

PGLIN	LABEL	OPCOD	OPERAND
S		CTL	2
102	•		-1410-
103	•		MEMORY RELIABILITY TEST
104	•		-CS46-
105	•		TESTS 1411 MODEL 4,4A OR 5,5A
1052	•		AND 100K CONFIG, B-40K Z-60K
1055	•		ALL QUADRANTS
106	•		MOD 4- CHARS 0-3,AREA 00-40
1062	•		MOD 5- CHARS 0-3,AREA 00-40
1064	•		100 K- CHARS 0-3,AREA 00-40
1099	•		
110	•	SECT 1-	ONES DISCRIMINATION
111	•	SECT 2-	ZERES DISCRIMINATION
1115	•		
112	•	SECT 3-	ALTERNATE PLANE DISCRIMINATION
113	•	SECT 4-	ALTERNATE PLANE DISCRIMINATION- REVERSED
1135	•		
114	•	SECT 5-	MEMORY ADDRESS PLACEMENT
1145	•		
116	•	SECT 6-	2D PLANE CHECKERBOARD DISCRIMINATION
1164	•	SECT 6C-	2D PLANE COMPLEMENTED CHECKERBOARD
117	•	SECT 7-	2D PLANE CHECKERBOARD DISCRIMINATION- REVERSED
1174	•	SECT 7C-	2D PLANE COMPLEMENTED CHECKERBOARD- REVERSED
1175	•		
118	•	SECT 8-	IN LINE PLANE CHECKERBOARD DISCRIMINATION
1184	•	SECT 8C-	IN LINE PLANE COMPLEMENTED CHECKERBOARD
119	•	SECT 9-	IN LINE PLANE CHECKERBOARD DISCRIMINATION- REVER
1194	•	SECT 9C-	IN LINE PLANE COMPLEMENTED CHECKERBOARD-REVERSED
1195	•		
120	•	SECT 10-	ALT PLANE CHECKERBOARD DISCRIMINATION
1204	•	SECT 10C-	ALT PLANE COMPLEMENTED CHECKERBOARD
121	•	SECT 11-	ALT PLANE CHECKERBOARD DISCRIMINATION- REVERSED
1214	•	SECT 11C-	ALT PLANE COMPLEMENTED CHECKERBOARD- REVERSED
1215	•		
124	•	SECT 12-	HALF SELECT CORE BEAT- ALL ONES
125	•	SECT 13-	HALF SELECT CORE BEAT- ALL ZERES

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
1255	.					
129	.					
S TD 1	.					
TD 2	*STANDARD XTADS.					
TD 3		ORG	41000			UP-ONE
TD 35		COORG	21000			
TD 4	TAD0	DC	2-2	21000	41000	EXECUTE TYPEOUTS
TD 5	TAD1	DC	2-2	21000	41000	BYPASS TYPEOUTS
TD 6	TAD2	DC	2-2	21001	41001	REPEAT SECTION
TD 7	TAD3	DC	2-2	21002	41002	HALT ON ERROR
TD 79	.	DC	2-2	21003	41003	SINGLE PROGRAM PASS REPEAT PROGRAM
TD 8	TAD4	DC	2-2			NO AUTO SECT SELECT AUTO SECTION SELECT 21004 1 41004
TD 9	TAD5	DC	2-2			TABULATE ERRORS BYPASS TAB OF ERRORS 21005 1 41005
TD10	TAD6	DC	2-2			NO ERROR TABLE OUTPUT ERROR TABLE OUTPUT 21006 1 41006
TD11	TAD7	DC	2-2			TAB & ERRS ON TYPE TAB & ERRS ON PRINTE 21007 1 41007
TD12	TAD8	DC	2-2			EXECUTE S6-S11 SECTS BYPASS S6-S11 SECTS 21008 1 41008
TD13	TAD9	DC	2-2			EXECUTE S6C-S11C SECS BYPASS S6C-S11C SECT 21009 1 41009
TD14	TAD10	DC	2-2			NO ERROR ADDR REPEAT REPEAT ERROR ADDR 21010 1 41010
TD15	TAD11	DC	2-2			NOT USED 21011 1 41011
TD16	TAD12	DC	2-2			EXECUTE REGEN CHK BYPASS REGEN CHK 21012 1 41012
TD19		DCW	2M2			21013 1 41013
S A302						*STANDARD INTERNAL PROGRAM ALTER ROUTINE
A303		ORG	41100			
A3035		COORG	21100			
A304	ITR	SBR	ITREXT15	21100	41100	STORE BAR FOR RETURN
A305	ITR1	RCP	ITR264	21100	41100	ENTER LOCATION TO BE ALTERED
A306		BEX1	ITR1,M	21107	41107	RETURN ON ANY BUT WLR & NT
A3064		BNT1	ITREXT	21117	41117	EXIT-IF NO TRANSFER
A307		BA1	ITR2	21124	41124	RESET I/O INTERLOCK
A308		RCPW	0	21131	41131	ENTER DATA
A309		BEX1	ITR2,M	21138	41138	RETURN TO REQUEST ON ANY BUT WLR 21148 7 41148
A310		BA1	*61	21155	41155	RETURN TO REQUEST ON ANY BUT WLR 21148 7 41148
A311	ITREXT	B	0	21162	41162	RETURN TO PROGRAM
A312		H		21169	41169	
TC 1						*TAPE CONTROL TC50 CONSTANTS
TC 15						CONFIGURATION- 1410 OR 1410A 60K,80K,OR 100K

CT ADDR INSTRUCTION

PGLIN LABEL OPCOD OPERAND

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDR	INSTRUCTION
TC14		ORG	01233		01233	
TC15	BLOCK4	DCW	09.10	3	01233	TENS B BIT IF MEM SIZE OPTION
TC17	BLOCK3	DC	05.10	3	01236	TENS B BIT IF MEM SIZE OPTION
TC19	BLOCK2	DC	070	1	01239	
TC192		DCW	0010	2	01241	
TC21	BLOCK1	DC	0X+00	3	01242	TENS A BIT IF NOT 7010
TC23	SEQNO	DC	012R0	3	01245	SEQ #-129 , UNITS B BIT IF REL. MODE
TC24	LSADCR	DC	0320	2	01249	LAST ADDR-34K , UNITS A BIT IF SYS CTL ONLY
S PI 1	*PROG IDENT AND SUFFIX					
PI 2		ORG	1250		01250	
PI 3	IDENT	DC	0CS400	4	01250	PROGRAM IDENT
PI 4		DC	080,G	1	01254	SUFFIX LEVEL
S CC 1	*STANDARD SYSTEM CONTROL CARD					
CC 2		ORG	41256		41256	
CC 25		CDORG	1256		41256	
CC 3	SYS1	DC	000	1	41256	MACHINE TYPE 0-1410, 1-14101, X-7010
CC 4	MEMSEL	DC	050	1	41257	MEMORY SIZE 3-40K,5-60K,7-80K,9-100K
CC 5		DC	000	1	41258	SPARE
CC 6	PRTBUF	DC	020	1	41259	CHANNEL 1 PRINTER, BUF SIZE 1-100,2-132
CC 7		DC	000	1	41260	2
CC 8		DC	000	1	41261	3
CC 9		DC	000	1	41262	4
CC10		DC	000	1	41263	OVERLAP
CC11		DC	000	1	41264	PRIORITY ALERT
CC12		DC	000	3	41267	SPARES
CC13	CHAR0Y	DC	010	1	41268	CHANNEL 1 ON LINE- IF 1
CC14		DC	000	1	41269	2
CC15		DC	000	1	41270	3
CC16		DC	000	1	41271	4
CC17		DC	000	3	41274	SPARES
CC18		DC	000	1	41275	INTERVAL TIMER
CC19		DC	000	1	41276	REAL TIME CLOCK
CC20		DC	000	1	41277	RELOCATE AND PROTECT
CC21		DC	000	1	41278	FLOATING POINT
CC22		DC	000	5	41283	SPARES
CC23		DC	000	5	41288	SPARES

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
CC25		DCW	G 2MG	01289	1	41289
1497						
1498						
1499						
150		ORG	2000			02000
1504		MRCWG	1256,21256	12	02000	D0125621256L
151		MLNA	CLUPS,CLOCK&S	12	02012	D0208502035/
152		SW	41000	6	02024	,41000
153	CLOCK	CS	59999	6	02030	/59999
154		SBR	CLOCK&S	7	02036	G02035B
155		BW	CLOCK,41000	12	02043	V02030410001
1559						
156		SW	41000	6	02055	,41000
157		MLCWB	39999,59999	12	02061	D3999959999P
158		B	SWINT	7	02073	J42000
159		H		1	02080	.
160	CLUPS	DCW	2599992	5	02085	
1996						
1997		ORG	41300			41300
1998		COORG	21300	21300		41300
1999		CH-XSG-YSG-XWO-YWO-SS-Z	DETERMINANTS FOR IE T-O			
200	CHDET	SBR	SSDET&S	21300	7	41300 G41457B
201		MLNS	ERRADD-4,CHARNO	21307	12	41307 D53740537721
2049						
205		MLNS	ERRADD-1,XSG	21319	12	41319 D53743537901
206		MLNS	ERRADD-3,YSG	21331	12	41331 D53741538041
2099						
210		MLNS	ERRADD,XWO	21343	12	41343 D53744537971
211		MLNS	ERRADD-2,YWO	21355	12	41355 D53742538111
2799						
280	ZDET	MLNS	ERRADD-3,THORD	21367	12	41367 D53741577261
281		C	NUFOUR,THORD	21379	11	41379 C5434057726
282		BH	SETZB	21390	7	41390 J41428U
2829						
283		MLCS	DROP,ZDRIVE	21397	12	41397 D54338537833
2832		MLCS	DROP,SENSEG	21409	12	41409 D54338537783

INITIAL PROGRAM RELOCATION ROUTINE

MOVE SYSTEM CONTROL DATA

CLEAR 40000-59999

MOVE 19K BLOCK

DETERMINANTS FOR IE T-O

SET THOUSANDS ORDER

CMP TTH TO 4

TEST FOR HIGH

SET Z-D

SET SS-D

PGLIN	LABEL	OPCOD	OPERAND	1410 MEMORY RELIABILITY	CT	ADDRS	INSTRUCTION
284	SSDETX	B	SSDETX		21421	7	41421 J41452
285	SETZ8	MLCS	BSEG,ZDRIVE	SET Z-B	21428	12	41428 D54339537833
2852		MLCS	BSEG,SENSEG	SET SS-B	21440	12	41440 D54339537783
286	SSDETX	B	00000	EXIT BRANCH RETURN	21452	7	41452 J00000
		H			21459	1	41459 .
2929							
293		ORG	41980		41980		
2935		COORG	21980		21980		
294	LOKADD	MLCWS	CORREC,00000	REPEAT ERRADD BY SGL CHAR MOVE	21980	12	41980 D54368000007
295		B	LOKADD		21992	7	41992 J41980
296		H			21999	1	41999 .
2969							
297							
298							
299		ORG	42000		42000		
2995		CCORG	22000		22000		
300	SWINT	NOPWM		SWITCH-INITIAL	22000	1	42000 N
301		B	SWINT2		22001	7	42001 J42241
3019							
302		SW	SWINT&1		22008	6	42008 ,42001
303		CS	40999	CLEAR 40900-40999	22014	6	42014 /40999
3031		CS			22020	1	42020 /
3032		CS			22021	1	42021 /
3033		CS			22022	1	42022 /
3034		CS			22023	1	42023 /
3035		CS			22024	1	42024 /
3036		CS			22025	1	42025 /
304		SW	40334		22026	6	42026 ,40334
3042		MLCMB	0999,40999	MOVE LODER TO 40334-40999	22032	12	42032 D0099940999P
3049							
305		WCP	IDENT	CS46	22044	10	42044 M3T001250M
306		BAI	*-16		22054	7	42054 R42044M
3099							
310	TESTAR	BCE	PLAC6,MEMSEL,9	TEST FOR 100K	22061	12	42061 842157412579
311		BCE	PLAC6,MEMSEL,7	80K	22073	12	42073 842157412577
312		BCE	PLAC6,MEMSEL,5	60K	22085	12	42085 842157412575

PGLIN	LABEL	OPCODE	OPERAND	CT	ADDRS	INSTRUCTION
313		BCE	PLAC4, MEMSEL, 3	22097	12 42097	R42176412573
3149						
315	ENTMEM	WCP	DESIG	22109	10 42109	M8T053824M
316		BAI	*-16	22119	7 42119	R42109M
320		RCP	MEMSEL	22126	10 42126	M8T041257R
321		BEXL	*-16, M	22136	7 42136	R42126M
322		BAI	*81	22143	7 42143	R42150M
323		B	TESTAR	22150	7 42150	J42061
345						
3504	PLAC6	MLNS	S3, TESTS&12	22157	12 42157	D57217538711
351		B	MEMIND	22169	7 42169	J42188
3524	PLAC4	MLNS	S1, TESTS&12	22176	12 42176	D57213538711
3529						
353	MEMIND	WCP	TESTS	22188	10 42188	M8T053859M
3534		BAI	*-16	22198	7 42198	R42188M
354		WCP	MEMS12	22205	10 42205	M8T053885M
355		BAI	*-16	22215	7 42215	R42205M
3551						
3553		BW	SETQCK, 40997	22222	12 42222	V42659409971
3555		B	TADSTA	22234	7 42234	J42312
3559						
356	SWINT2	NOPM		22241	1 42241	N
3562		B	TADSTA	22242	7 42242	J42312
3569						
357		WCP	PARITY	22249	10 42249	M8T053909M
3572		BAI	*-16	22259	7 42259	R42249M
360		WCP	RESTAT	22266	10 42266	M8T053933M
362		BAI	*-16	22276	7 42276	R42266M
363		WCP	INHIB	22283	10 42283	M8T053969M
365		BAI	*-16	22293	7 42293	R42283M
3655		SW	SWINT2&1, SEXIT&1	22300	11 42300	*4224245361
366		H		22311	1 42311	.
3699						
375	TADSTA	WCP	STATUS	22312	10 42312	M8T054005M
376		BAI	*-16	22322	7 42322	R42312M
377		WCP	TADO	22329	10 42329	M8T041000M

TAD STATUS--

PGLIN	LABEL	OPCOD	OPERAND	INSTRUCTION	CT	ADDRS	INSTRUCTION
378		BA1	*-16		22339	7	42339 R42329M ^G
379		MLNA	CON1-2,PASSCT&2	RESET PASS COUNTER	22346	12	42346 D5712954125/
380		CH	QUIEX&1,DIRS5&1	CLEAR QUICK RUN SW-S	22358	11	42358 D4504742785
3999	*						
406		MLCA	TABCLA,ODD23	RESET TABULATION 23 ODD FIELD	22369	12	42369 D5444955067T
407		MLCA	TABCLA,EVEN23	23 EVEN FIELD	22381	12	42381 D5444954989T
408		MLCA	TABCLA,ODD01	01 ODD FIELD	22393	12	42393 D5444954911T
409		MLCA	TABCLA,EVEN01	01 EVEN FIELD	22405	12	42405 D5444954833T
4099	*						
410		CH	CLATSW&1		22417	6	42417 D42496
411		MLNA	&GATEO,CLATAB&10	SET CLEAR B ADDR TO XSG-0	22423	12	42423 D5820542457/
412		MLNA	S10,CTR2	SET CTR TO 10	22435	12	42435 D5723154370/
4129	*						
413	CLATAB	MLCA	TABGAG,GATED	RESET X-Y SEL GATES	22447	12	42447 D5452955235T
414		S	S1,CTR2	REDUCE CTR BY 1	22459	11	42459 S5721354370
415		BZ	CLATSW	EXIT- IF 00	22470	7	42470 J42495V
416		A	CON84,CLATAB&10	INCR B ADDR BY 84	22477	11	42477 A5719142457
417		B	CLATAB		22488	7	42488 J42447
4179	*						
418	CLATSW	NOPM		X-Y TAB CLEAR EXIT SW	22495	1	42495 N
419		B	*&26		22496	7	42496 J42528
4192		SW	CLATSW&1		22503	6	42503 ,42496
420		MLNA	&WINDO,CLATAB&10	SET CLEAR B ADDR TO XMG-0	22509	12	42509 D5821042457/
421		B	CLATAB-12		22521	7	42521 J42435
4219	*						
422		MLCA	TABCLA-54,LINZ8D	RESET ZBD-SS TAB	22528	12	42528 D54395556963T
501	*						
502	*			RESET ALL SWITCHES OFF			
520	SHRES	CH	SW613A&1,SW1213&1		22540	11	42540 D4917249164
539	*						
541		CH	SW13RE&1		22551	6	42551 D44863
542		CH	SW12RE&1,SW11RE&1		22557	11	42557 D4487144879
543		CH	SW10RE&1,SW9REP&1		22568	11	42568 D4488744895
544		CH	SW8REP&1,SW7REP&1		22579	11	42579 D4490344911
545		CH	SW6REP&1,SW5REP&1		22590	11	42590 D4491944927
546		CH	SW4REP&1,SW3REP&1		22601	11	42601 D4493544943

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
547	.	CH	SW2REP&1	22612	6 42612	044951
549	.					
550	.	CH	SC11RE&1,SC10RE&1	22618	11 42618	05224552253
551	.	CH	SC9RE&1,SC8RE&1	22629	11 42629	052226152269
552	.	CH	SC7RE&1	22640	6 42640	0522277
5549	.					
561	.	CH	MEL60&1	22646	6 42646	052466
565	.	B	CLRENT	22652	7 42652	J42687
5999	.					
600	SETQCK	SW	QUIFX&1,DIRS&1	22659	11 42659	045047427H5
602	.	WCP	QCKRUN	22670	10 42670	M3T054092W
603	.	BAI	*-16	22680	7 42680	R42670M
9998	.					
9999	.					
1005	CLRENT	MLNA	C30,MESCTR	22687	12 42687	D5725354362/
1006	.	MLNA	S2,MELCTR	22699	12 42699	D5721554364/
10064	.	BCE	MS60,MEMSEL,3	22711	12 42711	B42741412573
10099	.					
1011	.	SW	MEL60&1	22723	6 42723	052466
1012	.	MLNA	S4,MELCTR	22729	12 42729	D5721954364/
10149	.					
1034	MS60	MLNA	FA40H,CLROTA&5	22741	12 42741	D5453442764/
1100	.	SW	00001	22753	6 42753	00001
1101	CLROTA	CS	39999	22759	6 42759	/39999
1102	.	SBR	CLROTA&5	22765	7 42765	G427648
1103	.	BW	CLROTA,00001	22772	12 42772	V42759000011
11049	.					
1105	DIRS5	NOPWM		22784	1 42784	N
1106	.	B	S5SET	22785	7 42785	J46398
11099	.					
1149	.					
1150	.	BCE	SECSEL,TAD4,1	22792	12 42792	B42811410041
1151	.	B	S1SET	22804	7 42804	J43062
1152	.					
1153	SECSEL	WCP	AUTSEC	22811	10 42811	M3T054054W
1154	.	BAI	*-16	22821	7 42821	R42811M

MEMORY OBJECTIVE TEST AREA CLEARANCE

SET MESCTR TO 30

SET 2 IN S12-13 MELCTR

TEST FOR 40K DESIG

MUST BE 60K,80K,OR 100K

MEL60&1

SET 4 IN S12-13 MELCTR

SET 39999

CLEAR OBJ TEST AREA

CLROTA&5

CLROTA,00001

DIRECT S-05 RUN SW

S5SET

TEST FOR AUTOMATIC SECTION SELECTION

TEST TAD4 FOR AUTO SECT SELECT

S1SET

AUTO SECT SEL

PGLIN	LABEL	OPCODE	OPERAND	ENTER 2 DIGIT SECTION NUMBER	CT	ADDRS	INSTRUCTION
1155		WCP	ENTER		22828	10	42828 M8T054068M
1156		BA1	•-16		22838	7	42838 R42828M
1157	*	RCP	AUTO-1	AWAIT TWO DIGITS ONLY	22845	10	42845 M8T054598R
1158		BEX1	•-16.M		22855	7	42855 R42845M
1159		BA1	•C1		22862	7	42862 R42869M
1160				TEST FOR S-10 OR GREATER			
11602	*	BBE	S10GTR,AUTO-1,1		22869	12	42869 W43012545981
11604				TEST FOR S-1 THROUGH S-9 SELECTED			
11606	*						
1161		BBE	BIT9,AUTO,8	TEST FOR 8 BIT	22881	12	42881 W42924545998
1162		BBE	BIT6,AUTO,4	4	22893	12	42893 W42943545994
1163		BBE	BIT3,AUTO,2	2	22905	12	42905 W42993545992
1164		B	S1SET	- GO TO S-1	22917	7	42917 J43062
1165	*						
1166	BIT9	BBE	S9SET,AUTO,1	TEST FOR 1 BIT - GO TO S-9	22924	12	42924 W48119545991
1167		B	S8SET	- GO TO S-8	22936	7	42936 J48035
1168	BIT6	BBE	BIT7,AUTO,2	TEST FOR 2 BIT	22943	12	42943 W42974545992
1169		BBE	S5SET,AUTO,1	- GO TO S-5	22955	12	42955 W46398545991
1170		B	S4SET	- GO TO S-4	22967	7	42967 J43214
1171	BIT7	BBE	S7SET,AUTO,1	TEST FOR 1 BIT - GO TO S-7	22974	12	42974 W47951545991
1172		B	S6SET	- GO TO S-6	22986	7	42986 J47873
1173	BIT3	BBE	S3SET,AUTO,1	TEST FOR 1 BIT - GO TO S-3	22993	12	42993 W43165545991
1174		B	S2SET	- GO TO S-2	23005	7	43005 J43116
1175	*			TEST FOR S-10 THROUGH S-14 SELECTED			
1176	S10GTR	BBE	S10SET,AUTO,8	TEST FOR 8 BIT - GO TO S-10	23012	12	43012 W48203545998
1178		BBE	IAC,AUTO,2	2	23024	12	43024 W43043545992
1179		B	S11SET	- GO TO S-11	23036	7	43036 J48287
1184	*						
1185	IAC	BBE	S13SET,AUTO,1	TEST FOR 1 BIT - GO TO S-13	23043	12	43043 W48486545991
1186		B	S12SET	- GO TO S-12	23055	7	43055 J48371
1202	*						
1203	*						
1204	S1SET	MLCWA	CONS1,PLUS&24	SECTION 1 SETUP -C8A8421	23062	12	43062 05698957765X
1205		MLCWA	CONS1,MINUS&24	PLACE 25 GM CHARS	23074	12	43074 05698957791X
1206		CW	PLUS,MINUS	25 GM	23086	11	43086 05774157767
12064		MLNA	S1,SECINDE&3	PLACE 01 IN S-XX T-0	23097	12	43097 05721353816/

PGLIN	LABEL	OPCOD	OPERAND	SECTION	CT	ADDRS	INSTRUCTION
1207		B	CLRESE		7	43109	J48703
1218							
1219							
1220	S2SET	MLCWA	CONS2,PLUS&24	SECTION 2 SETUP	12	43116	D5701457765X
1221		MLCHA	CONS2,MINUS&24	PLACE 25 BLANK CHAR	12	43128	D5701457791X
1223		MLNA	S2,SECIND&3	25 BLANK	12	43140	D5721553816/
1225		SW	SW2REP&1	PLACE 02 IN S-XX T-0	6	43152	,44951
1226		B	WMALL		7	43158	J48612
1238							
1239							
1240	S3SET	MLCWA	CONS3,PLUS&24	SECTION 3 SETUP	12	43165	D5703957765X
1241		MLCHA	CONS3,MINUS&24	PLACE 25 V CHARS	12	43177	D5703957791X
1243		MLNA	S3,SECIND&3	25 V	12	43189	D5721753816/
1247		SW	SW3REP&1	PLACE 03 IN S-XX T-0	6	43201	,44943
1248		B	WMALL		7	43207	J48612
1258							
1259							
1260	S4SET	MLCWA	CONS4,PLUS&24	SECTION 4 SETUP	12	43214	D5706457765X
1261		MLCWA	CONS4,MINUS&24	PLACE 25 EX PT CHAR	12	43226	D5706457791X
1262		CH	PLUS,MINUS	25 EX PT	11	43238	D5774157767
1263		MLNA	S4,SECIND&3	PLACE 04 IN S-XX T-0	12	43249	D5721953816/
1267		SW	SW4REP&1		6	43261	,44935
1268		B	CLBESE		7	43267	J48703
12999							
1300	COMWC	SBR	COMWDX&5	COMMON WORD MARK BIT INTERROGATION	7	43274	G43329B
1301		MLNA	COMADD,*&11		12	43281	D5772243303/
1302		BW	*&8,0	TEST FOR WM DOWN	12	43293	V43312000001
1303		B	*&13		7	43305	J43324
1304		MLCS	PICK,BITTER-7		12	43312	D54337537593
1305	COMWCX	B	00000		7	43324	J00000
13099							
1310	COMWP	SBR	COMWPX&5		7	43331	G43379B
1311		MLNA	COMADD,*&11		12	43338	D5772243360/
1312		BW	*&13,0	TEST FO- WM UP	12	43350	V43374000001
1313		MLCS	DROP,BITTER-7		12	43362	D54338537593
1314	COMWPX	B	00000		7	43374	J00000

PGLIN	LABEL	OPCODE	OPERAND	1410 MEMORY RELIABILITY	CT	ADDRS	INSTRUCTION
13498	.						
13499	.						
1350	COM8D	SBR	COMMON B BIT INTERROGATION COMBDCX&5		23381	7	43381 G434368
1351		MLNA	COMADD,*&11		23388	12	43388 D5772243410/
1352		BBE	*&8,0,-	TEST FOR B BIT DOWN	23400	12	43400 W4341900000-
1353		B	*&13		23412	7	43412 J43431
1354		MLCS	PICK,BITTER-5	---P-----	23419	12	43419 D54337537613
1355	COM8CX	B	00000		23431	7	43431 J00000
13599	.						
1360	COM8P	SBR	COMMON B BIT INTERROGATION COMBDCX&5		23438	7	43438 G434868
1361		MLNA	COMADD,*&11		23445	12	43445 D5772243467/
1362		BBE	*&13,0,-	TEST FOR B BIT UP	23457	12	43457 W4348100000-
1363		MLCS	DROP,BITTER-5	---D-----	23469	12	43469 D54338537613
1364	COM8PX	B	00000		23481	7	43481 J00000
13698	.						
13699	.						
1370	COM8D	SBR	COMMON A BIT INTERROGATION COMADXC&5		23488	7	43488 G435438
1371		MLNA	COMADD,*&11		23495	12	43495 D5772243517/
1372		BBE	*&8,0,8	TEST FOR A BIT DOWN	23507	12	43507 W43526000008
1373		B	*&13		23519	7	43519 J43538
1374		MLCS	PICK,BITTER-4	---P-----	23526	12	43526 D54337537623
1375	COM8CX	B	00000		23538	7	43538 J00000
13799	.						
1380	COM8P	SBR	COMMON A BIT INTERROGATION COMAPXC&5		23545	7	43545 G435938
1381		MLNA	COMADD,*&11		23552	12	43552 D5772243574/
1382		BBE	*&13,0,8	TEST FOR A BIT UP	23564	12	43564 W43588000008
1383		MLCS	DROP,BITTER-4	---D-----	23576	12	43576 D54338537623
1384	COM8PX	B	00000		23588	7	43588 J00000
13998	.						
13999	.						
1400	COM8C	SBR	COMMON B BIT INTERROGATION COM8DCX&5		23595	7	43595 G436508
1401		MLNA	COMADD,*&11		23602	12	43602 D5772243624/
1402		BBE	*&8,0,8	TEST FOR B BIT DOWN	23614	12	43614 W43633000008
1403		B	*&13		23626	7	43626 J43645
1404		MLCS	PICK,BITTER-3	---P-----	23633	12	43633 D54337537633
1405	COM8CX	B	00000		23645	7	43645 J00000

PGLIN	LABEL	OPCODE	OPERAND	CT	ADDRS	INSTRUCTION
14099	*					
1410	COM8P	SBR	COM8PX&5	23652	7 43652	G43700B
1411		MLNA	COMADD,*&11	23659	12 43659	D5772243681/
1412		BBE	*&13,0,8	23671	12 43671	W43695000008
1413		MLCS	DROP,BITTER-3	23683	12 43683	D54338537633
1414	COM8PX	B	00000	23695	7 43695	J00000
14198	*					
14199	*		COMMON 4 BIT INTERROGATION			
1420	COM4D	SBR	COM4DX&5	23702	7 43702	G43757B
1421		MLNA	COMADD,*&11	23709	12 43709	D5772243731/
1422		BBE	*&8,0,4	23721	12 43721	W43740000004
1423		B	*&13	23733	7 43733	J43752
1424		MLCS	PICK,BITTER-2	23740	12 43740	D54337537643
1425	COM4CX	B	00000	23752	7 43752	J00000
14299	*					
1430	COM4P	SBR	COM4PX&5	23759	7 43759	G43807B
1431		MLNA	COMADD,*&11	23766	12 43766	D5772243788/
1432		BBE	*&13,0,4	23778	12 43778	W43802000004
1433		MLCS	DROP,BITTER-2	23790	12 43790	D54338537643
1434	COM4PX	B	00000	23802	7 43802	J00000
14398	*					
14399	*		COMMON 2 BIT INTERROGATION			
1440	COM2C	SBR	COM2DX&5	23809	7 43809	G43864B
1441		MLNA	COMADD,*&11	23816	12 43816	D5772243838/
1442		BBE	*&8,0,2	23828	12 43828	W43847000002
1443		B	*&13	23840	7 43840	J43859
1444		MLCS	PICK,BITTER-1	23847	12 43847	D54337537653
1445	COM2DX	B	00000	23859	7 43859	J00000
14499	*					
1450	COM2P	SBR	COM2PX&5	23866	7 43866	G43914B
1451		MLNA	COMADD,*&11	23873	12 43873	D5772243895/
1452		BBE	*&13,0,2	23885	12 43885	W43909000002
1453		MLCS	DROP,BITTER-1	23897	12 43897	D54338537653
1454	COM2PX	B	00000	23909	7 43909	J00000
14598	*					
14599	*		COMMON 1 BIT INTERROGATION			

TEST FOR 8 BIT UP
 -----D-----
 TEST FOR 4 BIT DOWN
 -----P-----
 TEST FOR 4 BIT UP
 -----D-----
 TEST FOR 2 BIT DOWN
 -----P-----
 TEST FOR 2 BIT UP
 -----D-----

PGLIN	LABEL	OPCODE	OPERAND	CT	ADDRS	INSTRUCTION
1460	COM10	SBR	COM1DX&5	23916	7 43916	G439718
1461		MLNA	COMADD,*&11	23923	12 43923	D5772243945/
1462		B8E	*&8,0,1	23935	12 43935	M43954000001
1463		B	*&13	23947	7 43947	J43966
1464		MLCS	PICK,BITTER	23954	12 43954	D54337537663
1465	COM1CX	B	00000	23966	7 43966	J00000
14699						
1470	COM1P	SBR	COM1PX&5	23973	7 43973	G440218
1471		MLNA	COMADD,*&11	23980	12 43980	D5772244002/
1472		B8E	*&13,0,1	23992	12 43992	M44016000001
1473		MLCS	DROP,BITTER	24004	12 44004	D54338537663
1474	COM1PX	B	00000	24016	7 44016	J00000
14798						
14799						
1600						
1601						
1602	S188	MLCA	S1SB-6,SBCHAR	24023	12 44023	D5427053750T
1603		MLCWS	CONSI,CORREC	24035	12 44035	D56989543687
16049			CHAR ---GM SHOULD BE -CBA8421			
1605		B	COMWD	24047	7 44047	J43274
1607		B	COMBP	24054	7 44054	J43438
1608		B	COMAP	24061	7 44061	J43545
1609		B	COM8P	24068	7 44068	J43652
1610		B	COM4P	24075	7 44075	J43759
1611		B	COM2P	24082	7 44082	J43866
1612		B	COM1P	24089	7 44089	J43973
1613		B	PLACAD	24096	7 44096	J44343
1638						
1639						
1650						
1651	S288	MLCA	S2SB-6,SBCHAR	24103	12 44103	D5428053750T
1653		MLCWS	CONSI-24,CORREC	24115	12 44115	D56990543687
16549			CHAR WM-BL SHOULD BE W-----			
1655		B	COMWP	24127	7 44127	J43331
1657		B	COMBD	24134	7 44134	J43381
1658		B	COMAD	24141	7 44141	J43488

SECTIONS 1,8-9,12-13 CHAR GM BIT BREAKDOWN

PLACE ---- IN T-O
 SET GM IN CORRECT CHAR STORAGE24035 12 44035 D56989543687

SECTIONS 2,8-9,12-13 CHAR BLANK BIT BREAKDOWN

PLACE WMBL IN T-O
 SET WMBL IN CORRECT CHAR STORAGE24115 12 44115 D56990543687

TEST FOR WM UP
 B DOWN
 A DOWN

PGLIN	LABEL	OPCOD	OPERAND		CT	ADDR	INSTRUCTION
1659		B	COM8D	8 DOWN	24148	7 44148	J43595
1660		B	COM4D	4 DOWN	24155	7 44155	J43702
1661		B	COM2D	2 DOWN	24162	7 44162	J43809
1662		B	COM1D	1 DOWN	24169	7 44169	J43916
1663		B	PLACAD		24176	7 44176	J44343
1700			SECTIONS 3,10-11	CHAR V BIT BREAKDOWN			
1701	S388	MLCA	S3SB-6,SBCHAR	PLACE WM-V IN T-0	24183	12 44183	D5429053750T
1703		MLCMS	CONS3-24,CORREC	SET WM-V IN CORRECT CHAR STORAGE	24195	12 44195	D5701554368T
17049			CHAR WM-V SHOULD BE WC-A-4-1				
1705		B	COMMP	TEST FOR WM UP	24207	7 44207	J43331
1707		B	COM8D	8 DOWN	24214	7 44214	J43381
1708		B	COMAP	A UP	24221	7 44221	J43545
1709		B	COM8D	8 DOWN	24228	7 44228	J43595
1710		B	COM4P	4 UP	24235	7 44235	J43759
1711		B	COM2D	2 DOWN	24242	7 44242	J43809
1712		B	COM1P	1 UP	24249	7 44249	J43973
1713		B	PLACAD		24256	7 44256	J44343
1748			SECTIONS 4,10-11	CHAR EX PT BIT BREAKDOWN			
1750			MLCA S4SB-6,SBCHAR	PLACE --EP IN T-0	24263	12 44263	D5430053750T
1751	S488	MLCMS	CONS4,CORREC	SET EXPT IN CORRECT CHAR STORAGE	24275	12 44275	D5706454368T
1753			CHAR ---EP SHOULD BE --B-8-2-				
17549			TEST FOR WM DOWN				
1755		B	COMWD	8 UP	24287	7 44287	J43274
1757		B	COMBP	A DOWN	24294	7 44294	J43438
1758		B	COMAD	8 UP	24301	7 44301	J43488
1759		B	COM8P	4 DOWN	24308	7 44308	J43652
1760		B	COM4D	2 UP	24315	7 44315	J43702
1761		B	COM2P	1 DOWN	24322	7 44322	J43866
1762		B	COM1D		24329	7 44329	J43916
1763		B	PLACAD		24336	7 44336	J44343
1798			MLNA COMADD,ERRADD	PLACE ACTUAL ERROR ADDR IN T-0	24343	12 44343	D5772253744T
1799		B	TABSEA	GO TO TABLE LOOKUP SEARCH	24355	7 44355	J50365
1835	PLACAD	B	CHDET	GO TO CHAR DETERM	24362	7 44362	J41300
18354							
1836							
18399							

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
1840	REPCOR	MLNA	COMADD,REPCOR&10	24369	12 44369	D5772244391/
1841	*	MLCWS	CORREC,00000	24381	12 44381	D54368000007
1847	*					
1848	*					
1850	ERRIND	BCE	LOKTAD-7,TAD0,1	24393	12 44393	844441410001
18504	*	BCE	PRTYP,TAD7,1	24405	12 44405	844486410071
1851	*	WCP	ERRADD-4	24417	10 44417	M&T053740W
1852	*	BCB1	*-16	24427	7 44427	R444172
1853	*	BA1	*&1	24434	7 44434	R44441M
		BNQ	ITR	24441	7 44441	J41100Q
1854	LOKTAD	BCE	LOCKUP,TAD10,1	24448	12 44448	844711410101
18549	*					
1855	BYPTAB	BCE	VARRET,TAD5,1	24460	12 44460	844479410051
1856	*	B	TABULA	24472	7 44472	J45430
1858	VARRET	B	00000	24479	7 44479	J00000
18699	*					
1870	PRTYP	CS	TEMPOR&131	24486	6 44486	/53731
1871	*	CS		24492	1 44492	/
18719	*					
1872	*	MLCS	CHAN1,PRIET&1	24493	12 44493	D54332446813
1873	*	MLCWS	CHAN18,PRIET&10	24505	12 44505	D54333446907
1874	*	MLCWS	CHAN18,PRIET&17	24517	12 44517	D54333446977
1875	*	BCE	BUFC32,PRTBUF,2	24529	12 44529	844656412592
1876	*	BCE	BUFC,PRTBUF,1	24541	12 44541	844637412591
18769	*					
1877	*	MLCS	CHAN2,PRIET&1	24553	12 44553	D54334446813
1878	*	MLCWS	CHAN28,PRIET&10	24565	12 44565	D54335446907
1879	*	MLCWS	CHAN28,PRIET&17	24577	12 44577	D54335446977
1880	*	BCE	BUFC32,PRTBUF,2	24589	12 44589	844656412592
1881	*	BCE	BUFC,PRTBUF,1	24601	12 44601	844637412591
18819	*					
1882	*	WCP	NOBFS	24613	10 44613	M&T054177M
1883	*	BA1	*-16	24623	7 44623	R44613M
1884	*	B	ERRIND&24	24630	7 44630	J44417
18849	*					
1885	BUFC	MLCWS	GM,TEMPOR&100	24637	12 44637	D53812537007

S

PGLIN	LABEL	OPCOD	OPERAND	OPCODE	CT	ADDRS	INSTRUCTION
1886		B	*613		7	44649	J44668
1887	BUFC32	MLCWS	GM,TEMPOR&132		12	44656	D53812537327
1888		MRCG	ERRADD-4,TEMPOR		12	44668	D5374053600\$
18899							
1890	PRIET	W	TEMPOR		10	44680	MX2053600M
1891		BEX1	*-16,3		7	44690	R446803
1892		BA1	*61		7	44697	R44704M
1893		B	LOKTAD-7		7	44704	J44441
19499			SETUP FOR ERROR ADDR REPEAT T-0				
1950	LOCKUP	SW	LOKADD66		6	44711	*41986
1951		MLNWB	ERRADD,LOKADD&10		12	44717	D5374441990M
1952		MLNB	ERRADD,REPADD		12	44729	D5374454251J
19529							
1953		MLNS	XMO,REPXMO		12	44741	D53797542581
1954		MLNS	YMO,REPYMO		12	44753	D53811542651
20299							
2030		WCP	REPERR		10	44765	MXI054225M
2031		BA1	*-16		7	44775	R44765M
2038		B	LOKADD		7	44782	J41980
20398							
2050	SCMPLT	NOP			1	44789	N
2050		BNQ	ITR		7	44790	J41100Q
2050	BYPTYP	BCE	*613,TAD6,1		12	44797	B44821410061
2051		BCE	TESTAB,TADC,1		12	44809	B44838410001
2052		WCP	SECIND		10	44821	MXI053813W
2053		BA1	*-16		7	44831	R44821M
20539							
2054	TESTAB	MRCWG	SECIND&2,LEASEC		12	44838	D5381554626L
2055		BCE	TABPRT,TAD6,1		12	44850	B466841410061
2065							
2072	SW13RE	NOPWM			1	44862	N
2073		B	REPS13		7	44863	J45308
2074	SW12RE	NOPWM			1	44870	N
2075		B	REPS12		7	44871	J45289
2076	SW11RE	NOPWM			1	44878	N
2077		B	REPS11		7	44879	J45251

S

D

G

PGLIN	LABEL	OPCODE	OPERAND		CT	ADDRS	INSTRUCTION
2078	SW10RE	NOPWM		S-10 SWITCH	1	44886	N
2079		B	REPS10		7	44887	J45213
2080	SW9REP	NOPWM		S-9 SWITCH	1	44894	N
2081		B	REPS9		7	44895	J45175
2082	SW8REP	NOPWM		S-8 SWITCH	1	44902	N
2083		B	REPS8		7	44903	J45137
2084	SW7REP	NOPWM		S-7 SWITCH	1	44910	N
2085		B	REPS7		7	44911	J45099
2086	SW6REP	NOPWM		S-6 SWITCH	1	44918	N
2087		B	REPS6		7	44919	J45061
2088	SW5REP	NOPWM		S-5 SWITCH	1	44926	N
2089		B	REPS5		7	44927	J45034
2090	SW4REP	NOPWM		S-4 SWITCH	1	44934	N
2091		B	REPS4		7	44935	J45015
2092	SW3REP	NOPWM		S-3 SWITCH	1	44942	N
2093		B	REPS3		7	44943	J44996
2094	SW2REP	NOPWM		S-2 SWITCH	1	44950	N
2095		B	REPS2		7	44951	J44977
2098	*						
2099	*						
2100		BCE	S1SET,TAD1,1	REPEAT S-1 IF TAD1 UP	12	44958	B43062410011
2101		B	S2SET		7	44970	J43116
2102	REPS2	BCE	S2SET,TAD1,1	REPEAT S-2	12	44977	B43116410011
2103		B	S3SET		7	44989	J43165
2104	REPS3	BCE	S3SET,TAD1,1	REPEAT S-3	12	44996	B43165410011
2105		B	S4SET		7	45008	J43214
2106	REPS4	BCE	S4SET,TAD1,1	REPEAT S-4	12	45015	B43214410011
2107		B	S5SET		7	45027	J46398
2108	REPS5	BCE	S5SET,TAD1,1	REPEAT S-5	12	45034	B46398410011
21084	QUIEX	NOPWM		QUICK EXIT POST S-05 RUN SW	1	45046	N
21085		B	PASSAD		7	45047	J45320
2109		B	S6SET		7	45054	J47873
2110	REPS6	BCE	REP6R,TAD9,1	BYPASS S-6C IF TAD9 UP	12	45061	B45080410091
21104		B	CPTSET	GO TO COMPLEMENT SETUP	7	45073	J50735
2111	REP6R	BCE	S6SET,TAD1,1	REPEAT S-6 IF TAD1 UP	12	45080	B47873410011
21114		B	S7SET		7	45092	J47951

CS46

PGLIN	LABEL	OPCOD	OPERAND	INSTRUCTION	CT	ADDRS
2142	REPLD	CS	00999	CLEAR 900-999	6	45393 /00999
21421		CS		800-899	1	45399 /
21422		CS		700-799	1	45400 /
21423		CS		600-699	1	45401 /
21424		CS		500-599	1	45402 /
21425		CS		400-499	1	45403 /
21426		CS			1	45404 /
2143		SW	0334		6	45405 00334
2144		MLCWB	40999,0999	MOVE LODER BACK TO 334-999	12	45411 D4099900999P
2145		B	00400	GO TO LOAD NEXT PROG	7	45423 J00400
21498	*					
21499	*					
2150	*					
2151	TABULA	SBR	TABRET65	SET EXIT BRANCH FROM TABULATION	7	45430 G46396B
21549	*					
2155		MLNA	8E01,TABAC65	SET TO CH-0 START	12	45437 D5821545715/
2156		BCE	COLDET,ERRADD-4,0	TEST FOR 0----	12	45449 B45518537400
2157		A	CN0078,TABAC65	ADD 78	11	45461 A5718645715
2158		BCE	COLDET,ERRADD-4,1	TEST FOR 1----	12	45472 B45518537401
2159		A	CN0078,TABAC65	ADD 78	11	45484 A5718645715
2160		BCE	COLDET,ERRADD-4,2	TEST FOR 2----	12	45495 B45518537402
2161		A	CN0078,TABAC65	ADD 78- MUST BE 3-----	11	45507 A5718645715
21799	*					
2180	COLDET	CW	PIKSW161,PIKSW261		11	45518 B4623746366
2181		MLNA	S8,BITCTR	SET BITCTR TO 8	12	45529 D5722754372/
2182		MLNA	8BITTR,PSCAN610	SET PSCAN 8 TO BITTR	12	45541 D5822045574/
2183		A	CON9,TABAC65	ADD 9 TO SET TO BPI PICK POS	11	45553 A5716145715
21849	*					
2185	PSCAN	BBE	PORTAL,BITTR,4	TEST ALL BITBRK FOR 4 BIT	12	45564 W45623537664
2186		S	CON1,PSCAN610	SUB 1 FROM PSCAN 8	11	45576 S5713145574
2187		S	S1,BITCTR	SUB 1 FROM BITCTR	11	45587 S5721354372
2188		BZ	PORTAL	EXIT- IF 0	7	45598 J45623V
2189		A	CON9,TABAC65	ADD 9 TO TABAC	11	45605 A5716145715
2190		B	PSCAN		7	45616 J45564
21909	*					
2191	PORTAL	SW	PODDET66		6	45623 45647

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
21912		MLNWB	PSCAN&10,PODDET&10	25629	12 45629	D4557445651N
21914	PODDET	BCE	SETPIK,00000,P	25641	12 45641	B45660000000P
21915		B	DROPIK	25653	7 45653	J45678
21919	*					
2192	SETPIK	SW	PIKSWI&1,PIKSW2&1	25660	11 45660	,4623746366
2193		B	*&12	25671	7 45671	J45689
2194	DROPIK	A	CON4,TABAC&5	25678	11 45678	A5714145715
2195		B	EXSTOR	25689	7 45689	J45703
2196		B	XMSDET	25696	7 45696	J45769
22798	*					
22799	*					
2280	EXSTOR	SBR	ACEXIT&5	25703	7 45703	G457678
2281	TABAC	MLNB	00000,ACCUP	25710	12 45710	D0000057730J
2282		A	CON1,ACCUM	25722	11 45722	A5713157730
22829	*					
2283		SW	ACTAB&6	25733	6 45733	,45757
2284		MLNWB	TABAC&5,ACTAB&10	25739	12 45739	D4571545761N
2285	ACTAB	MCS	ACCUM,00000	25751	11 45751	Z5773000000
2286	ACEXIT	B	00000	25762	7 45762	J00000
22998	*					
23119	*					
2312	XMSDET	CW	XYTEX&1	25769	6 45769	D46263
2313		MLNA	EXSGO,TABAC&5	25775	12 45775	D5822545715/
2314		MLNS	XSG,XRAG	25787	12 45787	D53790572621
2315		MLNS	YSG,YRAG	25799	12 45799	D53804572631
23159	*					
2316	XRADET	BCE	YRADET,XRAG,0	25811	12 45811	B46018572620
23162		A	CON84,TABAC&5	25823	11 45823	A5719145715
2317		BCE	YRADET,XRAG,1	25834	12 45834	B46018572621
23172		A	CON84,TABAC&5	25846	11 45846	A5719145715
2318		BCE	YRADET,XRAG,2	25857	12 45857	B46018572622
23182		A	CON84,TABAC&5	25869	11 45869	A5719145715
2319		BCE	YRADET,XRAG,3	25880	12 45880	B46018572623
23192		A	CON84,TABAC&5	25892	11 45892	A5719145715
2320		BCE	YRADET,XRAG,4	25903	12 45903	B46018572624
23202		A	CON84,TABAC&5	25915	11 45915	A5719145715

TABULATION ACCUMULATOR AREA

DETERMINANT FOR X TAB LINE

PGLIN	LABEL	OPCOD	OPERAND	EXIT- IF	CT	ADDRS	INSTRUCTION	
2321		BCE	YRADET,XRAG,5	EXIT- IF 5	25926	45926	B46018572625	
23212		A	CON84,TABACC&5		25938	45938	A5719145715	
2322		BCE	YRADET,XRAG,6	EXIT- IF 6	25949	45949	B46018572626	
23222		A	CON84,TABACC&5		25961	45961	A5719145715	
2323		BCE	YRADET,XRAG,7	EXIT- IF 7	25972	45972	B46018572627	
23232		A	CON84,TABACC&5		25984	45984	A5719145715	
2324		BCE	YRADET,XRAG,8	EXIT- IF 8	25995	45995	B46018572628	
23242		A	CON84,TABACC&5	ADD 84- MUST BE 9	26007	46007	A5719145715	
23249	*		DETERMINANT FOR Y TAB COLUMN					
2325	YRADET	A	CON6,TABACC&5	ADD 6 TO SET TO YOP	26018	46018	A5715145715	
2326		BCE	PIKSW1,YRAG,0	EXIT- IF 0	26029	46029	B46236572630	
23262		A	CON8,TABACC&5	ADD 8 TO TABAC	26041	46041	A5715645715	
2327		BCE	PIKSW1,YRAG,1	EXIT- IF 1	26052	46052	B46236572631	
23272		A	CON8,TABACC&5		26064	46064	A5715645715	
2328		BCE	PIKSW1,YRAG,2	EXIT- IF 2	26075	46075	B46236572632	
23282		A	CON8,TABACC&5		26087	46087	A5715645715	
2329		BCE	PIKSW1,YRAG,3	EXIT- IF 3	26098	46098	B46236572633	
23292		A	CON8,TABACC&5		26110	46110	A5715645715	
2330		BCE	PIKSW1,YRAG,4	EXIT- IF 4	26121	46121	B46236572634	
23302		A	CON8,TABACC&5		26133	46133	A5715645715	
2331		BCE	PIKSW1,YRAG,5	EXIT- IF 5	26144	46144	B46236572635	
23312		A	CON8,TABACC&5		26156	46156	A5715645715	
2332		BCE	PIKSW1,YRAG,6	EXIT- IF 6	26167	46167	B46236572636	
23322		A	CON8,TABACC&5		26179	46179	A5715645715	
2333		BCE	PIKSW1,YRAG,7	EXIT- IF 7	26190	46190	B46236572637	
23332		A	CON8,TABACC&5		26202	46202	A5715645715	
2334		BCE	PIKSW1,YRAG,8	EXIT- IF 8	26213	46213	B46236572638	
23342		A	CON8,TABACC&5	ADD 8- MUST BE 9	26225	46225	A5715645715	
23399	*		PICKUP SWITCH 1					
2340	PIKSW1	NOPWH			26236	46236	N	
2341		B	*E12		26237	46237	J46255	
2342		A	CON4,TABACC&5		26244	46244	A5714145715	
2343		B	EXSTOR	GO TO TAB INCREMENT	26255	46255	J45703	
23439	*		XY TAB EXIT SWITCH					
2344	XYTEX	NOPWH			26262	46262	N	
23442		B	SSTAB		26263	46263	J46319	

PGLIN	LABEL	OPCOD	OPERAND	INSTRUCTION	CT	ADDRS
2345		SW	XYTEX&1	SET XY TAB SW	26270	6 46270 ,46263
23452		MLNA	6XW00,TABAC&5	SET XW0-0 STAD	26276	12 46276 D5823045715/
2346		MLNS	XWC,XRAG	SET XRAG TO XWC	26288	12 46288 D53797572621
23462		MLNS	YWC,YRAG	SET YRAG TO YWC	26300	12 46300 D53811572631
2347		B	XRADET		26312	7 46312 J45811
23498						
23499						
2351	SSTAB	MLNA	6ZBD,TABAC&5	SET TAB START ADDR	26319	12 46319 D5823545715/
23549						
2355		A	CON9,TABAC&5	ADD 9 TO SET TO 8-P	26331	11 46331 A5716145715
2356		BCE	PIKSW2,SENSEG,B	TEST FOR SS-B	26342	12 46342 B4636553778B
2357		A	CON9,TABAC&5	SET TO D-P	26354	11 46354 A5716145715
23599						
2360	PIKSW2	NOPWM		PICKUP SWITCH 2	26365	1 46365 N
2361		B	*612		26366	7 46366 J46384
2362		A	CON4,TABAC&5	ADD 4 TO SET TO 0 FLD	26373	11 46373 A5714145715
2363		B	EXSTOR		26384	7 46384 J45703
24989						
2499	TABRET	B	00000	TABULATION EXIT	26391	7 46391 J0000
2500						
2501						
2502	S5SET	MLNA	S5INAD,S5ADDR	SECTION 5- MEMORY ADDR PLACEMENT SET S5ADDR TO 00004	26398	12 46398 D5459254331/
2503		MLNA	S5INAD,PLACER&10	SET PLACER TO 00004	26410	12 46410 D5459246456/
25034		MLNA	S5,SECIND&3	PLACE 05 IN S-XX T-0	26422	12 46422 D5722153816/
2505		SW	SW5REP&1		26434	6 46434 ,44927
25054		SW	S5ADDR-3	SET WM FOR 4 DIG PLACE AT 0004	26440	6 46440 ,54328
2506						
2507	PLACER	MLCWA	S5ADDR,00004	PLACE ACTUAL ADDR AT ACTUAL	26446	12 46446 D5433100004X
2508						
25084		CW	S5ADDR-3	CLEAR WM FOR 5 DIGIT PLACEMENTS	26458	6 46458 D54328
2509		C	PLACER&10,NINES	TEST PLACER B ADDR FOR 9999	26464	11 46464 C4645654543
2510		BE	TTF-FIL		26475	7 46475 J46518S
2511	FLIPF	A	CON5,S5ADDR	ADD 5 TO S5ADDR	26482	11 46482 A5714654331
2512		A	CON5,PLACER&10	ADD 5 TO PLACER B ADDR	26493	11 46493 A5714646456
		BNQ	ITR	STRATEGIC INQUIRY-----	26504	7 46504 J41100Q
2513		B	PLACER		26511	7 46511 J46446

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
2514	*					
2517	TTHFIL	BCE	AAC5,MENSEL,3	26518 12	46518	846549412573
25199	*					
2520		BCE	FILLED,PLACER&6,3	26530 12	46530	846568464523
2521		B	FLIPF	26542 7	46542	J46482
2522	AAC5	BCE	FILLED,PLACER&6,1	26549 12	46549	846568464521
2523		B	FLIPF	26561 7	46561	J46482
2532	*					
2540	*					
2541	FILLED	MLNA	S5INAD,S5ACDR	26568 12	46568	05459254331/
2542		MLNA	S5INAD,CHECK&5	26580 12	46580	05459246608/
25422		SW	S5ADDR-3,S5ERTY&11	26592 11	46592	,5432854113
2543	*					
2545	CHECK	C	00004,S5ADDR	26603 11	46603	C0000454331
2546		BE	ORDCHK	26614 7	46614	J46628S
2547		B	S5ERR	26621 7	46621	J46743
2548	*					
25484	ORDCHK	CW	S5ADDR-3,S5ERTY&11	26628 11	46628	05432854113
2549		C	CHECK&5,NINES	26639 11	46639	C4660854543
2550		BE	TTHCHK	26650 7	46650	J46693S
2551	FLIPC	A	CON5,S5ADDR	26657 11	46657	A5714654331
2552		A	CON5,CHECK&5	26668 11	46668	A5714646608
2553		BNQ	ITR	26679 7	46679	J41100Q
2554	*	B	CHECK	26686 7	46686	J46603
2557	TTHCHK	BCE	DAC5,MENSEL,3	26693 12	46693	846724412573
25599	*					
2560		BCE	SCMPLT,CHECK&1,3	26705 12	46705	844789466043
2561		B	FLIPF	26717 7	46717	J46657
2562	DAC5	BCE	SCMPLT,CHECK&1,1	26724 12	46724	844789466041
2563		B	FLIPF	26736 7	46736	J46657
2572	*					
2573	*					
2575	S5ERR	MLNWA	S5ADDR,S5ERTY&6	26743 12	46743	05433154108V
2576		MLNA	S5ADDR,PLCONT&5	26755 12	46755	05433146784/
2577	*					

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
2578		MLCWA	BLANKS-5,S5ERTY&14	12	46767	D5435554116X
2579	PLCONT	MLCWB	00000,S5ERTY&14	26779	12	46779 D0000054116P
2580	*		S5 ERROR TYPE-OUT			
	S		STRATEGIC INQUIRY-----	26791	7	46791 J41100Q
2581		BCE	GAC,TADO,1	26798	12	46798 B46834410001
2582		WCPM	S5ERTY	26810	10	46810 LXT054102W
2583		BCB1	*-16	26820	7	46820 R468102
2584		BA1	GAC	26827	7	46827 R46834M
2585	GAC	B	ORDCHK	26834	7	46834 J46628
2599	*					
2600	*		PRINT ERROR TABULATION AREA			
2601	TABPRI	SBR	PR1RET&5	26841	7	46841 G47871B
2602		BCE	TNOPER,TAD5,1	26848	12	46848 B47003410051
2603		BCE	TNOPER,SECIND&3,5	26860	12	46860 B47003538165
2605		MLNA	MESCTR,CTR2	26872	12	46872 D5436254370/
26054		S	S1,CTR2	26884	11	46884 S5721354370
2606		MLNA	GHEAD,TESLIN&5	26895	12	46895 D5824046919/
2607		B	SUBCT	26907	7	46907 J46932
26099	*					
2610	TESLIN	C	HEAD,TABCLA	26914	11	46914 C5475554449
2611		BU	TYORPR	26925	7	46925 J47027/
2612	SUBCT	S	S1,CTR2	26932	11	46932 S5721354370
2613		C	C24,CTR2	26943	11	46943 C5724954370
26132		BE	TNOTAB	26954	7	46954 J46979S
2614		A	CNO078,TESLIN&5	26961	11	46961 A5718646919
2615		B	TESLIN	26972	7	46972 J46914
26199	*					
2620	TNOTAB	WCP	NOERTA	26979	10	46979 MXT054133M
2621		BA1	*-16	26989	7	46989 R46979M
2622		B	PR1RET	26996	7	46996 J47866
26299	*					
2630	TNOPER	WCP	NOTPER	27003	10	47003 MXT054153M
2631		BA1	*-16	27013	7	47013 R47003M
2632		B	PATRET	27020	7	47020 J47866
26498	*					
26499	*					

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
2650	TYORPR	CH	PROSW&1,BUFFSW&1	27027 11	47027	047333647368
2652		BCE	*E8,IAD7,1	27038 12	47038	847057410071
2653		B	CTRSET	27050 7	47050	J47257
26549	*	SW	PROSW&1	27057 6	47057	*47336
2655		CS	TEMPOR&131	27063 6	47063	/53731
2657		CS		27069 1	47069	/
26699	*	MLCS	CHAN1,PRLINE&1	27070 12	47070	D54332474123
2670		MLCWS	CHAN1B,PRLINE&10	27082 12	47082	D54333474217
26715		MLCWS	CHAN1B,PRLINE&17	27094 12	47094	D54333474287
26716		BCE	BUF132,PRTBUF,2	27106 12	47106	847245412592
2672		BCE	BUF100,PRTBUF,1	27118 12	47118	847220412591
26739	*	MLCS	CHAN2,PRLINE&1	27130 12	47130	D54334474123
2674		MLCWS	CHAN2B,PRLINE&10	27142 12	47142	D54335474217
26755		MLCWS	CHAN2B,PRLINE&17	27154 12	47154	D54335474287
26756		BCE	BUF132,PRTBUF&1,2	27166 12	47166	847245412602
2676		BCE	BUF100,PRTBUF&1,1	27178 12	47178	847220412601
26899	*	CH	PROSW&1	27190 6	47190	047336
2690		WCP	NOPBFS	27196 10	47196	M8T054177M
2691		BA1	*-16	27206 7	47206	R47196M
2692		B	CTRSET	27213 7	47213	J47257
26999	*	SW	BUFFSW&1	27220 6	47220	*47368
2700	BUF100	MLCWS	GM,TEMPOR&100	27226 12	47226	D53812537007
2701		B	*E13	27238 7	47238	J47257
2702		MLCWS	GM,TEMPOR&132	27245 12	47245	D53812537327
2703	BUF132	MLNA	MESCTR,CTR2	27257 12	47257	D5436254370/
27199	*	MLNA	ELEAD,TETLEY&5	27269 12	47269	D5824547322/
2720	CTRSET	MLNA	ELEAD,TETLEY&5	27281 12	47281	D5825047327/
2721		MLNA	ELEAD,TETLEY&5	27293 12	47293	D5825547351/
2722		MLNA	ELEAD,TETLEY&5	27305 12	47305	D5825557722/
2723		MLNA	ELEAD,TETLEY&5			
2724		MLNA	ELEAD,TETLEY&5			
27249	*	MLNA	ELEAD,TETLEY&5			

PGLIN	LABEL	OPCOD	OPERAND	TEST EACH LINE FOR ZEROES	CT	ADDRS	INSTRUCTION
2725	TETLEY	C	LEAD, TABCLA	TEST EACH LINE FOR ZEROES	27317	11 47317	C5467754449
2726	*	BE	SUBCTR	BYPASS LINE OUTPUT IF EQUAL	27328	7 47328	J47435S
27269	*						
2727	PROSW	NOPWM		PRINTER OUTPUT SWITCH	27335	1 47335	N
2728	*	B	BUFSW		27336	7 47336	J47367
27299	*						
2730	TYLINE	WCP	LEADER	TYPE A TAB LINE	27343	10 47343	MZ1054601M
2731	*	BAL	*-16		27353	7 47353	R47343M
2732		B	SUBCTR		27360	7 47360	J47435
2733	BUFSW	NOPWM		100 CHAR BUFFER SWITCH	27367	1 47367	N
2734	*	B	SCRUBC		27368	7 47368	J47381
2735		CS	TEMPOR&131	CLEAR 32 POSITIONS	27375	6 47375	/53731
2736	SCRUBC	CS	TEMPOR&99	CLEAR 100 POSITIONS	27381	6 47381	/53699
27379	*						
2739		MLNA	COMADD,CONTPL&5		27387	12 47387	D5772247404/
2740	CONTPL	MRCC	00000,TEMPOR	PLACE TAB CONTS IN WR FLD	27399	12 47399	D0000053600\$
27419	*						
2742	PRLINE	W	TEMPOR	PRINT A TAB LINE	27411	10 47411	MZ2053600M
2743	*	BEX1	*-16,3	TRY AGAIN IF BUSY OR NOT RDY	27421	7 47421	R474113
2744		BAL	*&1		27428	7 47428	R47435M
27449	*						
2745	SUBCTR	S	S1,CTR2	REDUCE CTR BY 1	27435	11 47435	S5721354370
2746	*	BZ	ENCTYB	EXIT ON 00	27446	7 47446	J47695V
27469	*						
2747		C	C24,CTR2	TEST CTR FOR 24	27453	11 47453	C5724954370
2748		BH	ADC78	TEST FOR HIGH	27464	7 47464	J47561U
2749		BE	EQL24	TEST FOR EQL	27471	7 47471	J47590S
2750		C	S2,CTR2	TEST CTR FOR 02	27478	11 47478	C5721554370
2751		BH	ADC84		27489	7 47489	J47532U
2752		BE	EQL02		27496	7 47496	J47633S
27529	*						
2753		A	CN024,TETLEY&5	ADD 24 TO TETLEY A ADDR	27503	11 47503	A5717147322
2754		A	CN024,COMACD	ADD 24 TO COMADD	27514	11 47514	A5717157722
2756		B	EQL02R		27525	7 47525	J47657
27599	*						
2760	ACD84	A	CON84,TETLEY&5	ADD 84 TO TETLEY A ADDR	27532	11 47532	A5719147322

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDR	INSTRUCTION
2761		A	CON84,COMADD	27543	11 47543	A5719157722
2762		B	COMREF	27554	7 47554	J47676
27649	*					
2765	A0078	A	CN0078,TETLEY&5	27561	11 47561	A5718647322
2766		A	CN0078,COMADD	27572	11 47572	A5718657722
2767		B	COMREF	27583	7 47583	J47676
27699	*					
2770	EQL24	MLNA	ESGLEAD,TETLEY&5	27590	12 47590	D5826047322/
2771		MLNA	6LEADSG,COMADD	27602	12 47602	D5826557722/
2772		MLNA	6TABGAG,TETLEY&10	27614	12 47614	D5827047327/
2773		B	COMREF	27626	7 47626	J47676
27749	*					
2775	EQL02	MLNA	6SSLEA,TETLEY&5	27633	12 47633	D5827547322/
2776		MLNA	6LEADSS,COMADD	27645	12 47645	D5828057722/
2777	EQL02R	MLNA	COMADD,TYLINE&8	27657	12 47657	D5772247351/
2778		B	PROSW	27669	7 47669	J47335
27799	*					
2780	COMREF	MLNA	COMADD,TYLINE&8	27676	12 47676	D5772247351/
2781		B	TETLEY	27688	7 47688	J47317
29049	*		RESET TABLE AFTER OUTPUT			
2911	ENDTYB	MLCA	TABCLA,ODD23	27695	12 47695	D5444955067T
2912		MLCA	TABCLA,EVEN23	27707	12 47707	D5444954989T
2913		MLCA	TABCLA,ODD01	27719	12 47719	D5444954911T
29132		MLCA	TABCLA,EVEN01	27731	12 47731	D5444954833T
29139	*					
2914		CW	CLAPSW61	27743	6 47743	D47822
2915		MLNA	6GATE0,CLAPAB&10	27749	12 47749	D5820547783/
2916		MLNA	S10,CTR2	27761	12 47761	D5723154370/
29169	*					
2917	CLAPAB	MLCA	TABGAG,GATE0	27773	12 47773	D5452955235T
2918		S	S1,CTR2	27785	11 47785	S5721354370
2919		BZ	CLAPSW	27796	7 47796	J47821V
2920		A	CON84,CLAPAB&10	27803	11 47803	A5719147783
2921		B	CLAPAB	27814	7 47814	J47773
29219	*					
2922	CLAPSW	NOPWM	X-Y TAB CLEAR EXIT SW	27821	1 47821	N

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
2923		B	*&26	27822	7 47822	J47854
29232		SW	CLAPSW&1	27829	6 47829	,47822
2924		MLNA	&WINDO,&CLAPAB&10	27835	12 47835	D5821047783/
2925		B	CLAPAB-12	27847	7 47847	J47761
29259	*					
2926		MLCA	TABCLA-54,LINZBD	27854	12 47854	D5439556963T
2999	PRTRT	B	00000	27866	7 47866	J00000
3000	*		SECTION 6 SETUP			
3001	*		W-BA--21			
3003			-C--84--			
3003	S6SET	MLCWA	CONS6,PLUS&24	27873	12 47873	D5708957765X
3004		MLCWA	CONS7,MINUS&24	27885	12 47885	D5711457791X
30044		CW	PLUS,MINUS	27897	11 47897	D5774157767
30046		MLNA	S6,SECIND&3	27908	12 47908	D5722353816/
30048		MLNA	S6,SECCING&3	27920	12 47920	D5722353821/
3006		SW	SW6REPE&1	27932	6 47932	,44919
3007		SW	SW613A&1	27938	6 47938	,49172
3015		B	WPLUS	27944	7 47944	J48675
3020	*		SECTION 7 SETUP			
3021	*		-C--84--			
3023	S7SET	MLCWA	CONS7,PLUS&24	27951	12 47951	D5711457765X
3024		MLCWA	CONS6,MINUS&24	27963	12 47963	D5708957791X
30244		CW	PLUS,MINUS	27975	11 47975	D5774157767
30246		MLNA	S7,SECIND&3	27986	12 47986	D5722353816/
30248		MLNA	S7,SECCING&3	27998	12 47998	D5722353821/
3026		SW	SW7REPE&1	28010	6 48010	,44911
3028		SW	SW613A&1	28016	6 48016	,49172
3030		SW	SC7REE&1	28022	6 48022	,52277
3035		B	WMMINS	28028	7 48028	J48640
3040	*		SECTION 8 SETUP			
3041	*		-C8A8421			
3043	S8SET	MLCWA	CONS1,PLUS&24	28035	12 48035	D5698957765X
3044		MLCWA	CONS2,MINUS&24	28047	12 48047	D5701457791X
30444		CW	PLUS,MINUS	28059	11 48059	D5774157767
30446		MLNA	S8,SECIND&3	28070	12 48070	D5722353816/
30448		MLNA	S8,SECCING&3	28082	12 48082	D5722353821/
3046		SW	SW8REPE&1	28094	6 48094	,44903

PGLIN	LABEL	OPCODE	OPERAND	CT	ADDRS	INSTRUCTION
3047		SW	SW613A&1	28100	6 48100	,49172
3049		SW	SC8REG1	28106	6 48106	,52269
3055		B	WMMINS	28112	7 48112	J48640
3060			SECTION 9 SETUP			
3061			W-----			
3063	S9SET	MLCWA	CONS2,PLUS&24	28119	12 48119	D5701457765X
3064		MLCWA	CONS1,MINUS&24	28131	12 48131	D5698957791X
30644		CH	PLUS,MINUS	28143	11 48143	D5774157767
30646		MLNA	S9,SECINDE&3	28154	12 48154	D5722953816/
30648		MLNA	S9,SECCIN&3	28166	12 48166	D5722953821/
3066		SW	SW9REP&1	28178	6 48178	,44895
3067		SW	SW613A&1	28184	6 48184	,49172
3069		SW	SC9REG1	28190	6 48190	,52261
3075		B	WAMPLUS	28196	7 48196	J48675
3080			SECTION 10 SETUP			
3081			WC-A-4-1			
3083	S10SET	MLCWA	CONS3,PLUS&24	28203	12 48203	D5703957765X
3084		MLCWA	CONS4,MINUS&24	28215	12 48215	D5706457791X
30844		CH	PLUS,MINUS	28227	11 48227	D5774157767
30846		MLNA	S10,SECINDE&3	28238	12 48238	D5723153816/
30848		MLNA	S10,SECCIN&3	28250	12 48250	D5723153821/
3086		SW	SW10RE&1	28262	6 48262	,44887
3087		SW	SW613A&1	28268	6 48268	,49172
3089		SW	SC10REG1	28274	6 48274	,52253
3095		B	WAMPLUS	28280	7 48280	J48675
3100			SECTION 11 SETUP			
3101			--B-8-2-			
3103	S11SET	MLCWA	CONS4,PLUS&24	28287	12 48287	D5706457765X
3104		MLCWA	CONS3,MINUS&24	28299	12 48299	D5703957791X
31044		CH	PLUS,MINUS	28311	11 48311	D5774157767
31046		MLNA	S11,SECINDE&3	28322	12 48322	D5723353816/
31048		MLNA	S11,SECCIN&3	28334	12 48334	D5723353821/
3106		SW	SW11RE&1	28346	6 48346	,44879
3107		SW	SW613A&1	28352	6 48352	,49172
3109		SW	SC11REG1	28358	6 48358	,52245
3115		B	WMMINS	28364	7 48364	J48640

PGLIN	LABEL	OPCOD	OPERAND	SECTION 12 SETUP-	DIAGONAL TEST PATH BEAT ALL W-----	WITH ALL -CBAB421	CT	ADDRS	INSTRUCTION
3120	*			SECTION 12 SETUP-	DIAGONAL TEST PATH BEAT ALL W-----				
3121	*								
3123	S12SET	MLCWA	CONS2,PLUS&24	PLACE 25 BLANK CHAR			28371 12	48371	D5701457765X
3124		MLCWA	CONS2,MINUS&24	25 BLANK			28383 12	48383	D5701457791X
31246		MLNA	S12,SECINDE3	PLACE 12 IN S-XX T-O			28395 12	48395	D5723553816/
3126		SW	SW12RE&1				28407 6	48407	,44871
3127		SW	SW1213&1				28413 6	48413	,49164
3129		MLNA	&CONS12,TBA0&5	SET ALL TBA A ADDRS			28419 12	48419	D5828552521/
31292		MLNA	&CONS12,TBA1&5				28431 12	48431	D5828552509/
3130		MLNA	&CONS12,TBA2&5				28443 12	48443	D5828552497/
31302		MLNA	&CONS12,TBA3&5				28455 12	48455	D5828552485/
3133		MLCS	CONS2,SAX&11	SET SAX D MOD TO BLANK			28467 12	48467	D57014527343
3135		B	WMALL				28479 7	48479	J48612
3140	*			SECTION 13 SETUP-	DIAGONAL TEST PATH BEAT ALL -CBAB421				
3141	*								
3143	S13SET	MLCWA	CONS1,PLUS&24	PLACE 25 GM CHARS			28486 12	48486	D5698957765X
3144		MLCWA	CONS1,MINUS&24	25 GM			28498 12	48498	D5698957791X
31444		CW	PLUS,MINUS				28510 11	48510	D5774157767
31446		MLNA	S13,SECINDE3	PLACE 13 IN S-XX T-O			28521 12	48521	D5723753816/
3146		SW	SW13RE&1				28533 6	48533	,44863
3147		SW	SW1213&1				28539 6	48539	,49164
3149		MLNA	&CONS13,TBA0&5	SET ALL TBA A ADDRS			28545 12	48545	D5829052521/
31492		MLNA	&CONS13,TBA1&5				28557 12	48557	D5829052509/
3150		MLNA	&CONS13,TBA2&5				28569 12	48569	D5829052497/
31502		MLNA	&CONS13,TBA3&5				28581 12	48581	D5829052485/
3153		MLCS	CONS1,SAX&11	SET SAX D MOD TO GM			28593 12	48593	D56989527343
3155		B	CLBESE				28605 7	48605	J48703
31699	*			SET WM-S IN PLUS AND MINUS FLD					
3170	WMALL	SW	PLUS&24				28612 6	48612	,57765
31702		SW	PLUS&23,PLUS&11				28618 11	48618	,5776457752
3171		SW					28629 1	48629	,
3172		SW					28630 1	48630	,
3173		SW					28631 1	48631	,
3174		SW					28632 1	48632	,
3175		SW					28633 1	48633	,
3176		SW					28634 1	48634	,

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
3177		SW		28635	1 48635	.
3178		SW		28636	1 48636	.
3179		SW		28637	1 48637	.
31792		SW		28638	1 48638	.
31794		SW		28639	1 48639	.
3180	WMINS	SW	MINUS&24	28640	6 48640	,57791
31802		SW	MINUS&23,MINUS&11	28646	11 48646	,5779057778
3181		SW		28657	1 48657	.
3182		SW		28658	1 48658	.
3183		SW		28659	1 48659	.
3184		SW		28660	1 48660	.
3185		SW		28661	1 48661	.
3186		SW		28662	1 48662	.
3187		SW		28663	1 48663	.
3188		SW		28664	1 48664	.
3189		SW		28665	1 48665	.
31892		SW		28666	1 48666	.
31894		SW		28667	1 48667	.
3190		B	CLBESE	28668	7 48668	J48703
31999	*		SET WM-S IN PLUS FIELD			
3200	WMPLUS	SW	PLUS&24	28675	6 48675	,57765
32002		SW	PLUS&23,PLUS&11	28681	11 48681	,5776457752
3201		SW		28692	1 48692	.
3202		SW		28693	1 48693	.
3203		SW		28694	1 48694	.
3204		SW		28695	1 48695	.
3205		SW		28696	1 48696	.
3206		SW		28697	1 48697	.
3207		SW		28698	1 48698	.
3208		SW		28699	1 48699	.
3209		SW		28700	1 48700	.
32092		SW		28701	1 48701	.
32094		SW		28702	1 48702	.
32199	*		CLEAR MEMORY OTA BETWEEN SECTIONS			
3225	CLBESE	MLNA	FA40H,CLOTA&5	28703	12 48703	D5453448726/
3230		SW	00001	28715	6 48715	,00001

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
3231	CLOTA	CS	39999 CLEAR ALL OTA	28721	6 48721	/39999
3232		SBR	CLOTA&5	28727	7 48727	G487268
3233		BW	CLOTA,00001	28734	12 48734	V48721000011
32338	*					
32339	*		COMMON MEMORY OTA FILL- ALL SECTS,EXCEPT S-5			
3234		CS	SETUPA&99 CLEAR SETUP A	28746	6 48746	/57999
3235		CS	SETUPB&99 CLEAR SETUP B	28752	6 48752	/58199
32399	*		FILL SETUP A & B FIELDS			
3240		MRCWG	PLUS,SETUPA && 00-25	28758	12 48758	D 5774157900L
3241		MRCWG	MINUS,SETUPA&25 -- 25-50	28770	12 48770	D 5776757925L
3242		MRCWG	MINUS,SETUPA&50 -- 50-75	28782	12 48782	D 5776757950L
3243		MRCWG	PLUS,SETUPA&75 && 75-100	28794	12 48794	D 5774157975L
32439	*					
3244		MRCWG	MINUS,SETUPB -- 00-25	28806	12 48806	D 5776758100L
3245		MRCWG	PLUS,SETUPB&25 && 25-50	28818	12 48818	D 5774158125L
3246		MRCWG	PLUS,SETUPB&50 && 50-75	28830	12 48830	D 5774158150L
3247		MRCWG	MINUS,SETUPB&75 -- 75-100	28842	12 48842	D 5776758175L
32999	*		FILL 00000-09999			
3300		CW	INFSW&1 CLEAR BINARY INFSW	28854	6 48854	□48938
3301		MLNA	&SETUPA,INFIL2&5 SET INFIL2 A ADDR	28860	12 48860	D5829548889/
3302		MLNA	INFAD2,INFIL2&10 SET INFIL2 B ADDR	28872	12 48872	D5458248894/
33049	*					
3305	INFIL2	MRCWG	SETUPA,000C0 FILL 100 POSITIONS PER	28884	12 48884	D 5790000000L
3306		C	INFIL2&8,NINES-2 TEST FOR -99--	28896	11 48896	C4889254541
3307		BE	INFIL3	28907	7 48907	J490265
3308		A	CON100,INFIL2&10 ADD 100 TO INFIL2 B ADDR	28914	11 48914	A5716648894
3309		BCE	INFIB,INFIL2&8,5 TEST FOR --5--	28925	12 48925	B48995488925
33099	*					
3310	INFSW	NOPWM	BINARY SHIFT SW	28937	1 48937	N
3311		B	INFIA	28938	7 48938	J48970
3312		SW	INFSW&1 SET INFSW	28945	6 48945	□48938
3313		MLNA	&SETUPB,INFIL2&5 SET INFIL2 A ADDR HI	28951	12 48951	D5830048889/
3314		B	INFIL2	28963	7 48963	J48884
3315	INFIA	CW	INFSW&1 CLEAR INFSW	28970	6 48970	□48938
3316		MLNA	&SETUPA,INFIL2&5 SET INFIL2 A ADDR LO	28976	12 48976	D5829548889/
3317		B	INFIL2	28988	7 48988	J48884

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
33179	*					
3318	INF18	BCE	INFIL2,INFIL2&7,2	28995 12	48995	B48884488912
3319		BCE	INFIL2,INFIL2&7,7	29007 12	49007	B48884488917
3320		B	INFSW	29019 7	49019	J48937
33249	*					
3325	INF13	MLCWS	GM,09999	29026 12	49026	D53812099997
33252		MRCWG	00000,10000	29038 12	49038	D0000010000L
33254		MLCWS	SETUPB,09999	29050 12	49050	D58100049997
33256		MLCWS	SETUPB,19999	29062 12	49062	D58100199997
33299	*					
3333		BCE	SETFAB,MEMSEL,3	29074 12	49074	849116412573
3339	FILSIX	SW	20001	29086 6	49086	*20001
3340		MLCWB	19999,39999	29092 12	49092	D1999939999P
33404		MLCWS	SETUPA,20000	29104 12	49104	D57900200007
33499	*		CLEAR & SET CMP FIELDS A & B			
3350	SETFAB	CS	CMPLAA	29116 6	49116	/57899
3351		MRCG	SETUPA,CMPFDA	29122 12	49122	D5790057800\$
33549	*					
3355		CS	CMPLAB	29134 6	49134	/58099
3356		MRCG	SETUPB,CMPFDB	29140 12	49140	D5810058000\$
3399	*					
3400	*		COMMON CHECKING AREA- ALL SECTIONS,EXCEPT S-5			
3408	COCHKA	SW	CMPFDA,CMPFDB	29152 11	49152	,5780058000
34099	*					
3413	SW1213	NOPWM		29163 1	49163	N
3414		B	HAFSEL	29164 7	49164	J52398
3415	SW613A	NOPWM		29171 1	49171	N
3416		B	BYPDIS	29172 7	49172	J49186
3417		B	DISCRM	29179 7	49179	J49205
3420	BYPDIS	BCE	CPTSET,TAD8,1	29186 12	49186	850735410081
3421		B	DISCRM	29198 7	49198	J49205
3429	*					
3430	*		DISCRIMINATION CHECKING AREA- ALL SECTIONS,EXCEPT S-5			
3431	*					
3435	DISCRM	MLNA	INCP,CCCMP&5	29205 12	49205	D5459749258/
3436		MLNA	&CMPLAA,CCCMP&10	29217 12	49217	D5830549263/

PGLIN	LABEL	OPCOD	OPERAND	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
34362		CW	CCREV&1		CLEAR BINARY CCREV SW	29229	6 49229	050227
3437		SW	CMPFDA&1		SET WM FOR INIT 0000 BYP CMP	29235	6 49235	057801
3438		CW	INTBYP&1		RESET INTBYP SW	29241	6 49241	049371
3439								
3440		CW	SWSC&1			29247	6 49247	049430
3441	CCCCMP	C	00000,CPLAA		TEST BLOCK CHARS EQL	29253	11 49253	C0000057899
3442		BU	SCSET		ERROR- WITHIN THIS GROUP	29264	7 49264	J492777
3443		SW	SWSC&1		SET SCCMP BYPASS SWITCH	29271	6 49271	049430
3444								
3445	SCSET	SW	SCCMP&6,CHKWM&6			29277	11 49277	04944349469
34454		CW	CMPFDA&1		CLEAR WM AFTER 0000 BYP CMP	29288	6 49288	057801
3446		MLNWB	CCCMP&5,SCCMP&10		SET SCCMP B ADDR	29294	12 49294	D4925849447N
3447		S	CONRED,SCCMP&10		REDUCE TO CHAR 1	29306	11 49306	S5457249447
3448		MLNWB	SCCMP&10,CHKWM&10		SET CHKWM B ADDR	29317	12 49317	D4944749473N
34484		MLNB	CCCMP&5,HTUADD		SET CCCMP HTU ORDERS IN HTUADD	29329	12 49329	D4925857725J
3449		SW	CMPSET&1			29341	6 49341	049418
3450		MLNWB	CCCMP&10,CMPSET&5		SET CMPSET A ADDR	29347	12 49347	D4926349422N
3451		S	CONRED,CMPSET&5		REDUCE TO CHAR 1	29359	11 49359	S5457249422
34519								
3452	INTBYP	NOPWM			INIT 0000 ADDR BYPASS CHK SW	29370	1 49370	N
34524		B	CMPSET			29371	7 49371	J49417
3453		A	CON1,CMPSET&5		ADD 1 TO CHK ADDRS	29378	11 49378	A5713149422
34532		A	CON1,SCCMP&10			29389	11 49389	A5713149447
34534		A	CON1,CHKWM&10			29400	11 49400	A5713149473
34536		SW	INTBYP&1		SET INTBYP SW	29411	6 49411	049371
34538								
34539								
3454	CMPSET	MLCS	CMPFDA,SCCMP&11		SET SCCMP D MOD CHR	29417	12 49417	D57800494483
3455	SWSC	NOPWM			SWITCH- BYPASS SCCMP	29429	1 49429	N
3456		B	CHKWM			29430	7 49430	J49463
34569								
3457	SCCMP	BCE	CHKWM,00000,0M ^G		TEST EACH CHAR EQL	29437	12 49437	B49463000000M ^G
3458		B	NOTEQL		ERROR- THIS CHAR	29449	7 49449	J49482
3459		B	SCINC			29456	7 49456	J50114
34599								
3460	CHKWM	BW	UPWM,00000		TEST EACH CHAR FOR WM	29463	12 49463	V49766000001

PGLIN	LABEL	OPCOD	OPERAND	INSTRUCTION	CT	ADDRS	INSTRUCTION
3461		B	DOWM		29475	7	49475 J49785
3462							
3465	NOTEQL	SBR	VARRET&5		29482	7	49482 G44484B
34654		MLNB	SCCMP&10,COMADD	PLACE SCCMP B ADDR IN COMADD	29489	12	49489 D4944757722J
3466		MLCA	BLITZ,BITTER	RESET BIT BREAKDOWN TO -----	29501	12	49501 D5435053766T
34664		MLCA	BLITZ-4,ISCHAR	RESET ISCHAR TO -----	29513	12	49513 D5434653756T
34669							
3468		B8E	NOTEQ2,SCCMP&11,8	TEST SCCMP D MOD FOR 8 BIT	29525	12	49525 M49544494488
3469		B	NOTEQ4		29537	7	49537 J49575
34699							
3471	NOTEQ2	BCE	S1B8,SCCMP&11, ^G M	TEST FOR GM	29544	12	49544 B4402349448M
3473		BCE	S488,SCCMP&11, ^G	TEST FOR EX PT	29556	12	49556 B4426349448.
3474		B	S78B	MUST BE @	29568	7	49568 J49686
34749							
3476	NOTEQ4	BCE	S288,SCCMP&11,	TEST FOR BLANK	29575	12	49575 B4410349448
3478		BCE	S388,SCCMP&11,V	TEST FOR V	29587	12	49587 B4418349448V
34784		B	S68B	MUST BE C	29599	7	49599 J49606
34789							
3479			SECTIONS 6-7	CHAR C BIT BREAKDOWN			
3480	S68B	MLCA	S658-6,SBCHAR	PLACE WM-C IN T-0	29606	12	49606 D5431053750T
3483		MLCWS	CONS6-24,CORREC	SET WM-C IN CORRECT CHAR STORAGE	29618	12	49618 D5706554368T
34849			CHAR WM-C SHOULD BE W-BA--21				
3485		B	COMWP	TEST FOR WM UP	29630	7	49630 J43331
3487		B	COMBP	B UP	29637	7	49637 J43438
3488		B	COMAP	A UP	29644	7	49644 J43545
3489		B	COM8D	8 DOWN	29651	7	49651 J43595
3490		B	COM4D	4 DOWN	29658	7	49658 J43702
3491		B	COM2P	2 UP	29665	7	49665 J43866
3492		B	COM1P	1 UP	29672	7	49672 J43973
3493		B	PLACAD		29679	7	49679 J44343
35299							
3530			SECTIONS 6-7	CHAR @ BIT BREAKDOWN			
3531	S78B	MLCA	S75B-6,SBCHAR	PLACE ---@ IN T-0	29686	12	49686 D5432053750T
3533		MLCWS	CONS7-4,CORREC	SET @ IN CORRECT CHAR STORAGE	29698	12	49698 D5711054368T
35349			CHAR ----@ SHOULD BE -C--84--				
3535		B	COMWD	TEST FOR WM DOWN	29710	7	49710 J43274

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
3537		B	COMB0	29717	7	49717 J43381
3538		B	COMAD	29724	7	49724 J43488
3539		B	COM8P	29731	7	49731 J43652
3540		B	COM4P	29738	7	49738 J43759
3541		B	COM2D	29745	7	49745 J43809
3542		B	COM1D	29752	7	49752 J43916
3543		B	PLACAD	29759	7	49759 J44343
3578	*					
3579	*					
3581	UPWM	B8E	PICKWM,SCCMP&11,8	29766	12	49766 W49811494488
3582		B	SCINC	29778	7	49778 J50114
3584	COWM	B8E	SCINC,SCCMP&11,8	29785	12	49785 W50114494488
3585		B	DROPWM	29797	7	49797 J49953
35854		B	SCINC	29804	7	49804 J50114
35859	*					
3586	PICKWM	SBR	VARRET&5	29811	7	49811 G444848
35862		MLCA	BLITZ,BITTER	29818	12	49818 D5435053766T
35864		MLCS	PICK,BITTER-7	29830	12	49830 D54337537593
35866		MLNB	CHKWM&10,COMADD	29842	12	49842 D4947357722J
35869	*					
35874		BCE	PWM4,SCCMP&11,M ^G	29854	12	49854 84991649448M
35884		BCE	PWM3,SCCMP&11,0	29866	12	49866 84989749448.
35889	*					
3589	PWM23	MLCA	S7SB,ISCHAR	29878	12	49878 D5432653756T
35894		B	PWM5	29890	7	49890 J49928
3590	PWM3	MLCA	S4SB,ISCHAR	29897	12	49897 D5430653756T
35904		B	PWM5	29909	7	49909 J49928
3591	PWM4	MLCA	S1SB,ISCHAR	29916	12	49916 D5427653756T
35912	PWM5	MLNA	COMADD,CLERR&5	29928	12	49928 D5772249945/
35914	CLERR	CW	00000	29940	6	49940 000000
35916		B	ADDRPL	29946	7	49946 J50088
35919	*					
3592	CROPWM	SBR	VARRET&5	29953	7	49953 G444848
35922		MLCA	BLITZ,BITTER	29960	12	49960 D5435053766T
35924		MLCS	DROP,BITTER-7	29972	12	49972 D54338537593
35926		MLNB	CHKWM&10,COMADD	29984	12	49984 D4947357722J

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
35929	*					
35934		BCE	DWM4,SCCMP&11,	29996 12	49996	B5005849448
35944		BCE	DWM3,SCCMP&11,V	30008 12	50008	B5003949448V
35949	*					
3595	DWM23	MLCA	S6SB,ISCHAR	30020 12	50020	D5431653756T
35954		B	DWM5	30032 7	50032	J50070
3596	DWM3	MLCA	S3SB,ISCHAR	30039 12	50039	D5429653756T
35964		B	DWM5	30051 7	50051	J50070
3597	DWM4	MLCA	S2SB,ISCHAR	30058 12	50058	D5428653756T
35972	DWM5	MLNA	COMADD,STERR&5	30070 12	50070	D5772250087/
35974	STERR	SW	00000	30082 6	50082	,00000
3599	*					
3600	ADDRPL	MLNA	COMADD,ERRADD	30088 12	50088	D5772253744/
3601		B	CHDET	30100 7	50100	J41300
3602		B	ERRIND	30107 7	50107	J44393
3639	*					
3640	SCINC	C	SCCMP&10,HTUADD	30114 11	50114	C4944757725
3641		BE	CCINC	30125 7	50125	J50179S
3642	*					
3643		A	CON1,SCCMP&10	30132 11	50132	A5713149447
36434		A	CON1,CMPSET&5	30143 11	50143	A5713149422
3644		A	CON1,CHKWM&10	30154 11	50154	A5713149473
3645		BNQ	ITR	30165 7	50165	J41100Q
36459	*	B	CMPSET	30172 7	50172	J49417
3646	CCINC	CH	SWSC&1	30179 6	50179	D49430
3647		C	CCCMP&3,NINES-2	30185 11	50185	C4925654541
3648		BE	CCITH	30196 7	50196	J50315S
36489	*					
3649	CCINCA	A	CONM,CCCMP&5	30203 11	50203	A5457749258
3650		BCE	CCNREV,CCCMP&3,5	30214 12	50214	B50284492565
36509	*					
3651	CCREV	NOPWM	BINARY SHIFT SW	30226 1	50226	N
36512		B	CCREV1	30227 7	50227	J50259
3652		SW	CCREV&1	30234 6	50234	,50227
36522		MLNA	&CMPLAB,CCCMP&10	30240 12	50240	D5831049263/

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
3653		B	CCOMP	30252	7 50252	J49253
3654	CCREVI	CW	CCREV&1 CLEAR CCREV SW	30259	6 50259	D50227
36542		MLNA	&CMPLAA,CCOMP&10 SET CCCMP 8 ADDR LO	30265	12 50265	D5830549263/
3655		B	CCOMP	30277	7 50277	J49253
36559	*					
3656	CCNREV	BCE	CCOMP,CCOMP&2,2 NO SHIFT IF -2----	30284	12 50284	849253492552
3657		BCE	CCOMP,CCOMP&2,7 NO SHIFT IF -7----	30296	12 50296	849253492557
3658		B	CCREV	30308	7 50308	J50226
3659	*					
3662	CCITH	BCE	CCITH5,MEMSEL,3 TEST FOR 40K DESIG	30315	12 50315	850346412573
3664	*					
3665		BCE	SCMPLT,CCOMP&1,3 TEST TTH ORDER OF CCCMP FOR 3	30327	12 50327	844789492543
3667		B	CCINCA	30339	7 50339	J50203
3668	*					
3669	CCITH5	BCE	SCMPLT,CCOMP&1,1 TEST TTH ORDER FOR 1	30346	12 50346	844789492541
3670		B	CCINCA	30358	7 50358	J50203
3798	*					
3799	*		TABLE SEARCH ROUTINE - FOR ACTUAL ERROR CHAR			
3800	TABSEA	SBR	SEARET&5 SET RETURN BR FROM TABLE SEARCH30365	7 50365	7 50365	G507338
3801		MLCA	BLITZ-4,ISCHAR SET ISCHAR TO ----	30372	12 50372	D5434653756T
3802		MLCWA	BLITZ-2,SEARCH SET SEARCH ARGUMENT TO -----	30384	12 50384	D5434857717X
38049	*					
38099	*					
3810		MLNA	COMADD,JAC&10 SET BIT INTERROG ADDRESSES	30396	12 50396	D5772250490/
3811		MLNA	COMADD,LAC&10	30408	12 50408	D5772250521/
3812		MLNA	COMADD,NAC&10	30420	12 50420	D5772250552/
3813		MLNA	COMADD,PAC&10	30432	12 50432	D5772250583/
3814		MLNA	COMADD,RAC&10	30444	12 50444	D5772250614/
3815		MLNA	COMADD,TAC&10	30456	12 50456	D5772250645/
3816		MLNA	COMADD,VAC&10	30468	12 50468	D5772250676/
38199	*					
3820	JAC	BW	KAC,0 TEST FOR WM	30480	12 50480	V50499000001
3821		B	LAC	30492	7 50492	J50511
3822	KAC	MLCA	S258-8,ISCHAR-2 PLACE WM IN ISCHAR WM---	30499	12 50499	D5427853754T
38229	*					
3823	LAC	B8E	MAC,0,- TEST FOR 8 BIT	30511	12 50511	W5053000000--

PGLIN	LABEL	OPCOD	OPERAND	TEST FOR A BIT	CT	ADDRS	INSTRUCTION
3824		B	NAC		7	50523	J50542
3825	MAC	MLCS	CON1,SEARCH-5	1-----	12	50530	D57131577123
3826	NAC	8BE	OAC,0,0B		12	50542	W5056100000B
3827		B	PAC		7	50554	J50573
3828	OAC	MLCS	CON1,SEARCH-4	-1-----	12	50561	D57131577133
3829	PAC	8BE	QAC,0,0B		12	50573	W5059200000B
3830		B	RAC		7	50585	J50604
3831	GAC	MLCS	CON1,SEARCH-3	--1----	12	50592	D57131577143
3832	RAC	8BE	SAC,0,0,4		12	50604	W50623000004
3833		B	TAC		7	50616	J50635
3834	SAC	MLCS	CON1,SEARCH-2	---1---	12	50623	D57131577153
3835	TAC	8BE	UAC,0,0,2		12	50635	W50654000002
3836		B	VAC		7	50647	J50666
3837	UAC	MLCS	CON1,SEARCH-1	----1--	12	50654	D57131577163
3838	VAC	8BE	WAC,0,0,1		12	50666	W50685000001
3839		B	LOOKUP		7	50678	J50697
3840	WAC	MLCS	CON1,SEARCH	-----1	12	50685	D57131577173
3849	*						
3845	LOOKUP	LE	SEARCH,1LEYAB		12	50697	T57717577112
3846		SBR	PLACIS65		7	50709	G50721B
3847	PLACIS	MLCS	00000,ISCHAR		12	50716	D00000537563
3848	SEAR1	B	00000		7	50728	J00000
3999	*						
4000	*						
4001	*						
4002	CPTSET	CH	RESW361		6	50735	#51513
4005		BCE	SWISH,MEMSEL,3		12	50741	B50766412573
40059	*						
4006		SW	RESW361		6	50753	#51513
4007		B	SLASH		7	50759	J50777
4010	SWISH	SW	REGSW261,REGSW361		11	50766	#5169851731
40148	*						
40149	*						
4015	SLASH	8BE	SABRE,CMPFDA,/		12	50777	W5082057800/
40159	*						
4016		BCE	SWORL,CMPFDA,		12	50789	#5083257800

SECTIONS 6-7 8-9 10-11 COMPLEMENTING SETUP AREA
 CLEAR MEMORY LIMIT SW
 TEST FOR 40K DESIG
 SET MEMORY LIMIT REGENERATION CHK SWITCHES
 SET FOR 60K OR GRTR
 TEST CMPFLD CHAR FOR A AND 1 B130777 12 50777 W5082057800/
 MUST BE SECTION 7,9,OR 11 - CHAR IS BL,EP,OR @
 TEST FOR BLANK

PGLIN	LABEL	OPCOD	OPERAND	TEST FOR EX PT	CT	ADDRS	INSTRUCTION
4017	*	BCE	SWORDH,CMPFDA,0	TEST FOR EX PT	30801	12 50801	85085057800.
4018	*	B	SWORDH	MUST BE 0	30813	7 50813	J50850
40189	*	BCE	MUST BE SECTION 6,8,OR 10 - CHAR IS GM,V,OR C				
4019	SABRE	BCE	SWORDH,CMPFDA,0	TEST FOR GM	30820	12 50820	85085057800M ^G
40199	*			MUST BE V OR C			
4020	SWORDL	SW	CMPFDA01,CMPFDA02	SET WM-S AT CMPFDA 1-2	30832	11 50832	,5780157802
4021	*	B	RESALT		30843	7 50843	J50861
4022	SWORCH	SW	CMPFDB01,CMPFDB02	SET WM-S AT CMPFDB 1-2	30850	11 50850	,5800158002
40248	*						
40249	*						
4025	RESALT	CW	ALTER101,ALTER201	RESET ALL ALTERNATE SWITCHES	30861	11 50861	05095051001
4026	*	CW	ALTER301,ALTER401		30872	11 50872	05147351795
4027	*	MLNA	C0001,HBLAST010	SET INIT ADDR 0001	30883	12 50883	05455850967/
4028	*	MLNA	C0001,LBLAST010		30895	12 50895	05455850986/
4029	*	MLNA	C0001,FILTER05		30907	12 50907	05455850993/
4030	*	MLNA	C0001,RECPTL010		30919	12 50919	05455851812/
4031	*	MLNA	C0001,RECPTH010		30931	12 50931	05455851831/
4032	*	CW	SHIFT01	RESET BINARY SHIFT SWITCH	30943	6 50943	052094
40348	*						
40349	*						
4035	ALTER1	NOPWM		ALTERNATE SWITCH-1	30949	1 50949	N
4036	*	B	LBLAST		30950	7 50950	J50976
40369	*						
4037	HBLAST	MLCWS	CMPFDB02,0C001	ONE CHAR CMLPT M-L	30957	12 50957	058002000017
4039	*	B	FILTER		30969	7 50969	J50988
40399	*						
4040	LBLAST	MLCWS	CMPFDA02,0C001	ONE CHAR CMLPT L-H	30976	12 50976	057802000017
40449	*						
4045	FILTER	MLCWS	00001,CATCH	ONE CHAR FILTER MOVE	30988	12 50988	000001543677
40498	*						
40499	*						
4050	ALTER2	NOPWM		ALTERNATE SWITCH-2	31000	1 51000	N
4051	*	B	SETLOW		31001	7 51001	J51027
4052	*	MLCS	CMPFDB,SGLCMP011	SET HCMP CHAR 0 MOD	31008	12 51008	058000511093
4053	*	B	VALSET		31020	7 51020	J51039
4054	SETLW	MLCS	CMPFDA,SGLCMP011	SET LCMP CHAR 0 MOD	31027	12 51027	057800511093

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
40549	* VALSET	CW	REGENE&I	31039	6 51039	#51459
4055		SW	SGLCMP&6,WMCHK&6	31045	11 51045	,5110451130
4056		MLNWB	FILTER&5,SGLCMP&10	31056	12 51056	D5099351108N
4057		MLNWB	SGLCMP&10,WMCHK&10	31068	12 51068	D5110851134N
40594	* ZADBYP	C	SGLCMP&10,ZER0ES	31080	11 51080	C5110854548
40595		BE	REGENE	31091	7 51091	J51458S
40599	* SGLCMP	BCE	WMCHK,00000,M ^G	31098	12 51098	85112400000M
4060		B	UNEQL	31110	7 51110	J51181
4061		B	BYPRG	31117	7 51117	J51446
4062		BW	WMUP,00000	31124	12 51124	V51162000001
4063	WMCHK					
40649	* SGLCMP	BCE	WMCHK,00000,M ^G	31136	12 51136	W51446511098
4065		B	BYPRG,SGLCMP&11,8	31148	7 51148	J51298
4066		B	WMCROP	31155	7 51155	J51446
4067		B	BYPRG	31174	7 51174	J51446
4068	WMUP	BBE	WMPICK,SGLCMP&11,8	31162	12 51162	W51372511098
4069		B	BYPRG	31174	7 51174	J51446
40798	* SGLCMP	SBR	VARRET&5	31181	7 51181	G444848
40799		MLCA	BLITZ,BITTER	31188	12 51188	D5435053766T
4080	UNEQL	MLCA	BLITZ-4,ISCHAR	31200	12 51200	D5434653756T
4081		MLNB	SGLCMP&10,COMADD	31212	12 51212	D5110857722J
4082		BBE	UNEQL1,SGLCMP&11,8	31224	12 51224	W51267511098
4083		B	CHAR IS BLANK,V,OR C - IF NO 8			
4084		BCE	S288,SGLCMP&11,8	31236	12 51236	B4410351109
4085		BCE	S388,SGLCMP&11,V	31248	12 51248	B4418351109V
4086		B	S688	31260	7 51260	J49606
4087		B	CHAR IS GM,EX PT,OR @- IF 8 BIT			
40879	* SGLCMP	BCE	S188,SGLCMP&11,M ^G	31267	12 51267	B4402351109M ^G
4088	UNEQL1	BCE	S488,SGLCMP&11,8	31279	12 51279	B44263511098
4089		B	S788	31291	7 51291	J49686
4090		B	CHAR IS GM,EX PT,OR @- IF 8 BIT			
40998	* SGLCMP	BCE	S188,SGLCMP&11,M ^G	31267	12 51267	B4402351109M ^G
40999		BCE	S488,SGLCMP&11,8	31279	12 51279	B44263511098
40999		B	S788	31291	7 51291	J49686

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDR	INSTRUCTION
40999	*					
4100	WMCR0P	SBR	VARRET65	31298	7 51298	G444848
4101		MLCA	BLITZ,BITTER	31305	12 51305	D5435053766T
4102		MLCS	DROP,BITTER-7	31317	12 51317	D54338537593
4103		MLNB	WMCHK610,COMADD	31329	12 51329	D5113457722J
41049	*					
4105		BCE	DWM4,SGLCMP611,	31341	12 51341	85005851109
4106		BCE	DWM3,SGLCMP611,V	31353	12 51353	85003951109V
4107		B	DWM23	31365	7 51365	J50020
41098	*					
41099	*					
4110	WMPICK	SBR	VARRET65	31372	7 51372	G444848
4111		MLCA	BLITZ,BITTER	31379	12 51379	D5435053766T
4112		MLCS	PICK,BITTER-7	31391	12 51391	D54337537593
4113		MLNB	WMCHK610,COMADD	31403	12 51403	D5113457722J
41149	*					
4115		BCE	PWM4,SGLCMP611, ^G M	31415	12 51415	84991651109M ^G
4116		BCE	PWM3,SGLCMP611, ^G	31427	12 51427	84989751109 ^G
4117		B	PWM23	31439	7 51439	J49878
41198	*					
41199	*					
4130	BYPREG	BCE	ALTER4,TAD12,1	31446	12 51446	851794410121
4140	REGENT	NOPWM		31458	1 51458	N
4141		B	REGMOD	31459	7 51459	J51637
4142		SM	REGENT61	31466	6 51466	J51459
41449	*					
4145	ALTER3	NOPWM	SETUP REGEN LINE CHK CHAR ADDR AND SWITCHES	31472	1 51472	N
4146		B	SETHI	31473	7 51473	J51499
4147		MLCS	CMPFDA,SGLCMP611	31480	12 51480	D57800511093
4148		B	REREG	31492	7 51492	J51511
4149	SETHI	MLCS	CMPFDB,SGLCMP611	31499	12 51499	D58000511093
41499	*					
4150	REREG	NOP		31511	1 51511	N
4153	RESW3	NOPWM	60K MEM SW	31512	1 51512	N
4154		B	REREG2	31513	7 51513	J51527
4155		B	REREG3	31520	7 51520	J51538

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
41579	.					
4158	RREG2	CW	REGSW2&1,REGSW3&1	31527 11	51527	D5169851731
4159	RREG3	CW	REGSW0&1,REGSW1&1	31538 11	51538	D5163951672
4160	REGSAC	HNQ	ITH	31549 7	51549	J41100Q
4161		BCE	SAC1,FILTER&1,0	31556 12	51556	B51593509890
4162		BBE	SAC2,FILTER&1,2	31568 12	51568	M51606509892
4163		SW	REGSW1&1	31580 6	51580	,51672
4164	SAC1	B	REGMOD	31586 7	51586	J51637
4165		SW	REGSW0&1	31593 6	51593	,51639
41659	.	B	REGMOD	31599 7	51599	J51637
4166	SAC2	BBE	SAC3,FILTER&1,1	31606 12	51606	M51631509891
4167		SW	REGSW2&1	31618 6	51618	,51698
4168		B	REGMOD	31624 7	51624	J51637
4169	SAC3	SW	REGSW3&1	31631 6	51631	,51731
41799	.					
4180	REGMOD	NOP		31637 1	51637	N
41849	.					
4185	REGSW0	NOPWM		31638 1	51638	N
4186		B	REGSW1	31639 7	51639	J51671
4187		SW	REGSW0&1	31646 6	51646	,51639
4188		MLNS	S1-1,TTFIX	31652 12	51652	D57212543651
4189		B	REGFIX	31664 7	51664	J51763
41899	.					
4190	REGSW1	NOPWM		31671 1	51671	N
4191		B	REGSW2	31672 7	51672	J51697
4192		SW	REGSW1&1	31679 6	51679	,51672
4193		MLNS	S1,TTFIX	31685 12	51685	D57213543651
4200	REGSW2	NOPWM		31697 1	51697	N
4201		B	REGSW3	31698 7	51698	J51730
4202		SW	REGSW2&1	31705 6	51705	,51698
4203		MLNS	S2,TTFIX	31711 12	51711	D57215543651
4204		B	REGFIX	31723 7	51723	J51763
4205	REGSW3	NOPWM		31730 1	51730	N
4206		B	ALTER4	31731 7	51731	J51794
4207		SW	REGSW3&1	31738 6	51738	,51731

STRATEGIC INQUIRY-----

TEST FILTER FOR 0-----

TEST FOR 2 BIT

IS 1-----

IS 0-----

TEST FOR ODD TTH

IS 2-----

IS 3-----

REGENERATION LINE CHAR CHK SWITCHES

PLACE 0-----

PLACE 1-----

PLACE 2-----

GO TO RECOMPLEMENT

PGLIN	LABEL	OPCODE	OPERAND	PLACE 3----	CT	ADDRS	INSTRUCTION
4208		MLNS	S3,TTTHFIX		31744	12	51744 D57217543651
4209		B	REGFIX		31756	7	51756 J51763
42299							
4230	REGFIX	MLNS	TTTHFIX,SGLCMP&6	SET SGLCMP TTH ORDER	31763	12	51763 D54365511041
4231		MLNS	TTTHFIX,WMCCHK&6	SET WMCCHK TTH ORDER	31775	12	51775 D54365511301
4232		B	ZACBYP		31787	7	51787 J51080
42398							
42399							
4240	ALTER4	NOPWM		ALTERNATE SWITCH-4	31794	1	51794 N
4241		B	RECPH		31795	7	51795 J51821
4242	RECPTL	MLCWS	CMPFDA&2,0C001	RECPLMT 1 CHAR L-H	31802	12	51802 D57802000017
4244		B	DBLINC		31814	7	51814 J51833
4245	RECPTH	MLCWS	CMPFDB&2,00001	RECPLMT 1 CHAR H-L	31821	12	51821 D58002000017
42499							
4250	CBLINC	CW	REGEN&1		31833	6	51833 B51459
4251		C	FILTER&5,NINES	TEST FILTER A ADDR FOR -9999	31839	11	51839 C5099354543
4252		BE	FITTH		31850	7	51850 J51926S
42529							
4253	AD0002	A	CON1,MBLAST&10	ADD 1 TO ALL ADDRS	31857	11	51857 A5713150967
4254		A	CON1,LBLAST&10		31868	11	51868 A5713150986
4255		A	CON1,FILTER&5		31879	11	51879 A5713150993
4256		A	CON1,RECPTL&10		31890	11	51890 A5713151812
4257		A	CON1,RECPTH&10		31901	11	51901 A5713151831
4258		BNQ	ITR	STRATEGIC INQUIRY-----	31912	7	51912 J41100Q
42599		B	ALTSET		31919	7	51919 J51976
4262	FITTH	BCE	FITTH5,MEMSEL,3	TEST FOR 40K DESIG	31926	12	51926 B51957412573
42649							
4265		BCE	CPTCLT,FILTER&1,3	TEST FILTER TTH ORDER FOR 3	31938	12	51938 B52171509893
4271		B	AD0002		31950	7	51950 J51857
42719							
4272	FITTH5	BCE	CPTCLT,FILTER&1,1	TEST TTH ORDER FOR 1	31957	12	51957 B52171509891
4273		B	AD0002		31969	7	51969 J51857
42999							
4300	ALTSET	BCE	ALSO1,FILTER&5,5	TEST FOR ----5	31976	12	51976 B52007509935
4301		BCE	ALSO2,FILTER&5,0	TEST FOR ----0	31988	12	51988 B52038509930

S

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
4302		B	ALTER1	32000	7 52000	J50949
4303	ALSO1	BCE	SHIFT,FILTER&4,2	32007	12 52007	B52093509922
4304		BCE	SHIFT,FILTER&4,7	32019	12 52019	B52093509927
4305		B	ALTER1	32031	7 52031	J50949
4306	ALSO2	BCE	ALSO3,FILTER&4,0	32038	12 52038	B52057509920
4307		B	ALTER1	32050	7 52050	J50949
4308	ALSO3	C	FILTER&3,C25	32057	11 52057	C5099157257
4309		BE	ALTER1	32068	7 52068	J50949S
4310		C	FILTER&3,C75	32075	11 52075	C5099157259
4311		BE	ALTER1	32086	7 52086	J50949S
43199	*					
4320	SHIFT	NOPWM		32093	1 52093	N
4321		B	CLALT	32094	7 52094	J52136
43219	*					
4322		SW	SHIFT&1	32101	6 52101	,52094
4323		SW	ALTER1&1,ALTER2&1	32107	11 52107	,5095051001
4324		SW	ALTER3&1,ALTER4&1	32118	11 52118	,5147351795
4325		B	ALTER1	32129	7 52129	J50949
4326	CLALT	CW	SHIFT&1	32136	6 52136	B52094
4327		CW	ALTER1&1,ALTER2&1	32142	11 52142	B5095051001
4328		CW	ALTER3&1,ALTER4&1	32153	11 52153	B5147351795
4329		B	ALTER1	32164	7 52164	J50949
43498	*					
43499	*					
4350	CPTCLT	NOP		32171	1 52171	N
4379	BYTYPE	BNQ	ITR	32172	7 52172	J41100Q
4380		BCE	*&13,TAD6,1	32179	12 52179	B52203410061
4381		BCE	TABTES,TAD0,1	32191	12 52191	B52220410001
4382		WCP	SECCIN	32203	10 52203	M*1053818W
43829	*	BAI	*-16	32213	7 52213	R52203M
4383	TABTES	MRCWG	SECCING2,LEASEC	32220	12 52220	D5382054626L
4384		BCE	TABPAT,TAD6,1	32232	12 52232	B46841410061
43999	*					
4400	SC11RE	NOPWM		32244	1 52244	N
4401		B	REPLIC	32245	7 52245	J52379

S

D

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
4402	SCIORE	NOPWM	S-10C SWITCH	32252	1 52252	N
4403		B	REPL0C	32253	7 52253	J52360
4404	SC9RE	NOPWM	S-9C SWITCH	32260	1 52260	N
4405		B	REP9C	32261	7 52261	J52341
4406	SC8RE	NOPWM	S-8C SWITCH	32268	1 52268	N
4407		B	REP8C	32269	7 52269	J52322
4408	SC7RE	NOPWM	S-7C SWITCH	32276	1 52276	N
4409		B	REP7C	32277	7 52277	J52303
4419						
4415		BCE	S6SET,TAD1,1	32284	12 52284	847873410011
4416		B	S7SET	32296	7 52296	J47951
4417	REP7C	BCE	S7SET,TAD1,1	32303	12 52303	847951410011
4418		B	S8SET	32315	7 52315	J48035
4419	REP8C	BCE	S8SET,TAD1,1	32322	12 52322	848035410011
4420		B	S9SET	32334	7 52334	J48119
4421	REP9C	BCE	S9SET,TAD1,1	32341	12 52341	848119410011
4422		B	S10SET	32353	7 52353	J48203
4423	REP10C	BCE	S10SET,TAD1,1	32360	12 52360	848203410011
4424		B	S11SET	32372	7 52372	J48287
4425	REP11C	BCE	S11SET,TAD1,1	32379	12 52379	848287410011
4426		B	S12SET	32391	7 52391	J48371
4498						
44999						
4501	MAFSEL	MLNA	SECTS 12-13 HALF SELECT CORE BEAT AREA	32398	12 52398	D5719652526/
4502		MLNA	BEAT0,TBA0&10 SET ALL TBA B ADDRS	32410	12 52410	D5720152514/
4503		MLNA	BEAT1,TBA1&10	32422	12 52422	D5720652502/
4504		MLNA	BEAT2,TBA2&10	32434	12 52434	D5721152490/
45099						
4510	BCTSET	MLNB	TEST ADDRESS BEAT AREA	32446	12 52446	D5774054377J
		BNQ	BEACON,BEATCT SET TEST BEAT COUNTER	32458	7 52458	J41100Q
45119			ITR STRATEGIC INQUIRY-----			
4516	MEL60	NOPWM	60K	32465	1 52465	N
4517		B	TBA3	32466	7 52466	J52480
4518		B	TBA1	32473	7 52473	J52504
45199						
4525	TBA3	MLCWS	CONS12,30050	32480	12 52480	D57115300507

S

PGLIN	LABEL	OPCOD	OPERAND	INSTRUCTION	CT	ADDRS	INSTRUCTION
4526	TBAZ	MLCWS	CONS12,20050	ONE CHAR BEAT- TBA	32492 12	52492	D57115200507
4527	TBAI	MLCWS	CONS12,10050		32504 12	52504	D57115100507
4528	TBAO	MLCWS	CONS12,00050		32516 12	52516	D57115000507
45299	*	S	CON1,BEATCT	REDUCE BEAT CTR BY 1	32528 11	52528	S5713154377
4530		BZ	YAXSET	EXIT- IF 00	32539 7	52539	J52560V
4531		BNQ	ITR	STRATEGIC INQUIRY-----	32546 7	52546	J41100Q
4532		B	MEL60		32553 7	52553	J52465
45399	*		SETUP X BASE FOR Y AXIS CHECK				
4540	YAXSET	MLNB	TBA0&10,CURREN	SET CURRENT TBA IN REF AREA	32560 12	52560	D5252657735J
4542		MLNA	MELCTR,CTR2	SET MEM SIZE CTR TO 2 OR 4	32572 12	52572	D5436454370/
4543		SW	WAX&6		32584 6	52584	*52755
4544		MLNA	CURREN,SAX&10	SET SAX X--XX ORDERS	32590 12	52590	D5773552733/
4545		MLNA	CON1-3,SAX&8	SET SAX -XX-- ORDERS TO 00	32602 12	52602	D5712852731/
4547		MLNWB	SAX&10,WAX&10	SET WAX TO SAX	32614 12	52614	D5273352759N
4550		CH	YAXINK&1		32626 6	52626	#52897
4551		B	SAXBYP		32632 7	52632	J52687
45549	*		SETUP Y BASE FOR X AXIS CHECK				
4555	XAXSET	SW	YAXINK&1		32639 6	52639	*52897
4556		SW	WAX&6		32645 6	52645	*52755
4557		MLNA	CON1-3,SAX&10	SET SAX ---XX ORDERS TC 00	32651 12	52651	D5712852733/
4558		MLNA	CURREN-2,SAX&8	SET SAX XXX-- ORDERS	32663 12	52663	D5773352731/
4560		MLNWB	SAX&10,WAX&10	SET WAX TO SAX	32675 12	52675	D5273352759N
45648	*						
45649	*						
4570	SAXBYP	C	SAX&10,CURREN	CMP SAX B ADDR TO CURRENT TBA	32687 11	52687	C5273357735
4571		BE	YAXINK	BYPASS CHAR CHK- IF EQUAL	32698 7	52698	J52896S
4572		C	SAX&10,ZER0ES	CHK SAX B ADDR FOR 00000	32705 11	52705	C5273354548
4573		BE	STACK	BYPASS CHK- IF EQL	32716 7	52716	J52806S
45749	*						
4575	SAX	BCE	WAX,00000,	TEST ALL LINE CHARS FOR NO CHAN32723	12	52723	B5274900000
4576		B	SAXERR	ERROR- THIS CHAR	32735 7	52735	J53398
4577		B	STACK		32742 7	52742	J52806
45799	*						
4580	WAX	BW	WAXBL,00000	TEST ALL LINE WM-S FOR NO CHANG32749	12	52749	V52787000001
4581		BCE	STACK,SAX&11,M	TEST SAX D MOD FOR GM- OK IF EQ32761	12	52761	B5280652734M

PGLIN	LABEL	OPCODE	OPERAND	CT	ADDRS	INSTRUCTION
4582		B	WAXDRP	32773	7	52773 J53510
4583		B	STACK	32780	7	52780 J52806
4584	WAX8L	BCE	STACK,SAX&11,	32787	12	EQ32787 12 52787 85280652734
4585		B	WAXPIK	32799	7	52799 J53460
45999						
4603	STACK	S	S1,CTR2	32806	11	52806 S5721354370
4604		BZ	RESTO	32817	7	52817 J52860V
46049		BNQ	ITR	32824	7	52824 J41100Q
4607		A	S1,SAX&6	1032831	11	52831 A5721352729
4608		A	S1,WAX&6	32842	11	52842 A5721352755
4609		B	SAX	32853	7	52853 J52723
46149						
4619	RESTO	MLNS	CURREN-4,SAX&6	32860	12	52860 D57731527291
4620		MLNS	CURREN-4,WAX&6	32872	12	52872 D57731527551
4621		MLNA	MELCTR,CTR2	32884	12	52884 D5436454370/
46249						
4625	YAXINK	NOPWM	Y AXIS CHK COMPLETE SWITCH	32896	1	52896 N
4626		B	XAXINK	32897	7	52897 J52951
46299			Y AXIS CHECK INCREMENT AREA			
4630		C	SAX&8,NINES-2	32904	11	52904 C5273154541
4631		BE	XAXSET	32915	7	52915 J52639S
46329						
4633		A	S1,SAX&8	32922	11	52922 A5721352731
4634		A	S1,WAX&8	32933	11	52933 A5721352757
4635		B	SAXBYP	32944	7	52944 J52687
46399			X AXIS CHECK INCREMENT AREA			
4640	XAXINK	C	SAX&10,NINES-2	32951	11	52951 C5273354541
46402		BE	RESTBA	32962	7	52962 J52998S
4641		A	S1,SAX&10	32969	11	52969 A5721352733
4642		A	S1,WAX&10	32980	11	52980 A5721352759
4643		B	SAX8YP	32991	7	52991 J52687
46599			RESET ALL TBA ADDR CONTENTS			
4660	RESTBA	SW	TRESCO&6	32998	6	52998 ,53077
4661	MLNWB	MLNWB	TBA0&10,TRESCO&10	33004	12	53004 D5252653081N
4662	MLNA	MLNA	MELCTR,CTR2	33016	12	53016 D5436454370/

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PGLIN	LABEL	OPCODE	OPERAND	12-3-63	CT	ADDRS	INSTRUCTION
4663		BCE	TRESBL,SAX&11,	TEST SAX D MOD FOR A BLANK	33028 12	53028	85305952734
4664		MLNA	6CONS12,TRESCO&5	SET TRESKO A ADDR FOR GM REPLAC33040	12 53040	D5828553076/	
4665		B	*813		33052 7	53052	J53071
4666	TRESBL	MLNA	6CONS13,TRESCO&5	SET TRESKO A ADDR FOR BL REPLAC33059	12 53059	D5829053076/	
46699	*						
4670	TRESKO	MLCMS	CONS13,00001	RESET TBA CONTENTS- ONE CHAR	33071 12	53071	D57116000017
46729	*						
4673	SUBTRE	S	S1,CTR2	REDUCE MEM SIZE CTR BY 1	33083 11	53083	S5721354370
4674		BZ	TBAINK	EXIT- IF 00 GO TO TBAINK	33094 7	53094	J53126V
4675		A	S1,TRESCO&6	ADD 1 TO TTH ORDER	33101 11	53101	A5721353077
		BNQ	ITR	STRATEGIC INQUIRY-----	33112 7	53112	J41100Q
4676		B	TRESKO		33119 7	53119	J53071
46999	*			TEST BEAT ADDR INCREMENT AREA			
4700	TBAINK	C	TBAO&8,NINES-2	TEST TBA FOR -99---	33126 11	53126	C5252454541
4701		BE	SCMPLT	SECTION COMPLETE	33137 7	53137	J44789S
4702		MLNB	TBAO&8,CACHE	MOVE TBA -XX-- TO CMP AREA	33144 12	53144	D5252457261J
47029	*						
4703		A	S1,CURREN-2	ADD 1 TO -XX--	33156 11	53156	A5721357733
47032		A	S1,CACHE	ADD 1 TO CACHE	33167 11	53167	A5721357261
4704		C	C25,CACHE	TEST FOR -25---	33178 11	53178	C5725757261
4705		BP	TEST50	HI	33189 7	53189	J53221U
4706		BE	UPS25	EQL	33196 7	53196	J53296S
4707	UPADD1	A	S1,CURREN	ADD 1 TO ---XX	33203 11	53203	A5721357735
4708		B	UPDATE		33214 7	53214	J53343
47089	*						
4709	TEST50	C	C50,CACHE	TEST FOR -50---	33221 11	53221	C5724757261
4710		BH	TEST75	HI	33232 7	53232	J53264U
4710		BE	UPS50	EQL	33239 7	53239	J53314S
4712	UPSUB1	S	S1,CURREN	SUB 1 FROM ---XX	33246 11	53246	S5721357735
4713		B	UPDATE		33257 7	53257	J53343
47139	*						
4714	TEST75	C	C75,CACHE	TEST FOR -75---	33264 11	53264	C5725957261
4715		BP	UPSUB1	HI	33275 7	53275	J53246U
4716		BE	UPS75	EQL	33282 7	53282	J53332S
4717		B	UPADD1		33289 7	53289	J53203
47179	*						

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
4718	UPS25	S	C25,CURREN	33296	11 53296	S5725757735
4719		B	UPDATE	33307	7 53307	J53343
4720	UPS50	A	C50,CURREN	33314	11 53314	A5724757735
4721		B	UPDATE	33325	7 53325	J53343
4722	UPS75	S	C75,CURREN	33332	11 53332	S5725957735
47229	*					
4723	UPDATE	MLNA	CURREN,TBA0&10	33343	12 53343	D5773552526/
4724		MLNA	CURREN,TBA1&10	33355	12 53355	D5773552514/
4725		MLNA	CURREN,TBA2&10	33367	12 53367	D5773552502/
4726		MLNA	CURREN,TBA3&10	33379	12 53379	D5773552490/
4729		B	BCTSET	33391	7 53391	J52446
47499	*					
4750	SAXERR	SBR	VARRET&5	33398	7 53398	G444848
4751		MLNB	SAX&10,COMADD	33405	12 53405	D5273357722J
4752		MLCA	BLITZ,BITTER	33417	12 53417	D5435053766T
4753		MLCA	BLITZ-4,ISCHAR	33429	12 53429	D5434653756T
4754		BCE	S18B,SAX&11,M	33441	12 53441	B4402352734M
4755		B	S28B	33453	7 53453	J44103
47599	*					
4760	WAXPIK	SBR	VARRET&5	33460	7 53460	G444848
4761		MLNB	WAX&10,COMADD	33467	12 53467	D5275957722J
4762		MLCA	BLITZ,BITTER	33479	12 53479	D5435053766T
4763		MLCS	PICK,BITTER-7	33491	12 53491	D54337537593
4764		B	PWM4	33503	7 53503	J49916
47699	*					
4770	WAXDRP	SBR	VARRET&5	33510	7 53510	G444848
4771		MLNB	WAX&10,COMADD	33517	12 53517	D5275957722J
4772		MLCA	BLITZ,BITTER	33529	12 53529	D5435053766T
4773		MLCS	DROP,BITTER-7	33541	12 53541	D54338537593
4774		B	DWM4	33553	7 53553	J50058
4775		H		33560	1 53560	.
89998	*					
89999	*		DATA AND CONSTANT FIELD AREAS			
9000		ORG	*EX00			53600
90005		CGORG	*EX00			53600
9001	TEMPOR	DS	I			53600

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
9002		DS	139	33739	53739	
90029	ERRACC	DC	0000000	33744	53744	
9003		DC	a a	33746	53746	
9004	SBCHAR	DC	a-----a	33750	53750	
9005		DC	a a	33752	53752	
90054	ISCHAR	DC	a-----a	33756	53756	
9006		DC	a a	33758	53758	
90064	BITTER	DC	a-----a	33766	53766	
9007		DC	a a	33768	53768	
90074		DC	aCH-a	33771	53771	
9008	CHARNO	DCW	a0a	33772	53772	
90082		DC	a a	33774	53774	
90083		DC	aSS-a	33777	53777	
90084	SENSEG	DC	a a	33778	53778	
90085		DC	a a	33780	53780	
90086		DC	aZ-a	33782	53782	
90087	ZDRIVE	DCW	a a	33783	53783	
90088		DC	a a	33785	53785	
90089	XSG	DC	aXSG-0a	33790	53790	
9009		DC	a a	33792	53792	
90094	XWC	DC	aXWO-0a	33797	53797	
9010		DC	a a	33799	53799	
90104	YSG	DC	aYSG-0a	33804	53804	
9011		DC	a a	33806	53806	
90114	YWC	DC	aYWO-0a	33811	53811	
9012	GM	DCW	aMa	33812	53812	
9015		DC	aS- a,G	33813	53813	
9019	SECCIN	DC	aS- Ca,G	33818	53818	
9020	DESIG	DC	aENTER MEMORY SIZE DIGIT 3,5,7,OR 9a,G	33824	53824	
9024	TESTS	DC	aTESTS 0001-0999 AREA OFa,G	33859	53859	
9030	MEMSIZ	DC	a 60K,80K,OR 100K MEMORYa,G	33885	53885	
9032	PARITY	DC	aIF PARITY ERRORS EXIST-a,G	33909	53909	
90323	RESTAT	DC	aSET CHECK CONTROL SWITCH TO RESTARTa,G	33933	53933	
9033	INHIB	DC	aSET PRINT CONTROL SWITCH TO INHIBITa,G	33969	53969	

PGLIN	LABEL	OPCODE	OPERAND	CT	ADDRS	INSTRUCTION
9035	STATUS	DC	@TAD STATUS-a,G	34005	11	54005
9038	EXMESS	DC	@RESET CHK & PRINT CNTRL SW TO NORMAL,G	34017	36	54017
9040	AUTSEC	DC	@AUTO SECT SEL,G	34054	13	54054
9042	ENTER	DC	@ENTER 2 DIGIT SECTION #a,G	34068	23	54068
9050	QCKRUN	DC	@QUICK RUN,G	34092	9	54092
9060	SSERTY	DC	@A-00000,C-00000,G SECTION 5- ERROR T-0	34102	15	54102
9070	PASS	DC	@PASS a	34118	5	54118
9071	PASSCT	DCW	@000- CS4a,G	34123	9	54123
9080	NOERTA	DC	@NO ERRORS TABULATED,G	34133	19	54133
9082	NOTPER	DC	@NO TABULATION PERFORMED,G	34153	23	54153
9084	NOBFS	DC	@NO CHAN PRINTER AND/OR BUFF SIZE SPEC ON CTL CD,G34177 47	34225	22	54225
9090	REPERR	DC	@REPEATING ERROR ADDR- a	34251	5	54251
9091	HEPACD	DCW	@00000a	34253	2	54253
90914		DC	a a	34254	4	54254
9092	REPX	DC	@XWO-a	34258	1	54258
9093	REPXWO	DCW	a@a	34260	2	54260
90954		DC	a a	34261	4	54261
9096	REPY	DC	@YWO-a	34265	1	54265
9097	REPYWO	DCW	a@a	34266	1	54266
90994		DCW	a@a	34276	10	54276
9101				34286	10	54286
9102	S1SB	DCW	a---M WM-Ma	34296	10	54296
9103	S2SB	DCW	@WMBL --BLa	34306	10	54306
9104	S3SB	DCW	@WM-V ---Va	34316	10	54316
9105	S4SB	DCW	a---? WM-a	34326	10	54326
91052	S6SB	DCW	@WM-C ---Ca	34331	5	54331
91054	S7SB	DCW	a---a WM-a	34332	1	54332
9106	S5ADCR	DCW	@00000a	34333	1	54333
9110	CHAN1	DC	a@a PERCENT- CHAN 1 NON-OVERLAP X CTL CHAR	34334	1	54334
91102	CHAN1B	DCW	a@a CHAN 1 I/O BRANCH OP	34335	1	54335
9111	CHAN2	DC	a@a LOZENGE- CHAN 2 NON-OVERLAP X CTL CHAR	34336	1	54336
91112	CHAN2B	DCW	a@a CHAN 2 I/O BRANCH OP	34337	1	54337
9115	NOPIA	DCW	a@a	34338	1	54338
9120	PICK	DC	a@a	34339	1	54339
9121	DROP	DC	a@a			
91212	BSEG	DC	a@a			

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
91214	NUFOUR	DCW	040	34340	1	54340
91216	ZD59	DCW	0590	34342	2	54342
9122	BLITZ	DCW	0-----0	34350	8	54350
9125	BLANKS	DCW	0	34360	10	54360
9130	WESCTR	DCW	0000	34362	2	54362
9132	MELCTR	DCW	0000	34364	2	54364
9152	TTHFIX	DC	0	34365	1	54365
9155	CATCH	DC	0--0	34367	2	54367
9160	CORREC	DC	0-0	34368	1	54368
9165	CTR2	DCW	0000	34370	2	54370
9166	BITCTR	DCW	0000	34372	2	54372
9168	BEATCT	DCW	0000000	34377	5	54377
91699	.					
9170	TABCLA	DCW	0	34413	36	54413
9171	.	DC	0	34449	36	54449
91739	.					
9174	TABGAG	DCW	0	34489	40	54489
9175	.	DC	0	34529	40	54529
9201	.					
9208	FA40H	DCW	0359990	34534	5	54534
9210	FA20H	DCW	0199990	34539	5	54539
9213	NINES	DCW	099990	34543	4	54543
9214	ZER0ES	DCW	0000000	34548	5	54548
9216	INTHAF	DCW	0000010	34553	5	54553
9219	.					
9228	C0001	DCW	0000010	34558	5	54558
9229	C20001	DCW	0200010	34563	5	54563
9232	K60	DCW	0 60	34565	2	54565
9233	K40	DCW	0 40	34567	2	54567
9240	CONRED	DCW	0000990	34572	5	54572
9241	CONM	DCW	0001000	34577	5	54577
9242	INFAC2	DCW	0000000	34582	5	54582
9243	INFAC3	DCW	0100000	34587	5	54587
9244	S5INAD	DCW	0000040	34592	5	54592
9245	INCMP	DCW	0000990	34597	5	54597
9301	.					

TEN BLANKS

MEMORY SIZE TAB DIGITS

S-12 S-13 MEM LIM SIZE CTR

RECEIPT AREA FOR CMLPT FILTER MOVES

CORRECTION CHAR STORAGE AREA

TWO POSITION COUNTER

PGLIN	LABEL	OPCODE	OPERAND	AUTO SECT SEL DIGIT	CT	ADDRS	INSTRUCTION
9302	AUTO	DC	a--a		34599	2	54599
9303		DCW	aMa		34600	1	54600
93039	*						
9304	LEADER	DC	aCS46-ERRTAB* FOR SECTION-a		34601	25	54601
93042	LEASEC	DC	a00 aG		34626	3	54626
93044	LEAD	DS	49		34677		54677
93045		DS	1		34678		54678
93049	*						
9305	HEADER	DC	a a		34679	5	54679
9306		DCW	aBP P-1-D P-2-D P-4-D P-8-0a		34719	36	54719
9307	HEAD	DC	a P-A-D P-B-D P-C-D P-W-0a		34755	36	54755
9308		DCW	aMa		34756	1	54756
93099	*						
9320	E01	DC	aCH 0-a		34757	5	54757
9321		DCW	a 0 0 0 0 0 0 0 0a		34797	36	54797
9322	EVEN01	DC	a 0 0 0 0 0 0 0 0a		34833	36	54833
9323		DCW	aMa		34834	1	54834
9324	001	DC	aCH 1-a		34835	5	54835
9325		DCW	a 0 0 0 0 0 0 0 0a		34875	36	54875
9326	0001	DC	a 0 0 0 0 0 0 0 0a		34911	36	54911
9327		DCW	aMa		34912	1	54912
9328	E23	DC	aCH 2-a		34913	5	54913
9329		DCW	a 0 0 0 0 0 0 0 0a		34953	36	54953
9330	EVEN23	DC	a 0 0 0 0 0 0 0 0a		34989	36	54989
9331		DCW	aMa		34990	1	54990
9332	023	DC	aCH 3-a		34991	5	54991
9333		DCW	a 0 0 0 0 0 0 0 0a		35031	36	55031
9334	00023	DC	a 0 0 0 0 0 0 0 0a		35067	36	55067
9335		DCW	aMa		35068	1	55068
9360	LEACSG	DC	aXS a		35069	3	55069
93602		DCW	aYS P-0-D P-1-D P-2-D P-3-D P-4-0a		35111	40	55111
93604	SGLEAD	DC	a P-5-0 P-6-D P-7-D P-8-D P-9-0a		35151	40	55151
93605		DCW	aMa		35152	1	55152
9361	XSGO	DC	aCO-a		35153	3	55153
93612		DCW	a 0 0 0 0 0 0 0 0a		35195	40	55195
93614	GATEO	DC	a 0 0 0 0 0 0 0 0a		35235	40	55235

PGLIN	LABEL	OPCODE	OPERAND	CT	ADDRS	INSTRUCTION
93615		DCM	^G aMa	35236	1	55236
9362	XSG1	DC	aG1-a	35237	3	55237
93622		DCM	a	35279	40	55279
93624	GATE1	DC	^G a	35319	40	55319
93625		DCM	^G aMa	35320	1	55320
9363	XSG2	DC	aG2-a	35321	3	55321
93632		DCM	a	35363	40	55363
93634	GATE2	DC	^G a	35403	40	55403
93635		DCM	^G aMa	35404	1	55404
9364	XSG3	DC	aG3-a	35405	3	55405
93642		DCM	a	35447	40	55447
93644	GATE3	DC	^G a	35487	40	55487
93645		DCM	^G aMa	35488	1	55488
9365	XSG4	DC	aG4-a	35489	3	55489
93652		DCM	a	35531	40	55531
93654	GATE4	DC	^G a	35571	40	55571
93655		DCM	^G aMa	35572	1	55572
9366	XSG5	DC	aG5-a	35573	3	55573
93662		DCM	a	35615	40	55615
93664	GATE5	DC	^G a	35655	40	55655
93665		DCM	^G aMa	35656	1	55656
9367	XSG6	DC	aG6-a	35657	3	55657
93672		DCM	a	35699	40	55699
93674	GATE6	DC	^G a	35739	40	55739
93675		DCM	^G aMa	35740	1	55740
9368	XSG7	DC	aG7-a	35741	3	55741
93682		DCM	a	35783	40	55783
93684	GATE7	DC	^G a	35823	40	55823
93685		DCM	^G aMa	35824	1	55824
9369	XSG8	DC	aG8-a	35825	3	55825
93692		DCM	a	35867	40	55867
93694	GATE8	DC	^G a	35907	40	55907
93695		DCM	^G aMa	35908	1	55908
9370	XSG9	DC	aG9-a	35909	3	55909
93702		DCM	a	35951	40	55951
93704	GATE9	DC	^G a	35991	40	55991

PGLIN	LABEL	OPCODE	OPERAND	CT	ADDRS	INSTRUCTION
93804	WIND7	DC	a _G 0 0 0 0 0 0 0 0 0 0	36747	40	56747
93805		DCM	aM _G	36748	1	56748
9381	XW08	DC	aW8-a	36749	3	56749
93812		DCM	a 0 0 0 0 0 0 0 0 0 0	36791	40	56791
93814	WIND8	DC	a _G 0 0 0 0 0 0 0 0 0 0	36831	40	56831
93815		DCM	aM _G	36832	1	56832
9382	XW09	DC	aW9-a	36833	3	56833
93822		DCM	a 0 0 0 0 0 0 0 0 0 0	36875	40	56875
93824	WIND9	DC	a _G 0 0 0 0 0 0 0 0 0 0	36915	40	56915
93825		DCM	aM _G	36916	1	56916
93899						
9390	LEACSS	DC	a a	36917	5	56917
9391	SSLEA	DCM	aSS P-8-D P-D-0a	36939	18	56939
93914		DCM	aM _G	36940	1	56940
9392	ZBD	DC	aZ 8D-a	36941	5	56941
9393	LINZBD	DCM	a _G 0 0 0 0 0 0	36963	18	56963
93934		DCM	aM _G	36964	1	56964
9400						
9401	CON51	DCM	GGGGGGGGGGGGGGGGGGGG aMMMMMMMMMMMMMMMMMMMMMMMMMMMM	36989	25	56989
9402	CON52	DCM	a a	37014	25	57014
9403	CON53	DCM	aVVVVVVVVVVVVVVVVVVVVVVVVVV	37039	25	57039
9404	CON54	DCM	a.....	37064	25	57064
9406	CON56	DCM	aCCCCCCCCCCCCCCCCCCCCCCCCC	37089	25	57089
9407	CON57	DCM	aaaaaaaaaaaaaaaaaaaaaaaaa	37114	25	57114
9413	CON512	DC	aM _G S-12 -CBA8421	37115	1	57115
9415	CON513	DCM	a a S-13 M-----	37116	1	57116
9449						
9450	NUMSEQ	DC	a1234567890a	37126	10	57126
9451	CON1	DCM	a00001a	37131	5	57131
9452	CON2	DCM	a00002a	37136	5	57136
9454	CON4	DCM	a00004a	37141	5	57141
9455	CON5	DCM	a00005a	37146	5	57146
9456	CON6	DCM	a00006a	37151	5	57151
9457	CON8	DCM	a00008a	37156	5	57156
9458	CON9	DCM	a00009a	37161	5	57161
9461	CON100	DCM	a00100a	37166	5	57166

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
9470	CN024	DCW	@00024a	5	57171	
9471	CN027	DCW	@00027a	5	57176	
9472	CN051	DCW	@00051a	5	57181	
9480	CN0078	DCW	@00078a	5	57186	
9484	CON84	DCW	@00084a	5	57191	
9490	BEAT0	DCW	@00050a	5	57196	
9491	BEAT1	DCW	@10050a	5	57201	
9492	BEAT2	DCW	@20050a	5	57206	
9493	BEAT3	DCW	@30050a	5	57211	
9500	*					
9501	S1	DCW	@01a	2	57213	
9502	S2	DCW	@02a	2	57215	
9503	S3	DCW	@03a	2	57217	
9504	S4	DCW	@04a	2	57219	
9505	S5	DCW	@05a	2	57221	
9506	S6	DCW	@06a	2	57223	
9507	S7	DCW	@07a	2	57225	
9508	S8	DCW	@08a	2	57227	
9509	S9	DCW	@09a	2	57229	
9510	S10	DCW	@10a	2	57231	
9511	S11	DCW	@11a	2	57233	
9512	S12	DCW	@12a	2	57235	
9513	S13	DCW	@13a	2	57237	
9514	S14	DCW	@14a	2	57239	
9515	S15	DCW	@15a	2	57241	
9517	S17	DCW	@17a	2	57243	
9519	S19	DCW	@19a	2	57245	
9530	C50	DCW	@50a	2	57247	
9532	C24	DCW	@24a	2	57249	
95322	C28	DCW	@28a	2	57251	
95324	C30	DCW	@30a	2	57253	
9533	C32	DCW	@32a	2	57255	
9534	C25	DCW	@25a	2	57257	
9535	C75	DCW	@75a	2	57259	
9550	CACHE	DCW	@00a	2	57261	
9570	XRAG	DC	@0a	1	57262	

PGLIN LABEL OPCODE OPERAND CT ADDR INSTRUCTION

9571 YRAG DC 37263 1 57263

9598 * * * * *

9599 * * * * *

95999 * * * * *

9600 DCW a 37270 7 57270

9601 DCW a1 37277 7 57277

9602 DCW a2 37284 7 57284

9603 DCW a3 37291 7 57291

9604 DCW a4 37298 7 57298

9605 DCW a5 37305 7 57305

9606 DCW a6 37312 7 57312

9607 DCW a7 37319 7 57319

9608 DCW a8 37326 7 57326

9609 DCW a9 37333 7 57333

9610 DCW a0 37340 7 57340

9611 DCW a# 37347 7 57347

9612 DCW a@ 37354 7 57354

9613 DCW a: 37361 7 57361

9614 DCW a; 37368 7 57368

9615 DCW aM 37375 7 57375

A ZONED CHARS

9619 * * * * *

9620 DCW aB 37382 7 57382

9621 DCW a/ 37389 7 57389

9622 DCW aS 37396 7 57396

9623 DCW aT 37403 7 57403

9624 DCW aU 37410 7 57410

9625 DCW aV 37417 7 57417

9626 DCW aW 37424 7 57424

9627 DCW aX 37431 7 57431

9628 DCW aY 37438 7 57438

9629 DCW aZ 37445 7 57445

9630 DCW a+ 37452 7 57452

9631 DCW a, 37459 7 57459

9632 DCW a% 37466 7 57466

9633 DCW aM 37473 7 57473

64 CHARACTER-BIT CONFIGURATION LOOKUP TABLE
NO ZONED CHARS

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
9634		DCW	aS-1111-a	37480	7	57480
9635		DCW	aM-11111a	37487	7	57487
9639						
B ZONED CHARS						
9640		DCW	a-1-----a	37494	7	57494
9641		DCW	aJ1-----1a	37501	7	57501
9642		DCW	aK1-----1-a	37508	7	57508
9643		DCW	aL1-----11a	37515	7	57515
9644		DCW	aM1-----1--a	37522	7	57522
9645		DCW	aN1-----1-1a	37529	7	57529
9646		DCW	aO1-----11-a	37536	7	57536
9647		DCW	aP1-----111a	37543	7	57543
9648		DCW	aQ1-----1---a	37550	7	57550
9649		DCW	aR1-----1--1a	37557	7	57557
9650		DCW	a:1-1-1-a	37564	7	57564
9651		DCW	a\$1-1-11a	37571	7	57571
9652		DCW	a%1-11--a	37578	7	57578
9653		DCW	a&1-11-1a	37585	7	57585
9654		DCW	a;1-111-a	37592	7	57592
9655		DCW	a_1-1111a	37599	7	57599
9659						
BA ZONED CHARS						
9660		DCW	a`11-----a	37606	7	57606
9661		DCW	aA11-----1a	37613	7	57613
9662		DCW	aB11--1-a	37620	7	57620
9663		DCW	aC11--11a	37627	7	57627
9664		DCW	aD11-1--a	37634	7	57634
9665		DCW	aE11-1-1a	37641	7	57641
9666		DCW	aF11-11-a	37648	7	57648
9667		DCW	aG11-111a	37655	7	57655
9668		DCW	aH111--a	37662	7	57662
9669		DCW	aI111--1a	37669	7	57669
9670		DCW	aM111-1-a	37676	7	57676
9671		DCW	a:111-11a	37683	7	57683
9672		DCW	a_1111--a	37690	7	57690
9673		DCW	a^1111-1a	37697	7	57697
9674		DCW	a`11111-a	37704	7	57704
9675	TLETAB	DCW	aM111111a	37711	7	57711

PGLIN LABEL OPCODE OPERAND

PGLIN	LABEL	OPCODE	OPERAND	CT	ADDRS	INSTRUCTION
9678	*					
9679	*					
9680	SEARCH	DCW	a-----a	37717	6	57717
9689	*					
9690	COMACD	DCW	a00000a			
9692	HTUACD	DCW	a000a			
9693	THORD	DCW	a0a			
9695	ACCUM	DCW	a0000a			
9698	CURREN	DCW	a00000a			
9700	BEACCN	DC	a01000a			
9909	*					
9910	PLUS	DC	a-----a	37741	25	57741
9911		DCW	aMa	37766	1	57766
9912	MINUS	DC	a-----a	37767	25	57767
9913		DCW	aMa	37792	1	57792
99199	*					
9920		ORG	*EX00			57800
99205		COORG	*EX00			57800
9921	CMPFCA	DS	1	37800		57800
9922		DS	98	37800		57800
9923	CMPLAA	DS	1	37898		57898
99249	*					
9925	SETUPA	DS	1	37899		57899
9926		DS	99	37900		57900
99298	*					
99299		DS	99	37999		57999
9931	CMPFCB	US	1			58000
9932		DS	98	38000		58000
9933	CMPLAB	DS	1	38098		58098
99349	*					
9935	SETUPB	DS	1	38099		58099
9936		DS	99	38100		58100
9937		DS	1	38199		58199
99399	*					
		DS	1	38200		58200
		END	2000			
		GATED				
				38205	5	58205
						J02000
						55235

WINDO					
E01					
BITTER					
XSGO					
XW00					
ZBC					
HEAD					
LEAD					
TABCLA					
LEADER					
SGLEAD					
LEADSG					
TABGAG					
SSLEA					
LEADSS					
CONS12					
CONS13					
SETUPA					
SETUPB					
CMPLAA					
CMPLAB					
	38210	5	58210	56159	
	38215	5	58215	54757	
	38220	5	58220	53766	
	38225	5	58225	55153	
	38230	5	58230	56077	
	38235	5	58235	56941	
	38240	5	58240	54755	
	38245	5	58245	54677	
	38250	5	58250	54449	
	38255	5	58255	54601	
	38260	5	58260	55151	
	38265	5	58265	55069	
	38270	5	58270	54529	
	38275	5	58275	56939	
	38280	5	58280	56917	
	38285	5	58285	57115	
	38290	5	58290	57116	
	38295	5	58295	57900	
	38300	5	58300	58100	
	38305	5	58305	57899	
	38310	5	58310	58099	

END OF ASSEMBLY