K, INPUT&21, 4	Z	8	2803	B Q33 021 4		256
1650	15	31		MLC	@3@, PROCOR	Z	7	2811	M R24 194		256
1651	15	32	*								
1652	15	33		* INITIALIZE OUTPUT AREA AND SET UP BLOCKING SIZE							
1653	15	34	*								

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1654	15	35	IS4K	LCA	GRPML3, 3998	Z	7	2818	L H99 I98		257
1655	15	36		B	PUT	Z	4	2825	B 610		257
1656	15	37		B	LDOPTB	Z	4	2829	B 489		257
1657	15	38	IS8K	LCA	GRPML3, 4318	Z	7	2833	L H99 31Y		257
1658	15	39		MCW	@%@	Z	4	2840	M R25		257
1659	15	40		MCW	4317	Z	4	2844	M 31X		257
1660	15	41		B	CW198	Z	4	2848	B 469		257
1661	15	42	IS16K	LCA	GRPML3, 4718	Z	7	2852	L H99 71Y		258
1662	15	43		MCW	@%@	Z	4	2859	M R25		258
1663	15	44		MCW	4717	Z	4	2863	M 71X		258
1664	15	45		B	CW198	Z	4	2867	B 469		258
1665	15	46	NOCTL	MLC	FCTBL, FACTOR	Z	7	2871	M Q97 H48		258
1666	15	47		MLC	@3@, PROCOR	Z	7	2878	M R24 194		258
1667	15	48		BSP	INTAP	Z	5	2885	U &104 B		258
1668	15	49		B	IS4K	Z	4	2890	B Q18		259
1669	15	50	FCTBL	DCW	0015	Z	4	2897			259
1670	15	51		DCW	3051	Z	4	2901			259
1671	15	52		DCW	7087	Z	4	2905			259
1672	15	53		DCW	7127	Z	4	2909			259
1673	15	54	CKPRO	DCW	3456	Z	4	2913			259
1674	15	55		LTORG	*	Z			2914		
				DCW	@000@	Z	3	2916		LIT	259
				DCW	@I@	Z	1	2917		LIT	260
				DCW	@CTL@	Z	3	2920		LIT	260
				DCW	&30	Z	2	2922		LIT	260
				DCW	@0@	Z	1	2923		LIT	260
				DCW	@3@	Z	1	2924		LIT	260
				DCW	@%@	Z	1	2925		LIT	260
1675	15	56	*								
1676	15	57		* M A I N L I N E C O N S T A N T S A N D W O R K A R E A S							
1677	15	58	*								
1678	15	59		*LITERAL HOLD AREA							
1679	15	60	*								
1680	15	61		ORG	SAVE	Z			3760		
1681	15	62	LAREA	EQU	*	Z			3759		
1682	15	63		DCW	&00000	Z	5	3764			261
1683	15	64		DCW	#10	Z	10	3774			261
1684	15	65		DCW	@DCW @	Z	5	3779			261
1685	15	66		DCW	#1	Z	1	3780			261
1686	15	67		DS	53	Z			3833		
1687	15	68		DCW	@/@	Z	1	3834			262
1688	15	69		DS	9	Z			3843		
1689	15	70		GRPML3	DC @|@	Z	1	3844		GMARK	263
1690	15	71		HLDLIT	EQU LAREA&1	Z			3760		
1691	15	72		*							
1692	15	73		*CONSTANTS AND WORK AREAS							
1693	15	74	*								
1694	15	75		FACTOR	DCW @0000@	Z	4	3848			263
1695	15	76		BIGCTR	DCW @00000@	Z	5	3853			263
1696	15	77		ORGCTR	DCW @00332@	Z	5	3858			263

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD			
1697	15	78	BLANK4	DCW	#4				BLANKS	Z	4	3862		263
1698	15	79	B2CNTR	DCW	#5				WORK AREA	Z	5	3867		264
1699	15	80	HOLD4	DCW	#4				WORK AREA	Z	4	3871		264
1700	15	81	W6AREA	DCW	#6				WORK AREA	Z	6	3877		264
1701	15	82	HOLD7	DCW	#7				USED FOR LABEL	Z	7	3884		264
1702	15	83	HOLD1	DCW	&0				CONVERSION ONLY	Z	1	3885		264
1703	15	84	SFXHLD	DCW	0				SUFFIX CHARACTER	Z	1	3886		264
1704	15	85	INITSW	DCW	0				DA SWITCH	Z	1	3887		264
1705	15	86	MARKSW	DC	0				DA SWITCH	Z	1	3888		264
1706	15	87	DCWSW	DC	0				DCW SWITCH	Z	1	3889		264
1707	15	88	LITSW2	DC	0				LITERAL SWITCH	Z	1	3890		264
1708	15	89	DSASW2	DC	0				DSA SWITCH	Z	1	3891		264
1709	15	90	DCWSW2	DC	0				DCW SWITCH	Z	1	3892		264
1710	15	91	GRMK8	EQU	3899					Z				3899
1711	15	92	3899	DCW	@j@				SYSTEM GROUP MARK	Z	1	3899		GMARK 265
1712	15	93		EX	DOZERO					Z			B 000	266

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1713	15	94		JOB	1401 AUTOCODER-PASS 4 MAIN LINE OVERLAY -VERSION 3	Z					
1714	15	95		*							
1715	15	96		*PROCESS INSTRUCTION STATEMENTS							
1716	15	97		*							
1717	15	98		ORG	DOPROG	Z			2575		
1718	15	99	INSTR	MCW	EQUADD, IMAGE&67	Z	7	2575	M N11 167		269
1719	16	00		CW	LENSW#1	Z	4	2582	) G34		269
1720	16	01		MLC	@01@, IMAGE&7	Z	7	2586	M G36 107		269
1721	16	02		BW	*&5, EQUADD	Z	8	2593	V O05 N11 1		269
1722	16	03		B	AUGMNT	Z	4	2601	B R06		269
1723	16	04	DOCNT	BCE	DONE, INPUT&21&X2,	Z	8	2605	B P31 0K1		269
1724	16	05		BCE	XISALF, INPUT&21&X2,@	Z	8	2613	B ?77 0K1 @		270
1725	16	06		LCA	BLANK2&1, INPUT&20&X2	Z	7	2621	L H61 0K0		270
1726	16	07		B	COMSCN	Z	4	2628	B 860		270
1727	16	08		MLC	XL3, W3AREA	Z	7	2632	M 099 H74		270
1728	16	09		MLC	FREEA, XL3	Z	7	2639	M M98 099		270
1729	16	10		BCE	XISLIT, INPUT&21&X3,&	Z	8	2646	B B51 0B1 &		271
1730	16	11		BCE	XISLIT, INPUT&21&X3,-	Z	8	2654	B B51 0B1 -		271
1731	16	12		B	FR2FIX	Z	4	2662	B 952		271
1732	16	13		BCE	SMTYP, IMAGE&23&X1,#	Z	8	2666	B ?40 1S3 #		271
1733	16	14		CKDONE	A	Z	7	2674	A G37 107		271
1734	16	15		BW	FREMOD, LENS	Z	8	2681	V P39 G34 1		272
1735	16	16		C	XL1, @010@	Z	7	2689	C 089 G40		272
1736	16	17		BL	DONE	Z	5	2696	B P31 T		272
1737	16	18		MLC	@011@, XL1	Z	7	2701	M G43 089		272
1738	16	19		BW	*&5, SCANSW	Z	8	2708	V P20 N15 1		272
1739	16	20		B	ELMBLK	Z	4	2716	B Q83		272
1740	16	21		INTXL1	MCW	Z	7	2720	M 094 M98		273
1741	16	22		B	DOCNT	Z	4	2727	B 005		273
1742	16	23		DONE	BW	Z	8	2731	V Q03 N15 1		273
1743	16	24		FREMOD	MLC	Z	7	2739	M 0K1 139		273
1744	16	25		BCE	*&5, IMAGE&39,	Z	8	2746	B P58 139		273
1745	16	26		B	C1	Z	4	2754	B P80		273
1746	16	27		BCE	C1, INPUT&22&X2,	Z	8	2758	B P80 0K2		274
1747	16	28		MCW	INPUT&22&X2, IMAGE&39	Z	7	2766	M 0K2 139		274
1748	16	29		A	&1, XL2	Z	7	2773	A G44 094		274
1749	16	30		C1	C	Z	7	2780	C 0K3 H60		274
1750	16	31		BE	ISMOD	Z	5	2787	B Q11 S		274
1751	16	32		MZ	ABIT, IMAGE&5	Z	7	2792	Y 187 105		275
1752	16	33		B	ISMOD	Z	4	2799	B Q11		275
1753	16	34		CKMOD1	BCE	Z	8	2803	B Q32 139		275
1754	16	35		ISMOD	A	Z	7	2811	A G44 107		275
1755	16	36		MLC	IMAGE&7, XL2	Z	7	2818	M 107 094		275
1756	16	37		MLC	IMAGE&39, IMAGE&66&X2	Z	7	2825	M 139 106		276
1757	16	38		DOIADD	MLC	Z	7	2832	M H58 161		276
1758	16	39		A	&1, IMAGE&61	Z	7	2839	A G44 161		276
1759	16	40		A	IMAGE&7, ORGCTR	Z	7	2846	A 107 H58		276
1760	16	41		MLC	BLANK, IMAGE&75	Z	7	2853	M H59 175		276
1761	16	42		B	NUREC	Z	4	2860	B 534		276
1762	16	43		LOOPBL	A	Z	7	2864	A G44 094		277

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				DCW	@%@	Z	1	3747		LIT	302
				DCW	@0@	Z	1	3748		LIT	302
				DCW	@###@	Z	3	3751		LIT	302
				DCW	@002@	Z	3	3754		LIT	302
				DCW	@#@	Z	1	3755		LIT	302
				DCW	@07@	Z	2	3757		LIT	303
				DCW	@\$@	Z	1	3758		LIT	303
1956	18	37	GRPMK2	DCW	@}@	Z	1	3759		GMARK	303
1957	18	38	SAVE	EQU	*&l	Z		3760			
1958	18	39		EX	DOZERO	Z			B 000		304

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1959	18	40		JOB	1401 AUTOCODER-PASS 4 PROCESS DA	-VERSION 3	Z				
1960	18	41		*							
1961	18	42		*PROCESS DA	STATEMENTS						
1962	18	43		*							
1963	18	44		ORG	DOPROG		Z		2575		
1964	18	45	DASTMT	BSP	SYSTAP	REPOSITION SYSTEM	Z	5	2575	U %U1 B	307
1965	18	46		BSP	SYSTAP	TAPE	Z	5	2580	U %U1 B	307
1966	18	47		SW	NUMSW,DACSW	Q. FIRST CHAR -X-	Z	7	2585	, F31 F55	307
1967	18	48		SW	FRMKSU,DGMKSU	SET SWITCHES	Z	7	2592	, F58 F57	307
1968	18	49		BCE	DAERR, INPUT&21,X		Z	8	2599	B C14 021 X	307
1969	18	50	EXSCAN	BCE	NDXSCN, INPUT&22&X2,X		Z	8	2607	B 034 0K2 X	308
1970	18	51		BCE	DAERR, XL2,4		Z	8	2615	B C14 094 4	308
1971	18	52		A	&l, XL2		Z	7	2623	A F18 094	308
1972	18	53		B	EXSCAN		Z	4	2630	B 007	308
1973	18	54	NDXSCN	A	INPUT&21&X2, BLKCTR	GET BLOCKING FACTOR	Z	7	2634	A 0K1 F17	308
1974	18	55		A	&2, XL2		Z	7	2641	A F19 094	309
1975	18	56		B	COMSCN		Z	4	2648	B 860	309
1976	18	57		ZA	INPUT&19&X2, RECCTR#5	GET RECORD LENGTH	Z	7	2652	? 0J9 F24	309
1977	18	58	FINHED	BCE	DAINDX, INPUT&21&X2,X	Q. INDEXING	Z	8	2659	B C73 0K1 X	309
1978	18	59		BCE	DAGMRK, INPUT&21&X2,G	Q. GROUP MARK	Z	8	2667	B C91 0K1 G	309
1979	18	60		BCE	DAPMRK, INPUT&21&X2, '	Q. RECORD MARK	Z	8	2675	B D06 0K1 '	310
1980	18	61		BCE	DACLR, INPUT&21&X2,C	Q. CLEAR OPTION	Z	8	2683	B C65 0K1 C	310
1981	18	62		BCE	CMPSZ, INPUT&20&X2,	Q. NO OTHER OPTIONS	Z	8	2691	B P06 0K0	310
1982	18	63		MZ	ABIT, IMAGE&5		Z	7	2699	Y 187 105	310
1983	18	64	CMPSZ	S	W5AREA		Z	4	2706	S H76	310
1984	18	65		MCW	BLKCTR, B2CNTR	COMPUTE SIZE OF AREA	Z	7	2710	M F17 H67	311
1985	18	66	DAREP	S	&l, B2CNTR	AND STORE IN B2CNTR	Z	7	2717	S F18 H67	311
1986	18	67		BM	SFANS, B2CNTR		Z	8	2724	V P43 H67 K	311
1987	18	68		A	RECCTR, W5AREA		Z	7	2732	A F24 H76	311
1988	18	69		B	DAREP		Z	4	2739	B P17	311
1989	18	70	SFANS	MCW	W5AREA, B2CNTR		Z	7	2743	M H76 H67	312
1990	18	71		MLC	@*%, IMAGE&17		Z	7	2750	M F25 117	312
1991	18	72		BCE	DASTR, INPUT&6,	DETERMINE WHETHER	Z	8	2757	B P73 006	312
1992	18	73		BWZ	DANUM, INPUT&6, 2	LOCATION OF DA IS	Z	8	2765	V P98 006 2	312
1993	18	74	DASTR	MLC	ORGCTR, DALOC#5	ACTUAL OR ASTERISK	Z	7	2773	M H58 F30	312
1994	18	75		A	&l, DALOC	PROCESS DA*	Z	7	2780	A F18 F30	313
1995	18	76		A	W5AREA, ORGCTR	BUMP ORIGIN COUNTER	Z	7	2787	A H76 H58	313
1996	18	77		B	ENDDA		Z	4	2794	B Q20	313
1997	18	78	DANUM	MLC	INPUT&10, IMAGE&21	PROCESS ACTUAL DA	Z	7	2798	M 010 121	313
1998	18	79		CW	NUMSW#1	SET ACTUAL DA SWITCH	Z	4	2805	) F31	313
1999	18	80		B	CVTFLLA		Z	4	2809	B W28	313
2000	18	81		MLC	W5AREA, DALOC		Z	7	2813	M H76 F30	314
2001	18	82	ENDDA	MLC	DALOC, IMAGE&66	GENERATE HIGH ORDER	Z	7	2820	M F30 166	314
2002	18	83		MLC	DALOC	LOCATION OF DA	Z	4	2827	M F30	314
2003	18	84		A	RECCTR, IMAGE&66		Z	7	2831	A F24 166	314
2004	18	85		S	&l, IMAGE&66		Z	7	2838	S F18 166	314
2005	18	86		S	&l, DALOC		Z	7	2845	S F18 F30	314
2006	18	87		CW	HEDSWH1		Z	4	2852	) F32	315
2007	18	88		BW	DALOOP, DACSW	Q. CLEAR OPTION	Z	8	2856	V P37 F55 1	315
2008	18	89		MCW	IMAGE&80, DAHLD	SAVE IMAGE	Z	7	2864	M 180 G54	315

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2009	18	90		CHAIN	10	Z				MACRO	
2010				MCW		Z	1	2871	M	GEN	315
2011				MCW		Z	1	2872	M	GEN	315
2012				MCW		Z	1	2873	M	GEN	315
2013				MCW		Z	1	2874	M	GEN	315
2014				MCW		Z	1	2875	M	GEN	316
2015				MCW		Z	1	2876	M	GEN	316
2016				MCW		Z	1	2877	M	GEN	316
2017				MCW		Z	1	2878	M	GEN	316
2018				MCW		Z	1	2879	M	GEN	316
2019				MCW		Z	1	2880	M	GEN	316
2020	18	91		MCW	@A@, IMAGE&75	Z	7	2881	M	F33 175	316
2021	18	92		MCW	BLANK4, IMAGE&80	Z	7	2888	M	H62 180	317
2022	18	93		MCW	BLANK4, IMAGE&55	Z	7	2895	M	H62 155	317
2023	18	94		MCW	BLANK4, IMAGE&27	Z	7	2902	M	H62 127	317
2024	18	95		SW	INITSW	Z	4	2909	H87		317
2025	18	96		MCW	BLANK4, IMAGE&11	Z	7	2913	M	H62 111	317
2026	18	97		MCW	@DC @, IMAGE&16	Z	7	2920	M	F36 116	317
2027	18	98		MCW	@19@, IMAGE&7	Z	7	2927	M	F38 107	318
2028	18	99		MCW	DALOC, IMAGE&61	Z	7	2934	M	F30 161	318
2029	19	00	CKNDQ	C	B2CNTR, &0020	Z	7	2941	C	H67 F42	318
2030	19	01		BH	DOLST	Z	5	2948	B	R82 U	318
2031	19	02		A	&19, IMAGE&61	Z	7	2953	A	F44 161	318
2032	19	03		MZ	ABBIT, IMAGE&1	Z	7	2960	Y	189 101	319
2033	19	04		B	PUT	Z	4	2967	B	610	319
2034	19	05		S	&19, B2CNTR	Z	7	2971	S	F44 H67	319
2035	19	06		B	CKNDQ	Z	4	2978	B	R41	319
2036	19	07	DOLST	C	B2CNTR, &0000	Z	7	2982	C	H67 F48	319
2037	19	08		BE	RTMGE	Z	5	2989	B	?20 S	319
2038	19	09		MN	B2CNTR, IMAGE&7	Z	7	2994	D	H67 107	320
2039	19	10		MN		Z	1	3001	D		320
2040	19	11		A	B2CNTR, IMAGE&61	Z	7	3002	A	H67 161	320
2041	19	12		MZ	ABBIT, IMAGE&1	Z	7	3009	Y	189 101	320
2042	19	13		B	PUT	Z	4	3016	B	610	320
2043	19	14	RTMGE	MCW	DAHLD, IMAGE&80	Z	7	3020	M	G54 180	320
2044	19	15		CHAIN	10	Z				MACRO	
2045				MCW		Z	1	3027	M	GEN	320
2046				MCW		Z	1	3028	M	GEN	321
2047				MCW		Z	1	3029	M	GEN	321
2048				MCW		Z	1	3030	M	GEN	321
2049				MCW		Z	1	3031	M	GEN	321
2050				MCW		Z	1	3032	M	GEN	321
2051				MCW		Z	1	3033	M	GEN	321
2052				MCW		Z	1	3034	M	GEN	321
2053				MCW		Z	1	3035	M	GEN	322
2054				MCW		Z	1	3036	M	GEN	322
2055	19	16	DALoop	SW	INITSW	Z	4	3037	,	H87	322
2056	19	17		ZA	&1, B2CNTR	Z	7	3041	? F18	H67	322
2057	19	18	DAPUT	C	B2CNTR, BLKCTR	Z	7	3048	C	H67 F17	322
2058	19	19		BH	PUTIT	Z	5	3055	B	B70 U	322

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2059	19	20	DAGET	CW	INITSW	Z	4	3060	) H87		322
2060	19	21		BW	DAPUT2, HEDSW	Z	8	3064	V ?90 F32 1		323
2061	19	22		MCW	IMAGE&66, GMKADD#5	Z	7	3072	M 166 F53		323
2062	19	23		A	&1, GMKADD	Z	7	3079	A F18 F53		323
2063	19	24		SW	HEDSW	Z	4	3086	, F32		323
2064	19	25	DAPUT2	B	PUT	Z	4	3090	B 610		323
2065	19	26		BW	CKPNLG, MARKSW	Z	8	3094	V E02 H88 1		323
2066	19	27	GET1	B	GET	Z	4	3102	B 538		324
2067	19	28		BCE	GET1, INPUT&6, *	Z	8	3106	B A02 006 *		324
2068	19	29		C	INPUT&19, BLANK4	Z	7	3114	C 019 H62		324
2069	19	30		BU	CKPMRK	Z	5	3121	B D21 /		324
2070	19	31		MCW	INPUT&84, IMAGE&80	Z	7	3126	M 084 180		324
2071	19	32		BCE	*%5, INPUT&6,	Z	8	3133	B A45 006		324
2072	19	33		B	PROBL	Z	4	3141	B V38		325
2073	19	34		MLC	&0, IMAGE&75	Z	7	3145	M P54 175		325
2074	19	35		S	XL2&1	Z	4	3152	S 095		325
2075	19	36		B	COMSCN	Z	4	3156	B 860		325
2076	19	37		ZA	INPUT&19&X2, IMAGE&66	Z	7	3160	? 079 166		325
2077	19	38		C	RECNTR, IMAGE&66	Z	7	3167	C F24 166		325
2078	19	39		BH	TFERR	Z	5	3174	B C39 U		325
2079	19	40		BCE	SUBFLD, INPUT&20&X2,	Z	8	3179	B B52 0K0		326
2080	19	41		B	COMSCN	Z	4	3187	B 860		326
2081	19	42		B	FNLOP	Z	4	3191	B W05		326
2082	19	43		ZA	INPUT&19&X2, IMAGE&61	Z	7	3195	? 079 161		326
2083	19	44		C	RECNTR, IMAGE&61	Z	7	3202	C F24 161		326
2084	19	45		BH	TFERR	Z	5	3209	B C39 U		326
2085	19	46		C	IMAGE&61, IMAGE&66	Z	7	3214	C 161 166		327
2086	19	47		BH	FLDERR	Z	5	3221	B C54 U		327
2087	19	48	ADDR	A	DALOC, IMAGE&61	Z	7	3226	A F30 161		327
2088	19	49		A	DALOC, IMAGE&66	Z	7	3233	A F30 166		327
2089	19	50		BM	DAGET, IMAGE&75	Z	8	3240	V ?60 175 K		327
2090	19	51		B	DALoop	Z	4	3248	B ?37		327
2091	19	52	SUBFLD	MLZS	BBIT, IMAGE&75	Z	7	3252	Y 188 175		328
2092	19	53		MLC	IMAGE&66, IMAGE&61	Z	7	3259	M 166 161		328
2093	19	54		B	ADDR	Z	4	3266	B B26		328
2094	19	55	PUTIT	B	PUT	Z	4	3270	B 610		328
2095	19	56		BW	*&8, MARKSW	Z	8	3274	V B89 H88 1		328
2096	19	57		MZ	ABIT, IMAGE&75	Z	7	3282	Y 187 175		328
2097	19	58		A	&1, B2CNTR	Z	7	3289	A F18 H67		329
2098	19	59		A	RECNTR, IMAGE&61	Z	7	3296	A F24 161		329
2099	19	60		A	RECNTR, IMAGE&66	Z	7	3303	A F24 166		329
2100	19	61		B	DAPUT	Z	4	3310	B ?48		329
2101	19	62	DAERR	MLZS	ABBIT, IMAGE&4	Z	7	3314	Y 189 104		329
2102	19	63		ZA	&1, BLKCTR	Z	7	3321	? F18 F17		329
2103	19	64		ZA	&1, RECNTR	Z	7	3328	? F18 F24		330
2104	19	65		B	CMPSSZ	Z	4	3335	B P06		330
2105	19	66	TFERR	SBR	*&11	Z	4	3339	H C53		330
2106	19	67		MZ	ABIT, IMAGE&5	Z	7	3343	Y 187 105		330
2107	19	68		B	XXXX	Z	4	3350	B 000		330
2108	19	69	FLDERR	MZ	BBIT, IMAGE&5	Z	7	3354	Y 188 105		330

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2109	19	70		B	DAPUT2		Z	4	3361	B ?90	330
2110	19	71	DACLR	CW	DACSW#1		Z	4	3365	) F55	331
2111	19	72		B	DATWO		Z	4	3369	B C95	331
2112	19	73	DAINDX	MLNS	INPUT&22&X2, IMAGE&27		Z	7	3373	D OK2 127	331
2113	19	74		A	&3, XL2		Z	7	3380	A F56 094	331
2114	19	75		B	FINHED		Z	4	3387	B O59	331
2115	19	76	DAGMRK	CW	DGMKSW#1		Z	4	3391	) F57	331
2116	19	77	DATWO	A	&2, XL2		Z	7	3395	A F19 094	331
2117	19	78		B	FINHED		Z	4	3402	B O59	332
2118	19	79	DAFMRK	A	&1, RECNR		Z	7	3406	A F18 F24	332
2119	19	80		CW	FRMKS#1		Z	4	3413	) F58	332
2120	19	81		B	DATWO		Z	4	3417	B C95	332
2121	19	82	CKFMRK	SW	MARKSW		Z	4	3421	, H88	332
2122	19	83		BW	CKFNLG, FRMKS		Z	8	3425	V E02 F58 1	332
2123	19	84		MLC	@@'@@, IMAGE&25		Z	7	3433	M F61 125	332
2124	19	85		MLC	@DC *@, IMAGE&17		Z	7	3440	M F65 117	333
2125	19	86		MLC			Z	1	3447	M	333
2126	19	87		MLC	&1, IMAGE&75		Z	7	3448	M F18 175	333
2127	19	88		MLC	@01@, IMAGE&7		Z	7	3455	M F67 107	333
2128	19	89		MLC	DALOC, IMAGE&61		Z	7	3462	M F30 161	333
2129	19	90		A	RECNR, IMAGE&61		Z	7	3469	A F24 161	333
2130	19	91		BW	DALOP, NUMSW		Z	8	3476	V ?37 F31 1	334
2131	19	92		MCW	BLANK, IMAGE&17		Z	7	3484	M H59 117	334
2132	19	93		MZ	ABBIT, IMAGE&3		Z	7	3491	Y 189 103	334
2133	19	94		B	DALOP		Z	4	3498	B ?37	334
2134	19	95	CKFNLG	BW	CALLOP, DGMKSW		Z	8	3502	V E93 F57 1	334
2135	19	96		MLC	@DCW@, IMAGE&16		Z	7	3510	M F70 116	335
2136	19	97		MLC	@1@, IMAGE&75		Z	7	3517	M F71 175	335
2137	19	98		MLC	@01@, IMAGE&7		Z	7	3524	M F67 107	335
2138	19	99		MCW	GMKADD, IMAGE&61		Z	7	3531	M F53 161	335
2139	20	00		MLC	@@'@@, IMAGE&25		Z	7	3538	M F74 125	335
2140	20	01		BW	GMKAST, NUMSW		Z	8	3545	V E75 F31 1	336
2141	20	02		MCW	BLANK, IMAGE&17		Z	7	3553	M H59 117	336
2142	20	03		MZ	ABBIT, IMAGE&3		Z	7	3560	Y 189 103	336
2143	20	04	PUTGMK	B	PUT		Z	4	3567	B 610	336
2144	20	05		B	CALLOP		Z	4	3571	B E93	336
2145	20	06	GMKAST	A	&1, ORGCTR		Z	7	3575	A F18 H58	336
2146	20	07		MCW	@*@, IMAGE&17		Z	7	3582	M F25 117	337
2147	20	08		B	PUTGMK		Z	4	3589	B E67	337
2148	20	09	CALLOP	BSP	INTAP		Z	5	3593	U %U4 B	337
2149	20	10		B	GET		Z	4	3598	B 538	337
2150	20	11		CW	MARKSW, GRPMK6		Z	7	3602	) H88 G55	337
2151	20	12		B	FINDA		Z	4	3609	B M62	337
2152	20	13	BLKCTR	DCW	&0000		Z	5	3617		337
2153	20	14		ITORG	*		Z			3618	
				DCW	&1		Z	1	3618		LIT 338
				DCW	&2		Z	1	3619		LIT 338
			RECNR	DCW	#05		Z	5	3624		AREA 338
				DCW	@*@		Z	1	3625		LIT 338
			DALOCZ	DCW	#05		Z	5	3630		AREA 338

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				NUMSWZ	DCW	#01	Z	1	3631		AREA 338
				HEDSWZ	DCW	#01	Z	1	3632		AREA 338
				DCW	@A@		Z	1	3633		LIT 339
				DCW	@DC @		Z	3	3636		LIT 339
				DCW	@19@		Z	2	3638		LIT 339
				DCW	&0020		Z	4	3642		LIT 339
				DCW	&19		Z	2	3644		LIT 339
				DCW	&0000		Z	4	3648		LIT 339
			GMKADD	DCW	#05		Z	5	3653		AREA 339
				DCW	&0		Z	1	3654		LIT 340
			DACSWZ	DCW	#01		Z	1	3655		AREA 340
				DCW	&3		Z	1	3656		LIT 340
			DGMKSW	DCW	#01		Z	1	3657		AREA 340
			FRMKS	DCW	#01		Z	1	3658		AREA 340
				DCW	@@'@@		Z	3	3661		LIT 340
				DCW	@DC *@		Z	4	3665		LIT 340
				DCW	@01@		Z	2	3667		LIT 341
				DCW	@DCW@		Z	3	3670		LIT 341
				DCW	@1@		Z	1	3671		LIT 341
				DCW	@@]@@		Z	3	3674		LIT 341
2154	20	15		DA	1X80		Z		3675	3754	
2155	20	16	DAHLD		80		Z		3754		SBFLD
2156	20	17	GRPMK6	DCW	@]@		Z	1	3755		GMARK 342
2157	20	18		EX	DOZERO		Z			B 000	343

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2158	20	19		JOB	1401 AUTOCODER-PASS 4 PROCESS LITERALS -VERSION 3	Z					
2159	20	20		ORG	DOPROG	Z			2575		
2160	20	21	OVLIT	WTM	LITAPE	Z	5	2575	U 006 M		346
2161	20	22		WTW	LITAPE,IMAGE&1	Z	8	2580	L 006 101 W		346
2162	20	23		NOP	0	Z	4	2588	N 000		346
2163	20	24		BER	TPERR	Z	5	2592	B 221 L		346
2164	20	25		BEF	*&1	Z	5	2597	B 002 K		346
2165	20	26		WTW	LITAPE,IMAGE&1	Z	8	2602	L 006 101 W		346
2166	20	27		NOP	0	Z	4	2610	N 000		346
2167	20	28		BER	TPERR	Z	5	2614	B 221 L		347
2168	20	29	*		AS NOISE RECORD						
2169	20	30		RWD	LITAPE	Z	5	2619	U 006 R		347
2170	20	31		BSP	SYSTAP	Z	5	2624	U 001 B		347
2171	20	32		BSP	SYSTAP	Z	5	2629	U 001 B		347
2172	20	33		BSP	SYSTAP	Z	5	2634	U 001 B		347
2173	20	34		CW	GRPMK7	Z	4	2639	) Q27		347
2174	20	35		CS	INPUT&80	Z	4	2643	/ 080		347
2175	20	36		SW	INPUT&16,LITSW2	Z	7	2647	, 016 H90		348
2176	20	37		MRCM	INPUT&1,IMAGE&1	Z	7	2654	P 001 101		348
2177	20	38		MLC	BLANK4,IMAGE&80	Z	7	2661	M H62 180		348
2178	20	39		S	XL2&2	Z	4	2668	S 096		348
2179	20	40		S		Z	1	2672	S		348
2180	20	41		MLC	@DCW@,IMAGE&16	Z	7	2673	M Q15 116		348
2181	20	42	LITGB	MCW	&INPUT&13,N2&6	Z	7	2680	M Q18 446		349
2182	20	43		RT	LITAPE,INPUT&1	Z	8	2687	M 006 001 R		349
2183	20	44		B	NOISE	Z	4	2695	B 425		349
2184	20	45		BER	TPERR	Z	5	2699	B 221 L		349
2185	20	46		BEF	RTNLIT	Z	5	2704	B P39 K		349
2186	20	47		MCW	INPUT&4,IMAGE&70	Z	7	2709	M 004 170		349
2187	20	48		MLC	@/@,IMAGE&75	Z	7	2716	M Q19 175		350
2188	20	49		B	PROLBL	Z	4	2723	B V38		350
2189	20	50		B	DCWCD	Z	4	2727	B Y11		350
2190	20	51	LITRTN	B	PUT	Z	4	2731	B 610		350
2191	20	52		B	LITGB	Z	4	2735	B 080		350
2192	20	53	RITNLIT	MCW	&IMAGE&13,N2&6	Z	7	2739	M Q22 446		350
2193	20	54		RTW	LITAPE,IMAGE&1	Z	8	2746	L 006 101 R		350
2194	20	55		B	NOISE	Z	4	2754	B 425		351
2195	20	56		BER	TPERR	Z	5	2758	B 221 L		351
2196	20	57		RWD	LITAPE	Z	5	2763	U 006 R		351
2197	20	58		SW	LITSW	Z	4	2768	, N46		351
2198	20	59		CW	LITSW2	Z	4	2772	) H90		351
2199	20	60		A	&10,EXNUMB	Z	7	2776	A Q24 193		351
2200	20	61		BCE	*&5,EXNUMB-1,0	Z	8	2783	B P95 192 0		351
2201	20	62		B	RECALL	Z	4	2791	B U68		352
2202	20	63		A	&96,EXOVFL	Z	7	2795	A Q26 191		352
2203	20	64		A	&96,EXOVFL	Z	7	2802	A Q26 191		352
2204	20	65		B	RECALL	Z	4	2809	B U68		352
2205	20	66	LITORG	*		Z			2813		
				DCW	@DCW@	Z	3	2815		LIT	352
				DCW	&INPUTZ&13	Z	3	2818	013	ADCON	352

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				DCW	@/@	Z	1	2819		LIT	352
				DCW	&IMAGEZ&13	Z	3	2822	113	ADCON	353
				DCW	&10	Z	2	2824		LIT	353
				DCW	&96	Z	2	2826		LIT	353
2206	20	67	GRPMK7	DCW	@}@	Z	1	2827		GMARK	353
2207	20	68	EX	DOZERO		Z			B 000		354

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2208	20	69		JOB	1401 AUTOCODER-PASS 4 END OF PASS OVERLAY -VERSION 3	Z					
2209	20	70		ORG	SAVE2	Z			0706		
2210	20	71	EOJRT	RWD	LITAPE	Z	5	0706	U %06 R		357
2211	20	72		B	PUT	Z	4	0711	B 610		357
2212	20	73		WT	OUTAP,OUTPUT&1	Z	8	0715	M %05 I18 W		357
2213	20	74		NOP	0	Z	4	0723	N 000		357
2214	20	75		BER	TPERR	Z	5	0727	B 221 L		357
2215	20	76		WTM	OUTAP	Z	5	0732	U %05 M		357
2216	20	77		RWD	OUTAP	Z	5	0737	U %05 R		357
2217	20	79		CS	INPUT&85	Z	4	0742	/ 085		358
2218	20	80		CW	GRPMK2,GRPMK3	Z	7	0746	) G59 H44		358
2219	20	81		CW	GRPMK4	Z	4	0753	) 185		358
2220	20	82		RTW	SYSTAP,PASSC1	Z	8	0757	L %01 Z25 R		358
2221	20	83		NOP	0	Z	4	0765	N 000		358
2222	20	84		BER	TPERR	Z	5	0769	B 221 L		358
2223	20	85		LCA	TOTLBL,2393	Z	7	0774	L 198 L93		358
2224	20	86		LCA	PROCOR,2389	Z	7	0781	L 194 L89		359
2225	20	87		B	PASSC2	Z	4	0788	B M00		359
2226	20	88		DCW	0	Z	1	0792			359
2227	20	89		DCW	@}@	Z	1	0793		GMARK	359
2228	20	90		EX	0	Z			B 000		360
2229	20	91		*							
2230	20	92		* EQUATES							
2231	20	93		*							
2232	20	94	INTAP	EQU	%U4	Z		%U4			
2233	20	95	OUTAP	EQU	%U5	Z		%U5			
2234	20	96	LITAPE	EQU	%U6	Z		%U6			
2235	20	97	K4K	EQU	4000	Z		4000			
2236	20	98	W3AREA	EQU	W6AREA-3	Z		3874		EQUATES	
2237	20	99	W5AREA	EQU	W6AREA-1	Z		3876			
2238	21	00	BLANK	EQU	BLANK4-3	Z		3859			
2239	21	01	BLANK2	EQU	BLANK4-2	Z		3860			
2240	21	02	HOLD2	EQU	B2CNTR-3	Z		3864			
2241	21	03	HOLD3	EQU	B2CNTR-2	Z		3865			
2242	21	04	ABIT	EQU	ZONE-2	Z		0187			
2243	21	05	BBIT	EQU	ZONE-1	Z		0188			
2244	21	06	ABBIT	EQU	ZONE	Z		0189			
2245	21	07	XXXX	EQU	000	Z		0000			
2246	21	08	INPUT	EQU	000	Z		0000			
2247	21	09	OUTPUT	EQU	3917	Z		3917			
2248	21	10	PASSC1	EQU	1925	Z		1925			
2249	21	11	PASSC2	EQU	2400	Z		2400			
2250	21	12	DOZERO	EQU	000	Z		0000			
2251	21	13	FREE	EQU	INPUT	Z		0000			
2252	21	14		END	START	Z			/ N75 080		

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
A1ALFZ	1310	ABBITZ	189	ABITZ	187	ABSCOD	2755	ABSFIX	1270	ABSW	3110	ACNRTZ	2362
ADDREC	3226	ADDZ	3118	ALTRNO	184	ALTROP	1051	ARDEFZ	2301	AUGMNT	2906	B2CNTR	3867
BADOP	2728	BBITZ	188	BCK1	798	BEGIN	2465	BIGCTR	3853	BINFND	1115	BINTBL	3814
BLANK	3154	BLANK2	3860	BLANK3	3156	BLANK4	3862	BLANKZ	3859	BLKCTR	3617	BLNK2	3155
BLNKK	848	BMPCTR	2075	BOPXTZ	3357	BSP1	2246	BSP1Z	257	BSP2	2290	BSP2Z	301
BYPASS	520	CLZ	2780	CALLOP	3593	CALLZ	1431	CHNAD	2885	CHNLP	872	CK1BK	1962
CK2Z	728	CK4ADJ	3644	CKADJZ	1017	CKAOPZ	2011	CKB	874	CKCHN	722	CKCOMZ	706
CKDCWZ	1858	CKDONE	2674	CKEL	2698	CKEQZ	3655	CKFF	2801	CKFMRK	3421	CKFNLG	3502
CKLITZ	2188	CKLOR	1889	CKLORZ	1485	CKMACR	2089	CKMINZ	1134	CKMOD	950	CKMOD1	2803
CKNDQZ	2941	CKNOP	1146	CKOP	922	CKPROZ	2913	CKREGZ	2921	CKTAPZ	645	CLEAR	2682
CMPSZ	2706	CODJOB	2601	COMCRD	1871	COMSCN	860	CORERR	1680	CSCNXT	929	CSZ	2754
CTLZ	2737	CTL3Z	2722	CTRL0P	3361	CVRT5Z	1578	CVT5XT	1590	CVTFLA	1628	CWI98Z	469
CXL1	1925	DACLRLZ	3365	DACSWSZ	3655	DAERRZ	3314	DAPMRK	3406	DAGETZ	3060	DAGMRK	3391
DARLDZ	3754	DARINDX	3373	DALOCZ	3630	DAL00P	3037	DANUMZ	2798	DAPUTZ	3090	DAPUTZ	3048
DAREPZ	2717	DARTNZ	2441	DASTMT	2575	DASTRZ	2773	DATWOZ	3395	DCWACT	2050	DCWALF	2244
DCWAST	2068	DCWCDSZ	1811	DCWSTM	1484	DCWSW2	3892	DCWSWZ	3889	DCWYTP	1551	DCWXTZ	2185
DGMKSW	3657	DOADRS	1150	DOBIGZ	3157	DOCNTZ	2605	DOEQU	1815	DOIADD	2832	DOLSTZ	2982
DOMINZ	1027	DONEZ	2731	DOPROG	2575	DOSFKZ	3692	DOZERO	0	DSACT	1833	DSADCZ	2354
DSARTN	1715	DSASW2	3891	DSAX1Z	1990	DSETAD	2082	DSSTMT	3600	DSTYP	1788	ELMBLK	2883
ENDALF	1218	ENDDADZ	2820	ENDFIX	626	ENTER	2647	ENTSPS	626	EOJ	2875	EOJRTZ	706
EQUADD	2511	EQVADD	3169	ERHLT	1473	ERRBLK	2895	ERRHLT	3463	EXENDZ	3710	EXNUMB	193
EXOVFL	191	EXSCAN	2607	FACTOR	3848	FCTBLZ	2897	FINDAZ	2462	FINHED	2659	FIXALF	1184
FIXERZ	1233	FIXINS	854	FIXLIT	2132	FIXSWZ	2532	FLAXTZ	1643	FLDERR	3354	FNLOPZ	1605
FNLXZ	1624	FOUND	1340	FR2FIX	952	FR2FXT	1229	FREE	100	FREAZ	2498	FRESW	3809
FREEZ	0	FREMOD	2739	FRMKSW	3658	GENJXB	2853	GENPS	906	GET	524	GET1Z	3102
GETMN	419	GETOP	2539	GETPOP	2999	GETXT	550	GETXTZ	574	GETZ	538	GM1Z	3143
GMK1	3989	GMK2	187	GMKADD	3653	GMKAST	3575	GOBKZ	798	GRPMK1	85	GRPMK2	3759
GRPMK3	3844	GRPMK4	185	GRPMK5	2574	GRPMK6	3755	GRPMK7	2827	GRPMK8	3899	GTFIX	464
GTFRE	503	HEDSWZ	3632	HIVAL	2458	HLDCD	2952	HLDLIT	3760	HOLD1Z	3885	HOLD2Z	3864
HOLD3Z	3865	HOLD4Z	3871	HOLD7Z	3884	HOLDCZ	2491	IMAGEZ	100	INAREA	3903	INITAP	%U0
INITSW	3887	INOBJZ	2797	INPUT	332	INPUTZ	0	INSPC	1421	INSPCZ	3438	INSTZ	2375
INST2Z	386	INSTRZ	2575	INTAPE	%U6	INTAPZ	%U4	INTXLL	2720	INTXT	460	IOTYP	1154
IS16KZ	2852	IS4K	2892	IS4KZ	2818	IS8KZ	2833	ISADZ	1051	ISDCWZ	2271	ISDSAZ	1890
ISFIVE	3032	ISHIV	969	ISMOD	1002	ISMODZ	2811	ISREA	1096	JOBLBL	2924	JOBSWZ	199
K4KZ	4000	KNOWN	1669	LAREAZ	3759	LBERR	778	LBLXZ	1807	LDOPTB	489	LENSWZ	3734
LIBRN	0	LITAPE	%U6	LITGBZ	2680	LITRNT	2731	LITSWZ	3890	LITSWZ	2546	LKNOP	974
LOOP1	1917	LOOP1Z	1770	LOOPBL	2864	LPERR	1684	LTERZ	1409	LTERRZ	1394	LTGENZ	2400
MAKBE	1040	MANAN	2459	MARKSW	3888	MASYM	3296	MKMIN	2121	MLCTYP	2717	MODESW	3002
MOVMOD	1018	MPYLPZ	1712	MSCSWZ	2995	MULTZ	1720	N2	2429	N2Z	440	N3	573
N4	558	NDAASCN	1329	NDOPD	1986	NDXSCN	2634	NOADJ	2075	NOCTLZ	2871	NOISE	2414
NOISEZ	425	NOPNZ	1462	NOT11	2158	NOZONE	2293	NSXT	2449	NSXTZ	460	NUMSWZ	3631
NUREC	626	NURECZ	534	NXTDGT	1746	OBJCOR	2453	OBJTBL	2911	ONEOP	1760	OPDERZ	1237
OPDONE	3021	OPND	3808	ORGADJ	3533	ORGCTR	3858	ORGCVT	3578	ORGPRO	3589	ORGSTM	3474
OUTAPE	%U4	OUTAPZ	%U5	OUTPUT	3917	OVLZ	626	OVLIT	2575	PASSB2	200	PASSC1	1925
PASSC2	2400	PDCWLF	2240	PHOLD	2944	PICKUP	1029	PLSCAN	790	PLUSFD	817	PRCHN	727
PREOJ	2867	PRINT	200	PROADJ	1055	PROCOR	194	PROFIX	661	PROLAB	1647	PROLBL	1538
PROLIT	3182	PROFND	3328	PROSZ	2702	PRSCXT	925	FSSWZ	1037	PSTNU	630	PUT	586
PUTGMK	3567	PUTITZ	3270	PUTXT	622	PUTXTZ	702	FUTZ	610	RCT	2461	RDCZ	465
RDRR	2283	RDRRZ	294	RDTAP	554	RDMT	582	RECALL	1468	RECNTR	3624	REDXT	2279
REDXTZ	290	REG	991	RESTR	2862	RSTM0D	638	RSTWV	1654	RTEND	2209	RTMGZ	3020
RTN2	2039	RTNDCW	1633	RTNJBZ	481	RTNLIT	2739	SAMFIX	1328	SAV0CD	2613	SAVE2Z	706
SAVEZ	3760	SAVOP	2988	SBCTRZ	403	SCAN	1909	SCANAT	1292	SCANBZ	1292	SCANBZ	1023
SCANSW	2515	SCNATX	1382	SCNDEX	970	SCNERR	933	SCNXT	2117	SETABS	1320	SETEXZ	3132
SETHI	2899	SETSWZ	1386	SFANZ	2743	SFXHLD	3886	SMLTYP	3040	SPECIN	2683	SPGLIN	692
STARTZ	2575	STFVN	1065	SUB1	2509	SUBFLD	3252	SUBORG	3563	SUBT	2170	SUBXL	634
SVSZ	2939	SVUP3	1017	SW1	1292	SXLZ	1361	SYSMK1	2209	SYSMK2	3003	SYSTAP	%U1

W6AREA	3877	WAREA2	3114	WAREA3	3115	WAREA6	3118	WHCHOP	1254	WRTCR	2464	WRTCRZ	468
WRTLIT	3189	WRTPZ	578	WTRD	2355	WTRDZ	366	WRTXTZ	606	XALF1Z	3093	XISALF	3077
XISLIT	3251	XL1	89	XL1Z	89	XL2	94	XL2Z	94	XL3	99	XL3Z	99
XLIT1Z	3282	XTLABL	1574	XXXX	0	XXXXZ	0	ZONEZ	189				