

=====
 OUTPUT 12
 =====

MEM. STRG. USED 02346

 01000 THRU 02442
 03000 THRU 03177
 03300 THRU 04002

LOK	INSTR	LIID	LO	
		0	EIO	PROG*1219B*FACT*OCT*67
		1		REMARK*1219B FACT MODIFIED FROM 1219 FACT
		2		REMARK*I/O TEST
01000	50 7200	3	EIO	ENTICR*0
01001	40 0015	4		CL*15 CLEAR CLOCK
01002	44 1670	5		STRAL*CHNBR7
01003	50 4722	6		LSHA*18D
01004	44 2367	7		STRAL*AUPARM SAVE AU INPUT PARAMETER
01005	52 1426	10		SLCL*FLAG2
01006	12 2361	11		ENTAL*CLKOFI
01007	44 0013	12		STRAL*13
01010	12 2365	13		ENTAL*ICI
01011	44 0011	14		STRAL*11
01012	36 0000	15		ENTBK*0
01013	76 1657	16	EIO15	RJP*CHNBR
01014	76 1230	17		RJP*INT0
01015	76 1274	20		RJP*CHSET
01016	36 0506	21	EIO1	ENTBK*506
01017	41 3275	22		CLB*INBUF-3
01020	73 1017	23		BJP*LOK-1
01021	76 1342	24		RJP*KEYS
01022	44 2336	25		STRAL*INIT3
01023	76 1355	26		RJP*TYPE
01024	50 5020	27		SKP*20
01025	34 1031	30		JP*EIO2
01026	50 5010	31		SKP*10
01027	34 1141	32		JP*EIO10
				NON-ESI
				YES, IS IT ESA
				NO,ESI

01030	34	1162	33		JP*EI012	ESA
01031	50	5002	34	EI02	SKP*2	CONTINUOUS DATA MODE
01032	34	1211	35		JP*EI014	NO, EXIT
01033	12	1400	36		ENTAL*DO+2	YES, CDM
01034	52	2327	37		SLCL*CDMASK	CLEAR CDM BIT FROM
01035	44	2346	40		STRAL*MOBCW	BCW AND STORE
01036	12	2335	41		ENTAL*CHOUT	DOUBLE CHANNEL
01037	50	4601	42		LSHAL*1	NUMBER AND STORE
01040	44	0010	43		STRAL*10	IN B0
01041	12	2330	44		ENTAL*K7	CHANNEL NUMBER
01042	02	2335	45		CMAL*CHOUT	GREATER THAN 7.
01043	67	1051	46		JPMGR*EI03	YES
01044	12	2346	47		ENTAL*MOBCW	NO, STORE TBCW
01045	45	0020	50		STRALB*20	AT CDM ADDRESS
01046	12	1401	51		ENTAL*DO+3	STORE CBCW AT
01047	45	0021	52		STRALB*21	CDM ADDRESS
01050	34	1055	53		JP*LOK+5	
01051	12	2346	54	EI03	ENTAL*MOBCW	STORE TBCW
01052	45	0200	55		STRALB*200	AT CDM ADDRESS
01053	12	1401	56		ENTAL*DO+3	STORE CBCW AT
01054	45	0201	57		STRALB*201	CDM ADDRESS
01055	76	1376	60		RJP*DO	INITIATE BUFFERS
01056	70	0001	61		ENTALK*1	SET OUTPUT MONITOR RECEIVED FLAG
01057	44	1424	62		STRAL*FLAG	
01060	76	1407	63		RJP*MON	WAIT FOR MONITORS
01061	50	5004	64		SKP*4	BACKWARD BUFFER MODE?
01062	34	1064	65		JP*LOK+2	
01063	34	2376	66		JP*DN3	YES
01064	12	2346	67		ENTAL*MOBCW	PREPARE
01065	71	0100	70		ADDALK*100	
01066	44	1126	71		STRAL*EI05	OUTPUT
01067	12	1401	72		ENTAL*DO+3	BUFFER
01070	52	2437	73		SLCL*MONMSK	577777
01071	44	1127	74		STRAL*EI05+1	
01072	12	1403	75		ENTAL*DO+5	PREPARE
01073	14	2332	76		ADDAL*CDMBIT	INPUT

01074	71	0100	77	ADDALK*100	BUFFER
01075	44	1131	100	STRAL*EI05+3	WITH
01076	12	1404	101	ENTAL*DO+6	CDM BIT
01077	71	0200	102	ADDALK*200	SET
01100	52	2437	103	SLCL*MONMSK	577777
01101	44	1132	104	STRAL*EI05+4	DOUBLE CHANNEL
01102	12	2334	105	ENTAL*INCHA	NUMBER AND
01103	50	4601	106	LSHAL*1	STORE IN B0
01104	44	0010	107	STRAL*10	CHANNEL NUMBER
01105	12	2330	110	ENTAL*K7	GREATER
01106	02	2334	111	CMAL*INCHA	THAN 7; YES
01107	67	1117	112	JPMGR*EI041	NO; STORE INPUT
01110	12	1403	113	ENTAL*DO+5	
01111	71	0200	114	ADDALK*200	BUFFER LIMITS
01112	45	0020	115	STRALB*20	AT CDM
01113	12	1404	116	ENTAL*DO+6	ADDRESS
01114	71	0300	117	ADDALK*300	
01115	45	0021	120	STRALB*21	
01116	34	1125	121	JP*EI05-1	
01117	12	1403	122	ENTAL*DO+5	UPPER CHANNEL
01120	71	0200	123	ADDALK*200	STORE LIMITS
01121	45	0200	124	STRALB*200	BUFFER LIMITS
01122	12	1404	125	ENTAL*DO+6	AT CDM
01123	71	0300	126	ADDALK*300	ADDRESS
01124	45	0201	127	STRALB*201	
01125	50	1200	130	OUT*0	
01126	00	0000	131	0*0	
01127	00	0000	132	0*0	
01130	50	1100	133	IN*0	
01131	00	0000	134	0*0	
01132	00	0000	135	0*0	
01133	50	2600	136	OUTOV*0	
01134	70	0001	137	ENTALK*1	SET OUTPUT MONITOR RECEIVED FLAG
01135	44	1424	140	STRAL*FLAG	
01136	76	1407	141	RJP*MON	WAIT FOR MONITOR
01137	76	1474	142	RJP*VRFY	VERIFY DATA
01140	34	1225	143	JP*EI07	

01141	12	1403	144	EI010	ENTAL*D0+5	ESI, STORE INPUT
01142	44	0220	145		STRAL*220	BUFFER LIMITS
01143	12	1404	146		ENTAL*D0+6	AT INDEX
01144	44	0221	147		STRAL*221	ADDRESS
01145	12	1400	150		ENTAL*D0+2	PREPARE
01146	44	1152	151		STRAL*EI011	OUTPUT
01147	12	1401	152		ENTAL*D0+3	
01150	44	1153	153		STRAL*EI011+1	BUFFER
01151	50	1200	154		OUT*0	
01152	00	0000	155	EI011	0*0	INITIATE
01153	00	0000	156		0*0	OUTPUT
01154	50	0100	157		SIN*0	
01155	50	2600	160		OUTOV*0	SET INPUT ACTIVE
01156	76	1407	161		RJP*MON	
01157	76	1474	162		RJP*VERFY	
01160	76	1635	163		RJP*INTCK	
01161	34	1225	164		JP*EI07	CHECK INTERRUPT STORE
01162	12	1400	165	EI012	ENTAL*D0+2	
01163	44	1173	166		STRAL*EI013	ESA
01164	12	1401	167		ENTAL*D0+3	PREPARE
01165	44	1174	170		STRAL*EI013+1	OUTPUT
01166	12	2344	171		ENTAL*ESABUF	BUFFER
01167	44	0130	172		STRAL*130	PLACE
01170	12	2345	173		ENTAL*ESABUF+1	DATA AND
01171	44	0131	174		STRAL*131	ADDRESS IN
01172	50	1200	175		OUT*0	OUTPUT BUFFER
01173	00	0000	176	EI013	0*0	
01174	00	0000	177		0*0	
01175	50	0100	200		SIN*0	
01176	50	2600	201		OUTOV*0	
01177	70	7777	202		ENTALK*7777	SET INPUT
01200	44	1425	203		STRAL*FLAG1	FLAG
01201	76	1407	204		RJP*MON	WAIT FOR OUTPUT MONITOR
01202	12	0122	205		ENTAL*122	COMPARE ESA DATA
01203	02	2345	206		CMAL*ESABUF+1	SENT AND RECEIVED
01204	63	1206	207		JPNOT*LOK+2	CORRECT NO

01205	34	1225	210
01206	10	2345	211
01207	50	5601	212
01210	34	1225	213
01211	76	1376	214
01212	76	1407	215
01213	76	1427	216
01214	76	1474	217

01215	50	5001	220
01216	34	1220	221
01217	76	1671	222
01220	76	1736	223
01221	76	2124	224
01222	76	2153	225
01223	40	1424	226
01224	40	1425	227

01225	34	1226	230
01226	50	5602	231
01227	34	1013	232
01230	00	0000	233
01231	36	0000	234
01232	12	2341	235
01233	45	0140	236
01234	56	2343	237

01235	34	1233	240
01236	70	0007	241
01237	02	2335	242
01240	67	1247	243
01241	10	2335	244
01242	50	4501	245
01243	46	0010	246
01244	12	2340	247

01245	45	0140	250
01246	34	1261	251
01247	36	0000	252
01250	12	2341	253

EI014

JP*EI07
 ENTAU*ESABUF+1
 STOP*1
 JP*EI07
 RJP*DO
 RJP*MON
 RJP*GARD
 RJP*VRFY

SKP*01
 JP*LOK+2
 RJP*ICFLT
 RJP*EFINT
 RJP*CLKOF
 RJP*CLKM
 CL*FLAG
 CL*FLAG1

EI07
 EI08
 INTO

JP*EI08
 STOP*2
 JP*EI015
 0*0
 ENTBK*0
 ENTAL*INIT7
 STRALB*0140
 BSK*INIT11

JP*LOK-2
 ENTALK*7
 CMAL*CHOUT
 JPMGR*INT01
 ENTAU*CHOUT
 LSHAU*1
 STRAU*10
 ENTAL*INIT6

INT01

STRALB*0140
 JP*INT02
 ENTBK*0
 ENTAL*INIT7

YES
 CORRECT IN A UPPER
 ERROR STOP

INITIATE BUFFERS
 CHECK FOR MONITORS
 CHECK GUARD BAND
 CHECK TRANSFER

KEY 0 SET, ICFLT EXECUTED

I/C TIMEOUT FAULT
 EXTERNAL INTERRUPT CHECK
 CLOCK OVERFLOW CHECK
 CLOCK MONITOR CHECK
 CLEAR FLAG
 CLEAR FLAG

ENTRANCE
 CLEAR B
 ERROR SETUP
 SET MON ADDRESSES
 ALL SET

NO CONTINUE
 OUPUT CHANNEL NUMBER
 GREATER THAN 7
 YES
 GET OUTPUT CHAN NO.
 DOUBLE CHANNEL
 NUMBER
 CORRECT OUT MON

ONLY CORRECT CH

UPPER CHANNELS
 STORE ERROR

Address	Channel	Address	Address	Label	Label
01251	45	0340	254	STRALB*340	ROUTINE ADDRESSES
01252	56	2343	255	BSK*INIT11	DDNE
01253	34	1251	256	JP*LOK-2	NO
01254	12	2335	257	ENTAL*CHOUT	DOUBLE CHANNEL
01255	50	4601	260	LSHAL*1	NUMBER
01256	44	0010	261	STRAL*10	STORE OUTPUT MONITOR
01257	12	2340	262	ENTAL*INIT6	ADDRESS
01260	45	0320	263	STRALB*320	STORE INPUT MONITOR
01261	12	2334	264	ENTAL*INCHA	DOUBLE
01262	50	4601	265	LSHAL*1	
01263	44	0010	266	STRAL*10	STORE IN B0
01264	10	2342	267	ENTAU*INIT10	INPUT MONITOR ADDRESS
01265	70	0016	270	ENTALK*16	IS IT AN UPPER OR
01266	02	0010	271	CMAL*10	LOWER CHANNEL
01267	67	1272	272	JPMGR*LOK+3	UPPER
01270	47	0160	273	STRAUB*160	LOWER STORE INTERRUPT
01271	55	1230	274	IJP*INT0	EXIT
01272	47	0340	275	STRAUB*340	STORE INERRUPT
01273	34	1271	276	JP*LOK-2	EXIT
01274	00	0000	277	0*0	ENTRANCE
01275	10	2337	300	ENTAU*INIT2	MASK
01276	12	1377	301	ENTAL*DO+1	OUTPUT
01277	04	2335	302	SLSU*CHOUT	CHANGE CH
01300	44	1377	303	STRAL*DO+1	RESTORE OUT
01301	44	1125	304	STRAL*EI05-1	CHANNEL NUMBER
01302	44	1151	305	STRAL*EI011-1	INSTRUCTIONS
01303	44	1172	306	STRAL*EI013-1	
01304	44	1704	307	STRAL*MIT3	
01305	12	2022	310	ENTAL*EFINT2+3	
01306	04	2335	311	SLSU*CHOUT	
01307	44	2022	312	STRAL*EFINT2+3	
01310	12	1133	313	ENTAL*EI05+5	
01311	04	2335	314	SLSU*CHOUT	
01312	44	1133	315	STRAL*EI05+5	
01313	12	1155	316	ENTAL*EI011+3	
01314	04	2335	317	SLSU*CHOUT	

INT02

CHSET

01315 44 1155 320
 01316 44 1176 321
 01317 44 1405 322
 01320 12 2017 323

01321 04 2335 324
 01322 44 2017 325
 01323 12 1731 326
 01324 04 2335 327
 01325 44 1731 330
 01326 12 1732 331
 01327 04 2335 332
 01330 44 1732 333

01331 12 1402 334
 01332 04 2334 335
 01333 44 1402 336
 01334 44 1130 337
 01335 12 1154 340
 01336 04 2334 341
 01337 44 1154 342
 01340 44 1175 343

01341 55 1274 344
 01342 00 0000 345
 01343 70 0000 346
 01344 50 5002 347
 01345 71 0001 350
 01346 50 5004 351
 01347 71 0002 352
 01350 50 5010 353

01351 71 0004 354
 01352 50 5020 355
 01353 71 0010 356
 01354 55 1342 357
 01355 00 0000 360
 01356 12 2367 361
 01357 65 1362 362
 01360 12 2371 363

STRAL*EI011+3
 STRAL*EI013+3
 STRAL*DO+7
 ENTAL*EFINT2

SLSU*CHOUT
 STRAL*EFINT2
 ENTAL*ICINT2-1
 SLSU*CHOUT
 STRAL*ICINT2-1
 ENTAL*ICINT2
 SLSU*CHOUT
 STRAL*ICINT2

ENTAL*DO+4
 SLSU*INCHA
 STRAL*DO+4
 STRAL*EI05+2
 ENTAL*EI011+2
 SLSU*INCHA
 STRAL*EI011+2
 STRAL*EI013+2

KEYS

IJP*CHSET
 0*0
 ENTALK*0
 SKP*2
 ADDALK*1
 SKP*4
 ADDALK*2
 SKP*10

TYPE

ADDALK*4
 SKP*20
 ADDALK*10
 IJP*KEYS
 0*0
 ENTAL*AUPARM
 JPALP*LOK+3
 ENTAL*FOUT1A

INPUT
 CHANGE CH
 RESTORE INPUT
 IN INPUT

INSTRUCTIONS

EXIT

CLEAR AL
 KEY1, CONTINUOUS
 DATA MODE
 KEY2, BACKWARD
 KEY3, DUAL

KEY 4, ESI
 KEYS3 AND 4, ESA

ENTRANCE
 INITIAL AU INPUT PARAMETER
 NON N+1 BUFFER TERMINATION MODE
 N+1 BUFFER TERMINATION

Code	Field 1	Field 2	Field 3	Field 4	Field 5	Field 6
01426	00	7777	431	FLAG2	0*7777	<i>constant</i>
01427	00	0000	432	GARD	0*0	
01430	36	0002	433		ENTBK*2	CLEAR AU
01431	10	1473	434		ENTAU*GARD2	IS IT CDM
01432	50	5002	435		SKP*2	NO
01433	34	1435	436		JP*LOK*2	YES
01434	34	1447	437		JP*GARD1	
01435	50	5020	440		SKP*20	ESI
01436	34	1460	441		JP*GARD3	NO
01437	13	3675	442		ENTALB*INBUF+375	YES, CHECK LOWER
01440	63	1471	443		JPALNZ*GARD4	ESI AREA, ERROR, YES
01441	73	1437	444		BJP*LOK-2	NO
01442	36	0002	445		ENTBK*2	
01443	13	3740	446		ENTALB*INBUF+440	CHECK UPPER ESI
01444	63	1471	447		JPALNZ*GARD4	AREA, ERROR, YES
01445	73	1443	450		BJP*LOK-2	NO
01446	55	1427	451		IJP*GARD	
01447	36	0002	452	GARD1	ENTBK*2	
01450	13	3275	453		ENTALB*INBUF-3	CDM, CHECK LOWER
01451	63	1471	454		JPALNZ*GARD4	CDM AREA, ERROR, YES
01452	73	1450	455		BJP*LOK-2	NO
01453	36	0002	456		ENTBK*2	SET INDEX
01454	13	3700	457		ENTALB*INBUF+400	CHECK UPPER CDM
01455	63	1471	460		JPALNZ*GARD4	AREA, ERROR, YES
01456	73	1454	461		BJP*LOK-2	NO
01457	55	1427	462		IJP*GARD	
01460	36	0002	463	GARD3	ENTBK*2	SET INDEX
01461	13	3275	464		ENTALB*INBUF-3	CHECK LOWER
01462	63	1471	465		JPALNZ*GARD4	AREA, ERROR, YES
01463	73	1461	466		BJP*LOK-2	NO
01464	36	0002	467		ENTBK*2	SET INDEX
01465	13	3400	470		ENTALB*INBUF+100	CHECK UPPER
01466	63	1471	471		JPALNZ*GARD4	AREA, ERROR, YES
01467	73	1465	472		BJP*LOK-2	NO
01470	55	1427	473		IJP*GARD	
01471	50	5601	474	GARD4	STOP*1	ERROR STOP

01472	55	1427	475		IJP*GARD	
01473	00	0000	476	GARD2	0*0	ZERO
01474	00	0000	477	VRFY	0*0	CHECK DATA
01475	50	5002	500		SKP*2	IS IT CDM
01476	34	1500	501		JP*LOK+2	NO
01477	34	1521	502		JP*VRFY3	YES
01500	50	5020	503		SKP*20	IS IT ESI
01501	34	1601	504		JP*VRFY11	NO
01502	36	0000	505		ENTBK*0	
01503	12	2353	506		ENTAL*K99A	CMALB*BUFOUT+101
01504	44	1506	507		STRAL*VRFY1+1	
01505	13	3700	510	VRFY1	ENTALB*INBUF+400	ESI VERIFY, WORD RECEIVED
01506	03	3101	511		CMALB*BUFOUT+101	WORD SENT
01507	63	1516	512		JPNOT*VRFY2	ERROR
01510	12	1506	513		ENTAL*VRFY1+1	
01511	71	0001	514		ADDALK*1	
01512	74	1506	515		STRADR*VRFY1+1	
01513	56	2352	516		BSK*K37	000037
01514	34	1505	517		JP*VRFY1	
01515	55	1474	520		IJP*VRFY	
01516	11	3000	521	VRFY2	ENTAUB*BUFOUT	CORRECT WORD IN AU
01517	50	5601	522		STOP*1	ERROR STOP
01520	34	1510	523		JP*VRFY1+3	CONTINUE
01521	36	0077	524	VRFY3	ENTBK*77	CDM, SET INDEX
01522	13	3300	525		ENTALB*INBUF	COMPARE INPUT AND
01523	03	3000	526		CMALB*BUFOUT	OUTPUT WORD, CORRECT
01524	63	1527	527		JPNOT*VRFY4	NO
01525	73	1522	530		BJP*VRFY3+1	YES
01526	34	1532	531		JP*VRFY5	DONE
01527	11	3000	532	VRFY4	ENTAUB*BUFOUT	CORRECT WORD IN AU
01530	50	5601	533		STOP*1	ERROR STOP
01531	34	1525	534		JP*VRFY3+4	CONTINUE
01532	36	0077	535	VRFY5	ENTBK*77	CDM OUTPUT
01533	13	3400	536		ENTALB*INBUF+100	COMPARE INPUT AND
01534	03	3000	537		CMALB*BUFOUT	OUTPUT WORD, CORRECT
01535	63	1540	540		JPNOT*VRFY6	NO

01536	73	1533	541		BJP*VRFY5+1	YES
01537	34	1543	542		JP*VRFY7	DONE
01540	11	3000	543	VRFY6	ENTAUB*BUFOUT	CORRECT WORD IN AU
01541	50	5601	544		STOP*1	ERROR STOP
01542	34	1536	545		JP*VRFY5+4	CONTINUE
01543	36	0077	546	VRFY7	ENTBK*77	
01544	50	5004	547		SKP*04	BACKWARD BUFFER MODE+0
01545	34	1547	550		JP*LOK+2	
01546	34	1554	551		JP*DND	YES
01547	12	2441	552		ENTAL*DNT1	ENTALB*INBUF+200
01550	44	1560	553		STRAL*DNDD1	
01551	12	2442	554		ENTAL*DNT2	ENTALB*INBUF+300
01552	44	1571	555		STRAL*DNDD2	
01553	34	1560	556		JP*LOK+5	
01554	12	2442	557	DND	ENTAL*DNT2	ENTALB*INBUF+300
01555	44	1560	560		STRAL*DNDD1	
01556	12	2441	561		ENTAL*DNT1	ENTALB*INBUF+200
01557	44	1571	562		STRAL*DNDD2	
01560	13	3500	563	DNDD1	ENTALB*INBUF+200	COMPARE INPUT AND
01561	03	3000	564		CMALB*BUFOUT	OUTPUT WORD, CORRECT
01562	63	1565	565		JPNOT*VRFY8	NO
01563	73	1544	566		BJP*VRFY7+1	YES
01564	34	1570	567		JP*VRFY9	DONE
01565	11	3000	570	VRFY8	ENTAUB*BUFOUT	CORRECT WORD IN AU
01566	50	5601	571		STOP*1	ERROR STOP
01567	34	1547	572		JP*VRFY7+4	CONTINUE
01570	36	0077	573	VRFY9	ENTBK*77	CDM INPUT
01571	13	3600	574		ENTALB*INBUF+300	COMPARE INPUT AND
01572	03	3100	575		CMALB*BUFOUT+100	OUTPUT WORD, CORRECT?
01573	63	1576	576		JPNOT*VRFY10	NO
01574	73	1571	577		BJP*VRFY9+1	YES
01575	55	1474	600		IJP*VRFY	DONE, EXIT
01576	11	3100	601	VRFY10	ENTAUB*BUFOUT+100	CORRECT WORD IN AU
01577	50	5601	602		STOP*1	ERROR STOP
01600	34	1574	603		JP*VRFY9+4	CONTINUE
01601	36	0077	604	VRFY11	ENTBK*77	NON-ESI, NON-CDM

01602	13	3300	605		ENTALB*INBUF	COMPARE INPUT AND
01603	03	3000	606		CMALB*BUFOUT	OUTPUT WORD,CORRECT
01604	63	1607	607		JPNOT*VRFY12	NO
01605	73	1602	610		BJP*VRFY11+1	YES
01606	55	1474	611		IJP*VRFY	DONE,EXIT
01607	11	3000	612	VRFY12	ENTAU8*BUFOUT	CORRECT WORD IN AU
01610	50	5601	613		STOP*1	ERROR STOP
01611	34	1605	614		JP*VRFY11+4	CONTINUE
01612	00	0000	615	MNOUT	0*0	ENTRANCE
01613	44	1634	616		STRAL*TS1	SAVE AL
01614	70	7777	617		ENTALK*7777	SET FLAG
01615	44	1424	620		STRAL*FLAG	STORE FLAG
01616	12	1634	621		ENTAL*TS1	RESTORE AL
01617	54	1612	622		IJPEI*MNOUT	EXIT
01620	00	0000	623	MNER	0*0	ENTRANCE
01621	44	1634	624		STRAL*TS1	SAVE AL
01622	70	7777	625		ENTALK*7777	SET AL TO 777777
01623	50	5601	626		STOP*1	ERROR STOP
01624	12	1634	627		ENTAL*TS1	RESTORE AL
01625	54	1620	630		IJPEI*MNER	EXIT
01626	00	0000	631	MNIN	0*0	ENTRANCE
01627	44	1634	632		STRAL*TS1	SAVE AL
01630	70	7777	633		ENTALK*7777	SET FLAG
01631	44	1425	634		STRAL*FLAG1	STORE FLAG
01632	12	1634	635		ENTAL*TS1	RESTORE AL
01633	54	1626	636		IJPEI*MNIN	EXIT
01634	00	0000	637	TS1	0*0	SAVE
01635	00	0000	640	INTCK	0*0	CHECK THAT INDEX
01636	12	2334	641		ENTAL*INCHA	WAS STORED
01637	50	4601	642		LSHAL*1	DOUBLE INPUT CHANNEL
01640	44	0010	643		STRAL*10	NUMBER AND STORE IN BO
01641	12	2330	644		ENTAL*K7	CHANNEL NUMBER
01642	02	2334	645		CMAL*INCHA	GREATER THAN 7
01643	67	1650	646		JPMGR*INTCK1	YES
01644	13	0161	647		ENTALB*161	NO,IS CORRECT INDEX
01645	02	2333	650		CMAL*K50	STORED AT MON ADD+1
0164	63	1654	651		JPNOT*INTCK2	NO

01647 55 1635 652
 01650 13 0341 653
 01651 02 2333 654
 01652 63 1654 655
 01653 55 1635 656
 01654 10 2333 657

 01655 50 5601 660
 01656 55 1635 661
 01657 00 0000 662
 01660 12 1670 663
 01661 52 2351 664
 01662 44 2334 665
 01663 12 1670 666
 01664 50 4211 667

 01665 52 2351 670
 01666 44 2335 671
 01667 55 1657 672
 01670 00 0000 673
 01671 00 0000 674
 01672 40 0015 675
 01673 40 2364 676
 01674 12 2367 677

 01675 65 1704 700
 01676 12 1706 701
 01677 71 0001 702
 01700 44 1705 703
 01701 50 5004 704
 01702 34 1704 705
 01703 34 1723 706
 01704 50 1200 707

 01705 00 1724 710
 01706 00 1724 711
 01707 12 2364 712
 01710 63 1715 713
 01711 12 2375 714
 01712 02 0015 715

INTCK1 IJP*INTCK
 ENTALB*341
 CMAL*K50
 JPNOT*INTCK2
 INTCK2 IJP*INTCK
 ENTAU*K50

 CHNBR STOP*1
 IJP*INTCK
 0*0
 ENTAL*CHNBR7
 SLCL*K77
 STRAL*INCHA
 ENTAL*CHNBR7
 RSHAL*9D

 CHNBR7 SLCL*K77---
 ICFLT STRAL*CHOUT
 IJP*CHNBR
 0*0
 0*0
 CL*15
 CL*ICFLAG
 ENTAL*AUPARM

 MIT3 JPALP*MIT3
 ENTAL*MIT3+2
 ADDALK*1
 STRAL*MIT3+1
 SKP*4
 JP*LOK+2
 JP*MIT2
 OUT*0

 ICFLT1 0*ICFLT4
 0*ICFLT4
 ENTAL*ICFLAG
 JPALNZ*ICFLT2
 ENTAL*CCOUNT
 CMAL*15

YES,EXIT
 NO,IS CORRECT INDEX
 STORED AT MON ADD+1
 NO
 YES,EXIT
 CORRECT INDEX IN AU

ERROR STOP
 EXIT
 WHICH CHANNELS HAVE
 BEEN SELECTED

INPUT CHANNEL
 AL 4003
 P-1767

OUTPUT CHANNEL

 TABLE
 CHECK I/C TIMEOUT FAULT
 CLEAR CLOCK
 CLEAR I/C FLAG
 INITIAL AU INPUT PARAMETER

HAS INTERRUPT BEEN
 RECEIVED, YES

 BEEN EXCEEDED

01713	67	1721	716	JPMGR*ICFLT3	YES
01714	34	1707	717	JP*ICFLT1	
01715	70	1777	720	ICFLT2 ENTALK*1777	WAS INTERRUPT RECEIVED
01716	02	0015	721	CMAL*15	TOO SOON
01717	65	1721	722	JPMLEQ*ICFLT3	YES
01720	55	1671	723	IJP*ICFLT	NO
01721	10	0015	724	ICFLT3 ENTAU*15	ENTER AU WITH CLOCK
01722	50	5601	725	STOP*1	ERROR STOP
01723	55	1671	726	MIT2 IJP*ICFLT	
01724	77	7777	727	ICFLT4 77*7777	
01725	00	0000	730	ICINT 0*0	I/C FAULT INTERRUPT
01726	44	1735	731	STRAL*ICINT1	STORE AL
01727	70	0001	732	ENTALK*1	SET INTERRUPT
01730	44	2364	733	STRAL*ICFLAG	FLAG
01731	50	1600	734	OUTSTP*0	TERMINATE OUTPUT BUFFER
01732	50	2000	735	ICINT2 SRSM*0	SET RESUME FF
01733	12	1735	736	ENTAL*ICINT1	RESTORE AL
01734	54	1725	737	IJPEI*ICINT	
01735	00	0000	740	ICINT1 0*0	
01736	00	0000	741	EFINT 0*0	CHECK EXTERNAL INTERRUPT
01737	10	2334	742	ENTAU*INCHA	SETUP EF INTERRUPT REGISTERS
01740	36	0017	743	ENTBK*17	
01741	12	2357	744	ENTAL*EFINTE	RJP*EFERR
01742	45	0100	745	STRALB*100	
01743	73	1742	746	BJP*LOK-1	
01744	36	0017	747	ENTBK*17	
01745	45	0300	750	STRALB*300	
01746	73	1745	751	BJP*LOK-1	
01747	36	0017	752	ENTBK*17	
01750	12	2372	753	ENTAL*EXFE	RJP*EXFME
01751	45	0120	754	STRALB*120	
01752	73	1751	755	BJP*LOK-1	
01753	36	0017	756	ENTBK*17	
01754	45	0320	757	STRALB*320	
01755	73	1754	760	BJP*LOK-1	
01756	70	0007	761	ENTALK*7	

01757	02	2334	762
01760	67	1766	763
01761	50	4501	764
01762	46	0010	765
01763	12	2356	766
01764	45	0100	767
01765	34	1772	770
01766	50	4501	771
01767	46	0010	772
01770	12	2356	773
01771	45	0260	774
01772	10	2335	775
01773	70	0007	776
01774	02	2335	777
01775	67	2003	1000
01776	50	4501	1001
01777	46	0010	1002
02000	12	2373	1003
02001	45	0120	1004
02002	34	2007	1005
02003	50	4501	1006
02004	46	0010	1007
02005	12	2373	1010
02006	45	0300	1011
02007	12	2367	1012
02010	65	2017	1013
02011	12	2022	1014
02012	44	2023	1015
02013	12	2021	1016
02014	52	2437	1017
02015	71	0001	1020
02016	44	2020	1021
02017	50	1300	1022
02020	00	2064	1023
02021	20	2064	1024
02022	50	2700	1025

CMAL*INCHA
JPMGR*LOK+6

LSHAU*1
STRAU*10
ENTAL*EFINTA
STRALB*100
JP*LOK+5
LSHAU*1
STRAU*10
ENTAL*EFINTA

RJP*EXINT

RJP*EXFM

STRALB*260
ENTAU*CHOUT
ENTALK*7
CMAL*CHOUT
JPMGR*LOK+6
LSHAU*1
STRAU*10
ENTAL*EXFA

STRALB*120
JP*LOK+5
LSHAU*1
STRAU*10
ENTAL*EXFA
STRALB*300
ENTAL*AUPARM
JPALP*EFINT2

INITIAL AU INPUT PARAMETER
1218 NTDS OR 1219B MODE

SETUP SECOND FORCE

TERMINAL LIMIT

FORCE EXTERNAL
FUNCTION

EFINT2

ENTAL*EFINT2+3
STRAL*EFINT2+4
ENTAL*EFINT2+2
SLCL*MONMSK
ADDALK*1
STRAL*LOK+2
EXF*0
0*EFINT6

2*EFINT6
EXFOV*0

02023	50	4600	1026
02024	50	4533	1027
02025	12	2355	1030
02026	61	2054	1031
02027	40	2355	1032
02030	12	2374	1033
02031	61	2073	1034
02032	40	2374	1035
02033	70	0007	1036
02034	02	2334	1037
02035	67	2045	1040
02036	12	2334	1041
02037	50	4601	1042
02040	44	0010	1043
02041	13	0101	1044
02042	02	2064	1045
02043	63	2060	1046
02044	55	1736	1047
02045	12	2334	1050
02046	50	4601	1051
02047	44	0010	1052
02050	13	0261	1053
02051	02	2064	1054
02052	63	2060	1055
02053	34	2044	1056
02054	70	7777	1057
02055	50	5601	1060
02056	40	2355	1061
02057	55	1736	1062
02060	10	2064	1063
02061	50	5601	1064
02062	40	2355	1065
02063	55	1736	1066
02064	77	7777	1067
02065	00	0000	1070
			1071

LSHAL*0
LSHAU*33
ENTAL*EFLAG
JPALZ*EFINT4

DELAY
EXTERNAL INTERRUPT RECEIVED?
NO

CL*EFLAG
ENTAL*EFLAGA
JPALZ*EFINT7
CL*EFLAGA
ENTALK*7
CMAL*INCHA
JPMGR*EFINT3
ENTAL*INCHA

NO
NO
UPPER CHANNEL
YES

LSHAL*1
STRAL*10
ENTALB*101
CMAL*EFINT6
JPNOT*EFINT5
IJP*EFINT
ENTAL*INCHA
LSHAL*1

NO, DOES EXTERNAL INT
RECEIVED EQUAL
EF SENT, NO

EFXX
EFINT3

STRAL*10
ENTALB*261
CMAL*EFINT6
JPNOT*EFINT5
JP*EFXX
ENTALK*7777
STOP*1
CL*EFLAG

DOES EXTERNAL INTERRUPT
RECEIVED EQUAL
EF SENT, NO

EFINT4

ERROR STOP
CLEAR INTERRUPT FLAG

EFINT5

IJP*EFINT
ENTAU*EFINT6
STOP*1
CL*EFLAG
IJP*EFINT
DBLSET*
77*7777
000000*

EF SENT IS IN AU

EFINT6

EF SENT

02066	77	7777	1072		777777*	
02067	00	0000	1073		000000*	
02070	00	0000	1074	EXFM	0*	EF MONITOR INTERRUPT, LEGAL
02071	72	2374	1075		STRICR*EFLAGA	
02072	54	2070	1076		IJPEI*EXFM	
02073	70	7777	1077	EFINT7	ENTALK*7777	EF MONITOR INTERRUPT, NONE RECEIVED
02074	50	5601	1100		STOP*1	ERROR STOP
02075	40	2374	1101		CL*EFLAGA	
02076	54	1736	1102		IJPEI*EFINT	
02077	00	0000	1103	EXFME	0*	EF MONITOR INTERRUPT, ERROR
02100	44	2123	1104		STRAL*EFERR2	
02101	70	7777	1105		ENTALK*7777	
02102	50	5601	1106		STOP*1	ERROR STOP
02103	12	2123	1107		ENTAL*EFERR2	
02104	54	2077	1110		IJPEI*EXFME	
02105	00	0000	1111	EXINT	0*0	EXTERNAL INT. ROUTINE
02106	44	2113	1112		STRAL*EXINT1	STORE AL
02107	70	0001	1113		ENTALK*1	SET INTERRUPT
02110	44	2355	1114		STRAL*EFLAG	FLAG
02111	12	2113	1115		ENTAL*EXINT1	
02112	54	2105	1116		IJPEI*EXINT	
02113	00	0000	1117	EXINT1	0*0	
02114	00	0000	1120	EFERR	0*0	ERRONEOUS INTERRUPT ROUTINE
02115	44	2122	1121		STRAL*EFERR1	SAVE AL
02116	70	7777	1122		ENTALK*7777	
02117	50	5601	1123		STOP*1	ERROR STOP
02120	12	2122	1124		ENTAL*EFERR1	RESTORE AL
02121	54	2114	1125		IJPEI*EFERR	
02122	00	0000	1126	EFERR1	0*0	
02123	00	0000	1127	EFERR2	0*	
02124	00	0000	1130	CLKOF	0*0	CHECK CLOCK OVERFLOW
02125	50	5001	1131		SKP*01	
02126	55	2124	1132		IJP*CLKOF	
02127	40	2360	1133		CL*CFLAG	CLEAR CLOCK FLAG
02130	70	7777	1134		ENTALK*7777	FILL
02131	44	0015	1135		STRAL*15	CLOCK
02132	12	2360	1136	CLKOF1	ENTAL*CFLAG	HAS RTC OVERFLOW

02133	61	2135	1137
02134	55	2124	1140
02135	70	0000	1141
02136	02	0015	1142
02137	67	2141	1143
02140	34	2132	1144
02141	70	7777	1145
02142	50	5601	1146
02143	55	2124	1147
02144	00	0000	1150
02145	44	2152	1151
02146	70	0001	1152
02147	44	2360	1153
02150	12	2152	1154
02151	54	2144	1155
02152	00	0000	1156
02153	00	0000	1157
02154	50	5001	1160
02155	55	2153	1161
02156	12	2363	1162
02157	44	0012	1163
02160	40	2362	1164
02161	50	1400	1165
02162	70	0100	1166
02163	44	0014	1167
02164	70	0076	1170
02165	44	0015	1171
02166	12	2362	1172
02167	61	2171	1173
02170	55	2153	1174
02171	70	0101	1175
02172	02	0015	1176
02173	67	2175	1177
02174	34	2166	1200
02175	70	7777	1201
02176	50	5601	1202

COINT

COINT1
CLKM

CLKM1

JPALZ*LOK+2
IJP*CLKOF
ENTALK*0
CMAL*15
JPMGR*LOK+2
JP*CLKOF1
ENTALK*7777

STOP*1
IJP*CLKOF
0*0
STRAL*COINT1
ENTALK*1
STRAL*CFLAG
ENTAL*COINT1
IJPEI*COINT1

0*0
0*0
SKP*01
IJP*CLKM
ENTAL*CLKM1
STRAL*12
CL*CMFLAG
RTC*

ENTALK*100
STRAL*14
ENTALK*76
STRAL*15
ENTAL*CMFLAG
JPALZ*LOK+2
IJP*CLKM
ENTALK*101

CMAL*15
JPMGR*LOK+2
JP*CLKM1
ENTALK*7777
STOP*1

INTERRUPT BEEN RECEIVED, NO
YES
HAS TIME LIMIT
BEEN EXCEEDED
YES
NO

ERROR STOP

RTC OVERFLOW INTERRUPT
SAVE AL
SET RTC OVERFLOW
FLAG
RESTORE AL

CHECK RTC MONITOR

STORE MONITOR INTERRUPT
ENTRY ADDRESS
CLEAR FLAG

PUT CONSTANT IN
CLOCK COMPARISON CELL
PUT CONSTANT IN
CLOCK
HAS RTC MONITOR
INTRPT BEEN RECEIVED, NO
YES
HAS TIME LIMIT

BEEN EXCEEDED
YES
NO

ERROR STOP

02177	55	2153	1203		IJP*CLKM	
02200	00	0000	1204	CMINT	0*0	RTC MONITOR INTERRUPT
02201	44	2206	1205		STRAL*CMINT1	SAVE AL
02202	70	0001	1206		ENTALK*1	SET MONITOR
02203	44	2362	1207		STRAL*CMFLAG	FLAG
02204	12	2206	1210		ENTAL*CMINT1	RESTORE AL
02205	54	2200	1211		IJPEI*CMINT	
02206	00	0000	1212	CMINT1	0*0	
02207	00	0000	1213	FOUT	0*0	OUTPUT BUFFER
02210	00	0000	1214		0*0	TERMINAL ADDRESSES
02211	00	0000	1215		0*0	
02212	00	0131	1216		0*131	ESA DATA
02213	00	0000	1217		0*0	
02214	00	3100	1220		0*BUFOUT+100	ESI,BKWD
02215	00	0000	1221		0*0	
02216	00	3177	1222		0*BUFOUT+177	ESI,FWD
02217	40	3000	1223		40*BUFOUT	DUAL,BKWD,CDM
02220	00	3000	1224		0*BUFOUT	DUAL,BKWD
02221	40	3077	1225		40*BUFOUT+77	DUAL,FWD,CDM
02222	00	3077	1226		0*BUFOUT+77	DUAL,FWD
02223	40	3000	1227		40*BUFOUT	SINGLE,BKWD,CDM
02224	00	3000	1230		0*BUFOUT	SINGLE,BKWD
02225	40	3077	1231		40*BUFOUT+77	SINGLE,FWD,CDM
02226	00	3077	1232		0*BUFOUT+77	SINGLE,FWD
02227	00	0000	1233		0*0	OUTPUT BUFFER
02230	00	0000	1234		0*0	BEGINNING ADDRESSES
02231	00	0000	1235		0*0	
02232	20	0130	1236		20*0130	
02233	00	0000	1237		0*0	
02234	60	3177	1240		60*BUFOUT+177	ESI,BKWD
02235	00	0000	1241		0*0	
02236	20	3100	1242		20*BUFOUT+100	ESI,FWD
02237	40	3077	1243		40*BUFOUT+77	DUAL,BKWD,CDM
02240	60	3077	1244		60*BUFOUT+77	DUAL,BKWD
02241	00	3000	1245		0*BUFOUT	DUAL,FWD,CDM
02242	20	3000	1246		20*BUFOUT	DUAL,FWD

02243	40	3077	1247	40*BUFOUT+77	SINGLE,BKWD,CDM
02244	60	3077	1250	60*BUFOUT+77	SINGLE,BKWD
02245	00	3000	1251	0*BUFOUT	SINGLE,FWD,CDM
02246	20	3000	1252	20*BUFOUT	SINGLE,FWD
02247	00	0000	1253	0*0	INPUT BUFFER
02250	00	0000	1254	0*0	TERMINAL ADDRESSES
02251	00	0000	1255	0*0	
02252	00	0000	1256	0*0	
02253	00	0000	1257	0*0	
02254	00	3700	1260	0*INBUF+400	ESI,BKWD
02255	00	0000	1261	0*0	
02256	00	3737	1262	0*INBUF+437	ESI,FWD
02257	00	3300	1263	0*INBUF	DUAL,BKWD,CDM
02260	00	3300	1264	0*INBUF	DUAL,BKWD
02261	00	3477	1265	0*INBUF+177	DUAL,FWD,CDM
02262	00	3377	1266	0*INBUF+77	DUAL,FWD
02263	00	3300	1267	0*INBUF	SINGLE,BKWD,CDM
02264	00	3300	1270	0*INBUF	SINGLE,BKWD
02265	00	3477	1271	0*INBUF+177	SINGLE,FWD,CDM
02266	00	3377	1272	0*INBUF+77	SINGLE,FWD
02267	00	0000	1273	0*0	INPUT BUFFER
02270	00	0000	1274	0*0	BEGINNING ADDRESSES
02271	00	0000	1275	0*0	
02272	00	0000	1276	0*0	
02273	00	0000	1277	0*0	
02274	60	3737	1300	60*INBUF+437	ESI,BKWD
02275	00	0000	1301	0*0	
02276	20	3700	1302	20*INBUF+400	ESI,FWD
02277	60	3477	1303	60*INBUF+177	DUAL,BKWD,CDM
02300	60	3377	1304	60*INBUF+77	DUAL,BKWD
02301	20	3300	1305	20*INBUF	DUAL,FWD,CDM
02302	20	3300	1306	20*INBUF	DUAL,FWD
02303	60	3477	1307	60*INBUF+177	SINGLE,BKWD,CDM
02304	60	3377	1310	60*INBUF+77	SINGLE,BKWD
02305	20	3300	1311	20*INBUF	SINGLE,FWD,CDM
02306	20	3300	1312	20*INBUF	SINGLE,FWD

FIN

Address	Mode	Value	Label	Parameter	Description
1313				REMARK*OUTPUT BUFFER TERMINAL ADDRESSES	
1314				REMARK*N+1 BUFFER TERMINATION	
02307	00	0000	FOUT1	0*0	
02310	00	0000		0*0	
02311	00	0000		0*0	
02312	00	0130		0*130	ESA DATA
02313	00	0000		0*0	
02314	00	3077		0*BUFOUT+77	ESI, BKWD
02315	00	0000		0*0	
02316	00	3200		0*BUFOUT+200	ESI, FWD
02317	40	2776		4*BUFOUT-2	DUAL, BKWD, CDM
02320	00	2776		0*BUFOUT-2	DUAL, BKWD
02321	40	3101		4*BUFOUT+101	DUAL, FWD, CDM
02322	00	3100		0*BUFOUT+100	DUAL, FWD
02323	40	2777		4*BUFOUT-1	SINGLE, BKWD, CDM
02324	00	2777		0*BUFOUT-1	SINGLE, BKWD
02325	40	3100		4*BUFOUT+100	SINGLE, FWD, CDM
02326	00	3100		0*BUFOUT+100	SINGLE, FWD
02327	37	7777	CDMASK	37*7777	
02330	00	0007	K7	0*7	
02331	00	0016	K16	0*16	
02332	40	0000	CDMBIT	40*0	
02333	00	0050	K50	0*50	
02334	00	0000	INCHA	0*0	INPUT CH
02335	00	0000	CHOUT	0*0	OUTPUT CH
02336	00	0000	INIT3	0*0	FUNCTION
02337	00	0017	INIT2	0*17	CHANNEL MASK
02340	76	1612	INIT6	RJP*MNOUT	OUT MON
02341	76	1620	INIT7	RJP*MNER	MON ERROR
02342	76	1626	INIT10	RJP*MNIN	INPUT MON
02343	00	0037	INIT11	0*37	COUNT
02344	00	0122	ESABUF	0*122	
02345	52	5252		52*5252	
02346	00	0000	MOBCW	0*0	
02347	00	0001	K1	0*1	
02350	00	0017	K17	0*17	
02351	00	0077	K77	0*77	

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02352	00	0037	1360	K37	000037*
02353	03	3101	1361	K99A	CMALB*BUFOUT+101
02354	00	0000	1362	CHANS	0*0
02355	00	0000	1363	EFLAG	0*0
02356	76	2105	1364	EFINTA	RJP*EXINT
02357	76	2114	1365	EFINTE	RJP*EFERR
02360	00	0000	1366	CFLAG	0*0
02361	76	2144	1367	CLKOFI	RJP*COINT
02362	00	0000	1370	CMFLAG	0*0
02363	76	2200	1371	CLKMI	RJP*CMINT
02364	00	0000	1372	ICFLAG	0*0
02365	76	1725	1373	ICI	RJP*ICINT
02366	00	0000	1374	ZILCH	0*0
02367	00	0000	1375	AUPARM	0*
02370	00	2207	1376	FOUTA	0*FOUT
02371	00	2307	1377	FOUT1A	0*FOUT1
02372	76	2077	1400	EXFE	RJP*EXFME
02373	76	2070	1401	EXFA	RJP*EXFM
02374	00	0000	1402	EFLAGA	0*
02375	00	4003	1403	CCOUNT	0*4003
02376	12	2346	1404	DN3	ENTAL*M0BCW
02377	44	1126	1405		STRAL*EI05
02400	71	0177	1406		ADDALK*177
02401	14	2332	1407		ADDAL*CDMBIT
02402	44	1127	1410		STRAL*EI05+1
02403	12	1403	1411		ENTAL*D0+5
02404	71	0200	1412		ADDALK*200
02405	14	2332	1413		ADDAL*CDMBIT
02406	44	1131	1414		STRAL*EI05+3
02407	71	0077	1415		ADDALK*77
02410	44	1132	1416		STRAL*EI05+4
02411	12	2334	1417		ENTAL*INCHA
02412	50	4601	1420		LSHAL*1
02413	44	0010	1421		STRAL*10
02414	70	0007	1422		ENTALK*7
02415	32	2334	1423		CMAL*INCHA

EXT. INTRPT ENTRY
ERROR INTRPT ENTRY

RTC OVERFLOW ENTRY

RTC MONITOR ENTRY

IC TIMEOUT ENTRY

02416	67	2427	1424
02417	12	1403	1425
02420	71	0300	1426
02421	45	0020	1427
02422	71	0077	1430
02423	14	2332	1431
02424	14	2440	1432
02425	45	0021	1433
02426	34	1125	1434
02427	12	1403	1435
02430	71	0300	1436
02431	45	0200	1437
02432	71	0077	1440
02433	14	2332	1441
02434	14	2440	1442
02435	45	0201	1443
02436	34	1125	1444
02437	57	7777	1445
02440	20	0000	1446
02441	13	3500	1447
02442	13	3600	1450
03000	00	0001	1451
03001	00	0002	1452
03002	00	0004	1453
03003	00	0010	1454
03004	00	0020	1455
03005	00	0040	1456
03006	00	0100	1457
03007	00	0200	1460
03010	00	0400	1461
03011	00	1000	1462
03012	00	2000	1463
03013	00	4000	1464
03014	01	0000	1465
03015	02	0000	1466
03016	04	0000	1467

	JPMGR*DN1
	ENTAL*DO+5
	ADDALK*300
	STRALB*20
	ADDALK*77
	ADDAL*CDBIT
	ADDAL*MONBIT
	STRALB*21
DN1	JP*EI05-1
	ENTAL*DO+5
	ADDALK*300
	STRALB*200
	ADDALK*77
	ADDAL*CDBIT
	ADDAL*MONBIT
	STRALB*201
	JP*EI05-1
	577777*
MONMSK	200000*
MONBIT	ENTALB*INBUF+200
DNT1	ENTALB*INBUF+300
DNT2	0*1
BUFOUT	0*2
	0*4
	0*10
	0*20
	0*40
	0*100
	0*200
	0*400
	0*1000
	0*2000
	0*4000
	01*0
	02*0
	04*0

03017	0 0000	1470	10*0000
03020	20 0000	1471	20*0000
03021	40 0000	1472	40*0000
03022	77 7776	1473	77*7776
03023	77 7775	1474	77*7775
03024	77 7773	1475	77*7773
03025	77 7767	1476	77*7767
03026	77 7757	1477	77*7757
03027	77 7737	1500	77*7737
03030	77 7677	1501	77*7677
03031	77 7577	1502	77*7577
03032	77 7377	1503	77*7377
03033	77 6777	1504	77*6777
03034	77 5777	1505	77*5777
03035	77 3777	1506	77*3777
03036	76 7777	1507	76*7777
03037	75 7777	1510	75*7777
03040	73 7777	1511	73*7777
03041	67 7777	1512	67*7777
03042	57 7777	1513	57*7777
03043	37 7777	1514	37*7777
03044	77 7777	1515	77*7777
03045	00 0000	1516	0*0
03046	77 7777	1517	77*7777
03047	00 0000	1520	0*0
03050	77 7777	1521	77*7777
03051	00 0000	1522	0*0
03052	77 7777	1523	77*7777
03053	00 0000	1524	0*0
03054	77 7777	1525	77*7777
03055	00 0000	1526	0*0
03056	77 7777	1527	77*7777
03057	00 0000	1530	0*0
03060	12 3456	1531	12*3456
03061	65 4321	1532	65*4321
03062	53 1246	1533	53*1246

03063	24	6531	1534	24*6531
03064	07	0707	1535	07*0707
03065	70	7070	1536	70*7070
03066	07	0707	1537	07*0707
03067	70	7070	1540	70*7070
03070	00	0000	1541	0*0
03071	77	7777	1542	77*7777
03072	00	0777	1543	0*777
03073	77	7000	1544	77*7000
03074	00	0777	1545	0*777
03075	77	7000	1546	77*7000
03076	00	0777	1547	0*777
03077	77	7000	1550	77*7000
03100	00	0050	1551	0*50
03101	00	0001	1552	0*1
03102	00	0050	1553	0*50
03103	00	0002	1554	0*2
03104	00	0050	1555	0*50
03105	00	0004	1556	0*4
03106	00	0050	1557	0*50
03107	00	0010	1560	0*10
03110	00	0050	1561	0*50
03111	00	0020	1562	0*20
03112	00	0050	1563	0*50
03113	00	0040	1564	0*40
03114	00	0050	1565	0*50
03115	00	0100	1566	0*100
03116	00	0050	1567	0*50
03117	00	0200	1570	0*200
03120	00	0050	1571	0*50
03121	00	0400	1572	0*400
03122	00	0050	1573	0*50
03123	00	1000	1574	0*1000
03124	00	0050	1575	0*50
03125	00	2000	1576	0*2000
03126	00	0050	1577	0*50

03127	00	4000	1600	0*4000
03130	00	0050	1601	0*50
03131	01	0000	1602	01*0
03132	00	0050	1603	0*50
03133	02	0000	1604	02*0
03134	00	0050	1605	0*50
03135	04	0000	1606	04*0
03136	00	0050	1607	0*50
03137	10	0000	1610	10*0
03140	00	0050	1611	0*50
03141	20	0000	1612	20*0
03142	00	0050	1613	0*50
03143	40	0000	1614	40*0
03144	00	0050	1615	0*50
03145	77	7776	1616	77*7776
03146	00	0050	1617	0*50
03147	77	7775	1620	77*7775
03150	00	0050	1621	0*50
03151	77	7773	1622	77*7773
03152	00	0050	1623	0*50
03153	77	7767	1624	77*7767
03154	00	0050	1625	0*50
03155	77	7757	1626	77*7757
03156	00	0050	1627	0*50
03157	77	7737	1630	77*7737
03160	00	0050	1631	0*50
03161	77	7677	1632	77*7677
03162	00	0050	1633	0*50
03163	77	7577	1634	77*7577
03164	00	0050	1635	0*50
03165	77	7377	1636	77*7377
03166	00	0050	1637	0*50
03167	77	6777	1640	77*6777
03170	00	0050	1641	0*50
03171	77	5777	1642	77*5777
03172	00	0050	1643	0*50
03173	77	3777	1644	77*3777

03174	00	0050	1645
03175	76	7777	1646
03176	00	0050	1647
03177	75	7777	1650
03300	00	0000	1651
			1652

INBUF

0*50
76*7777
0*50
75*7777
RESERV*503
ENDATA*

INPUT STORAGE

LABELS AND ADDRESSES

AUPARM	02367	BUFOUT	03000	COINT	02144	COINT1	02152	CCOUNT	02375
CDMASK	02327	CDMBIT	02332	CFLAG	02360	CHOUT	02335	CHANS	02354
CHNBR	01657	CHNBR7	01670	CHSET	01274	CLKOF	02124	CLKOF1	02132
CLKOFI	02361	CLKM	02153	CLKM1	02156	CLKMI	02363	CMFLAG	02362
CMINT	02200	CMINT1	02206	DO	01376	DN1	02427	DN3	02376
DND	01554	DNDD1	01560	DNDD2	01571	DNT1	02441	DNT2	02442
EFERR	02114	EFERR1	02122	EFERR2	02123	EFINT	01736	EFINT2	02017
EFINT3	02045	EFINT4	02054	EFINT5	02060	EFINT6	02064	EFINT7	02073
EFINTA	02356	EFINTE	02357	EFLAG	02355	EFLAGA	02374	EFXX	02044
EIO	01000	EIO1	01016	EIO10	01141	EIO11	01152	EIO12	01162
EIO13	01173	EIO14	01211	EIO15	01013	EIO2	01031	EIO3	01051
EIO41	01117	EIO5	01126	EIO7	01225	EIO8	01226	ESABUF	02344
EXFA	02373	EXFE	02372	EXFM	02070	EXFME	02077	EXINT	02105
EXINT1	02113	FOUT	02207	FOUT1	02307	FOUT1A	02371	FOUTA	02370
FIN	02247	FLAG	01424	FLAG1	01425	FLAG2	01426	GARD	01427
GARD1	01447	GARD2	01473	GARD3	01460	GARD4	01471	ICFLAG	02364
ICFLT	01671	ICFLT1	01707	ICFLT2	01715	ICFLT3	01721	ICFLT4	01724
ICI	02365	ICINT	01725	ICINT1	01735	ICINT2	01732	INBUF	03300
INCHA	02334	INIT10	02342	INIT11	02343	INIT2	02337	INIT3	02336
INIT6	02340	INIT7	02341	INT0	01230	INT01	01247	INT02	01261
INTCK	01635	INTCK1	01650	INTCK2	01654	K1	02347	K16	02331
K17	02350	K37	02352	K50	02333	K7	02330	K77	02351
K99A	02353	KEYS	01342	MOBCW	02346	MON	01407	MON1	01421
MONBIT	02440	MONMSK	02437	MIT2	01723	MIT3	01704	MNOUT	01612
MNER	01620	MNIN	01626	TS1	01634	TYPE	01355	VERFY	01474
VERFY1	01505	VERFY10	01576	VERFY11	01601	VERFY12	01607	VERFY2	01516
VERFY3	01521	VERFY4	01527	VERFY5	01532	VERFY6	01540	VERFY7	01543
VERFY8	01565	VERFY9	01570	ZILCH	02366				