

PGLIN	LABEL	OPCOD	OPERAND
S		CTL	2
102	*		-1410-
103	*		MEMORY RELIABILITY TEST
104	*		-CS43-
105	*		TESTS 1411 MODS 3,3A-4,4A-5,5A
1052	*		AND 100K CONFIG, B-40K Z-60K
1055	*		ALL QUADRANTS
106	*		MOD 3- CHARS 2-3, AREA 20-40
107	*		4- 4-5 40-60
108	*		5- 4-7 40-80
109	*		100 K- CHARS 4-9, AREA 40-100
1099	*		
110	*	SECT 1-	ONES DISCRIMINATION
111	*	SECT 2-	ZEROS 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

CT ADDR INSTRUCTION

SECT 13- HALF SELECT CORE BEAT- ALL ZEROES

PGLIN	LABEL	OPCODE	OPERAND	CT	ADDR	INSTRUCTION
125	*					
1255	*					
129	*					
S TD 1	*					
TD 2	*STANDARD XTADS.					
TD 3		ORG	1000			UP-ONE 01000
TD 4	TAD0	DC	a-a	1	01000	BYPASS TYPEOUTS
TD 5	TAD1	DC	a-a	1	01001	REPEAT SECTION
TD 6	TAD2	DC	a-a	1	01002	HALT ON ERROR
TD 7	TAD3	DC	a-a	1	01003	REPEAT PROGRAM
TD 79	*					
TD 8	TAD4	DC	a-a	1	01004	AUTO SECTION SELECT
TD 9	TAD5	DC	a-a	1	01005	BYPASS TAB OF ERRORS
TD 10	TAD6	DC	a-a	1	01006	NO ERROR TABLE OUTPUT
TD 11	TAD7	DC	a-a	1	01007	TAB & ERRS ON PRINTER
TD 12	TAD8	DC	a-a	1	01008	EXECUTE S6-S11 SECTS
TD 13	TAD9	DC	a-a	1	01009	EXECUTE S6C-S11C SECTS
TD 14	TAD10	DC	a-a	1	01010	NO ERROR ADDR REPEAT
TD 15	TAD11	DC	a-a	1	01011	NOT USED
TD 16	TAD12	DC	a-a	1	01012	EXECUTE REGEN CHK
TD 19		DCW	aMa	1	01013	
S A302	*STANDARD INTERNAL PROGRAM ALTER ROUTINE					
A303		ORG	1100			01100
A304	ITR	SBR	ITREXTG5	7	01100	G01167B
A305	ITR1	RCP	ITR2E4	10	01107	MXT001142R
A306		BEX1	ITR1,M	7	01117	R01107M
A3064		BNT1	ITREXT	7	01124	R01162B
A307		BA1	ITR2	7	01131	R01138M
A308		RCPW	0	10	01138	LXT000000R
A309		BEX1	ITR2,M	7	01148	R01138M
A310		BA1	*G1	7	01155	R01162M
A311	ITREXT	B	0	7	01162	J00000
A312		H		1	01169	.
TC 1	*TAPE CONTROL TC50 CONSTANTS					
TC 15	*					
TC12		ORG	01230			01230

CONFIGURATION- 1410 OR 1410A 40K,60K,80K,OR 100K

1410 MEMORY RELIABILITY TEST

CS43

INSTRUCTION

PGLIN	LABEL	CPCCD	CPERAND	CT	ADRS	INSTRUCTION
1074	BLOCK5	DCW	29.1a	3	01230	TENS B BIT IF MEM SIZE OPTION
1075	BLOCK4	DC	23.1a	3	01233	TENS B BIT IF MEM SIZE OPTION
1076	BLOCK3	DC	25.1a	3	01236	TENS B BIT IF MEM SIZE OPTION
1077	BLOCK2	DC	27a	1	01239	
1078		DCW	201a	2	01241	
1079	BLOCK1	DC	2X+0a	3	01242	TENS A BIT IF NOT 701C
1080	SEQNC	DC	212Na	3	01245	SEQ #-125, UNITS B BIT IF REL. MODE
1081	LSADDR	DC	212a	2	01249	LAST ADDR-19K, UNITS A BIT IF SYS CTL ONLY
1082	*PROG IDENT AND SUFFIX					
1083		GRG	125C		01250	
1084	IDENT	DC	2CS43a	4	01250	PROGRAM IDENT
1085		DC	2C2aG	1	01254	SUFFIX LEVEL
1086	*STANDARD SYSTEM CONTROL CARD					
1087		GRG	1256		01256	
1088	SYS1	DC	2 a	1	01256	SYSTEM TYPE C-1410, I-141CI, X-7010
1089	MEMSEL	DC	2 a	1	01257	MEMORY SIZE 3-4CK, 5-60K, 7-80K, 9-100K
1090		DC	2 a	1	01258	SPARE
1091	PRTBUF	DC	2 a	1	01259	CH 1 PRINTER 1-100, 2-132 CHAR BUFFER
1092		DC	2 a	8	01267	a
1093	CHARDY	DC	2 a	1	01268	CHANNEL 1
1094		DC	2 a	20	01288	a NOT INTERRCGATED

1410 MEMORY RELIABILITY TEST

PGLIN LABEL CPCCD OPERAND

PGLIN	LABEL	CPCCD	OPERAND	CT	ADDR	INSTRUCTION
1096	*					
1097		CRG	1300		01300	
1098	*		CMP FIELD A- 100 CHARS			
1099	CMPFCA	DS	1		01300	
1100		DS	98		01398	
1101	CMPLAA	DS	1		01399	
1102	*		SETUP FIELD A- 100 CHARS			
1103	SETUPA	DS	1		01400	
1104		DS	99		01499	
1105	*					
1106	*		CMP FIELD B- 100 CHARS			
1107	CMPFDB	DS	1		01500	
1108		DS	98		01598	
1109	CMPLAB	DS	1		01599	
1110	*		SETUP FIELD B- 100 CHARS			
1111	SETUPB	DS	1		01600	
1112		DS	99		01699	
1113	*					
1114	TEMPCR	DS	1		01700	
1115		DS	135		01839	
1116	*					
1117	ERRALD	DC	200000a	5	01844	
1118		DC	a a	2	01846	
1119	SBCHAR	DC	a-----a	4	01850	
1120		DC	a a	2	01852	
1121	ISCHAR	DC	a-----a	4	01856	
1122		DC	a a	2	01858	
1123	BITTER	DC	a-----a	8	01866	
1124		DC	a a	2	01868	
1125		DC	aCt-a	3	01871	
1126	CHARAL	DCM	aCa	1	01872	
1127		DC	a a	2	01874	
1128		DC	aSS-a	3	01877	
1129	SENSEG	DC	a a	1	01878	
1130		DC	a a	2	01880	
1131		DC	aZ-a	2	01882	

PGLIN	LABEL	OPCODE	OPERAND	CT	ADDRS	INSTRUCTION	
228	ZDRIVE	DCM	a a	1	01883		
229		DC	a a	2	01885		
230	XSG	DC	aXSG-0a	5	01890		
231		DC	a a	2	01892		
232	XWO	DC	aXWO-0a	5	01897		
233		DC	a a	2	01899		
234	YSG	DC	aYSG-0a	5	01904		
235		DC	a a	2	01906		
236	YWO	DC	aYWO-0a	5	01911		
237	GM	DCM	aMa	1	01912		
2399	*						
250	PLUS	DC	a-----a	25	01913		
251		DCM	aMa	1	01938		
252	MINUS	DC	a-----a	25	01939		
253		DCM	aMa	1	01964		
2969	*						
297	*						
298	*INITIAL INSTRUCTION OF TEST PROGRAM						
299		ORG	2000		02000		
300	SWINT	NOPWM		1	02000	N	
301		B	SWINT2	7	02001	J02369	
3019	*						
302		SW	SWINT&1	6	02008	,02001	
303		MLCWA	RESET,00007	12	02014	D1576000007X	
3034		MLCWS	RESET&1,00008	12	02026	D15761000087	
3039	*						
305		WCP	IDENT	10	02038	M&T001250M	
306		BAI	*--16	7	02048	R02038M	
3099	*						
311	TESTAR	BCE	PLAC8, MEMSEL, 7	12	02055	B02194012577	
312		BCE	PLAC6, MEMSEL, 5	12	02067	B02237012575	
313		BCE	PLAC4, MEMSEL, 3	12	02079	B02280012573	
314		BCE	PLAC10, MEMSEL, 9	12	02091	B02151012579	
3149	*						
315	ENTHEM	WCP	DESIG	10	02103	M&T015226M	
316		BAI	*--16	7	02113	R02103M	

SWITCH-INITIAL

PLACE RESET BRANCH AT 00001

PLACE . AT 00008

CS43

TEST FOR 80K

60K

40K

TEST FOR 100K

ENTER MEMORY SIZE DIGIT

PGLIN	LABEL	OPCODE	OPERAND	AWAIT DIGIT DESIGNATION	CT	ADDRS	INSTRUCTION
320		RCP	MENSEL		10	02120	MXT001257R
321		BEX1	*-16,M		7	02130	R02120M <sup>S</sup>
322		BAI	*G1		7	02137	R02144M <sup>G</sup>
323		B	TESTAR		7	02144	J02055
3399	*						
340	PLAC10	MLNA	S10, MEMSIZ&1	MOVE 10	12	02151	D1898715288/
341		MLNS	S9, TESTS&12	MOVE 9	12	02163	D18985152731
342		MLNS	S4, TESTS&6	MOVE 4	12	02175	D18975152671
343		B	MEMIND		7	02187	J02316
348	PLAC8	MLNA	K80, MEMSIZ&1	MOVE 8	12	02194	D1597715288/
3484		MLNS	S7, TESTS&12	MOVE 7	12	02206	D18981152731
3486		MLNS	S4, TESTS&6	MOVE 4	12	02218	D18975152671
349		B	MEMIND		7	02230	J02316
350	PLAC6	MLNA	K60, MEMSIZ&1	MOVE 6	12	02237	D1597915288/
3504		MLNS	S5, TESTS&12	MOVE 5	12	02249	D18977152731
3506		MLNS	S4, TESTS&6	MOVE 4	12	02261	D18975152671
351		B	MEMIND		7	02273	J02316
352	PLAC4	MLNA	K40, MEMSIZ&1	MOVE 4	12	02280	D1598115288/
3524		MLNS	S3, TESTS&12	MOVE 3	12	02292	D18973152731
3526		MLNS	S2, TESTS&6	MOVE 2	12	02304	D18971152671
3529	*						
353	MEMIND	WCP	TESTS	TESTS X0000-X9999 AREA OF	10	02316	MXT015261M <sup>G</sup>
3534		BAI	*-16		7	02326	R02316M
354		WCP	MEMSIZ	XXOK MEMORY	10	02333	MXT015287M <sup>G</sup>
355		BAI	*-16		7	02343	R02333M
3551	*						
3553		BW	SEIQCK,00997	TEST FOR QUICK RUN	12	02350	V02881009971
3555		B	TADSTA		7	02362	J02440
3559	*						
356	SWINT2	NOPWM		FIRST RESET SWITCH	1	02369	N
3562		B	TADSTA		7	02370	J02440
3569	*						
357		WCP	PARITY	IF PARITY ERRORS EXIST-	10	02377	MXT015299M <sup>G</sup>
3572		BAI	*-16		7	02387	R02377M
360		WCP	RESTAT	SET CHECK CONTROL SWITCH	10	02394	MXT015323M <sup>G</sup>
362		BAI	*-16		7	02404	R02394M

PGLIN	LABEL	OPCODE	OPERAND	CT	ADDRS	INSTRUCTION
363		WCP	INH18	10	02411	MXT015359W
365		BA1	*-16	7	02421	R02411M
3655		SW	SWINT2&1,SWEXIT&1	11	02428	0237005882
366		H		1	02439	.
3699						
375	TADSTA	WCP	STATUS	10	02440	MXT015395W
376		BA1	*-16	7	02450	R02440M
377		WCP	TAD0	10	02457	MXT001000W
378		BA1	*-16	7	02467	R02457M
379		MLNA	CON1-2,PASSCT&2	12	02474	D1886515515/
380		CW	QUIEX&1,DIRSS&1	11	02486	0556803134
3599						
400		MLCA	TABCLA,ODD89	12	02497	D1584616803T
401		MLCA	TABCLA,EVEN89	12	02509	D1584616725T
402		MLCA	TABCLA,ODD67	12	02521	D1584616647T
403		MLCA	TABCLA,EVEN67	12	02533	D1584616569T
404		MLCA	TABCLA,ODD45	12	02545	D1584616491T
405		MLCA	TABCLA,EVEN45	12	02557	D1584616413T
406		MLCA	TABCLA,ODD23	12	02569	D1584616335T
407		MLCA	TABCLA,EVEN23	12	02581	D1584616257T
4099						
410		CW	CLATSW&1	6	02593	02672
411		MLNA	EGATE0,CLATAB&10	12	02599	D1949902633/
412		MLNA	S10,CTR2	12	02611	D1898715767/
4129						
413	CLATAB	MLCA	TABGAG,GATE0	12	02623	D1592616971T
414		S	S1,CTR2	11	02635	S1896915767
415		BZ	CLATSW	7	02646	J02671V
416		A	CON84,CLATAB&10	11	02653	A1892702633
417		B	CLATAB	7	02664	J02623
4179						
418	CLATSW	NOPWM		1	02671	N
419		B	*626	7	02672	J02704
4192		SW	CLATSW&1	6	02679	02672
420		MLNA	EWIND0,CLATAB&10	12	02685	D1950402633/
421		B	CLATAB-12	7	02697	J02611

SET PRINT CONTROL SWITCH

TAD STATUS--

RESET PASS COUNTER  
CLEAR QUICK RUN SW-SRESET TABULATION 89 ODD FIELD  
89 EVEN FIELD  
RESET TABULATION 67 ODD FIELD  
67 EVEN FIELD  
RESET TABULATION 45 ODD FIELD  
45 EVEN FIELD  
RESET TABULATION 23 ODD FIELD  
23 EVEN FIELDSET CLEAR B ADDR TO XSG-0  
SET CTR TO 10RESET X-Y SEL GATES  
REDUCE CTR BY 1  
EXIT- IF 00  
INCR B ADDR BY 84

X-Y TAB CLEAR EXIT SW

SET CLEAR B ADDR TO XWO-0

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
4219	*	MLCA	TABCLA-54,LINZBD	12	02704	D1579218699T
422	*		RESET Z8D-SS TAB			
501	*					
502	*		RESET ALL SWITCHES OFF			
520	SHRES	CW	SW613A&1,SW1213&1	11	02716	#1014010132
539	*					
541	*	CW	SW13RE&1	6	02727	#05384
542	*	CW	SW12RE&1,SW11RE&1	11	02733	#0539205400
543	*	CW	SW10RE&1,SW9REP&1	11	02744	#0540805416
544	*	CW	SW8REP&1,SW7REP&1	11	02755	#0542405432
545	*	CW	SW6REP&1,SW5REP&1	11	02766	#0544005448
546	*	CW	SW4REP&1,SW3REP&1	11	02777	#0545605464
547	*	CW	SW2REP&1	6	02788	#05472
549	*					
550	*	CW	SC11RE&1,SC10RE&1	11	02794	#1369613704
551	*	CW	SC9RE&1,SC8RE&1	11	02805	#1371213720
552	*	CW	SC7RE&1	6	02816	#13728
5549	*					
555	*	CW	FILLED&1	6	02822	#07202
556	*	CW	DISCRM&1	6	02828	#10174
5599	*					
560	*	CW	MEL60&1,MEL80&1	11	02834	#1398113973
5604	*	CW	MEL100&1	6	02845	#13965
561	*	CW	YAXSET&1,RESTSW&1	11	02851	#1413114584
5699	*					
570	*	MLNA	C34,MESCTR	12	02862	D1900915751/
575	*	B	CLRENT	7	02874	J02909
5999	*					
600	SETOCK	SW	QUIEX&1,DIRS5&1	11	02881	#0556803134
602		WCP	QCKRUN	10	02892	M#T015482M
603		BA1	*-16	7	02902	R02892M
9998	*					
9999	*		MEMORY OBJECTIVE TEST AREA CLEARANCE			
1000	CLRENT	BCE	PRE40,MEMSEL,3	12	02909	B03078012573
10019	*		TEST FOR 40K			
1002	*	SW	MUST BE 60K,80K,OR 100K	11	02921	#1458414131
			RESTSW&1,YAXSET&1			

RESET ALL S12-13 MEM SIZE SW-S

SET MESCTR TO 34

SET QUICK RUN SW-S

QUICK RUN T-O

MEMORY OBJECTIVE TEST AREA CLEARANCE

TEST FOR 40K

MUST BE 60K,80K,OR 100K

RESTSW&1,YAXSET&1



PGLIN	LABEL	OPCOD	OPERAND	CT	ADRS	INSTRUCTION
1003		SW	FILLED&1,DISCRM&1	11	02932	0720210174
1004		BCE	PRE100,MEMSEL,9	12	02943	803041012579
1005		BCE	PRE80,MEMSEL,7	12	02955	803004012577
10099	*		MUST BE 60K			
1010		SW	MEL60&1	6	02967	13981
1011		MLNA	S2,MELCTR	12	02973	01897115753/
1012		MLNA	FA60H,CLROTA&5	12	02985	01594103113/
1013		B	CLROTA-6	7	02997	J03102
1015	PRE80	SW	MEL80&1	6	03004	13973
1016		MLNA	S4,MELCTR	12	03010	01897515753/
1017		MLNA	FA80H,CLROTA&5	12	03022	01593603113/
1018		B	CLROTA-6	7	03034	J03102
1020	PRE100	SW	MEL100&1	6	03041	13965
1021		MLNA	S6,MELCTR	12	03047	01897915753/
1022		MLNA	FA100H,CLROTA&5	12	03059	01593103113/
1023		B	CLROTA-6	7	03071	J03102
1025	PRE40	MLNA	S2,MELCTR	12	03078	01897115753/
1026		MLNA	FA40H,CLROTA&5	12	03090	01594603113/
10999	*					
1100		SW	20000	6	03102	20000
1101	CLROTA	CS	79999	6	03108	79999
1102		SBR	CLROTA&5	7	03114	G03113B
1103		BW	CLROTA,20000	12	03121	V03108200001
11049	*					
1105	CIRSS	NOPWM		1	03133	N
1106		B	S5SET	7	03134	J06481
11099	*					
1149			TEST FOR AUTOMATIC SECTION SELECTION			
1150		BCE	SECSEL,TAD4,1	12	03141	803160010041
1151		B	S1SET	7	03153	J03411
1152	*					
1153	SECSEL	WCP	AUTSEL	10	03160	M8T015444W
1154		BAI	*-16	7	03170	R03160M
1155		WCP	ENTER	10	03177	M8T015458M
1156		BAI	*-16	7	03187	R03177M

TEST FOR AUTOMATIC SECTION SELECTION  
 TEST TAD4 FOR AUTO SECT SELECT

AUTO SECT SEL  
 ENTER 2 DIGIT SECTION NUMBER

PGLIN	LABEL	OPCODE	OPERAND	CT	ADDRS	INSTRUCTION
1157	.					
1158	.	RCP	AUTO-1	10	03194	M8T016022R
1159	.	BEX1	--16.M	7	03204	R03194M
1160	.	BAL	*61	7	03211	R03218M
11602	.		TEST FOR S-10 OR GREATER			
11604	.	BBE	S10GTR,AUTO-1,1	12	03218	W03361160221
11606	.		TEST FOR S-1 THROUGH S-9 SELECTED			
1161	.	BBE	BIT9,AUTO,8	12	03230	W03273160238
1162	.	BBE	BIT6,AUTO,4	12	03242	W03292160234
1163	.	BBE	BIT3,AUTO,2	12	03254	W03342160232
1164	.	B	S1SET	7	03266	J03411
1165	.		- GO TO S-1			
1166	BIT9	BBE	S9SET,AUTO,1	12	03273	W08879160231
1167	.	B	S8SET	7	03285	J08795
1168	BIT6	BBE	BIT7,AUTO,2	12	03292	W03323160232
1169	.	BBE	S5SET,AUTO,1	12	03304	W06981160231
1170	.	B	S4SET	7	03316	J03563
1171	BIT7	BBE	S7SET,AUTO,1	12	03323	W08711160231
1172	.	B	S6SET	7	03335	J08633
1173	BIT3	BBE	S3SET,AUTO,1	12	03342	W03514160231
1174	.	B	S2SET	7	03354	J03465
1175	.		TEST FOR S-10 THROUGH S-14 SELECTED			
1176	S10GTR	BBE	S10SET,AUTO,8	12	03361	W08963160238
1178	.	BBE	IAC,AUTO,2	12	03373	W03392160232
1179	.	B	S11SET	7	03385	J09047
1184	.		- GO TO S-11			
1185	IAC	BBE	S13SET,AUTO,1	12	03392	W09294160231
1186	.	B	S12SET	7	03404	J09131
1202	.		- GO TO S-12			
1203	.		SECTION 1 SETUP -CBA8421			
1204	S1SET	MLCWA	CONS1,PLUS&24	12	03411	D1872501937X
1205	.	MLCWA	CONS1,MINUS&24	12	03423	D1872501963X
1206	.	CH	PLUS,MINUS	11	03435	W0191301939
12064	.	MLNA	S1,SECIND&3	12	03446	D1896915218/
1207	.	B	CLBESE	7	03458	J09559
1218	.					

PGLIN	LABEL	OPCOD	OPERAND	SECTION	CT	ADDRS	INSTRUCTION
1219	S2SET	MLCWA	CONS2,PLUS&24	SECTION 2 SETUP	12	03465	D1875001937X
1220		MLCWA	CONS2,MINUS&24	PLACE 25 BLANK CHAR	12	03477	D1875001963X
1221		MLNA	S2,SECIND&3	25 BLANK	12	03489	D1897115218/
1225		SW	SW2REP&1	PLACE 02 IN S-XX T-0	6	03501	05472
1226		B	WMALL		7	03507	J09468
1238	S3SET	MLCWA	CONS3,PLUS&24	SECTION 3 SETUP	12	03514	D1877501937X
1239		MLCWA	CONS3,MINUS&24	PLACE 25 V CHARS	12	03526	D1877501963X
1240		MLNA	S3,SECIND&3	25 V	12	03538	D1897315218/
1247		SW	SW3REP&1	PLACE 03 IN S-XX T-0	6	03550	05464
1248		B	WMALL		7	03556	J09468
1258	S4SET	MLCWA	CONS4,PLUS&24	SECTION 4 SETUP	12	03563	D1880001937X
1259		MLCWA	CONS4,MINUS&24	PLACE 25 EX PT CHAR	12	03575	D1880001963X
1260		CW	PLUS,MINUS	25 EX PT	11	03587	0191301939
1261		MLNA	S4,SECIND&3	PLACE 04 IN S-XX T-0	12	03598	D1897515218/
1267		SW	SW4REP&1		6	03610	05456
1268		B	CLBESE		7	03616	J09559
12999	COMWD	SBR	COMMON WCRD MARK BIT INTERROGATION		7	03623	G036788
1300		MLNA	COMADD,*&11		12	03630	D1947603652/
1301		BW	*&8,0	TEST FOR WM DOWN	12	03642	V03661000001
1302		B	*&13		7	03654	J03673
1303		MLCS	PICK,BITTER-7	P-----	12	03661	D15726018593
1304		B	00000		7	03673	J00000
1305	COMWDX	SBR	COMWDX&5		7	03680	G037288
13099	COMWP	MLNA	COMADD,*&11	TEST FO- MM UP	12	03687	D1947603709/
1310		BW	*&13,0	D-----	12	03699	V03723000001
1311		MLCS	DROP,BITTER-7		12	03711	D15727018593
1312		B	00000		7	03723	J00000
1313	COMWPX						
1314							
13498							
13499			COMMON 8 BIT INTERROGATION				

PGLIN	LABEL	OPCODE	OPERAND	1410 MEMORY RELIABILITY	CT	ADDRS	INSTRUCTION
1350	COM8D	SBR	COM8DXE5		7	03730	G037858
1351		MLNA	COMADD,*E11		12	03737	D1947603759/
1352		B8E	*E8,0,-	TEST FOR 8 BIT DOWN	12	03749	W0376800000-
1353		B	*E13		7	03761	J03780
1354		MLCS	PICK,BITTER-5		12	03768	D15726018613
1355	COM8DX	B	00000	---P-----	7	03780	J00000
13599	*						
1360	COM8P	SBR	COM8PX65		7	03787	G038358
1361		MLNA	COMADD,*E11		12	03794	D1947603816/
1362		B8E	*E13,0,-	TEST FOR 8 BIT UP	12	03806	W0383000000-
1363		MLCS	DROP,BITTER-5		12	03818	D15727018613
1364	COM8PX	B	00000	---D-----	7	03830	J00000
13698	*						
13699	*		COMMON A BIT INTERROGATION				
1370	COMAC	SBR	COMADXE5		7	03837	G038928
1371		MLNA	COMADD,*E11		12	03844	D1947603866/
1372		B8E	*E8,0,B	TEST FOR A BIT DOWN	12	03856	W0387500000B
1373		B	*E13		7	03868	J03887
1374		MLCS	PICK,BITTER-4		12	03875	D15726018623
1375	COMACX	B	00C00	---P-----	7	03887	J00000
13799	*						
1380	COMAP	SBR	COMAPXE5		7	03894	G039428
1381		MLNA	COMADD,*E11		12	03901	D1947603923/
1382		B8E	*E13,0,B	TEST FOR A BIT UP	12	03913	W0393700000B
1383		MLCS	DROP,BITTER-4		12	03925	D15727018623
1384	COMAPX	B	00000	---D-----	7	03937	J00000
13998	*						
13999	*		COMMON 8 BIT INTERROGATION				
1400	COM8C	SBR	COM8DXE5		7	03944	G039998
1401		MLNA	COMADD,*E11		12	03951	D1947603973/
1402		B8E	*E8,0,8	TEST FOR 8 BIT DOWN	12	03963	W03982000008
1403		B	*E13		7	03975	J03994
1404		MLCS	PICK,BITTER-3		12	03982	D15726018633
1405	COM8CX	B	00C00	----P----	7	03994	J00000
14099	*						
1410	COM8P	SBR	COM8PX65		7	04001	G040498

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
1411		MLNA	COMADD,*€11	12	04008	D1947604030/
1412		BBE	*€13,0,8	12	04020	W04044000008
1413		MLCS	DROP,BITTER-3	12	04032	D15727018633
1414	COM8PX	B	00000	7	04044	J00000
14198	*					
14199	*		COMMON 4 BIT INTERROGATION			
1420	COM4D	SBR	COM4DX€5	7	04051	G04106B
1421		MLNA	COMADD,*€11	12	04058	D1947604080/
1422		BBE	*€8,0,4	12	04070	W04089000004
1423		B	*€13	7	04082	J04101
1424		MLCS	PICK,BITTER-2	12	04089	D15726018643
1425	COM4DX	B	00000	7	04101	J00000
14299	*					
1430	COM4P	SBR	COM4PX€5	7	04108	G04156B
1431		MLNA	COMADD,*€11	12	04115	D1947604137/
1432		BBE	*€13,0,4	12	04127	W04151000004
1433		MLCS	DROP,BITTER-2	12	04139	D15727018643
1434	COM4PX	B	00000	7	04151	J00000
14398	*					
14399	*		COMMON 2 BIT INTERROGATION			
1440	COM2D	SBR	COM2DX€5	7	04158	G04213B
1441		MLNA	COMADD,*€11	12	04165	D1947604187/
1442		BBE	*€8,0,2	12	04177	W04196000002
1443		B	*€13	7	04189	J04208
1444		MLCS	PICK,BITTER-1	12	04196	D15726018653
1445	COM2CX	B	00000	7	04208	J00000
14499	*					
1450	COM2P	SBR	COM2PX€5	7	04215	G04263B
1451		MLNA	COMADD,*€11	12	04222	D1947604244/
1452		BBE	*€13,0,2	12	04234	W04258000002
1453		MLCS	DROP,BITTER-1	12	04246	D15727018653
1454	COM2PX	B	00000	7	04258	J00000
14598	*					
14599	*		COMMON 1 BIT INTERROGATION			
1460	COM1D	SBR	COM1DX€5	7	04265	G04320B
1461		MLNA	COMADD,*€11	12	04272	D1947604294/

PGLIN	LABEL	OPCODE	OPERAND	1410 MEMORY RELIABILITY	CT	ADDRS	INSTRUCTION
1462		B8E	*68,0,1	TEST FOR 1 BIT DOWN	12	04284	W04303000001
1463		B	*E13		7	04296	J04315
1464		MLCS	PICK, BITTER	-----P	12	04303	D15726018663
1465	COM1CX	B	00000		7	04315	J00000
14699							
1470	COM1P	SBR	COM1PX65		7	04322	G043708
1471		MLNA	COMADD,*E11		12	04329	D1947604351/
1472		B8E	*E13,0,1	TEST FOR 1 BIT UP	12	04341	W04365000001
1473		MLCS	DROP, BITTER	-----D	12	04353	D15727018663
1474	COM1PX	B	00000		7	04365	J00000
14798							
14999							
1500	CHDET	SBR	SSDETxE5	CH-XSG-YSG-XWO-YWO-SS-Z DETERMINANTS FOR IE T-O	7	04372	G04529B
1501		MLNS	ERRADD-4,CHARNO	SET CHARNO TO ERRADD TTH	12	04379	D01840018721
15049							
1505		MLNS	ERRADD-1,XSG	SET XSG TO ERRADD T	12	04391	D01843018901
1506		MLNS	ERRADD-3,YSG	SET YSG TO ERRADD TH	12	04403	D01841019041
15099							
1510		MLNS	ERRADD,XWO	SET XWO TO ERRADD U	12	04415	D01844018971
1511		MLNS	ERRADD-2,YWO	SET YWO TO ERRADD H	12	04427	D01842019111
15149							
1515	ZDET	MLNS	ERRADD-3,THURD	SET THOUSANDS ORDER	12	04439	D01841194801
1516		C	NUFOUR,THORD	CMP TTH TO 4	11	04451	G1572919480
1517		BH	SETZB	TEST FOR HIGH	7	04462	J04500U
15199							
1520		MLCS	DROP,ZDRIVE	SET Z-O	12	04469	D15727018833
1521		MLCS	DROP,SENSEG	SET SS-D	12	04481	D15727018783
1522		B	SSDET X		7	04493	J04524
1523	SETZB	MLCS	BSEG,ZDRIVE	SET Z-B	12	04500	D15728018833
1524		MLCS	BSEG,SENSEG	SET SS-B	12	04512	D15728018783
1525	SSDET X	B	00000	EXIT BRANCH RETURN	7	04524	J00000
1600							
1601				SECTIONS 1,8-9,12-13 CHAR GM BIT BREAKDOWN			
1602	S18B	MLCA	S18B-6,SBCHAR	PLACE --- IN T-O	12	04531	D1566001850T
1603		MLCWS	CONS1,CORREC	SET GM IN CORRECT CHAR STORAGE	12	04543	D18725157657
16049				CHAR ---GM SHOULD BE -CBA8421			

PGLIN	LABEL	OPCODE	OPERAND	TEST FOR WM DOWN	CT	ADDRS	INSTRUCTION
1605		B	COMWD		7	04555	J03623
1607		B	COMBP	B UP	7	04562	J03787
1608		B	COMAP	A UP	7	04569	J03894
1609		B	COMBP	B UP	7	04576	J04001
1610		B	COM4P	4 UP	7	04583	J04108
1611		B	COM2P	2 UP	7	04590	J04215
1612		B	COM1P	1 UP	7	04597	J04322
1613		B	PLACAD		7	04604	J04851
1638	*						
1639	*						
1650	*						
1651	S288	MLCA	S35B-6,SBCHAR	CHAR BLANK BIT BREAKDOWN PLACE WMBL IN T-O	12	04611	D1567001850T
1653		MLCWS	CONS2-24,CORREC	SET WMBL IN CORRECT CHAR STORAGE	12	04623	D18726157657
16549	*			CHAR WM-BL SHOULD BE W-----			
1655		B	COMWP	TEST FOR WM UP	7	04635	J03680
1657		B	COMBD	B DOWN	7	04642	J03730
1658		B	COMAD	A DOWN	7	04649	J03837
1659		B	COM8D	B DOWN	7	04656	J03944
1660		B	COM4D	4 DOWN	7	04663	J04051
1661		B	COM2D	2 DOWN	7	04670	J04158
1662		B	COM1D	1 DOWN	7	04677	J04265
1663		B	PLACAD		7	04684	J04851
1700	*			CHAR V BIT BREAKDOWN			
1701	S388	MLCA	S35B-6,SBCHAR	PLACE WM-V IN T-O	12	04691	D1568001850T
1703		MLCWS	CONS3-24,CORREC	SET WM-V IN CORRECT CHAR STORAGE	12	04703	D18751157657
17049	*			CHAR WM-V SHOULD BE WC-A-4-1			
1705		B	COMWP	TEST FOR WM UP	7	04715	J03680
1707		B	COM8D	B DOWN	7	04722	J03730
1708		B	COMAP	A UP	7	04729	J03894
1709		B	COM8D	B DOWN	7	04736	J03944
1710		B	COM4P	4 UP	7	04743	J04108
1711		B	COM2D	2 DOWN	7	04750	J04158
1712		B	COM1P	1 UP	7	04757	J04322
1713		B	PLACAD		7	04764	J04851
1748	*						
1750	*			CHAR EX PT BIT BREAKDOWN			

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
1751	S488	MLCA	S4S8-6,SBCHAR	12	04771	D1569001850T
1753		MLCWS	CONS4,CORREC	12	04783	D1880015765T
17549	*		CHAR ----EP SHOULD BE --8-8-2-			
1755		B	COMWD	7	04795	J03623
1757		B	COMBP	7	04802	J03787
1758		B	COMAD	7	04809	J03837
1759		B	COM8P	7	04816	J04001
1760		B	COM4D	7	04823	J04051
1761		B	COM2P	7	04830	J04215
1762		B	COM1D	7	04837	J04265
1763		B	PLACAD	7	04844	J04851
1798	*					
1799	*					
1835	PLACAD	MLNA	COMADD,ERRADD	12	04851	D1947601844/
18354		B	TABSEA	7	04863	J11357
1836		B	CHDET	7	04870	J04372
18399	*					
1840		MLNA	COMADD,REPCOR&10	12	04877	D1947604399/
1841	HEPCOK	MLCWS	CURKEC,0000	12	04889	D1576500000T
1847	*					
1848	*					
1850	ERRIND	BCE	LOKTAD-7,TAD0,1	12	04901	B04949010001
18504		BCE	PRTYP,TAD7,1	12	04913	B04994010071
1851		WCP	ERRADD-4	10	04925	MXT001840W
1852		BCB1	*-16	7	04935	R049252
1853		BA1	*61	7	04942	R04949H
		BNQ	ITR	7	04949	J01100Q
1854	LOKTAD	BCE	LOCKUP,TAD10,1	12	04956	B05219010101
18549	*					
1855	BYPTAB	BCE	VARRET,TAD5,1	12	04968	B04987010051
1856		B	TABULA	7	04980	J05921
1858	VARRET	B	00000	7	04987	J00000
18699	*					
1870	PRTYP	CS	TEMPUR&131	6	04994	/01831
1871		CS		1	05000	/
18719	*					

S



PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
1872		MLCS	CHAN1,PRIET&1	12	05001	D15722051893
1873		MLCWS	CHAN1B,PRIET&10	12	05013	D15723051987
1874		MLCWS	CHAN1D,PRIET&17	12	05025	D15723052057
1875		BCE	BUFC32,PRTBUF,2	12	05037	B05164012592
1876		BCE	BUFC,PRTBUF,1	12	05049	B05145012591
18769						TEST FOR 132 CHAR BUFFER 100
1877		MLCS	CHAN2,PRIET&1	12	05061	D15724051893
1878		MLCWS	CHAN2B,PRIET&10	12	05073	D15725051987
1879		MLCWS	CHAN2B,PRIET&17	12	05085	D15725052057
1880		BCE	BUFC32,PRTBUF,2	12	05097	B05164012592
1881		BCE	BUFC,PRTBUF,1	12	05109	B05145012591
18819						
1882		WCP	NOPBFS	10	05121	M&T015567M
1883		BA1	*-16	7	05131	R05121M
1884		B	ERRIND&24	7	05138	J04925
18849						
1885	BUFC	MLCWS	GM,TEMPOR&100	12	05145	D01912018007
1886		B	*&13	7	05157	J05176
1887	BUFC32	MLCWS	GM,TEMPOR&132	12	05164	D01912018327
1888		MRCG	ERRADD-4,TEMPOR	12	05176	D0184001700\$
18899						
1890	PRIET	W	TEMPOR	10	05188	M&Z0001700M
1891		BEX1	*-16,3	7	05198	R051883
1892		BA1	*&1	7	05205	R05212M
1893		B	LOKTAD-7	7	05212	J04949
19499			SETUP FOR ERROR ADDR REPEAT T-0			
1950	LOCKUP	SW	LOKADD&6	6	05219	,05296
1951		MLNWB	ERRADD,LOKADD&10	12	05225	D0184405300N
1952		MLNB	ERRADD,REPADD	12	05237	D0184415641J
19529						
1953		MLNS	XWC,REPYWO	12	05249	D01897156481
1954		MLNS	YWO,REPYWO	12	05261	D01911156551
20299						
2030		WCP	REPER	10	05273	M&T015615M
2031		BA1	*-16	7	05283	R05273M

NO CHAN PTR A/O BUF SIZ SPEC

TYPE IET INSTEAD

PRINT 0000 ---X ---X -----

TRY AGAIN IF BUSY OR NOT RDY

SETUP FOR ERROR ADDR REPEAT T-0

SET REPEATER ADDR

SET ERRADD IN T-0

SET XWO IN T-0

REPEATING ERROR ADDR- 00000

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
20349	*			12	05290	D15765000007
2035	LOKADD	MLCWS	CORREC,00000	7	05302	J05290
2036		B	LOKADD	1	05309	.
2037		H				
20398	*			1	05310	N
2050	SCMPLT	NOP		7	05311	J01100Q
2050	HYPTYP	BNO	ITR	12	05318	805342010061
2051		BCE	*213,TAD6,1	12	05330	805359010001
2052		BCE	TESTAB,TAD0,1	10	05342	M8T015215W
2053		WCP	SECIND	7	05352	R05342M
2053		8A1	*-16			
20539	*			12	05359	D1521716050L <sup>D</sup>
2054	TESTAB	MRCWG	SECIND&2,LEASEC	12	05371	807553010061
2055		BCE	TABPRT,TAD6,1			
2065	*			1	05383	N
2072	SW13RE	NOPWM		7	05384	J05829
2073		H	REPS13	1	05391	N
2074	SW12RE	NOPWM		7	05392	J05810
2075		B	REPS12	1	05399	N
2076	SW11RE	NOPWM		7	05400	J05772
2077		B	REPS11	1	05407	N
2078	SW10RE	NOPWM		7	05408	J05734
2079		B	REPS10	1	05415	N
2080	SW9REP	NOPWM		7	05416	J05696
2081		B	REPS9	1	05423	N
2082	SW8REP	NOPWM		7	05424	J05658
2083		B	REPS8	1	05431	N
2084	SW7REP	NOPWM		7	05432	J05620
2085		H	REPS7	1	05439	N
2086	SW6REP	NOPWM		7	05440	J05582
2087		B	REPS6	1	05447	N
2088	SW5REP	NOPWM		7	05448	J05555
2089		B	REPS5	1	05455	N
2090	SW4REP	NOPWM		7	05456	J05536
2091		B	REPS4	1	05463	N
2092	SW3REP	NOPWM				

S

1410 MEMORY RELIABILITY

CS43

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
2093		B	REPS3	7	05464	J05517
2094	SW2REP	NOPWM		1	05471	N
2095		B	REPS2	7	05472	J05498
2098						
2099						
2100		BCE	S1SET,TAD1,1	12	05479	B03411010011
2101		B	S2SET	7	05491	J03465
2102	REPS2	BCE	S2SET,TAD1,1	12	05498	B03465010011
2103		B	S3SET	7	05510	J03514
2104	REPS3	BCE	S3SET,TAD1,1	12	05517	B03514010011
2105		B	S4SET	7	05529	J03563
2106	REPS4	BCE	S4SET,TAD1,1	12	05536	B03563010011
2107		B	S5SET	7	05548	J06981
2108	REPS5	BCE	S5SET,TAD1,1	12	05555	B06981010011
21084	QUIEX	NOPWM		1	05567	N
21085		B	PASSAD	7	05568	J05841
2109		B	S6SET	7	05575	J08633
2110	REPS6	BCE	REP6R,TAD9,1	12	05582	B05601010091
21104		B	CPTSET	7	05594	J11727
2111	REP6R	BCE	S6SET,TAD1,1	12	05601	B08633010011
21114		B	S7SET	7	05613	J08711
2112	REPS7	BCE	REP7R,TAD9,1	12	05620	B05639010091
21124		B	CPTSET	7	05632	J11727
2113	REP7R	BCE	S7SET,TAD1,1	12	05639	B08711010011
21134		B	S8SET	7	05651	J08795
2114	REPS8	BCE	REP8R,TAD9,1	12	05658	B05677010091
21144		B	CPTSET	7	05670	J11727
2115	REP8R	BCE	S8SET,TAD1,1	12	05677	B08795010011
21154		B	S9SET	7	05689	J08879
2116	REPS9	BCE	REP9R,TAD9,1	12	05696	B05715010091
21164		B	CPTSET	7	05708	J11727
2117	REP9R	BCE	S9SET,TAD1,1	12	05715	B08879010011
21174		B	S10SET	7	05727	J08963
2118	REPS10	BCE	REP10R,TAD9,1	12	05734	B05753010091
21184		B	CPTSET	7	05746	J11727
2119	REP10R	BCE	S10SET,TAD1,1	12	05753	B08963010011

S-2 SWITCH

REPEAT S-1 IF TAD1 UP

REPEAT S-2

REPEAT S-3

REPEAT S-4

REPEAT S-5

QUICK EXIT POST S-05 RUN SW

BYPASS S-6C IF TAD9 UP

GO TO COMPLEMENT SETUP

REPEAT S-6 IF TAD1 UP

BYPASS S-7C

REPEAT S-7

BYPASS S-8C

REPEAT S-8

BYPASS S-9C

REPEAT S-9

BYPASS S-10C

REPEAT S-10

PGLIN	LABEL	OPCODE	OPERAND	CT	ADDRS	INSTRUCTION
21194		B	S11SET	7	05765	J09047
2120	REPS11	BCE	REP11R,TAD09,1	12	05772	805791010091
21204		B	CPTSET	7	05784	J11727
2121	REP11R	BCE	S11SET,TAD1,1	12	05791	809047010011
21214		B	S12SET	7	05803	J09131
2122	REPS12	BCE	S12SET,TAD1,1	12	05810	809131010011
2123		B	S13SET	7	05822	J09294
2124	REPS13	BCE	S13SET,TAD1,1	12	05829	809294010011
2131	*					
2132	PASSAD	A	CON1,PASSCI&2	11	05841	A188671515
2134		WCP	PASS	10	05852	M&T015508M
2135		BAL	*-16	7	05862	R05852M
2139	*					
2140	TESREP	BCE	SWRES,TAD3,1	12	05869	802716010031
21401	SWEXIT	NOPHM		1	05881	N
21402		B	*68	7	05882	J05896
21403		B	00400	7	05889	J00400
21404		WCP	EXPRESS	10	05896	M&T015407M
21405		BAL	*-16	7	05906	R05896M
21406		H		1	05913	.
2141		B	00400	7	05914	J00400
21498	*					
21499	*					
2150	*					
2151	TABULA	SBR	TABRET&5	7	05921	G069798
21549	*					
2155		MLNA	6E23,TABAC&5	12	05928	D1950906298/
2156		BCE	COLDET,ERRADD-4,2	12	05940	806101018402
2157		A	CN0078,TABAC&5	11	05952	A1892206298
2158		BCE	COLDET,ERRADD-4,3	12	05963	806101018403
2159		A	CN0078,TABAC&5	11	05975	A1892206298
2160		BCE	COLDET,ERRADD-4,4	12	05986	806101018404
2161		A	CN0078,TABAC&5	11	05998	A1892206298
2162		BCE	COLDET,ERRADD-4,5	12	06009	806101018405
2163		A	CN0078,TABAC&5	11	06021	A1892206298
2164		BCE	COLDET,ERRADD-4,6	12	06032	806101018406

ERROR TABULATION AREA

SET EXIT BRANCH FROM TABULATION

SET TO CH-2 START

TEST FOR 2----

ADD 78

TEST FOR 3----

ADD 78

TEST FOR 4----

ADD 78

TEST FOR 5----

ADD 78

TEST FOR 6----

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
2165	*	A	CN0078,TABAC&5 ADD 78	11	06044	A1892206298
2166		BCE	COLDET,ERRADD-4,7 TEST FOR 7-----	12	06055	B06101018407
2167		A	CN0078,TABAC&5 ADD 78	11	06067	A1892206298
2168		BCE	COLDET,ERRADD-4,8 TEST FOR 8-----	12	06078	B06101018408
2169		A	CN0078,TABAC&5 ADD 78, MUST BE 9-----	11	06090	A1892206298
21799	*					
2180	COLDET	CH	PIKSW1&1,PIKSW2&1	11	06101	D0682006949
2181		MLNA	S8,BITCTR SET BITCTR TO 8	12	06112	D1898315769/
2182		MLNA	8BITTR,PSCAN&10 SET PSCAN 8 TO BITTR	12	06124	D1951406157/
2183		A	CON9,TABAC&5 ADD 9 TO SET TO 8PI PICK POS	11	06136	A1889706298
21849	*					
2185	PSCAN	8BE	PORTAL,BITTR,4 TEST ALL BITBRK FOR 4 BIT	12	06147	W06206018664
2186		S	CON1,PSCAN&10 SUB 1 FROM PSCAN 8	11	06159	S1886706157
2187		S	S1,BITCTR SUB 1 FROM BITCTR	11	06170	S1896915769
2188		BZ	PORTAL EXIT- IF 0	7	06181	J06206V
2189		A	CON9,TABAC&5 ADD 9 TO TABAC	11	06188	A1889706298
2190		B	PSCAN	7	06199	J06147
21909	*					
2191	PORTAL	SW	PODDET&6	6	06206	,06230
21912		MLNWB	PSCAN&10,PODDET&10	12	06212	D0615706234N
21914	PODDET	BCE	SEIPIK,00000,P TEST FOR A P OR 0	12	06224	B0624300000P
21915		B	DROPIK	7	06236	J06261
21919	*					
2192	SEIPIK	SW	PIKSW1&1,PIKSW2&1	11	06243	,0682006949
2193		B	*&12	7	06254	J06272
2194	DROPIK	A	CON&,TABAC&5 ADD 4 TO SET TO 0 COLUMN	11	06261	A1887706298
2195		B	EXSTOR	7	06272	J06286
2196		B	XMSDET	7	06279	J06352
22798	*					
22799	*		TABULATION ACCUMULATOR AREA			
2280	EXSTOR	SBR	ACEXIT&5 SET ACEXIT	7	06286	G063508
2281	TABAC	MLNB	00000,ACCUM MOVE LOCATED TAB FIELD TO ACCUM	12	06293	D0000019484J
2282		A	CON1,ACCUM ADD 0001 TO ACCUM	11	06305	A1886719484
22829	*					
2283		SW	ACTAB&6	6	06316	,06340
2284		MLNWB	TABAC&5,ACTAB&10 SET ACTAB 8 ADDR	12	06322	D0629806344N

PGLIN	LABEL	OPCOD	OPERAND	MOVE-SUP 0 ACCUM TOTAL TO TABFLD VARIABLE EXIT BRANCH	CT	ADDR	INSTRUCTION
2285	ACTAB	MCS	ACCUM,00000		11	06334	Z1948400000
2286	ACEKIT	B	00000		7	06345	J00000
22998	*						
23119	*						
2312	XMSDET	CH	XYTEX&1	DETERMINANT FOR X TAB LINE	6	06352	D06846
2313		MLNA	EXSGO,TABACC&5	SET XSG-0 STAD	12	06358	D1951906298/
2314		MLNS	XSG,XRAG	SET XRAG TO XSG	12	06370	D01890190161
2315		MLNS	YSG,YRAG	SET YRAG TO YSG	12	06382	D01904190171
23159	*						
2316	XRADET	BCE	YRADET,XRAG,0	EXIT- IF 0	12	06394	806601190160
23162		A	CON84,TABACC&5	ADD 84 TO TABAC	11	06406	A1892706298
2317		BCE	YRADET,XRAG,1	EXIT- IF 1	12	06417	806601190161
23172		A	CON84,TABACC&5		11	06429	A1892706298
2318		BCE	YRADET,XRAG,2	EXIT- IF 2	12	06440	806601190162
23182		A	CON84,TABACC&5		11	06452	A1892706298
2319		BCE	YRADET,XRAG,3	EXIT- IF 3	12	06463	806601190163
23192		A	CON84,TABACC&5		11	06475	A1892706298
2320		BCE	YRADET,XRAG,4	EXIT- IF 4	12	06486	806601190164
23202		A	CON84,TABACC&5		11	06498	A1892706298
2321		BCE	YRADET,XRAG,5	EXIT- IF 5	12	06509	806601190165
23212		A	CON84,TABACC&5		11	06521	A1892706298
2322		BCE	YRADET,XRAG,6	EXIT- IF 6	12	06532	806601190166
23222		A	CON84,TABACC&5		11	06544	A1892706298
2323		BCE	YRADET,XRAG,7	EXIT- IF 7	12	06555	806601190167
23232		A	CON84,TABACC&5		11	06567	A1892706298
2324		BCE	YRADET,XRAG,8	EXIT- IF 8	12	06578	806601190168
23242		A	CON84,TABACC&5	ADD 84- MUST BE 9	11	06590	A1892706298
23249	*			DETERMINANT FOR Y TAB COLUMN			
2325	YRADET	A	CON6,TABACC&5	ADD 6 TO SET TO YOP	11	06601	A1888706298
2326		BCE	PIKSW1,YRAG,0	EXIT- IF 0	12	06612	806819190170
23262		A	CON8,TABACC&5	ADD 8 TO TABAC	11	06624	A1889206298
2327		BCE	PIKSW1,YRAG,1	EXIT- IF 1	12	06635	806819190171
23272		A	CON8,TABACC&5		11	06647	A1889206298
2328		BCE	PIKSW1,YRAG,2	EXIT- IF 2	12	06658	806819190172
23282		A	CON8,TABACC&5		11	06670	A1889206298
2329		BCE	PIKSW1,YRAG,3	EXIT- IF 3	12	06681	806819190173

PGLIN	LABEL	OPCOD	OPERAND		CT	ADDRS	INSTRUCTION
23292		A	CON8,TABACC5		11	06693	A1889206298
2330		BCE	PIKSW1,YRAG,4	EXIT- IF 4	12	06704	806819190174
23302		A	CON8,TABACC5		11	06716	A1889206298
2331		BCE	PIKSW1,YRAG,5	EXIT- IF 5	12	06727	806819190175
23312		A	CON8,TABACC5		11	06739	A1889206298
2332		BCE	PIKSW1,YRAG,6	EXIT- IF 6	12	06750	806819190176
23322		A	CON8,TABACC5		11	06762	A1889206298
2333		BCE	PIKSW1,YRAG,7	EXIT- IF 7	12	06773	806819190177
23332		A	CON8,TABACC5		11	06785	A1889206298
2334		BCE	PIKSW1,YRAG,8	EXIT- IF 8	12	06796	806819190178
23342		A	CON8,TABACC5	ADD 8- MUST BE 9	11	06808	A1889206298
23399							
2340	PIKSW1	NOPWM		PICKUP SWITCH 1	1	06819	N
2341		B	*E12		7	06820	J06838
2342		A	CON4,TABACC5		11	06827	A1889206298
2343		B	EXSTOR	GO TO TAB INCREMENT	7	06838	J06286
23439							
2344	XYTEX	NOPWM		XY TAB EXIT SWITCH	1	06845	N
23442		B	SSTAB		7	06846	J06902
2345		SW	XYTEXE1	SET XY TAB SW	6	06853	J06944
23452		MLNA	EXW00,TABACC5	SET XW0-0 STAD	12	06859	D1952906298/
2346		MLNS	XW0,XRAG	SET XRAG TO XW0	12	06871	D01897190161
23462		MLNS	YW0,YRAG	SET YRAG TO YW0	12	06883	D01911190171
2347		B	XRADET		7	06895	J06394
23498							
23499							
2351	SSTAB	MLNA	6Z8D,TABACC5	SENSE SEGMENT-Z DRIVE TABULATION SET TAB START ADDR	12	06902	D1952906298/
23549							
2355		A	CUN9,TABACC5	ADD 9 TO SET TO B-P	11	06914	A1889706298
2356		BCE	PIKSW2,SENSEG,8	TEST FOR SS-B	12	06925	806948018788
2357		A	CON9,TABACC5	SET TO D-P	11	06937	A1889706298
23599							
2360	PIKSW2	NOPWM		PICKUP SWITCH 2	1	06948	N
2361		B	*E12		7	06949	J06967
2362		A	CON4,TABACC5	ADD 4 TO SET TO D FLD	11	06956	A1887706298
2363		B	EXSTOR		7	06967	J06286

PGLIN	LABEL	OPCODE	OPERAND		CT	ADDR	INSTRUCTION
24989	*						
2499	TABRET	B	00000	TABULATION EXIT	7	06974	J0000
2500	*						
2501	*						
2502	S5SET	MLNA	S5INAD,S5ADDR	SECTION 5- MEMORY ADDR PLACEMENT SET S5ADDR TO 20004	12	06981	D1600615721/
2503		MLNA	S5INAD,PLACER&10	SET PLACER TO 20004	12	06993	D1600607033/
25034		MLNA	S5,SECINDE&3	PLACE 05 IN S-XX T-0	12	07005	D1897715218/
2505		SW	SW5REP&1		6	07017	,05448
2506	*						
2507	PLACER	MLCHA	S5ACDR,20004	PLACE ACTUAL ADDR AT ACTUAL ADDR	12	07023	D1572120004X
2508	*						
2509		C	PLACER&10,NINES	TEST PLACER B ADDR FOR 9999	11	07035	C0703315955
2510		BE	TTHFIL		7	07046	J07089S
2511	FLIPF	A	CON5,S5ADDR	ADD 5 TO S5ADDR	11	07053	A1888215721
2512		A	CON5,PLACER&10	ADD 5 TO PLACER B ADDR	11	07064	A1888207033
		BNQ	ITR	STRATEGIC INQUIRY-----	7	07075	J01100Q
2513		B	PLACER		7	07082	J07023
2514	*						
2515	TTHFIL	BCE	AAC9,MEMSEL,9	TEST FOR 100K	12	07089	807182012579
2516		BCE	AAC7,MEMSEL,7	TEST FOR 80K	12	07101	807163012577
2517		BCE	AAC5,MEMSEL,5	60K	12	07113	807144012575
25199	*						
2520		BCE	FILLED,PLACER&6,3	TEST FOR 3-----	12	07125	807201070293
2521		B	FLIPF		7	07137	J07053
2522	AAC5	BCE	FILLED,PLACER&6,5	5-----	12	07144	807201070295
2523		B	FLIPF		7	07156	J07053
2524	AAC7	BCE	FILLED,PLACER&6,7	7-----	12	07163	807201070297
2525		B	FLIPF		7	07175	J07053
2526	AAC9	BCE	FILLED,PLACER&6,9	9-----	12	07182	807201070299
2527		B	FLIPF		7	07194	J07053
2532	*						
25349	*						
2535	FILLED	NOPWM		60K-80K-100K MEM SW	1	07201	N
2536		B	*&32		7	07202	J07240
2537		MLNA	S5INAD,S5ACDR	SET S5ADDR TO 20004	12	07209	D1600615721/
2538		MLNA	S5INAD,CHECK&5	CHECK	12	07221	D1600607269/



PGLIN	LABEL	OPCOD	OPERAND	CT	ADDR	INSTRUCTION
2539		B	*625	7	07233	J07264
2540		MLNA	S5INA4,S5ADDR	12	07240	D1601115721/
2541		MLNA	S5INA4,CHECKE5	12	07252	D1601107269/
2543						
2545	CHECK	C	20004,S5ADDR	11	07264	C2000415721
2546		BE	ORDCHK	7	07275	J07289S
2547		B	S5ERR	7	07282	J07455
2548						
2549	CRDCHK	C	CHECKE5,NINES	11	07289	C0726915955
2550		BE	TTHCHK	7	07300	J07343S
2551	FLIPC	A	CON5,S5ADDR	11	07307	A1888215721
2552		A	CON5,CHECKE5	11	07318	A1888207269
		BNQ	ITR	7	07329	J01100Q
2553		B	CHECK	7	07336	J07264
2554						
2555	TTHCHK	BCE	DAC9,MEMSEL,9	12	07343	B07436012579
2556		BCE	DAC7,MEMSEL,7	12	07355	B07417012577
2557		BCE	DAC5,MEMSEL,5	12	07367	B07398012575
2559						
2560		BCE	SCMPLT,CHECKE1,3	12	07379	B05310072653
2561		B	FLIPC	7	07391	J07307
2562	DACS	BCE	SCMPLT,CHECKE1,5	12	07398	B05310072655
2563		B	FLIPC	7	07410	J07307
2564	CAC7	BCE	SCMPLT,CHECKE1,7	12	07417	B05310072657
2565		B	FLIPC	7	07429	J07307
2566	DAC9	BCE	SCMPLT,CHECKE1,9	12	07436	B05310072659
2567		B	FLIPC	7	07448	J07307
2572						
2573						
2575	S5ERR	MLNA	S5ADDR,S5ERTY&6	12	07455	D1572115498V
2576		MLNA	S5ADDR,PLCONT&5	12	07467	D1572107496/
2577						
2578		MLCWA	BLANKS-5,S5ERTY&14	12	07479	D1574415506X
2579	PLCONT	MLCWB	00000,S5ERTY&14	12	07491	D0000015506P
2580			S5 ERROR TYPE-OUT			
		BNQ	ITR	7	07503	J01100Q

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PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
2581		BCE	GAC,TAD0,1	12	07510	807546010001
2582		WCPW	S5ERTY	10	07522	LXT015492W
2583		BCB1	*-16	7	07532	R075222
2584		BA1	GAC	7	07539	R07546H
2585	GAC	B	ORDCHK	7	07546	J07289
2599	*					
2600	*					
2601	TABPRT	SBR	PRTRT&5	7	07553	G08631B
2602		BCE	TNOPER,TAD5,1	12	07560	807715010051
2603		BCE	TNUPER,SECIND&3,5	12	07572	807715152185
2605		MLNA	MESCTR,CTR2	12	07584	D1575115767/
26054		S	S1,CTR2	11	07596	S1896915767
2606		MLNA	GHEAD,TESLING5	12	07607	D1953407631/
2607		B	SUBCT	7	07619	J07644
26099	*					
2610	TESLIN	C	HEAD,TABCLA	11	07626	C1617915846
2611		BU	TYORPR	7	07637	J07739/
2612	SUBCT	S	S1,CTR2	11	07644	S1896915767
2613		C	C24,CTR2	11	07655	C1900515767
26132		BE	TNOTAB	7	07666	J076915
2614		A	CN0078,TESLING5	11	07673	A18922207631
2615		B	TESLIN	7	07684	J07626
26199	*					
2620	TNOTAB	WCP	NOERTA	10	07691	M&T015523W
2621		BA1	*-16	7	07701	R07691H
2622		B	PRTRT	7	07708	J08626
26299	*					
2630	TNOPER	WCP	NOTPER	10	07719	M&T015543W
2631		BA1	*-16	7	07725	R07715H
2632		B	PRTRT	7	07732	J08626
26498	*					
26499	*					
2650	TYORPR	GW	PROSWGL,BUFFSMG1	11	07739	H0804808080
2652		BCE	*G8,TAD7,1	12	07750	807769010071
2653		B	CTRSET	7	07762	J07969
26549	*					

PRINT ERROR TABULATION AREA

SET EXIT BRANCH FROM PRINT TAB

TEST TAD5 FOR TAB BYPASS

TEST S-XX FOR 05

SET CTR2 TO MEM SIZE TAB DIGITS

REDUCE CTR BY 1

SET CMP ADDR TO HEAD TAB LINE

BYPASS FIRST CMP

TEST EACH TAB LINE FOR ALL ZERUS

TY OR PRINT TAB IF ANY LINE UNEQ

REDUCE CTR BY 1

TEST CTR FOR 24

TYPE NO TAB PERK IF EQL

ADD 0078

GO BACK TO CHK NEXT LINE

NO ERRORS TABULATED

NO TABULATION PERFORMED

TAB OUTPUT TO PRINTER IF TAD7 UP

GO TO TYPE OUTPUT

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
2655		SW	PROSW&1	6	07769	*08048
2657		CS	TEMPOR&131	6	07775	/01831
2658		CS		1	07781	/
26699	*					
2670		MLCS	CHAN1,PRLINE&1	12	07782	D15722081243
26715		MLCWS	CHAN1B,PRLINE&10	12	07794	D15723081337
26716		MLCWS	CHAN1B,PRLINE&17	12	07806	D15723081407
2672		BCE	BUF132,PRTBUF,2	12	07818	B07957012592
2673		BCE	BUF100,PRTBUF,1	12	07830	B07932012591
26739	*					
2674		MLCS	CHAN2,PRLINE&1	12	07842	D15724081243
26755		MLCWS	CHAN2B,PRLINE&10	12	07854	D15725081337
26756		MLCWS	CHAN2B,PRLINE&17	12	07866	D15725081407
2676		BCE	BUF132,PRTBUF&1,2	12	07878	B07957012602
2677		BCE	BUF100,PRTBUF&1,1	12	07890	B07932012601
26899	*					
2690		CM	PROSW&1	6	07902	#08048
2691		WCP	NOPBFS	10	07908	M&T015567W
2692		BA1	*-16	7	07918	R07908M
2693		B	CTRSET	7	07925	J07969
26999	*					
2700	BUF100	SW	BUFFSW&1	6	07932	*08080
2701		MLCWS	GM,TEMPOR&100	12	07938	D01912018007
2702		B	*&13	7	07950	J07969
2703	BUF132	MLCWS	GM,TEMPOR&132	12	07957	D01912018327
27199	*					
2720	CTRSET	MLNA	MESCIR,CTR2	12	07969	D15751157677
2721		MLNA	&LEAD,TETLEY&5	12	07981	D19539080347
2722		MLNA	&TABCLA,TETLEY&10	12	07993	D19544080397
2723		MLNA	&LEADER,TYLINE&8	12	08005	D19549080637
2724		MLNA	&LEADER,COMADD	12	08017	D19549194767
27249	*					
2725	TETLEY	C	LEAD,TABCLA	11	08029	C1610115846
2726		BE	SUBCTR	7	08040	J08147S
27269	*					
2727	PROSW	NOPWM	PRINTER OUTPUT SWITCH	1	08047	N

NO CHAN PRINTER A/O BUF SIZ SPEC

SET CTR2 TO MEM SIZ TAB CT

SET CMP A ADDR TO LEAD TAB LINE

SET CMP B ADDR

SET LDR START ADDR IN WR ADDR

SET LDR START ADDR IN REF AREA

TEST EACH LINE FOR ZEROS

BYPASS LINE OUTPUT IF EQUAL

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
2728		B	BUFSW	7	08048	J08079
27299	*					
2730	TYLINE	WCP	LEADER	10	08055	M%T016025W
2731		BAL	*-16	7	08065	R08055M
2732		B	SUBCTR	7	08072	J08147
2733	BUFSW	NOPWM		1	08079	N
2734		B	SCRUBC	7	08080	J08093
2735		CS	TEMPORE131	6	08087	/01831
2736	SCRUBC	CS	TEMPORE99	6	08093	/01799
27379	*					
2739		MLNA	COMADD,CONTPL&S	12	08099	D1947608116/
2740	CONTPL	MRCC	00000,TEMPOR	12	08111	D0000001700\$
27419	*					
2742	PRLINE	W	TEMPOR	10	08123	M%2001700M
2743		BEX1	*-16,3	7	08133	R081233
2744		BAL	*&1	7	08140	R08147M
27449	*					
2745	SUBCTR	S	S1,CTR2	11	08147	S1896915767
2746		BZ	ENDIYB	7	08158	J08407V
27469	*					
2747		C	C24,CTR2	11	08165	C1900515767
2748		BH	ADD78	7	08176	J08273U
2749		BE	EQL24	7	08183	J08302S
2750		C	S2,CTR2	11	08190	C1897115767
2751		BH	ADD84	7	08201	J08244U
2752		BE	EQL02	7	08208	J08345S
27529	*					
2753		A	CN024,TETLEY&S	11	08215	A1890708034
2754		A	CN024,COMADD	11	08226	A1890719476
2756		B	EQL02R	7	08237	J08369
27599	*					
2760	ADD84	A	C0N84,TETLEY&S	11	08244	A1892708034
2761		A	C0N84,COMADD	11	08255	A1892719476
2762		B	COMREF	7	08266	J08388
27649	*					
2765	ADD78	A	CN0078,TETLEY&S	11	08273	A1892208034

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDR	INSTRUCTION
2766		A	CN0078,COMADD	11	08284	A1892219476
2767		B	COMREF	7	08295	J08388
27699						
2770	EQL24	MLNA	&SGLEAD,TETLEY&5	12	08302	D1955408034/
2771		MLNA	&LEADSG,COMADD	12	08314	D1955919476/
2772		MLNA	&TABGAG,TETLEY&10	12	08326	D1956408039/
2773		B	COMREF	7	08338	J08388
27749						
2775	EQL02	MLNA	&SSLEA,TETLEY&5	12	08345	D1956908034/
2776		MLNA	&LEADSS,COMADD	12	08357	D1957419476/
2777	EQL02R	MLNA	COMADD,TYLINE&8	12	08369	D1947608063/
2778		B	PROSH	7	08381	J08047
27799						
2780	COMREF	MLNA	COMADD,TYLINE&8	12	08380	D1947608063/
2781		B	TETLEY	7	08400	J08029
29049						
2905	ENDTYB	MLCA	TABCLA,ODD89	12	08407	D1584616803T
2906		MLCA	TABCLA,EVEN89	12	08419	D1584616725T
2907		MLCA	TABCLA,ODD67	12	08431	D1584616647T
2908		MLCA	TABCLA,EVEN67	12	08443	D1584616569T
2909		MLCA	TABCLA,ODD45	12	08455	D1584616491T
2910		MLCA	TABCLA,EVEN45	12	08467	D1584616413T
2911		MLCA	TABCLA,ODD23	12	08479	D1584616335T
2912		MLCA	TABCLA,EVEN23	12	08491	D1584616257T
29139						
2914		CW	CLAPSW&1	6	08503	M08582
2915		MLNA	&GATEO,CLAPAB&10	12	08509	D1949908543/
2916		MLNA	S10,CTR2	12	08521	D1898715767/
29169						
2917	CLAPAB	MLCA	TABGAG,GATEO	12	08533	D1592616971T
2918		S	S1,CTR2	11	08545	S1896915767
2919		BZ	CLAPSW	7	08556	J08581V
2920		A	CON84,CLAPAB&10	11	08563	A1892708543
2921		B	CLAPAB	7	08574	J08533
29219						
2922	CLAPSW	NOPWM	X-Y TAB CLEAR EXIT SW	1	08581	N

PGLIN	LABEL	OPCODE	OPERAND	CT	ADDR	INSTRUCTION
2923		B	*626	7	08582	J08614
29232		SW	CLAPSW&1	6	08589	,08582
2924		MLNA	EWINDO,CLAPAB&10	12	08595	D1950408543/
2925		B	CLAPAB-12	7	08607	J08521
29259						
2926		MLCA	TABCLA-54,LINZ8D	12	08614	D1579218699T
2999	PRTRT	B	00000	7	08626	J00000
3000			SECTION 6 SETUP			W-BA--21
3001						-C--84--
3003	S6SET	MLCWA	CONS6,PLUS&24	12	08633	D1882501937X
3004		MLCWA	CONS7,MINUS&24	12	08645	D1885001963X
30044		CH	PLUS,MINUS	11	08657	D0191301939
30046		MLNA	S6,SECINDE&3	12	08668	D1897915218/
30048		MLNA	S6,SECCINE&3	12	08680	D1897915223/
3006		SW	SW6REP&1	6	08692	,05440
3007		SW	SW613A&1	6	08698	,10140
3015		B	WMPLUS	7	08704	J09531
3020			SECTION 7 SETUP			-C--84--
3021						W-BA--21
3023	S7SET	MLCWA	CONS7,PLUS&24	12	08711	D1885001937X
3024		MLCWA	CONS6,MINUS&24	12	08723	D1882501963X
30244		CH	PLUS,MINUS	11	08735	D0191301939
30246		MLNA	S7,SECINDE&3	12	08746	D1098115218/
30248		MLNA	S7,SECCINE&3	12	08758	D1898115223/
3026		SW	SW7REP&1	6	08770	,05432
3028		SW	SW613A&1	6	08776	,10140
3030		SW	SC7RE&1	6	08782	,13728
3035		B	WMINS	7	08788	J09496
3040			SECTION 8 SETUP			-CBA8421
3041						W-----
3043	S8SET	MLCWA	CONS1,PLUS&24	12	08795	D1872501937X
3044		MLCWA	CONS2,MINUS&24	12	08807	D1875001963X
30444		CH	PLUS,MINUS	11	08819	D0191301939
30446		MLNA	S8,SECINDE&3	12	08830	D1898315218/
30448		MLNA	S8,SECCINE&3	12	08842	D1898315223/
3046		SW	SW8REP&1	6	08854	,05424

PGLIN LABEL OPCODE OPERAND CT ADDR INSTRUCTION

PGLIN	LABEL	OPCODE	OPERAND	CT	ADDR	INSTRUCTION
3047		SW	SW613A&1	6	08860	,10140
3049		SW	SC8RE&1	6	08866	,13720
3055		B	WMMINS	7	08872	J09496
3060	*					
3061	*					
SECTION 9 SETUP W-----						
3063	S9SET	MLCWA	CONS2,PLUS&24	12	08879	D1875001937X
3064		MLCWA	CONS1,MINUS&24	12	08891	D1872501963X
30644		CW	PLUS,MINUS	11	08903	#0191301939
30646		MLNA	S9,SECINDE&3	12	08914	D1898515218/
30648		MLNA	S9,SECCINE&3	12	08926	D1898515223/
3066		SW	SW9REP&1	6	08938	,05416
3067		SW	SW613A&1	6	08944	,10140
3069		SW	SC9RE&1	6	08950	,13712
3075		B	WMPPLUS	7	08956	J09531
3080	*					
3081	*					
SECTION 10 SETUP WC-A-4-1						
3083	S10SET	MLCWA	CONS3,PLUS&24	12	08963	D1877501937X
3084		MLCWA	CONS4,MINUS&24	12	08975	D1880001963X
30844		CW	PLUS,MINUS	11	08987	#0191301939
30846		MLNA	S10,SECINDE&3	12	08998	D1898715218/
30848		MLNA	S10,SECCINE&3	12	09010	D1898715223/
3086		SW	SW10RE&1	6	09022	,05408
3087		SW	SW613A&1	6	09028	,10140
3089		SW	SC10RE&1	6	09034	,13704
3095		B	WMPPLUS	7	09040	J09531
3100	*					
3101	*					
SECTION 11 SETUP --B-8-2-						
3103	S11SET	MLCWA	CONS4,PLUS&24	12	09047	D1880001937X
3104		MLCWA	CONS3,MINUS&24	12	09059	D1877501963X
31044		CW	PLUS,MINUS	11	09071	#0191301939
31046		MLNA	S11,SECINDE&3	12	09082	D1898915218/
31048		MLNA	S11,SECCINE&3	12	09094	D1898915223/
3106		SW	SW11RE&1	6	09106	,05400
3107		SW	SW613A&1	6	09112	,10140
3109		SW	SC11KE&1	6	09118	,13696
3115		B	WMMINS	7	09124	J09496

PGLIN OPCODE OPERAND LABEL

1410 MEMORY RELIABILITY 12-3-63

SECTION 12 SETUP- DIAGONAL TEST PATH BEAT ALL M-----  
 WITH ALL -CBA8421

CT ADDR INSTRUCTION

3120	*	SECTION 12 SETUP-	DIAGONAL TEST PATH BEAT ALL M-----		
3121	*		WITH ALL -CBA8421		
3123	S12SET	MLCWA	CONS2,PLUS&24	PLACE 25 BLANK CHAR	12 09131 D1875001937X
3124		MLCWA	CONS2,MINUS&24	25 BLANK	12 09143 D1875001963X
31246		MLNA	S12,SECINDE&3	PLACE 12 IN S-XX T-0	12 09155 D1899115218/
3126		SW	SW12REG&1		6 09167 ,05392
3127		SW	SW1213&1		6 09173 ,10132
3129		MLNA	&CONS12,TBA&5	SET ALL TBA A ADDR	12 09179 D1957914091/
31292		MLNA	&CONS12,TBA&5		12 09191 D1957914079/
3130		MLNA	&CONS12,TBA&5		12 09203 D1957914060/
31302		MLNA	&CONS12,TBA&5		12 09215 D1957914048/
3131		MLNA	&CONS12,TBA&5		12 09227 D1957914036/
3132		MLNA	&CONS12,TBA&5		12 09239 D1957914024/
31322		MLNA	&CONS12,TBA&5		12 09251 D1957914012/
31324		MLNA	&CONS12,TBA&5		12 09263 D1957914000/
3133		MLCS	CONS2,SAX&11	SET SAX 0 MOD TO BLANK	12 09275 D18750143133
3135		B	WMALL		7 09287 J09468

SECTION 13 SETUP- DIAGONAL TEST PATH BEAT ALL -CRA8421  
 WITH ALL M-----

3141	*	SECTION 13 SETUP-	DIAGONAL TEST PATH BEAT ALL -CRA8421		
3143	S13SET	MLCWA	CONS1,PLUS&24	PLACE 25 GM CHARS	12 09294 D1872501937X
3144		MLCWA	CONS1,MINUS&24	25 GM	12 09306 D1872501963X
31444		CM	PLUS,MINUS		11 09318 #0191301939
31446		MLNA	S13,SECINDE&3	PLACE 13 IN S-XX T-0	12 09329 D1899315218/
3146		SW	SW13HE&1		6 09341 ,05384
3147		SW	SW1213&1		6 09347 ,10132
3149		MLNA	&CONS13,TBA&5	SET ALL TBA A ADDR	12 09353 D1958414091/
31492		MLNA	&CONS13,TBA&5		12 09365 D1958414079/
3150		MLNA	&CONS13,TBA&5		12 09377 D1958414060/
31502		MLNA	&CONS13,TBA&5		12 09389 D1958414048/
3151		MLNA	&CONS13,TBA&5		12 09401 D1958414036/
3152		MLNA	&CONS13,TBA&5		12 09413 D1958414024/
31522		MLNA	&CONS13,TBA&5		12 09425 D1958414012/
31524		MLNA	&CONS13,TBA&5		12 09437 D1958414000/
3153		MLCS	CONS1,SAX&11	SET SAX 0 MOD TO GM	12 09449 D18725143133
3155		B	CLBESE		7 09461 J09559
31699	*		SET M-S IN PLUS AND MINUS FLD		



PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
3170	WMALL	SW	PLUS&24	6	09468	,01937
31702		SW	PLUS&23,PLUS&11	11	09474	,0193601924
3171		SW		1	09485	,
3172		SW		1	09486	,
3173		SW		1	09487	,
3174		SW		1	09488	,
3175		SW		1	09489	,
3176		SW		1	09490	,
3177		SW		1	09491	,
3178		SW		1	09492	,
3179		SW		1	09493	,
31792		SW		1	09494	,
31794		SW		1	09495	,
3180	WMINS	SW	MINUS&24	6	09496	,01963
31802		SW	MINUS&23,MINUS&11	11	09502	,0196201950
3181		SW		1	09513	,
3182		SW		1	09514	,
3183		SW		1	09515	,
3184		SW		1	09516	,
3185		SW		1	09517	,
3186		SW		1	09518	,
3187		SW		1	09519	,
3188		SW		1	09520	,
3189		SW		1	09521	,
31892		SW		1	09522	,
31894		SW		1	09523	,
3190		B	CLBESE	7	09524	J09559
31999			SET WM-S IN PLUS FIELD			
3200	WMPLUS	SW	PLUS&24	6	09531	,01937
32002		SW	PLUS&23,PLUS&11	11	09537	,0193601924
3201		SW		1	09548	,
3202		SW		1	09549	,
3203		SW		1	09550	,
3204		SW		1	09551	,
3205		SW		1	09552	,
3206		SW		1	09553	,

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
3207		SW		1	09554	,
3208		SW		1	09555	,
3209		SW		1	09556	,
32092		SW		1	09557	,
32094		SW		1	09558	,
32199			CLEAR MEMORY OTA BETWEEN SECTIONS			
3220	CLBESE	BCE	CLUB9, MEMSEL, 9	12	09559	B09652012579
3221		BCE	CLUB7, MEMSEL, 7	12	09571	B09633012577
3222		BCE	CLUB5, MEMSEL, 5	12	09583	B09614012575
32229						
3223		MLNA	FA40H, CLOTA65	12	09595	D1594609675/
3224		B	CLOTA-6	7	09607	J09664
3225	CLUB5	MLNA	FA60H, CLOTA65	12	09614	D1594109675/
3226		B	CLOTA-6	7	09626	J09664
3227	CLUB7	MLNA	FA80H, CLOTA65	12	09633	D1593609675/
3228		B	CLOTA-6	7	09645	J09664
32282	CLUB9	MLNA	FA100H, CLOTA65	12	09652	D1593109675/
32299						
3230		SW	20000	6	09664	,20000
3231	CLOTA	CS	79999	6	09670	/79999
3232		SBR	CLOTA65	7	09676	G09675B
3233		BW	CLOTA, 20000	12	09683	V09670200001
32338						
32339			COMMON MEMORY OTA FILL- ALL SECTS, EXCEPT S-5			
3234		CS	SETUPA699	6	09695	/01499
3235		CS	SETUPB699	6	09701	/01699
32399			FILL SETUP A & B FIELDS			
3240		MRCWG	PLUS, SETUPA	12	09707	D0191301400L
3241		MRCWG	MINUS, SETUPA625	12	09719	D0193901425L
3242		MRCWG	MINUS, SETUPA650	12	09731	D0193901450L
3243		MRCWG	PLUS, SETUPA675	12	09743	D0191301475L
32439						
3244		MRCWG	MINUS, SETUPB	12	09755	D0193901600L
3245		MRCWG	PLUS, SETUPB625	12	09767	D0191301625L
3246		MRCWG	PLUS, SETUPB650	12	09779	D0191301650L
3247		MRCWG	MINUS, SETUPB675	12	09791	D0193901675L

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
32999	*		FILL 20000-29999			
3300		CW	INFSWG1	6	09803	809887
3301		MLNA	6SETUPA,INFIL265	12	09809	D1958909838/
3302		MLNA	INFAD2,INFIL2610	12	09821	D1599609843/
33049	*					
3305	INFIL2	MRCWG	SETUPA,20000	12	09833	D0140020000L <sup>D</sup>
3306		C	INFIL268,NINES-2	11	09845	C0984115953
3307		BE	INFIL3	7	09856	J09975S
3308		A	CON100,INFIL2610	11	09863	A1890209843
3309		BCE	INFIB,INFIL268,5	12	09874	B09944098415
33099	*					
3310	INFSW	NOPWM		1	09886	N
3311		B	INFIA	7	09887	J09919
3312		SW	INFSWG1	6	09894	,09887
3313		MLNA	6SETUPB,INFIL265	12	09900	D1959409838/
3314		B	INFIL2	7	09912	J09833
3315	INFIA	CW	INFSWG1	6	09919	809887
3316		MLNA	6SETUPA,INFIL265	12	09925	D1958909838/
3317		B	INFIL2	7	09937	J09833
33179	*					
3318	INFIB	BCE	INFIL2,INFIL267,2	12	09944	809833098402
3319		BCE	INFIL2,INFIL267,7	12	09956	809833098407
3320		B	INFSW	7	09968	J09886
33249	*					
3325	INFIL3	MLCWB	29999,39999	12	09975	D2999939999P
33258	*					
33259	*		CLEAR & SET CMP FIELDS A & B	6	09987	/01399
3326		CS	CMPLAA	12	09993	D0140001300\$
3327		MRCG	SETUPA,CMPFDA	12	09993	D0140001300\$
33279	*					
3328		CS	CMPLAB	6	10005	/01599
3329		MRCG	SETUPB,CMPFDB	12	10011	D0160001500\$
33299	*					
3330		BCE	FILHUN,MESEL,9	12	10023	B10066012579
3331		BCE	FILEGT,MESEL,7	12	10035	B10084012577
3332		BCE	FILSIX,MESEL,5	12	10047	B10102012575

PGLIN	LABEL	OPCODE	OPERAND	CT	ADDRS	INSTRUCTION
3333		B	COCHKA	7	10059	J10120
3334	*					
3335	FILHUN	SW	80000	6	10066	,80000
3336		MLCWB	39999,99999	12	10072	D3999999999P
3337	FILEGT	SW	60000	6	10084	,60000
3338		MLCWB	39999,79999	12	10090	D3999979999P
3339	FILSIX	SW	40000	6	10102	,40000
3340		MLCWB	39999,59999	12	10108	D3999959999P
3399	*					
3400	*		COMMON CHECKING AREA- ALL SECTIONS,EXCEPT S-5			
3408	COCHKA	SW	CMPFDA,CMPFDB	11	10120	,0130001500
3409	*					
3413	SW1213	NOPWM		1	10131	N
3414		B	HAFSEL	7	10132	J13849
3415	SW613A	NOPWM		1	10139	N
3416		B	BYDIS	7	10140	J10154
3417		B	DISCRM	7	10147	J10173
3420	BYDIS	BCE	CPISET,TAD8,1	12	10154	B11727010081
3421		B	DISCRM	7	10166	J10173
3429	*					
3430	*		DISCRIMINATION CHECKING AREA- ALL SECTIONS,EXCEPT S-5			
3431	DISCRM	NOPWM		1	10173	N
3432		B	*E20	7	10174	J10200
3433		MLNA	INCM2,CCCMP&5	12	10181	D1601610241/
3434		B	*E13	7	10193	J10212
3435		MLNA	INCM4,CCCMP&5	12	10200	D1602110241/
3436		MLNA	ECMPLA,CCCMP&10	12	10212	D1959910246/
34362		CW	CCREV&1	6	10224	D111157
3439	*					
3440		CW	SWSC&1	6	10230	D10360
3441	CCCMP	C	0000,CMPLAA	11	10236	C0000001399
3442		BU	SCSET	7	10247	J10260/
3443		SW	SWSC&1	6	10254	,10360
3444	*					
3445	SCSET	SW	SCCMP&6,CHKWM&6	11	10260	,1037310399
3446		MLNWB	CCCMP&5,SCCMP&10	12	10271	D1024110377N

PGLIN	LABEL	OPCODE	OPERAND	CT	ADDRS	INSTRUCTION
3447		S	CONRED,SCCMP&10	11	10283	S1598610377
3448		MLNWB	SCCMP&10,CHKWM&10	12	10294	D1037710403N
34484		MLNB	CCCMP&5,HTUADD	12	10306	D1024119479J
3449		SW	CMPSET&1	6	10318	,10348
3450		MLNWB	CCCMP&10,CMPSET&5	12	10324	D1024610352N
3451		S	CONRED,CMPSET&5	11	10336	S1598610352
34538						
34539						
3454	CMPSET	MLCS	CMPFDA,SCCMP&11	12	10347	D01300103783
3455	SWSC	NOPWH		1	10359	N
3456		B	CHKWM	7	10360	J10393
34569						
3457	SCCMP	BCE	CHKWM,00000,M <sup>G</sup>	12	10367	B1039300000M <sup>G</sup>
3458		B	NOTEQL	7	10379	J10412
3459		B	SCINC	7	10386	J11044
34599						
3460	CHKWM	BW	UPWM,00000	12	10393	V10696000001
3461		B	DOWN	7	10405	J10715
3462						
3465	NOTEQL	SBR	VARRET&5	7	10412	G049928
34654		MLNB	SCCMP&10,COMADD	12	10419	D1037719476J
3466		MLCA	BLITZ,BITTER	12	10431	D1573901866T
34664		MLCA	BLITZ-4,ISCHAR	12	10443	D1573501856T
34669						
3468		BBE	NOTEQ2,SCCMP&11,8	12	10455	W10474103788
3469		B	NOTEQ4	7	10467	J10505
34699						
3471	NOTEQ2	BCE	S18B,SCCMP&11,M <sup>G</sup>	12	10474	80453110378M <sup>G</sup>
3473		BCE	S48B,SCCMP&11,8	12	10486	804771103788
3474		B	S78B	7	10498	J10616
34749						
3476	NOTEQ4	BCE	S28B,SCCMP&11,8	12	10505	80461110378
3478		BCE	S38B,SCCMP&11,V	12	10517	80469110378V
34784		B	S68B	7	10529	J10536
34789						
3479						

SECTIONS 6-7 CHAR C BIT BREAKDOWN

PGLIN	LABEL	OPCODE	OPERAND	CT	ADDRS	INSTRUCTION
3480	S688	MLCA	S6SB-6,S8CHAR	12	10536	D1570001850T
3483		MLCWS	CONS6-24,CORREC	12	10548	D18801157657
34849	*		CHAR WM-C SHOULD BE W-BA--21			
3485		B	COMWP	7	10560	J03680
3487		B	COMBP	7	10567	J03787
3488		B	COMAP	7	10574	J03894
3489		B	COM8D	7	10581	J03944
3490		B	COM4D	7	10588	J04051
3491		B	COM2P	7	10595	J04215
3492		B	COM1P	7	10602	J04322
3493		B	PLACAD	7	10609	J04851
35299	*		SECTIONS 6-7 CHAR @ BIT BREAKDOWN			
3530	*	MLCA	S7SB-6,S8CHAR	12	10616	D1571001850T
3531	S788	MLCWS	CONS7-4,CORREC	12	10628	D18846157657
3533			CHAR ---@ SHOULD BE -C--84--			
35349	*		TEST FOR WM DOWN			
3535		B	COMWD	7	10640	J03623
3537		B	COM8D	7	10647	J03730
3538		B	COMAD	7	10654	J03837
3539		B	COM8P	7	10661	J04001
3540		B	COM4P	7	10668	J04108
3541		B	COM2D	7	10675	J04158
3542		B	COM1D	7	10682	J04265
3543		B	PLACAD	7	10689	J04851
3578	*		TEST FOR WM DOWN			
3579	*	B8E	PICKWM,SCCMP&11,8	12	10696	W10741103788
3581	UPWM	B	SCINC	7	10708	J11044
3582	COMM	B8E	SCINC,SCCMP&11,8	12	10715	W11044103788
3584		B	DROPHM	7	10727	J10883
3585		B	SCINC	7	10734	J11044
35854	*		ERROR- CHAR IS GM,EX PT,OR @			
35859	PICKWM	S8R	VARRET&5	7	10741	G04992B
3586		MLCA	BLITZ,BITTER	12	10748	D1573901866T
35862		MLCS	PICK,BITTER-7	12	10760	D15726018593
35864		MLNB	CHKWM&10,COMADD	12	10772	D1040319476J
35866			RESET BIT BREAKDOWN TO -----			
			PLACE P			
			PLACE CHKWM ADDR IN COMADD			

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
35869	.					
35874		BCE	PWM4,SCCMP&11,M <sup>G</sup>	12	10784	81084610378M
35884		BCE	PWM3,SCCMP&11,.	12	10796	81082710378.
35889	.					
3589	PWM23	MLCA	S7SB,ISCHAR	12	10808	D1571601856T
35894		B	PWM5	7	10820	J10858
3590	PWM3	MLCA	S4SB,ISCHAR	12	10827	D1569601856T
35904		B	PWM5	7	10839	J10858
3591	PWM4	MLCA	S1SB,ISCHAR	12	10846	D1566601856T
35912	PWM5	MLNA	COMADD,CLERR&5	12	10858	D1947610875/
35914	CLERR	CM	00000	6	10870	00000
35916		B	ADDRPL	7	10876	J11018
35919	.					
3592	CROPWM	SR	VARRET&5	7	10883	G049928
35922		MLCA	BLITZ,BITTER	12	10890	D1573901866T
35924		MLCS	DRUP,BITTER-7	12	10902	D15727018593
35926		MLNB	CHKWM&10,COMADD	12	10914	D1040319476J
35929	.					
35934		BCE	DWM4,SCCMP&11,	12	10926	81098810378
35944		BCE	DWM3,SCCMP&11,V	12	10938	81096910378V
35949	.					
3595	CHP23	MLCA	S6SB,ISCHAR	12	10950	D1570601856T
35954		B	DWM5	7	10962	J11000
3596	DWM3	MLCA	S3SB,ISCHAR	12	10969	D1568601856T
35964		B	DWM5	7	10981	J11000
3597	DWM4	MLCA	S2SB,ISCHAR	12	10988	D1567601856T
35972	DWM5	MLNA	COMADD,STERR&5	12	11000	D1947611017/
35974	STERR	SM	00000	6	11012	00000
3599	.					
3600	ADDRPL	MLNA	COMADD,ERRADD	12	11018	D1947601844/
3601		B	CMDET	7	11030	J04372
3602		B	ERRIND	7	11037	J04901
3639	.					
3640	SCINC	C	SCCMP&10,HTUADD	11	11044	C1037719479
3641		BE	CCINC	7	11055	J111095
3642	.					

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
3643		A	CON1,SCCMP&1C	11	11062	A1886710377
36434		A	CON1,CMPSET&5	11	11073	A1886710352
3644		A	CON1,CHKMM&1C	11	11084	A1886710403
3645		BNO	STRATEGIC INQUIRY-----	7	11095	J01100Q
3645		B	CMPSET	7	11102	J10347
36459				6	11109	010360
3646	CCINC	CH	SWSC&1	11	11115	C1023915953
3647		C	CCCMP&3,NINES-2	7	11126	J11245S
3648		BE	CCITH			
36489				11	11133	A1599110241
3649	CCINCA	A	CONM,CCCMP&5	12	11144	B11214102395
3650		BCE	CCNREV,CCCMP&3,5			
36509				1	11156	N
3651	CCREV	NOPWM	BINARY SHIFT SW	7	11157	J11189
36512		B	CCREV1	6	11164	,11157
3652		SW	CCREV&1	12	11170	D1960410246/
36522		MLNA	ECMPLAB,CCCMP&10	7	11182	J10236
3653		B	CCCMP	6	11189	011157
3654	CCREV1	CH	CCREV&1	12	11195	D1959910246/
36542		MLNA	ECMPLAA,CCCMP&10	7	11207	J10236
3655		B	CCCMP			
36559				12	11214	B10236102382
3656	CCNREV	BCE	CCCMP,CCCMP&2,2	12	11226	B10236102387
3657		BCE	CCCMP,CCCMP&2,7	7	11238	J11156
3658		B	CCREV			
3659				12	11245	B11338012579
3660	CCTTM	BCE	CCTTM9,MEMSEL,9	12	11257	B11319012577
3661		BCE	CCTTH7,MEMSEL,7	12	11269	B11300012575
3662		BCE	CCTTH5,MEMSEL,5			
3664				12	11281	B05310102373
3665		BCE	SCMPLT,CCCMP&1,3	7	11293	J11133
3667		B	CCINCA			
3668				12	11300	B05310102375
3669	CCTTM5	BCE	SCMPLT,CCCMP&1,5	7	11312	J11133
3670		B	CCINCA			
3671	CCTTM7	BCE	SCMPLT,CCCMP&1,7	12	11319	B05310102377

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PGLIN	LABEL	OPCODE	OPERAND	CT	ADDRS	INSTRUCTION
3672		B	CCINCA	7	11331	J11133
3673	CCITH9	BCE	SCMPLT,CCCMP&1,9	12	11338	805310102379
3674		B	CCINCA	7	11350	J11133
3798	*					
3799	*		TABLE SEARCH ROUTINE - FOR ACTUAL ERROR CHAR			
3800	TABSEA	SBR	SEARETC5	7	11357	G117258
3801		MLCA	BLITZ-4,ISCHAR	12	11364	D1573501856T
3802		MLCWA	BLITZ-2,SEARCH	12	11376	D1573719471X
38049	*					
38099	*					
3810		MLNA	COMADD,JAC&10	12	11388	D1947611482/
3811		MLNA	COMADD,LAC&10	12	11400	D1947611513/
3812		MLNA	COMADD,NAC&10	12	11412	D1947611544/
3813		MLNA	COMADD,PAC&10	12	11424	D1947611575/
3814		MLNA	COMADD,RAC&10	12	11436	D1947611606/
3815		MLNA	COMADD,TAC&10	12	11448	D1947611637/
3816		MLNA	COMADD,VAC&10	12	11460	D1947611668/
38199	*					
3820	JAC	BW	KAC,0	12	11472	V11491000001
3821		B	LAC	7	11484	J111503
3822	KAC	MLCA	S2SB-0,ISCHAR-2	12	11491	D1566801854T
38229	*					
3823	LAC	BBE	MAC,0,-	12	11503	W1152200000-
3824		B	NAC	7	11515	J111534
3825	MAC	MLCS	CON1,SEARCH-5	12	11522	D18867194663
3826	NAC	BBE	OAC,0,0	12	11534	W11553000008
3827		B	PAC	7	11546	J111565
3828	OAC	MLCS	CON1,SEARCH-4	12	11553	D18867194673
3829	PAC	BBE	QAC,0,0	12	11565	W11584000008
3830		B	RAC	7	11577	J111596
3831	QAC	MLCS	CON1,SEARCH-3	12	11584	D18867194683
3832	RAC	BBE	SAC,0,4	12	11596	W11615000004
3833		B	TAC	7	11608	J111627
3834	SAC	MLCS	CON1,SEARCH-2	12	11615	D18867194693
3835	TAC	BBE	UAC,0,2	12	11627	W11646000002
3836		B	VAC	7	11639	J111658

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
3837	UAC	MLCS	CON1,SEARCH-1	12	11646	D18867194703
3838	VAC	BBE	WAC,0,1	12	11658	W11677000001
3839		B	LOOKUP	7	11670	J11689
3840	WAC	MLCS	CON1,SEARCH	12	11677	D18867194713
38449	*					
3845	LOOKUP	LE	SEARCH,TLETAB	12	11689	T19471194652
3846		SBR	PLACIS&5	7	11701	G117138
3847	PLACIS	MLCS	00000,ISCHAR	12	11708	D00000018563
3848	SEAR1	B	00000	7	11720	J00000
3999	*					
4000	*					
4001	*					
4002	CPTSET	CH	RESW3&1,RESW2&1	11	11727	D1263412626
40022		CH	RESW1&1	6	11738	D12618
40024		CH	REGMODE1	6	11744	D12888
40029	*					
4003		BCE	CPSET1,MEMSEL,9	12	11750	B11793012579
4004		BCE	CPSET2,MEMSEL,7	12	11762	B11811012577
4005		BCE	CPSET3,MEMSEL,5	12	11774	B11840012575
4006		B	CPSET4	7	11786	J11869
40069	*					
4007	CPSET1	SW	RESW1&1,REGMODE1	11	11793	D1261812888
40072		B	CPSET6	7	11804	J11888
4008	CPSET2	SW	RESW2&1,REGMODE1	11	11811	D1262612888
40082		SW	REGSW8&1,REGSW9&1	11	11822	D1309413127
40084		B	CPSET6	7	11833	J11888
4009	CPSET3	SW	RESW3&1,REGMODE1	11	11840	D1263412888
40092	CPSET5	SW	REGSW6&1,REGSW7&1	11	11851	D1302813061
40094		B	CPSET6	7	11862	J11888
40099	*					
4010	CPSET4	MLNA	C20000,POSTAD	12	11869	D1596515960/
40102		B	SLASH	7	11881	J11900
4012	CPSET6	MLNA	C40000,POSTAD	12	11888	D1597015960/
40148	*					
40149	*					
4015	SLASH	BBE	SABRE,CMPF0A,/	12	11900	W1194301300/

TEST FOR 1 BIT  
 EXECUTE TABLE LOOKUP FOR EQUAL  
 SET A ADDR OF PLACIS  
 PLACE CHAR FOUND IN ISCHAR OF TO  
 EXIT  
 SECTIONS 6-7 8-9 10-11 COMPLEMENTING SETUP AREA  
 CLEAR ALL MEMORY LIMIT SWITCHES  
 TEST FOR 100K  
 80K  
 60K  
 MUST BE 40K  
 SET MEMORY LIMIT REGENERATION CHK SWITCHES  
 SET FOR 100K  
 SET FOR 80K  
 SET 80K LIMIT SW-S  
 SET FOR 60K  
 SET 60K LIMIT SW-S  
 SET 40K MODE ST ADDR  
 SET 60-80K-100K MODE START ADDR  
 TEST CMPFLD CHAR FOR A AND 1 BIT

PGLIN	LABEL	OPCODE	OPERAND	CT	ADDRS	INSTRUCTION
40159	*		MUST BE SECTION 7,9,OR 11 - CHAR IS BL,EP,OR @			
4016		BCE	SWORDL,CMPFDA, TEST FOR BLANK	12	11912	B1195501300
4017		BCE	SWORDH,CMPFDA, TEST FOR EX PT	12	11924	B1197301300
4018		B	SWORDH MUST BE @	7	11936	J111973
40189	*		MUST BE SECTION 6,8,OR 10 - CHAR IS GM,V,OR C			
4019	SABRE	BCE	SWORDH,CMPFDA,M TEST FOR GM	12	11943	B1197301300 <sup>G</sup>
40199	*		MUST BE V OR C			
4020	SWORDL	SW	CMPFDA&1,CMPFDA&2 SET WM-S AT CMPFDA 1-2	11	11955	,0130101302
4021		B	RESALT	7	11966	J11984
4022	SWORDH	SW	CMPFDB&1,CMPFDB&2 SET WM-S AT CMPFDB 1-2	11	11973	,0150101502
40248	*					
40249	*					
4025	RESALT	CW	ALTER&1,ALTER&2 RESET ALL ALTERNATE SWITCHES	11	11984	D1207312124
4026		CW	ALTER&1,ALTER&2	11	11995	D1257813184
4027		MLNA	MOSTAD,HBLAST&10 SET INIT ADDR	12	12006	D1596012090/
4028		MLNA	MOSTAD,LBLAST&10	12	12018	D1596012109/
4029		MLNA	MOSTAD,FILTER&5	12	12030	D1596012116/
4030		MLNA	MOSTAD,RECPTL&10	12	12042	D1596013201/
4031		MLNA	MOSTAD,RECPTH&10	12	12054	D1596013220/
4032		CW	SHIFT&1 RESET BINARY SHIFT SWITCH	6	12066	D13545
40348	*					
40349	*					
4035	ALTER1	NOPWM	ALTERNATE SWITCH-1	1	12072	N
4036		B	LBLAST	7	12073	J12099
40369	*					
4037	HBLAST	MLCWS	CMPFDB&2,00000 ONE CHAR CMLPMT M-L	12	12080	D01502000007
4039		B	FILTER	7	12092	J12111
40399	*					
4040	LBLAST	MLCWS	CMPFDA&2,00000 ONE CHAR CMLPMT L-M	12	12099	D01302000007
40449	*					
4045	FILTER	MLCWS	00000,CATCH ONE CHAR FILTER MOVE	12	12111	D00000157647
40498	*					
40499	*					
4050	ALTER2	NOPWM	ALTERNATE SWITCH-2	1	12123	N
4051		B	SETLOW	7	12124	J12150
4052	MLCS	CMPFDB,SGLCMP&11	SET MCMP CHAR D MOD	12	12131	D01500122143

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
4053		B	VALSET	7	12143	J12162
4054	SETLOW	MLCS	CMPFDA,SGLCMP&11	12	12150	D01300122143
40549						
4055	VALSET	CW	REGENT&1	6	12162	D12564
4056		SW	SGLCMP&6,WMCHK&6	11	12168	,1220912235
4057		MLNWB	FILTER&5,SGLCMP&10	12	12179	D1211612213N
4059		MLNWB	SGLCMP&10,WMCHK&10	12	12191	D1221312239N
40599						
4060	SGLCMP	BCE	WMCHK,00000, <sup>G</sup> M	12	12203	B1222900000M <sup>G</sup>
4061		B	UNEQL	7	12215	J12286
4062		B	BYPREG	7	12222	J12551
4063	WMCHK	BW	WMUP,00000	12	12229	V12267000001
40649						
4065		B8E	BYPREG,SGLCMP&11,8	12	12241	W12551122148
4066		B	WMCROP	7	12253	J12403
4067		B	BYPREG	7	12260	J12551
4068	WMUP	B8E	WMPICK,SGLCMP&11,8	12	12267	W12477122148
4069		B	BYPREG	7	12279	J12551
40719						
40798						
40799						
4080	UNEQL	SBR	VARRET&5	7	12286	G04992B
4081		MLCA	BLITZ,BITTER	12	12293	D1573901866T
4082		MLCA	BLITZ-4,ISCHAR	12	12305	D1573501856T
4083		MLNB	SGLCMP&10,COMADD	12	12317	D1221319476J
40839						
4084		B8E	UNEQL1,SGLCMP&11,8	12	12329	W12372122148
40849						
4085		BCE	S288,SGLCMP&11,	12	12341	80461112214
4086		BCE	S388,SGLCMP&11,V	12	12353	80469112214V
4087		B	S688	7	12365	J10536
40879						
4088	UNEQL1	BCE	S188,SGLCMP&11, <sup>G</sup> M	12	12372	80453112214M <sup>G</sup>
4089		BCE	S488,SGLCMP&11,°	12	12384	80477112214°
4090		B	S788	7	12396	J10616
40998						

-CHAR IS BL,V,OR C

-CHAR IS GM,EP,OR

-CHAR IS BL,V,OR C

-CHAR IS GM,EP,OR

-CHAR IS BL,V,OR C

-CHAR IS GM,EP,OR

-CHAR IS BL,V,OR C

-CHAR IS GM,EP,OR

-CHAR IS BL,V,OR C

-CHAR IS GM,EP,OR

-CHAR IS BL,V,OR C

-CHAR IS GM,EP,OR

-CHAR IS BL,V,OR C

-CHAR IS GM,EP,OR

-CHAR IS BL,V,OR C

-CHAR IS GM,EP,OR

-CHAR IS BL,V,OR C

-CHAR IS GM,EP,OR

-CHAR IS BL,V,OR C

-CHAR IS GM,EP,OR

-CHAR IS BL,V,OR C

-CHAR IS GM,EP,OR



PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
4152		B	REREG1	7	12626	J12659
4153	RESW3	NOPWM		1	12633	N
4154		B	REREG2	7	12634	J12670
4155		B	REREG3	7	12641	J12681
41559						
4156	REREG4	CW	REGSW8&1,REGSW9&1	11	12648	01309413127
4157	REREG1	CW	REGSW6&1,REGSW7&1	11	12659	01302813061
4158	REREG2	CW	REGSW4&1,REGSW5&1	11	12670	01296212995
4159	REREG3	CW	REGSW2&1,REGSW3&1	11	12681	01289612929
4160	REGSAC	BNQ	ITR	7	12692	J01100Q
41602		BBE	SAC2,FILTER&1,4	12	12699	W12761121124
4161		BBE	SAC6,FILTER&1,8	12	12711	W12849121128
4162		BBE	SAC1,FILTER&1,1	12	12723	W12748121121
4162		SW	REGSW2&1	6	12735	,12896
4163		B	REGSW2	7	12741	J12895
4164	SAC1	SW	REGSW3&1	6	12748	,12929
4165		B	REGSW2	7	12754	J12895
41659						
4166	SAC2	BBE	SAC4,FILTER&1,2	12	12761	W12811121122
4167		BBE	SAC3,FILTER&1,1	12	12773	W12798121121
4168		SW	REGSW4&1	6	12785	,12962
4169		B	REGSW4	7	12791	J12961
4170	SAC3	SW	REGSW5&1	6	12798	,12995
4171		B	REGSW4	7	12804	J12961
4172	SAC4	BBE	SAC5,FILTER&1,1	12	12811	W12836121121
4173		SW	REGSW6&1	6	12823	,13028
4174		B	REGSW4	7	12829	J12961
4175	SAC5	SW	REGSW7&1	6	12836	,13061
4176		B	REGSW4	7	12842	J12961
4177	SAC6	BBE	SAC7,FILTER&1,1	12	12849	W12874121121
41772		SW	REGSW8&1	6	12861	,13094
41774		B	REGSW4	7	12867	J12961
4178	SAC7	SW	REGSW9&1	6	12874	,13127
41782		B	REGSW4	7	12880	J12961
41799						
4180	REGMCD	NOPWM		1	12887	N

S

STRATEGIC INQUIRY-----

TEST FILTER TTH FOR 4 BIT

TEST FILTER TTH FOR 8 BIT

TEST FOR 3-----

IS 2-----

IS 3-----

TEST TTH FOR 2 BIT

TEST TTH FOR 1 BIT

IS 4-----

IS 5-----

TEST TTH FOR 1 BIT

IS 6-----

IS 7-----

TEST TTH FOR 1 BIT

IS 8-----

IS 9-----

60K-80K-100K MEM SW

PCLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
4181		B	REGSW4	7	12888	J12961
41849			REGENERATION LINE CHAR CHK SWITCHES			
4185	REGSW2	NOPWM		1	12895	N
4186		B	REGSW3	7	12896	J12928
4187		SW	REGSW2&1	6	12903	,12896
4188		MLNS	S2, TTHFIX	12	12909	D189771157621
4189		B	REGFIX	7	12921	J13152
4190	REGSW3	NOPWM		1	12928	N
4191		B	ALTER4	7	12929	J13183
4192		SW	REGSW3&1	6	12936	,12929
4193		MLNS	S3, TTHFIX	12	12942	D18973157621
4194		B	REGFIX	7	12954	J13152
41949			GO TO RECOMPLEMENT			
4195	REGSW4	NOPWM		1	12961	N
4196		B	REGSW5	7	12962	J12994
4197		SW	REGSW4&1	6	12969	,12962
4198		MLNS	S4, TTHFIX	12	12975	D18975157621
4199		B	REGFIX	7	12987	J13152
4200	REGSW5	NOPWM		1	12994	N
4201		B	REGSW6	7	12995	J13027
4202		SW	REGSW5&1	6	13002	,12995
4203		MLNS	S5, TTHFIX	12	13008	D18977157621
4204		B	REGFIX	7	13020	J13152
4205	REGSW6	NOPWM		1	13027	N
4206		B	REGSW7	7	13028	J13060
4207		SW	REGSW6&1	6	13035	,13028
4208		MLNS	S6, TTHFIX	12	13041	D18979157621
4209		B	REGFIX	7	13053	J13152
4210	REGSW7	NOPWM		1	13060	N
4211		B	REGSW8	7	13061	J13093
4212		SW	REGSW7&1	6	13068	,13061
4213		MLNS	S7, TTHFIX	12	13074	D18981157621
4214		B	REGFIX	7	13086	J13152
4215	REGSW8	NOPWM		1	13093	N
4216		B	REGSW9	7	13094	J13126
4217		SW	REGSW8&1	6	13101	,13094

PGLIN	LABEL	OPCOD	OPERANO	INSTRUCTION	CT	ADDRS
4218		MLNS	S8,TTTHFX	PLACE 8-----	12	13107 D18983157621
4219		B	REGFIX		7	13119 J13152
4220	REGSM9	NOPHM			1	13126 N
4221		B	ALTER4	GO TO RECOMPLEMENT	7	13127 J13183
4222		SW	REGSW9&1		6	13134 .13127
4223		MLNS	S9,TTTHFX	PLACE 9-----	12	13140 D18985157621
42299						
4230	REGFIX	MLNS	TTTHFX,SGLCMP&6	SET SGLCMP TTH ORDER	12	13152 D15762122091
4231		MLNS	TTTHFX,WMCCHK&6	SET WMCCHK TTH ORDER	12	13164 D15762122351
4232		B	SGLCMP		7	13176 J12203
42398						
42399						
4240	ALTER4	NOPHM		ALTERNATE SWITCH-4	1	13183 N
4241		B	RECPTH		7	13184 J13210
4242	RECPTL	MLCWS	CHPFDA&2,0C000	RECPLMT 1 CHAR L-H	12	13191 D01302000007
4244		B	OBLINC		7	13203 J13222
4245	RECPTH	MLCWS	CHPFDB&2,0C000	RECPLMT 1 CHAR H-L	12	13210 D01502000007
42499						
4250	OBLINC	CW	REGENT&1		6	13222 D12564
4251		C	FILTER&5,NINES	TEST FILTER A ADDR FOR -9999	11	13228 C1211615955
4252		BE	FITTH		7	13239 J133155
42529						
4253	AD0002	A	CON1,HBLAST&10	ADD 1 TO ALL ADDRS	11	13246 A1886712090
4254		A	CON1,LBLAST&10		11	13257 A1886712109
4255		A	CON1,FILTER&5		11	13268 A1886712116
4256		A	CON1,RECPTL&10		11	13279 A1886713201
4257		A	CON1,RECPTH&10		11	13290 A1886713220
4258		BNQ	ITR	STRATEGIC INQUIRY-----	7	13301 J01100Q
42599		B	ALTSET		7	13308 J13427
4260	FITTH	BCE	FITTH9,MEMSEL,9	TEST FOR 100K	12	13315 813408012579
4261		BCE	FITTH7,MEMSEL,7	TEST FOR 80K	12	13327 813389012577
4262		BCE	FITTH5,MEMSEL,5	60K	12	13339 813370012575
42649						
4265		BCE	CPTCLT,FILTER&1,3	TEST FILTER TTH ORDER FOR 3	12	13351 813622121123
4271		B	AD0002		7	13363 J13246

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PGLIN	LABEL	OPCOD	OPERAND	TEST	CT	ADDR	INSTRUCTION
42719	*						
4272	FITTP5	BCE	CPTCLT,FILTER&1,5	TEST TTH ORDER FOR 5	12	13370	B13622121125
4273		B	AD0002		7	13382	J13246
4274	FITTH7	BCE	CPTCLT,FILTER&1,7	TEST TTH ORDER FOR 7	12	13389	B13622121127
4275		B	AD0002		7	13401	J13246
4276	FITTH9	BCE	CPTCLT,FILTER&1,9	TEST TTH ORDER FOR 9	12	13408	B13622121129
4277		B	AD0002		7	13420	J13246
42999	*						
4300	ALTSET	BCE	ALS01,FILTER&5,5	TEST FOR ----5	12	13427	B13458121165
4301		BCE	ALS02,FILTER&5,0	TEST FOR ----0	12	13439	B13489121160
4302		B	ALTER1	NO SHIFT	7	13451	J12072
4303	ALS01	BCE	SHIFT,FILTER&4,2	SHIFT IF ---2-	12	13458	B13544121152
4304		BCE	SHIFT,FILTER&4,7	SHIFT IF ---7-	12	13470	B13544121157
4305		B	ALTER1	NO SHIFT	7	13482	J12072
4306	ALS02	BCE	ALS03,FILTER&4,0	TEST FOR ---0-	12	13489	B13508121150
4307		B	ALTER1	NO SHIFT	7	13501	J12072
4308	ALS03	C	FILTER&3,C25	TEST FOR -25---	11	13508	C1211419011
4309		BE	ALTER1	NO SHIFT	7	13519	J12072S
4310		C	FILTER&3,C75	TEST FOR -75---	11	13526	C1211419013
4311		BE	ALTER1	NO SHIFT	7	13537	J12072S
43199	*			SHIFT			
4320	SHIFT	NOPWM		BINARY SHIFT SWITCH	1	13544	N
4321		B	CLALT		7	13545	J13587
43219	*						
4322		SW	SHIFT&1	SET SHIFT SW	6	13552	,13545
4323		SW	ALTER1&1,ALTER2&1	SET ALL ALTERNATE SWITCHES	11	13558	,1207312124
4324		SW	ALTER3&1,ALTER4&1		11	13569	,1257813184
4325		B	ALTER1		7	13580	J12072
4326	CLALT	CH	SHIFT&1	RESET SHIFT SW	6	13587	B13545
4327		CH	ALTER1&1,ALTER2&1	RESET ALL ALTERNATE SWITCHES	11	13593	B1207312124
4328		CH	ALTER3&1,ALTER4&1		11	13604	B1257813184
4329		B	ALTER1		7	13615	J12072
43498	*						
43499	*						
4350	CPTCLT	NOP			1	13622	N
		BNQ	ITR	STRATEGIC INQUIRY-----	7	13623	J01100Q

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
4379	BYTPC	BCE	*613, TAD6, 1	12	13630	B13654010061
4380		BCE	TABTES, TAD0, 1	12	13642	B13671010001
4381		WCP	SECCIN	10	13654	M8T015220W
4382		BA1	*-16	7	13664	R13654M
43829	*					
4383	TABTES	MRCWG	SECCING2, LEASEC	12	13671	D1522216050L
4384	*	BCE	TABPRI, TAD6, 1	12	13683	B07553010061
43999	*					
4400	SC11RE	NOPWM		1	13695	N
4401		B	REPI1C	7	13696	J13830
4402	SC10RE	NOPWM		1	13703	N
4403		B	REPI0C	7	13704	J13811
4404	SC9RE	NOPWM		1	13711	N
4405		B	REP9C	7	13712	J13792
4406	SC8RE	NOPWM		1	13719	N
4407		B	REP8C	7	13720	J13773
4408	SC7RE	NOPWM		1	13727	N
4409		B	REP7C	7	13728	J13754
44149	*					
4415		BCE	S6SET, TAD1, 1	12	13735	B08633010011
4416		B	S7SET	7	13747	J08711
4417	REP7C	BCE	S7SET, TAD1, 1	12	13754	B08711010011
4418		B	S8SET	7	13766	J08795
4419	REP8C	BCE	S8SET, TAD1, 1	12	13773	B08795010011
4420		B	S9SET	7	13785	J08879
4421	REP9C	BCE	S9SET, TAD1, 1	12	13792	B08879010011
4422		B	S10SET	7	13804	J08963
4423	REP10C	BCE	S10SET, TAD1, 1	12	13811	B08963010011
4424		B	S11SET	7	13823	J09047
4425	REP11C	BCE	S11SET, TAD1, 1	12	13830	B09047010011
4426		B	S12SET	7	13842	J09131
4498	*					
44999	*		SECTS 12-13			
4501	MAFSEL	MLNA	BEAT2, TBA2610	12	13849	D1893214096/
4502		MLNA	BEAT3, TBA3610	12	13861	D1893714084/
4503		MLNA	BEAT4, TBA4610	12	13873	D1894214065/

HALF SELECT CORE BEAT AREA

SET ALL TBA 8 ADDRS

PGLIN	LABEL	OPCODE	OPERAND	TEST ADDRESS BEAT AREA	CT	ADDRS	INSTRUCTION
4504		MLNA	BEAT5, TBA5&10		12	13885	D1894714053/
4505		MLNA	BEAT6, TBA6&10		12	13897	D1895214041/
4506		MLNA	BEAT7, TBA7&10		12	13909	D1895714029/
4507		MLNA	BEAT8, TBA8&10		12	13921	D1896214017/
4508		MLNA	BEAT9, TBA9&10		12	13933	D1896714005/
45099	*			TEST ADDRESS BEAT AREA			
4510	BCTSET	MLNB	BEACON, BEATCT	SET TEST BEAT COUNTER	12	13945	D1949415774J
		BNQ	ITR	STRATEGIC INQUIRY-----	7	13957	J01100Q
45119	*						
4512	MEL100	NOPWM		100K	1	13964	N
4513		B	TBA9		7	13965	J13995
4514	MEL80	NOPWM		80K	1	13972	N
4515		B	TBA7		7	13973	J14019
4516	MEL60	NOPWM		60K	1	13980	N
4517		B	TBA5		7	13981	J14043
4518		B	TBA3		7	13988	J14074
45199	*						
4520	TBA9	MLCWS	CONS12, 90050	ONE CHAR BEAT- TBA	12	13995	D18851900507
45204	TBA8	MLCWS	CONS12, 80050		12	14007	D18851800507
4521	TBA7	MLCWS	CONS12, 70050		12	14019	D18851700507
4522	TBA6	MLCWS	CONS12, 60050		12	14031	D18851600507
4523	TBA5	MLCWS	CONS12, 50050		12	14043	D18851500507
4524	TBA4	MLCWS	CONS12, 40050		12	14055	D18851400507
45242		B	BEARD		7	14067	J14098
4525	TBA3	MLCWS	CONS12, 30050		12	14074	D18851300507
4526	TBA2	MLCWS	CONS12, 20050		12	14086	D18851200507
45299	*						
4530	BEARD	S	CON1, BEATCT	REDUCE BEAT CTR BY 1	11	14098	S1886715774
4531		BZ	YAXSET	EXIT- IF 00	7	14109	J14130V
		BNQ	ITR	STRATEGIC INQUIRY-----	7	14116	J01100Q
		B	MEL100		7	14123	J13964
4532	*						
45399				SETUP X BASE FOR Y AXIS CHECK			
4540	YAXSET	NOPWM		60K-30K-100K MEM SW	1	14130	N
45402		B	*820		7	14131	J14157
4541		MLNB	TBA2&10, CURREN	SET 40K TBA IN REF AREA	12	14138	D1409619489J
45412		B	*C13		7	14130	J14169

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PGLIN	LABEL	OPCOD	OPERAND	MLNB	MLNA	SW	MLNA	MLNA	MLNWB	CW	B	S	A	A	CT	ADDRS	INSTRUCTION
45414			TBA&10,CURREN	MLNB											12	14157	D1406519489J
4542			MELCTR,CTR2	MLNA											12	14169	D1575315767/
4543			WAX&6	SW											6	14181	,14334
4544			CURREN,SAX&10	MLNA											12	14187	D1948914312/
4545			CONI-3,SAX&8	MLNA											12	14199	D1886414310/
4547			SAX&10,WAX&10	MLNWB											12	14211	D1431214338N
4550			YAXINK&1	CW											6	14223	14476
4551			SAXBYP	B											7	14229	J14284
45549			SETUP Y BASE FOR X AXIS CHECK														
4555	XAXSET		YAXINK&1	SW											6	14236	,14476
4556			WAX&6	SW											6	14242	,14334
4557			CONI-3,SAX&10	MLNA											12	14248	D1886414312/
4558			CURREN-2,SAX&8	MLNA											12	14260	D1948714310/
4560			SAX&10,WAX&10	MLNWB											12	14272	D1431214338N
45648																	
45649																	
4570	SAXBYP		SAX&10,CURREN	C											11	14284	C1431219489
4571			YAXINK	BE											7	14295	J14475S
45749																	
4575	SAX		WAX,00000,	BCE											12	14302	B1432800000
4576			SAXERR	B											7	14314	J15052
4577			STACK	B											7	14321	J14385
45799																	
4580	WAX		WAXBL,00000	BM											12	14328	V14366000001
4581			STACK,SAX&11,M	BCE											12	14340	B1438514313M
4582			WAXDRP	B											7	14352	J15164
4583			STACK	B											7	14359	J14385
4584	WAXBL		STACK,SAX&11,	BCE											12	14366	B1438514313
4585			WAXPIK	B											7	14378	J15114
45999																	
4603	STACK		S1,CTR2	S											11	14385	S1896915767
4604			RESTO	BZ											7	14396	J14439V
46049																	
4607			STRATEGIC INQUIRY-----	BNQ											7	14403	J01100Q
4608			ADD 1 TO TTH ORDERS FOR NEXT 10K	A											11	14410	A1896914308
				A											11	14421	A1896914334

PGLIN	LABEL	OPCODE	OPERAND	CT	ADDR	INSTRUCTION
4609		B	SAX	7	14432	J14302
46149	*					
4619	RESTO	MLNS	CURREN-4,SAX&6	12	14439	D19485143081
4620		MLNS	CURREN-4,WAX&6	12	14451	D19485143341
4621		MLNA	MELCTR,CTR2	12	14463	D1575315767/
46249	*					
4625	YAXINK	NOPWM		1	14475	N
4626		B	XAXINK	7	14476	J14530
46299	*					
4630		C	SAX&8,NINES-2	11	14483	C1431015953
4631		BE	XAXSET	7	14494	J14236S
46329	*					
4633		A	S1,SAX&8	11	14501	A1896914310
4634		A	S1,WAX&8	11	14512	A1896914336
4635		B	SAX&8P	7	14523	J14284
46399	*					
4640	XAXINK	C	SAX&10,NINES-2	11	14530	C1431215953
46402		BE	RESTBA	7	14541	J14577S
4641		A	S1,SAX&10	11	14548	A1896914312
4642		A	S1,WAX&10	11	14559	A1896914338
4643		B	SAX&8P	7	14570	J14284
46599	*					
4660	RESTBA	SW	TRESCO&6	6	14577	*14683
46602	RESTSW	NOPWM		1	14583	N
46604		B	*&20	7	14584	J14610
4661		MLNWB	TBA&2&10,TRESCO&10	12	14591	D1409614687N
46612		B	*&13	7	14603	J14622
46614		MLNWB	TBA&4&10,TRESCO&10	12	14610	D1406514687N
4662		MLNA	MELCTR,CTR2	12	14622	D1575315767/
4663		BCE	TRESBL,SAX&11,	12	14634	B1466514313
4664		MLNA	&CONS12,TRESCO&5	12	14646	D1957914682/
4665		B	TRESCO	7	14658	J14677
4666	TRESBL	MLNA	&CONS13,TRESCO&5	12	14665	D1958414682/
46699	*					
4670	TRESCO	MLCWS	CONS13,00000	12	14677	D1885200007
46729	*					

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
4673	SUBTR	S	S1,CTR2	11	14689	S1896915767
4674		BZ	TBAINK	7	14700	J14732V
4675		A	S1,TRESCO66	11	14707	A1896914683
		BNQ	ITR	7	14718	J01100Q
4676		B	TRESCO	7	14725	J14677
46999			TEST BEAT ADDR INCREMENT AREA			
4700	TBAINK	C	TBA268,NINES-2	11	14732	C1409415953
4701		BE	SCMPLT	7	14743	J05310S
4702		MLNH	THA268,CACHE	12	14750	D1409419015J
47029			MOVE TBA -XX-- TO CMP AREA			
4703		A	S1,CURREN-2	11	14762	A1896919487
47032		A	S1,CACHE	11	14773	A1896919015
4704		C	C25,CACHE	11	14784	C1901119015
4705		BP	TEST50	7	14795	J14827U
4706		BE	UPS25	7	14802	J14902S
4707	UPADD1	A	S1,CURREN	11	14809	A1896919489
4708		B	UPDATE	7	14820	J14949
47089			TEST FOR -50---			
4709	TEST50	C	C50,CACHE	11	14827	C1900319015
4710		BH	TEST75	7	14838	J14870U
4710		BE	UPS50	7	14845	J14920S
4712	UPSUB1	S	S1,CURREN	11	14852	S1896919489
4713		B	UPDATE	7	14863	J14949
47139			TEST FOR -75---			
4714	TEST75	C	C75,CACHE	11	14870	C1901319015
4715		BH	UPSUB1	7	14881	J14852U
4716		BE	UPS75	7	14888	J14938S
4717		B	UPADD1	7	14895	J14809
47179			SUB 25 FROM ----XX			
4718	UPS25	S	C25,CURREN	11	14902	S1901119489
4719		B	UPCATE	7	14913	J14949
4720	UPS50	A	C50,CURREN	11	14920	A1900319489
4721		B	UPCATE	7	14931	J14949
4722	UPS75	S	C75,CURREN	11	14938	S1901319489
47229			SUB 75 FROM ----XX			
4723	UPDATE	MLNA	CURREN,TBA2610	12	14949	D1948914096/
			UPDATE TBA B ADDR-S			

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PGLIN	LABEL	OPCODE	OPERAND	CT	ADDRS	INSTRUCTION
4724		MLNA	CURREN, TBA3&10	12	14961	D1948914084/
4725		MLNA	CURREN, TBA4&10	12	14973	D1948914065/
4726		MLNA	CURREN, TBA5&10	12	14985	D1948914053/
4727		MLNA	CURREN, TBA6&10	12	14997	D1948914041/
4728		MLNA	CURREN, TBA7&10	12	15009	D1948914029/
47282		MLNA	CURREN, TBA8&10	12	15021	D1948914017/
47284		MLNA	CURREN, TBA9&10	12	15033	D1948914005/
4729		B	BCTSET	7	15045	J13945
47499	*					
4750	SAXERR	SBR	VARRET&5	7	15052	G04992B
4751		MLNB	SAX&10, COMADD	12	15059	D1431219476J
4752		MLCA	BLITZ, BITTER	12	15071	D1573901866T
4753		MLCA	BLITZ-4, ISCHAR	12	15083	D1573501856T
4754		BCE	S1B8, SAX&11, H	12	15095	B0453114313M
4755		B	S2B8	7	15107	J04611
47599	*					
4760	WAXPIK	SBR	VARRET&5	7	15114	G04992B
4761		MLNB	WAX&10, COMADD	12	15121	D1433819476J
4762		MLCA	BLITZ, BITTER	12	15133	D1573901866T
4763		MLCS	PICK, BITTER-7	12	15145	D15726018593
4764		B	PWM4	7	15157	J10846
47699	*					
4770	WAXDRP	SBR	VARRET&5	7	15164	G04992B
4771		MLNB	WAX&10, COMADD	12	15171	D1433819476J
4772		MLCA	BLITZ, BITTER	12	15183	D1573901866T
4773		MLCS	DROP, BITTER-7	12	15195	D15727018593
4774		B	DWM4	7	15207	J10988
4775		H		1	15214	.
89998	*					
89999	*					
9019	*					
9020	SECCND	DC	AS- a,G	4	15215	
9021	SECCIN	DC	AS- Ca,G	5	15220	
9024	DESIG	DC	ENTER MEMORY SIZE DIGIT 3,5,7,OR 9a,G	34	15226	
9030	TESTS	DC	ATESTS 00000-09999 AREA OFa,G	25	15261	
9032	MEMSIZ	DC	a OK MEMORYa,G	11	15287	

DATA AND CONSTANT FIELD AREAS

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDR
90323	PARITY	DC	0IF PARITY ERRORS EXIST-0,G	23	15299
9033	RESTAT	DC	0SET CHECK CONTROL SWITCH TO RESTART0,G	35	15323
9034	INHIB	DC	0SET PRINT CONTROL SWITCH TO INHIBIT0,G	35	15359
9035	STATUS	DC	0TAD STATUS-0,G	11	15395
9038	EXMESH	DC	0RESET CHK & PRINT CNTRL SW TO NORMAL0,G	36	15407
9040	AUTSEC	DC	0AUTO SECT SEL0,G	13	15444
9042	ENTER	DC	0ENTER 2 DIGIT SECTION #0,G	23	15458
9050	QCKRUN	DC	0QUICK RUN0,G	9	15482
9060	SEERTY	DC	0A-00000,C-0000000,G SECTION 5- ERROR T-0	15	15492
9070	PASS	DC	0PASS 0	5	15508
9071	PASSCT	DCM	0000- CS430,G	9	15513
9080	NOERTA	DC	0NO ERRORS TABULATED0,G	19	15523
9082	NOTPER	DC	0NO TABULATION PERFORMED0,G	23	15543
9084	NOBFS	DC	0NC CHAN PRINTER AND/OR BUFF SIZE SPEC ON CTL CD0,G	47	15567
9090	REPERN	DC	0REPEATING ERROR ADDR- 0	22	15615
9091	REPADD	DCM	0000000	5	15641
90914		DC	0 0	2	15643
9092	REPX	DC	0XMO-0	4	15644
9093	REPXMO	DCM	000	1	15648
90954		DC	0 0	2	15650
9096	REPY	DC	0YMO-0	4	15651
9097	REPYMO	DCM	000 G 000	1	15655
90994		DCM	000	1	15656
9101					
9102	S1SB	DCM	0---M WM-0 G	10	15666
9103	S2SB	DCM	0WMBL --BL0	10	15676
9104	S3SB	DCM	0WM-V ---V0	10	15686
9105	S4SB	DCM	0---: WM-0	10	15696
91052	S6SB	DCM	0WM-C ---C0	10	15706
91054	S7SB	DCM	0---0 WM-0	10	15716
9106	SSADCR	DCM	0000000	5	15721
9110	CHAN1	DC	000 PERCENT-- CHAN 1 NON-OVERLAP X CTL CHAR	1	15722
91102	CHAN1B	DCM	000 CHAN 1 I/O BRANCH OP	1	15723
9111	CHAN2	DC	000 LCZENGE-- CHAN 2 NON-OVERLAP X CTL CHAR	1	15724
91112	CHAN2B	DCM	000 CHAN 2 I/O BRANCH OP	1	15725
9120	PICK	DC	000	1	15726



INSTRUCTION

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS
9121	CROP	DC	000	1	15727
91212	BSEG	DC	000	1	15728
91214	NUFOUR	DCW	000	1	15729
91216	Z059	DCW	0590	2	15731
9122	BLITZ	DCW	0-----0	8	15739
9125	BLANKS	DCW	0	10	15749
9130	MESCTK	DCW	0000	2	15751
9132	MELCTR	DCW	0000	2	15753
9140	RESET	DCW	0J02000 0	7	15760
9141		DCW	0.0	1	15761
9152	TTHFIX	DC	0 0	1	15762
9155	CATCH	DC	0--0	2	15764
9160	CORREC	DC	0-0	1	15765
9165	CTR2	DCW	0000	2	15767
9166	BITCTR	DCW	0000	2	15769
9168	BEATCT	DCW	0000000	5	15774
91699	*				
9170		DCW	0 0 0 0 0 0 0 0 0 0	36	15810
9171	TABCLA	DC	0 0 0 0 0 0 0 0	36	15846
91739	*				
9174		DCW	0 0 0 0 0 0 0 0 0 0	40	15886
9175	TABGAG	DC	0 0 0 0 0 0 0 0	40	15926
9201	*				
9203	FA100H	DCW	0999990	5	15931
9204	FAB0H	DCW	0799990	5	15936
9206	FA60H	DCW	0599990	5	15941
9208	FA40H	DCW	0359990	5	15946
9210	FA20H	DCW	0199990	5	15951
9213	NINES	DCW	099990	4	15955
9219	*				
9220	MDSTAD	DCW	0000000	5	15960
9229	C20000	DCW	0200000	5	15965
92292	C40000	DCW	0400000	5	15970
92294	C60000	DCW	0600000	5	15975
9231	K80	DCW	0 80	2	15977
9232	K60	DCW	0 60	2	15979

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	CT	ADDR	INSTRUCTION
9233	K40	DCW	a 4a	2	15981	
9240	CONRED	DCW	a00099a	5	15986	
9241	CONM	DCW	a00100a	5	15991	
9242	INFAC2	DCW	a20000a	5	15996	
9243	INFAC3	DCW	a30000a	5	16001	
9244	S5INAD	DCW	a20004a	5	16006	
92444	S5INA4	DCW	a40004a	5	16011	
9245	INCOMP2	DCW	a20099a	5	16016	
9246	INCOMP4	DCW	a40099a	5	16021	
9301	*					
9302	AUTO	DC	a--a	2	16023	
9303		DCW	aMa	1	16024	
93039	*					
9304	LEADER	DC	aCS43-ERRTAB* FOR SECTION-a	25	16025	
93042	LEASEC	DC	a00 aG	3	16050	
93044	LEAD	DS	49		16101	
93045		DS	1		16102	
93049	*					
9305	HEADER	DC	a a	5	16103	
9306		DCW	aBP P-1-D P-2-D P-4-D P-8-Da	36	16143	
9307	HEAD	DC	a P-A-D P-B-D P-C-D P-W-Da	36	16179	
9308		DCW	aMa	1	16180	
93099	*					
9328	E23	DC	aCH 2-a	5	16181	
9329		DCW	a 0 0 0 0 0 0 0 0a	36	16221	
9330	EVEN23	DC	a 0 0 0 0 - 0 0a	36	16257	
9331		DCW	aMa	1	16258	
9332	O23	DC	aCH 3-a	5	16259	
9333		DCW	a 0 0 0 0 0 0 0 0a	36	16299	
9334	ODD23	DC	a 0 0 0 0 - 0 0a	36	16335	
9335		DCW	aMa	1	16336	
9336	E45	DC	aCH 4-a	5	16337	
9337		DCW	a 0 0 0 0 0 0 0 0a	36	16377	
9338	EVEN45	DC	a 0 0 0 0 - 0 0a	36	16413	
9339		DCW	aMa	1	16414	
9340	O45	DC	aCH 5-a	5	16415	

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
9341		DCW	a	36	16455	
9342	ODD45	DC	a	36	16491	
9343		DCW	aG aMa	1	16492	
9344	E67	DC	aCF 6-a	5	16493	
9345		DCW	a	36	16533	
9346	EVEN67	DC	a	36	16569	
9347		DCW	aG aMa	1	16570	
9348	O67	DC	aCH 7-a	5	16571	
9349		DCW	a	36	16611	
9350	ODD67	DC	a	36	16647	
9351		DCW	aG aMa	1	16648	
9352	E89	DC	aCF 8-a	5	16653	
9353		DCW	a	36	16689	
9354	EVEN89	DC	a	36	16725	
9355		DCW	aG aMa	1	16726	
9356	O89	DC	aCH 9-a	5	16731	
9357		DCW	a	36	16767	
9358	ODD89	DC	a	36	16803	
9359		DCW	aG aMa	1	16804	
9360	LEADSG	DC	aXS a	3	16805	
93602		DCW	aYS P-0-D P-1-D P-2-D P-3-D P-4-0a	40	16847	
93604	SGLEAD	DC	a P-5-0 P-6-0 P-7-0 P-8-0 P-9-0a	40	16887	
93605		DCW	aG aMa	1	16888	
9361	XSG0	DC	aGO-a	3	16889	
93612		DCW	a	40	16931	
93614	GATE0	DC	aG aMa	40	16971	
93615		DCW	aG1-a	1	16972	
9362	XSG1	DC	a	3	16973	
93622		DCW	a	40	17015	
93624	GATE1	DC	aG aMa	40	17055	
93625		DCW	aG2-a	1	17056	
9363	XSG2	DC	a	3	17057	
93632		DCW	a	40	17099	
93634	GATE2	DC	aG aMa	40	17139	
93635		DCW	a	1	17140	

PGLIN	LABEL	OPCODE	OPERAND	CT	ADDRS	INSTRUCTION
9364	XSG3	DC	AG3-a	3	17141	
93642		DCW	a	40	17183	
93644	GATE3	DC	a <sup>G</sup>	40	17223	
93645		DCW	aMa	1	17224	
9365	XSG4	DC	AG4-a	3	17225	
93652		DCW	a	40	17267	
93654	GATE4	DC	a <sup>G</sup>	40	17307	
93655		DCW	aMa	1	17308	
9366	XSG5	DC	AG5-a	3	17309	
93662		DCW	a	40	17351	
93664	GATE5	DC	a <sup>G</sup>	40	17391	
93665		DCW	aMa	1	17392	
9367	XSG6	DC	AG6-a	3	17393	
93672		DCW	a	40	17435	
93674	GATE6	DC	a <sup>G</sup>	40	17475	
93675		DCW	aMa	1	17476	
9368	XSG7	DC	AG7-a	3	17477	
93682		DCW	a	40	17519	
93684	GATE7	DC	a <sup>G</sup>	40	17559	
93685		DCW	aMa	1	17560	
9369	XSG8	DC	AG8-a	3	17561	
93692		DCW	a	40	17603	
93694	GATE8	DC	a <sup>G</sup>	40	17643	
93695		DCW	aMa	1	17644	
9370	XSG9	DC	AG9-a	3	17645	
93702		DCW	a	40	17687	
93704	GATE9	DC	a <sup>G</sup>	40	17727	
93705		DCW	aMa	1	17728	
93719	*					
9372	LEADWD	DC	AXW a	3	17729	
93722		DCW	AYW P-0-D	40	17771	
93724	WOLEAD	DC	a <sup>G</sup> P-5-D	40	17811	
93725		DCW	aMa	1	17812	
9373	XW00	DC	AW0-a	3	17813	
93732		DCW	a	40	17855	
93734	WIND0	DC	a	40	17895	





PGLIN LABEL OPCOD OPERAND CT ADDR INSTRUCTION

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDR	INSTRUCTION
9494	BEAT6	DCW	2600502	5	18952	
9495	BEAT7	DCW	2700502	5	18957	
9496	BEAT8	DCW	2800502	5	18962	
9497	BEAT9	DCW	2900502	5	18967	
9500	*					
9501	S1	DCW	2012	2	18969	
9502	S2	DCW	2022	2	18971	
9503	S3	DCW	2032	2	18973	
9504	S4	DCW	2042	2	18975	
9505	S5	DCW	2052	2	18977	
9506	S6	DCW	2062	2	18979	
9507	S7	DCW	2072	2	18981	
9508	S8	DCW	2082	2	18983	
9509	S9	DCW	2092	2	18985	
9510	S10	DCW	2102	2	18987	
9511	S11	DCW	2112	2	18989	
9512	S12	DCW	2122	2	18991	
9513	S13	DCW	2132	2	18993	
9514	S14	DCW	2142	2	18995	
9515	S15	DCW	2152	2	18997	
9517	S17	DCW	2172	2	18999	
9519	S19	DCW	2192	2	19001	
9530	C50	DCW	2502	2	19003	
9532	C24	DCW	2242	2	19005	
9533	C32	DCW	2322	2	19007	
95334	C34	DCW	2342	2	19009	
9534	C25	DCW	2252	2	19011	
9535	C75	DCW	2752	2	19013	
9550	CACHE	DCW	2002	2	19015	
9570	XRAG	DC	202	1	19016	
9571	YRAG	DC	202	1	19017	
9598	*					
9599	*					
95999	*					
9600		DCW	2	7	19024	
9601		DCW	21	7	19031	

64 CHARACTER-BIT CONFIGURATION LOOKUP TABLE

NO ZONED CHARS

PGLIN	LABEL	OPCOD	OPERAND	CT	ADDRS	INSTRUCTION
9602		DCW	a2-----1-a	7	19038	
9603		DCW	a3-----11a	7	19045	
9604		DCW	a4-----1--a	7	19052	
9605		DCW	a5-----1-1a	7	19059	
9606		DCW	a6-----11-a	7	19066	
9607		DCW	a7-----111a	7	19073	
9608		DCW	a8--1---a	7	19080	
9609		DCW	a9--1--1a	7	19087	
9610		DCW	a0--1-1-a	7	19094	
9611		DCW	a#--1-11a	7	19101	
9612		DCW	aa--11--a	7	19108	
9613		DCW	a <sup>7</sup> --11-1a	7	19115	
9614		DCW	a <sup>6</sup> --111-a	7	19122	
9615		DCW	a <sup>7</sup> --1111-a	7	19129	
9619			aM--1111a			
9620		DCW	aB-1-----a	7	19136	
9621		DCW	a/-1---1a	7	19143	
9622		DCW	aS-1--1-a	7	19150	
9623		DCW	aT-1--11a	7	19157	
9624		DCW	aU-1-1--a	7	19164	
9625		DCW	aV-1-1-1a	7	19171	
9626		DCW	aW-1-11-a	7	19178	
9627		DCW	aX-1-111a	7	19185	
9628		DCW	aY-11---a	7	19192	
9629		DCW	aZ-11--1a	7	19199	
9630		DCW	a+-11-1-a	7	19206	
9631		DCW	a.-11-11a	7	19213	
9632		DCW	a <sup>7</sup> -111--a	7	19220	
9633		DCW	a <sup>8</sup> -111-1a	7	19227	
9634		DCW	a <sup>B</sup> -1111-a	7	19234	
9635		DCW	a <sup>S</sup> -11111a	7	19241	
9639			aM-11111a			
9640		DCW	a-1-----a	7	19248	
9641		DCW	aJ1-----1a	7	19255	
9642		DCW	aK1-----1-a	7	19262	
9643		DCW	aL1-----11a	7	19269	

A ZONED CHARS

B ZONED CHARS





PGLIN	LABEL	OPCODE	OPERAND	CT	ADDRS	INSTRUCTION
9695	ACCUM	DCW	000000	4	19484	
9698	CURREN	DCW	000000	5	19489	
9700	BEACON	DC	001000	5	19494	
99198	*					
99399	*					
S		END	2000			J02000
			GATEO	5	19499	16971
			WINDO	5	19504	17895
			E23	5	19509	16181
			BITTER	5	19514	01866
			XSGO	5	19519	16889
			XWCO	5	19524	17813
			Z8C	5	19529	18677
			HEAD	5	19534	16179
			LEAD	5	19539	16101
			TABCLA	5	19544	15846
			LEADER	5	19549	16025
			SGLEAD	5	19554	16887
			LEADSG	5	19559	16805
			TABGAG	5	19564	15926
			SSLEA	5	19569	18675
			LEADSS	5	19574	18653
			CONS12	5	19579	18851
			CONS13	5	19584	18852
			SETUPA	5	19589	01400
			SETUPB	5	19594	01600
			CMPLAA	5	19599	01399
			CMPLAB	5	19604	01599

END OF ASSEMBLY