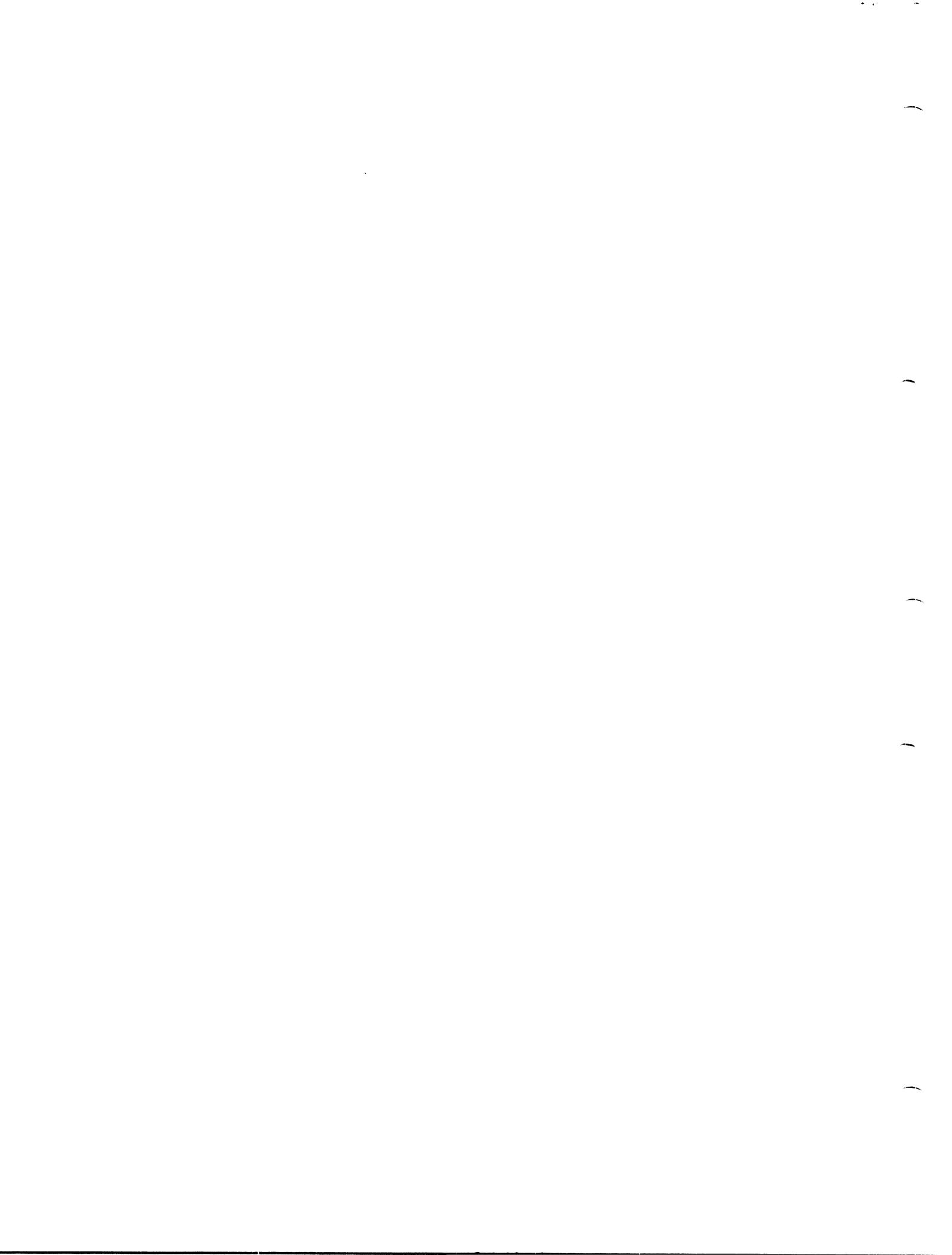


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IDENTIFICATION

PRODUCT CODE: MAINDEC-8E-D0IA-D- (D)
PRODUCT NAME: BASIC JMP-JMS TEST
DATE CREATED: NOVEMBER 5, 1970
MAINTAINER: DIAGNOSTICS GROUP
AUTHOR: BRUCE HANSEN

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1. ABSTRACT
This is a diagnostic program for testing the JMP and JMS instructions of the PDP-8E.

2. REQUIREMENTS

2.1 Equipment

A PDP-8E equipped with Teletype.

2.2 Storage

This program uses most of memory. The Binary Loader must be stored in the last memory page.

2.3 Preliminary Programs

Maindec-8E-D0AA and Maindec-8E-D0BA

3. LOADING PROCEDURE

3.1 Method

The standard Binary Loader is used.

4. STARTING PROCEDURE

4.1 Control Switch Settings (none)

4.2 Starting Address

200

4.3 Restart Addresses

600

704

4.4 Operator Action

- a. Set SR to 200 and press LOAD ADDRESS.
- b. Push clear and then continue. The program will store parts of the RIM and Binary Loaders that will be destroyed, and then JMP to 4200 to begin testing.

5. OPERATING PROCEDURES

5.1 Program Restarts

Since the loaders are already stored, a program restart should begin at 600 not 200.

5.2 Program End

To restore the loaders at the conclusion of the test, start at 704. When the program halts, restoration is completed (PC=736).

6. ERRORS

6.1 Error Halts and Description

See listing, section 10.

6.2 Error Recovery

In most cases it is possible to insert a JMP instruction in the error halt position to return the program to the failing test. This forms a program loop on the failing test and allows the problem to be investigated with an oscilloscope. In cases where a scope mode loop cannot be maintained due to the instability of the JMP or JMS instruction and its failing condition, it will probably be advantageous to simulate this same problem using the Random JMP Test, Maindec-8E-DØHA, or Random JMS Test, Maindec-8E-DØJA.

7. RESTRICTIONS (none)

8. MISCELLANEOUS

8.1 Execution Time

Three hundred and Forty-five program loops per second. A bell is sounded every 10 seconds, which equals 3456 program loops.

9. PROGRAM DESCRIPTION

The program is made up of 82 individual tests for JMP and JMS. An octal counter located at memory location 0136 always holds the number of the present test. For test 1 location, 0136 contains 0000 and for test 82, 0136 contains 0121. Each test performs the following functions:

- a. Check location 0136 for proper test number.
- b. Performs additional checking such as verification of the stored PC (program counter) on a JMS.
- c. Advances test counter.
- d. Sets up for next test.
- e. JMPs or JMSs to the next test. These JMP and JMS instructions are the ones being tested.

If the PC does not arrive at the proper place after performing steps above, it either falls into the background field of HLTS or into another area of the program. If the field of HLTS is encountered, the program halts immediately. If a program field is entered, it is most likely that the program will halt when the test counter check is made (location 136 equals the test count). In a few remote cases it is possible for the test counter to be advanced by one, following the erroneous JMP or JMS and before the halt. It is also possible for the program, on an error condition, to enter the loaders stored in the last memory page. All of these possibilities should be kept in mind when analyzing an error.

Test 0 through 19 are tests for same page jumping using direct addressing. Tests 20 through 45 test the JMP instruction with indirect addressing. In these cases the address that the program jumps to is always the complement of its present address. JMS Tests 1 through 12 are test for the same page using direct addressing. JMS Tests 13 through 35 test JMS in the same manner as JMP is tested in test 20 through 45.

The Teletype bell is sounded every 10 seconds (3456 program cycles).

/BASIC JMP-JMS TEST

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/BASIC. JMP-JMS TEST

0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z																				
00000	00001	00002	00003	00004	00005	00006	00007	00008	00009	00010	00011	00012	00013	00014	00015	00016	00017	00018	00019	00020	00021	00022	00023	00024	00025	00026	00027	00028	00029	0002A	0002B	0002C	0002D	0002E	0002F	0002G	0002H	0002I	0002J	0002K	0002L	0002M	0002N	0002O	0002P	0002Q	0002R	0002S	0002T	0002U	0002V	0002W	0002X	0002Y	0002Z
00000	00001	00002	00003	00004	00005	00006	00007	00008	00009	0000A	0000B	0000C	0000D	0000E	0000F	0000G	0000H	0000I	0000J	0000K	0000L	0000M	0000N	0000O	0000P	0000Q	0000R	0000S	0000T	0000U	0000V	0000W	0000X	0000Y	0000Z																				
00000	00001	00002	00003	00004	00005	00006	00007	00008	00009	0000A	0000B	0000C	0000D	0000E	0000F	0000G	0000H	0000I	0000J	0000K	0000L	0000M	0000N	0000O	0000P	0000Q	0000R	0000S	0000T	0000U	0000V	0000W	0000X	0000Y	0000Z																				
00000	00001	00002	00003	00004	00005	00006	00007	00008	00009	0000A	0000B	0000C	0000D	0000E	0000F	0000G	0000H	0000I	0000J	0000K	0000L	0000M	0000N	0000O	0000P	0000Q	0000R	0000S	0000T	0000U	0000V	0000W	0000X	0000Y	0000Z																				

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0063	4740	K4740,	4740
0064	4760	K4760,	4760
0065	5000	K5000,	5000
0066	5020	K5020,	5020
0067	5040	K5040,	5040
0070	5060	K5060,	5060
0071	5100	K5100,	5100
0072	5120	K5120,	5120
0073	5140	K5140,	5140
0074	5160	K5160,	5160
0075	5200	K5200,	5200
0076	5220	K5220,	5220
		*102	5240
		K5240,	5240
		K5260,	5260
		K5300,	5300
		K5320,	5320
		K5340,	5340
		K5360,	5360
		K5400,	5400
		K5420,	5420
		K5440,	5440
		H1,	-1
		H2,	-2
		H3,	-3
		H4,	-4
		H5,	-5
		H6,	-6
		H7,	-7
		H8,	-8
		H9,	-9
		H10,	-10
		H11,	-11
		H12,	-12
		H13,	-13
		H14,	-14
		H15,	-15
		H16,	-16
		H17,	-17
		H18,	-18
		H19,	-19
		H20,	-20
		H21,	-21
		H22,	-22
		H23,	-23
		PNTCNT,	0
		K2410,	2410
		K2440,	2440
		K2470,	2470
		K2520,	2520
		K2600,	2600
		K2630,	2630
		K2660,	2660
		K2710,	2710
		K2740,	2740
		K3000,	3000
		K3030,	3030
		S000,	S000
		S030,	S030
		S060,	S060
		S090,	S090

/BASIC JMP-JMS TEST PAL10 V141 11-NOV-70

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0152	3068	K3068,	3068
0153	3118	K3118,	3118
0154	3149	K3149,	3149
0155	3208	K3208,	3208

0156	3238	K3238,	3238
0157	3268	K3268,	3268
0158	3318	K3318,	3318
0161	3348	K3348,	3348
0162	3408	K3408,	3408
0163	3438	K3438,	3438
0164	3468	K3468,	3468
0165	3518	K3518,	3518
0166	3548	K3548,	3548

0170	0008	*170 DO,	TAD K7402
0171	1175		DCA 1 10
0172	3418		TAD 1 10
0173	1818		TAD 1 DO
0174	8978	K7402,	7402
0175	7402		

0200	0200	*200	JMP ! SAVER
0201	0600	SAVER,	SAVE

/STORE LOADER INSTRUCTIONS
/THAT WILL BE DESTROYED

0600	0600	*600	
0600	7200	SAVE,	CLA
0601	1453		TAD 1 K7775
0602	3343		DCA STOR
0603	1452		TAD 1 K7773
0604	3344		DCA STOR+1
0605	1736		TAD 1 K74
0606	3345		DCA STOR+2
0607	1451		TAD 1 K7767
0610	3346		DCA STOR+3
0614	1737		TAD 1 K76
0612	3347		DCA STOR+4
0613	1450		TAD 1 K7757
0614	3350		DCA STOR+5
0615	1749		TAD 1 K60
0616	3351		DCA STOR+6
0617	1447		TAD 1 K7737
0620	3352		DCA STOR+7
0621	1741		TAD 1 K740
0622	3353		DCA STOR+10

/BASIC JMP-JMS TEST

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0623 1446 TAD I K7677
0624 3394 DCA STOR+14
0625 1742 TAD I K00
0626 3395 DCA STOR+12
0627 1455 TAD I K7777
0630 3396 DCA STOR+13
0631 7300 HALT1,
0632 1264 TAD K175
0633 3919 DCA 10
0634 4175 JMS DO
0635 1265 TAD M577
0636 7640 SEA CLA
0637 5234 JMP 153
0640 1266 TAD K796
0641 3910 DCA 10
0642 4170 JMS DO
0643 1267 TAD M1777
0644 7640 SEA CLA
0645 5242 JMP 153
0646 1270 TAD K3572
0647 3919 DCA 10
0648 4170 JMS DO
0649 1271 TAD M4177
0650 7640 SEA CLA
0651 5250 JMP 153
0652 1272 TAD K5451
0653 3919 DCA 10
0654 4173 JMS DO
0655 1273 TAD M7600
0656 7640 SEA CLA
0657 5250 JMP 153
0658 1274 TAD K5451
0659 3919 DCA 10
0660 4200 JMS DO
0661 5250 JMP 153
0662 3919 BEGIN
0663 4200 TAD K175,
0664 9175 M577,
0665 7261 -577
0666 6756 K796,
0667 6901 M1777,
0668 5672 K3572,
0669 5601 M4177,
0670 5451 K5451,
0671 5451 M7600,
0672 5200 -7600

/RESTORE LOADER INSTRUCTIONS

0700 *700 RESTAR, TAD RENEW
0701 1303 3200 DCA SAVE
0702 5303 5663 JMP RENEW
0703 5663 7200 REFILL, CLA HALT1,
0704 7200 1343 TAD STOR
0705 1343 DCA I K7777
0706 3453 3454 TAD STOR+1
0707 3454 3452 DCA I K7777S

```

871.1    1345    TAD STOR+2
871.2    3736    DCA 1 K74
871.3    1346    TAD STOR+3
871.4    3451    DCA 1 K7767
871.5    1347    TAD STOR+4
871.6    3737    DCA 1 K78
871.7    1358    TAD STOR+5
872.0    3450    DCA 1 K7757
872.1    1351    TAD STOR+6
872.2    3740    DCA 1 K60
872.3    1352    TAD STOR+7
872.4    3447    DCA 1 K7737
872.5    1353    TAD STOR+8
872.6    3741    DCA 1 K740
872.7    1354    TAD STOR+11
873.0    3446    DCA 1 K767
873.1    1355    TAD STOR+12
873.2    3742    DCA 1 K69
873.3    1356    TAD STOR+13
873.4    3455    DCA 1 K7777
873.5    1357    HLT

```

/CONSTANTS

```

873.6    7774    K74,    7774
873.7    7770    K78,    7776
874.0    7768    K69,    7768
874.1    7749    K749,   7749
874.2    7769    K60,    7768
874.3    0000    STOR,   0
874.4    0000    0
874.5    0000    0
874.6    0000    0
874.7    1742    -6036
874.8    0000    0
875.0    0000    0
875.1    0000    0
875.2    0000    0
875.3    0000    0
875.4    0000    0
875.5    0000    0
875.6    0000    0
4200    $4200    $4200
4201    3136    BEGIN,  CLA PNTCNT
4202    $203     JMP :+1
4203    1136    TAD PNTCNT
4204    7440    S24
4205    7402    HLT
4206    1136    TAD PNTCNT

```

```

/JUMP TEST & COUNTER=0
/JMP :+1
/TAD PNTCNT
/S24
/HLT
/TAD PNTCNT

```

	/BASIC JMP-JMS TEST	PAL10	V141	11-NOV-72
4207	7001	IAC		
4210	3136	DCA PNTCNT		

	/JUMP TEST 1 COUNTER=1			
4211	5213	JMP .+2		
4212	7402	HLT		
4213	1136	TAD PNTCNT		
4214	1113	TAD M1		
4215	7440	SEA		
4216	7402	HLT		
4217	1136	TAD PNTCNT		
4220	7001	IAC		
4221	3136	DCA PNTCNT		

	/JUMP TEST 2 COUNTER=2			
4222	5225	JMP .+3		
4223	7402	HLT		
4224	7402	HLT		
4225	1136	TAD PNTCNT		
4226	1114	TAD M2		
4227	7440	SEA		
4230	7402	HLT		
4231	1136	TAD PNTCNT		
4232	7001	IAC		
4233	3136	DCA PNTCNT		

	/JUMP TEST 3 COUNTER=3			
4234	5249	JMP .+4		
4235	7402	HLT		
4236	7402	HLT		
4237	7402	HLT		
4240	1136	TAD PNTCNT		
4241	1115	TAD M3		
4242	7440	SEA		
4243	7402	HLT		
4244	1136	TAD PNTCNT		
4245	7001	IAC		
4246	3136	DCA PNTCNT		

	/JUMP TEST 4 COUNTER=4			
4247	5254	JMP .+5		
4250	7402	HLT		
4251	7402	HLT		
4252	7402	HLT		
4253	7402	TAD PNTCNT		
4254	1136	TAD M4		
4255	1116	SEA		
4256	7440	HLT		
4257	7402	TAD PNTCNT		
4260	1136	IAC		
4261	7001	DCA PNTCNT		
4262	3136			

/JUMP TEST 5 COUNTER=5

4263	9271	JMP .+6	
4264	7402	HLT	/JMP FAILED
4265	7402	HLT	
4266	7402	HLT	
4267	7402	HLT	
4270	7402	HLT	
4271	1134	TAD PNTCNT	
4272	1117	TAD M5	
4273	7449	SEA	/CHECK COUNTER
4274	7402	HLT	/JMP COUNTER WRONG
4275	1136	TAD PNTCNT	
4276	7061	IAC	/ADVANCE COUNTER
4277	3136	DCA PNTCNT	

/JUMP TEST 6 COUNTER=6

4309	8387	JMP .+7	
4301	7402	HLT	/JMP FAILED
4302	7402	HLT	
4303	7402	HLT	
4304	7402	HLT	
4305	7402	HLT	
4306	7402	HLT	
4307	1136	TAD PNTCNT	
4310	1128	TAD M6	
4311	7449	SEA	/CHECK COUNTER
4312	7402	HLT	/JMP COUNTER WRONG
4313	1136	TAD PNTCNT	
4314	7061	IAC	/ADVANCE COUNTER
4315	3136	DCA PNTCNT	

/JUMP TEST 7 COUNTER=7

4316	9326	JMP .+10	
4317	7402	HLT	/JMP FAILED
4320	7402	HLT	
4321	7402	HLT	
4322	7402	HLT	
4323	7402	HLT	
4324	7402	HLT	
4325	7402	HLT	
4326	1136	TAD PNTCNT	
4327	1121	TAD M7	
4330	7449	SEA	/CHECK COUNTER
4331	7402	HLT	/JMP COUNTER WRONG
4332	1136	TAD PNTCNT	
4333	7061	IAC	/ADVANCE COUNTER
4334	3136	DCA PNTCNT	

/JUMP TEST 8 COUNTER=10

4335	5346	JMP .+11	
4336	7402	HLT	/JMP FAILED
4337	7402	HLT	
4340	7402	HLT	
4341	7402	HLT	
4342	7402	HLT	

```

4343    7402    HLT    /  

4344    7402    HLT    /  

4345    7402    HLT    /  

4346    1136    PNTCNT  
        TAD M10  
        TAD PNTCNT  
        HLT S2A  
        /CHECK COUNTER  
        /JMP COUNTER WRONG  

4350    7448    HLT    /  

4351    7402    PNTCNT  
        TAD PNTCNT  
        IAC  
        /ADVANCE COUNTER  

4352    1136    PNTCNT  
        TAD PNTCNT  
        IAC  
        /ADVANCE COUNTER  

4353    7001    DCA PNTCNT  
        DCA PNTCNT  


```

```

4355    9367    /  

4356    7402    /  

4357    7402    /  

4358    7402    /  

4359    7402    /  

4360    7402    /  

4361    7402    /  

4362    7402    /  

4363    7402    /  

4364    7402    /  

4365    7402    /  

4366    7402    /  

4367    1136    /  

4368    1123    /  

4369    7402    /  

4370    7402    /  

4371    7448    /  

4372    7402    /  

4373    1136    /  

4374    7001    /  

4375    3136    /  

4376    7000    /  

4377    7000    /  


```

/JUMP TEST 9 COUNTER=11

```

4378    7402    /  

4379    1136    /  

4380    1123    /  

4381    7402    /  

4382    7402    /  

4383    7402    /  

4384    7402    /  

4385    7402    /  

4386    7402    /  

4387    7402    /  

4388    7402    /  

4389    7402    /  

4390    7402    /  

4391    7402    /  

4392    1136    /  

4393    1124    /  

4394    7448    /  

4395    7402    /  

4396    1136    /  

4397    7001    /  

4398    3136    /  

4399    7000    /  


```

/JUMP TEST 10 COUNTER=12

```
*4400    4400    /  


```

```

4400    9201    /  

4401    1136    /  

4402    1124    /  

4403    7448    /  

4404    7402    /  

4405    1136    /  

4406    7001    /  

4407    3136    /  


```

/JUMP TEST 11 COUNTER=13

```

4408    9212    /  

4409    7402    /  

4410    1136    /  

4411    1136    /  

4412    1136    /  

4413    1125    /  

4414    7448    /  

4415    7402    /  

4416    1136    /  

4417    7001    /  

4418    3136    /  


```

```

4419    9212    /  

4420    7402    /  

4421    1136    /  

4422    1124    /  

4423    7448    /  

4424    7402    /  

4425    1136    /  

4426    7001    /  

4427    3136    /  


```

/JUMP TEST 12 COUNTER=14

```

4428    9212    /  

4429    7402    /  

4430    1136    /  

4431    1124    /  

4432    7448    /  

4433    7402    /  

4434    1136    /  

4435    7001    /  

4436    3136    /  


```

```

4437    9212    /  

4438    7402    /  

4439    1136    /  

4440    1124    /  

4441    7448    /  

4442    7402    /  

4443    1136    /  

4444    7001    /  

4445    3136    /  


```

/JUMP TEST 13 COUNTER=15

```

4446    9212    /  

4447    7402    /  

4448    1136    /  

4449    1124    /  

4450    7448    /  

4451    7402    /  

4452    1136    /  

4453    7001    /  

4454    3136    /  


```

```

4455    9212    /  

4456    7402    /  

4457    1136    /  

4458    1124    /  

4459    7448    /  

4460    7402    /  

4461    1136    /  

4462    7001    /  

4463    3136    /  


```

/JUMP TEST 14 COUNTER=16

```

4464    9212    /  

4465    7402    /  

4466    1136    /  

4467    1124    /  

4468    7448    /  

4469    7402    /  

4470    1136    /  

4471    7001    /  

4472    3136    /  


```

```

4473    9212    /  

4474    7402    /  

4475    1136    /  

4476    1124    /  

4477    7448    /  

4478    7402    /  

4479    1136    /  

4480    7001    /  

4481    3136    /  


```

/JUMP TEST 15 COUNTER=17

```

/JUMP TEST 12 COUNTER=14
JMP .+3           /JMP FAILED
HLT              /
TAD PNTCNT      /CHECK COUNTER
TAD H14          /JMP COUNTER WRONG
SEA              /ADVANCE COUNTER
HLT PNTCNT      /CHECK COUNTER
TAD PNTCNT      /ADVANCE COUNTER
IAC PNTCNT      /ADVANCE COUNTER

/JUMP TEST 13 COUNTER=15
JMP .+4           /JMP FAILED
HLT              /
TAD PNTCNT      /CHECK COUNTER
TAD H15          /JMP COUNTER WRONG
SEA              /ADVANCE COUNTER
HLT PNTCNT      /CHECK COUNTER
TAD PNTCNT      /ADVANCE COUNTER
IAC PNTCNT      /ADVANCE COUNTER

/JUMP TEST 14 COUNTER=16
JMP .+5           /JMP FAILED
HLT              /
TAD PNTCNT      /CHECK COUNTER
TAD H16          /JMP COUNTER WRONG
SEA              /ADVANCE COUNTER
HLT PNTCNT      /CHECK COUNTER
TAD PNTCNT      /ADVANCE COUNTER
IAC PNTCNT      /ADVANCE COUNTER

/JUMP TEST 15 COUNTER=17
JMP .+6           /JMP FAILED
HLT              /
TAD PNTCNT      /CHECK COUNTER
TAD H17          /JMP COUNTER WRONG
SEA              /ADVANCE COUNTER
HLT PNTCNT      /CHECK COUNTER
TAD PNTCNT      /ADVANCE COUNTER
IAC PNTCNT      /ADVANCE COUNTER
DCA PNIGNI      /ADVANCE COUNTER

```

/JUMP TEST 16 COUNTER =20

JMP .+7

HLT

9306

7402

7402

7402

7402

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7402

7402

7402

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4554	5366	JMP .+12	/JMP FAILED
4555	7482	HLT	
4556	7482	HLT	
4557	7482	HLT	
4560	7482	HLT	
4561	7482	HLT	
4562	7482	HLT	
4563	7482	HLT	
4564	7482	HLT	
4565	7482	HLT	
4566	1135	TAD M23	/CHECK COUNTER /JMP COUNTER WRONG
4567	1135	TAD PNTCNT	
4570	7444	SEA	
4571	7482	HLT	
4572	1136	TAD PNTCNT	/ADVANCE COUNTER
4573	7091	IAC	
4574	3136	DCA	
4575	7090	NOP	
4576	7090	NOP	
4577	7090	NOP	

4600	1299	JMP TEST 20	COUNTER#24
4601	3495	TAD PK1	
4602	1296	DCA I K7777	
4603	3492	TAD PK2	
4604	3495	DCA I KB	
4605	3422	JMP I K7777	
4606	3496	JMP I KB	
4620	1136	TAD PNTCNT	
4621	1236	TAD H24	
4622	7444	SEA	
4623	7482	HLT	
4624	1136	TAD PNTCNT	
4625	7091	IAC	
4626	3136	DCA PNTCNT	

4628	*4620	JMP TEST 21	COUNTER#25
4629	1234	TAD PK3	
4630	3494	DCA I K7776	
4631	1235	TAD PK4	
4632	3423	DCA I K1	
4633	3494	JMP I K7776	
4634	3423	JMP I K1	
4635	3497	JMP I K4640	
4636	7754	M24,-24	
4640	*4640	TAD PNTCNT	
4641	1136	TAD M25	
4642	7444	SEA	
4643	7482	HLT	

4644 1136 TAD PNTCNT
4645 7001 IAC PNTCNT /ADVANCE COUNTER
4646 3136 DCA PNTCNT

4647 1254 /JMP TEST 22 COUNTER=26
4650 3453 TAD PK5
4651 1255 DCA I K7775
4652 3424 TAD PK6
4653 3453 DCA I K2
4654 3424 JHP I K7775
4655 3660 PK5,
4656 7753 PK6,
4656 M25,
4656 -25

4660 4660 *4660 TAD PNTCNT
4661 1136 TAD M26
4662 7449 SEA /CHECK COUNTER
4663 7492 HLT /JMP COUNTER WRONG
4664 1136 TAD PNTCNT
4665 7001 IAC PNTCNT /ADVANCE COUNTER
4666 3136 DCA PNTCNT

4667 1274 /JMP TEST 23 COUNTER=27
4670 3492 TAD PK7
4671 1275 DCA I K7773
4672 3425 TAD PK8
4673 3492 DCA I K4
4674 3425 JHP I K7773
4674 3425 JHP I K4
4675 3461 PK8,
4676 7752 M26,
4676 -26

4700 4700 *4700 TAD PNTCNT
4701 1136 TAD M27
4702 7449 S24 /CHECK COUNTER
4703 7492 HLT /JMP COUNTER WRONG
4704 1136 TAD PNTCNT
4705 7001 IAC PNTCNT /ADVANCE COUNTER
4706 3136 DCA PNTCNT

4707 1314 /JMP TEST 24 COUNTER=30
4710 3451 TAD PK9
4711 1315 DCA I K7767
4712 3426 TAD PK10
4713 3451 DCA I K10
4714 9426 JHP I K7767
4715 5462 PK9,
4716 7751 PK10,
4716 M27,
4716 -27

4720 4720 *4720 TAD PNTCNT

```

) /BASIC JMP-JMS TEST      PA-10      "141      11-NOV
)                                     COUNTER=30
4721 1336          TAC M30
4722 7440          S2A
4723 7602          HLT
4724 1136          TAC PNTCNT
4725 7001          IAC
4726 3136          DCA PNTCNT
)                                     COUNTER=31
4727 1334          /JMP TEST 25
4730 3450          TAD PK11
4731 1335          DCA 1 K7757
4732 3427          TAD PK12
4733 5450          DCA 1 K20
4734 5427          JMP 1 K7757
4735 5463          JNF 1 K20
4736 7750          JNF 1 K4740
)                                     COUNTER=31
4740 1136          *4740
4741 1356          TAD PNTCNT
4742 7440          TAD M31
4743 7402          S2A
4744 1136          HLT
4745 7001          TAC PNTCNT
4746 3136          IAC
4747 1354          /ADVANCE COUNTER
4750 3447          DCA PNTCNT
4751 1355          TAD PK13
4752 5439          DCA 1 K14
4753 5447          DCA 1 K40
4754 5430          JMP 1 K7737
4755 5464          JNF 1 K40
4756 7747          JNF 1 K4760
)                                     COUNTER=32
4760 1136          *4760
4761 1376          TAD PNTCNT
4762 7440          TAD M32
4763 7402          S2A
4764 1136          HLT
4765 7001          TAC PNTCNT
4766 3136          IAC
4767 1374          /ADVANCE COUNTER
4770 3446          DCA PNTCNT
4771 1375          TAD PK15
4772 3431          DCA 1 K7677
4773 5446          TAD PK16
4774 5431          DCA 1 K1222
4775 5465          JNP 1 K7577
4776 7746          JNF 1 K4760
)                                     COUNTER=33
4777 4374          PX15
4778 3446          DCA 1 K7677
4779 1375          TAD PK16
4780 3431          DCA 1 K1222
4781 5446          JNP 1 K7577
4782 5431          JNF 1 K4760
4783 5465          PX15
4784 7746          PK16
4785 7746          K32, -52
)                                     COUNTER=33

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/BASIC JMP-JMS TEST PAL10 V141 11-NOV-78 13117 PAGE 1-13

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/BASIC JHP-JMS TEST

5000	*5000	TAD PINTON	/CHECK COUNTER	/JMP COUNTER WRONG	/ADVANCE COUNTED
51436		TAD N33			
52556		SEA			
50001		HALT			
50002		"TAD PINTON"			
50003		TAD			
50004		HALT			
50005		"TAD PINTON"			

5000	*5000	TAD PINTON	/CHECK COUNTER	/JMP COUNTER WRONG	/ADVANCE COUNTED
51436		TAD N33			
52556		SEA			
50001		HALT			
50002		"TAD PINTON"			
50003		TAD			
50004		HALT			
50005		"TAD PINTON"			

/ JMC TEST - 28 COUNTER = 34
 1214
 3043
 1213
 3011
 3010
 3012
 5013
 5014
 9432
 5014
 5015
 9466
 7745
 5016

REG#	INSTR	DATA	REG#	INSTR	DATA
1136	TAD	PNTCNT	1136	TAD	PNTCNT
1236	TAD	H34	1236	S2A	
7449	S2A		7449	HLT	
7402	HLT		7402	TAD	PNTCNT
740235	TAD	PNTCNT	740235	TAD	PNTCNT
1136	TAD	PNTCNT	1136	S2A	
1136	S2A		1136	HLT	
1136	HLT		1136	TAD	PNTCNT
1136	TAD	PNTCNT	1136	S2A	
1136	S2A		1136	HLT	
1136	HLT		1136	TAD	PNTCNT
1136	TAD	PNTCNT	1136	S2A	
1136	S2A		1136	HLT	
1136	HLT		1136	TAD	PNTCNT

1234	PK12
5444	K7377
1233	PK20
3453	K430
3452	K7377
3451	X432
3450	JN2
3449	K52118
3448	PK19
3447	PK20
3446	PK21
1235	PK21
5454	K52118
5453	PK21
5452	PK21
5451	PK21
5450	PK21
3454	PK21
3453	PK21
3452	PK21
3451	PK21
3450	PK21
3449	PK21
3448	PK21
3447	PK21
3446	PK21
1236	PK21

5040	1136	TAD PNTCNT
5041	1256	TAD H35
5042	7440	SZA
5043	7402	HLT
5044	4136	TAD PNTCNT
5045	7021	TAD PNTCNT
5046	3135	DCA PNTCNT

```

JMP TEST 30 COUNTER=36
TAD PK21
DCA 1 K6777
TAD PK22
DCA 1 K1000

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/BASIC JMP-JMS TEST PAL10 V141 11-NOV-78 1317 PAGE 1-16

5053 9443 PK21, JMP 1 K6777
5054 5434 PK22, JMP 1 K1000
5055 5470 M35, JMP 1 K5060
5056 7743 -35 ,

5060 *5060 TAD PNTCNT
5061 1276 TAD M36 /CHECK COUNTER
5062 7440 SZA /JMP COUNTER WRONG
5063 7402 HLT
5064 1136 TAD PNTCNT
5065 7001 IAC /ADVANCE COUNTER
5066 3136 DCA PNTCNT

5067 1274 /JMP TEST 31 COUNTER=37
5070 3442 TAD PK23
5071 1275 DCA 1 K5777
5072 3435 TAD PK24
5073 5442 DCA 1 K2000
5074 5435 JMP 1 K5777
5075 5471 PK23, JMP 1 K2000
5076 7742 PK24, M36, -36 ,

5100 *5100 TAD PNTCNT
5101 1316 TAD M37 /CHECK COUNTER
5102 7440 SZA /JMP COUNTER WRONG
5103 7402 HLT
5104 1136 TAD PNTCNT
5105 7001 IAC /ADVANCE COUNTER
5106 3136 DCA PNTCNT

5107 1314 /JMP TEST 32 COUNTER=40
5110 5437 TAD PK25
5111 1315 DCA 1 K3777
5112 5436 TAD PK26
5113 5437 DCA 1 K4000
5114 5436 JMP 1 K3777
5115 5472 PK25, JMP 1 K4000
5116 7741 PK26, M37, -37 ,

5120 *5120 TAD PNTCNT
5121 1336 TAD M40 /CHECK COUNTER
5122 7440 SZA /JMP COUNTER WRONG
5123 7402 HLT
5124 1136 TAD PNTCNT
5125 7001 IAC /ADVANCE COUNTER
5126 3136 DCA PNTCNT

5127 1334 /JMP TEST 33
 5130 3422 TAD PK27
 5131 1335 DCA I K0
 5132 3455 TAD PK28
 5133 5422 DCA I K7777
 5134 5455 JMP I K0
 5135 5473 PK27,
 5136 7746 PK28,
 5136 7746 M40,
 -40

5140 *5140 /JMP TEST 34 COUNTER=41
 5141 1136 TAD PNTCNT
 5142 1356 TAD M41
 5143 7440 SZA /CHECK COUNTER
 5144 7402 HLT /JMP COUNTER WRONG
 5145 1136 TAD PNTCNT
 5145 7001 IAC /ADVANCE COUNTER
 5146 3136 DCA PNTCNT

5147 1354 /JMP TEST 34 COUNTER=42
 5150 3423 TAD PK29
 5151 1355 DCA I K1
 5152 3454 TAD PK30
 5153 3423 DCA I K7776
 5154 3454 JMP I K1
 5155 3474 PK29,
 5156 7737 PK30,
 5156 7737 M41,
 -41

5160 *5160 /JMP TEST 34 COUNTER=43
 5160 1136 TAD PNTCNT
 5161 1376 TAD M42
 5162 7440 SZA /CHECK COUNTER
 5163 7402 HLT /JMP COUNTER WRONG
 5164 1136 TAD PNTCNT
 5165 7001 IAC /ADVANCE COUNTER
 5166 3136 DCA PNTCNT

5167 1374 /JMP TEST 35 COUNTER=43
 5170 3424 TAD PK31
 5171 1375 DCA I K2
 5172 3453 TAD PK32
 5173 5424 DCA I K7775
 5174 5453 JMP I K2
 5175 5475 PK31,
 5176 7736 PK32,
 5176 7736 M42,
 -42

5200 9200 /JMP TEST 35 COUNTER=44
 5201 1136 TAD PNTCNT
 5202 1216 TAD M43
 5202 7440 SZA /CHECK COUNTER
 5203 7402 HLT /JMP COUNTER WRONG
 5203 7402 TAD PNTCNT
 -14 1136)

5205 7001 IAC /ADVANCE COUNTER
5206 3136 DCA PNTCNT

/JMP TEST 36 COUNTER=44

5207 1214 TAD PK33
5210 3425 DCA 1 K4
5211 1215 TAD PK34
5212 3452 DCA 1 K7775
5213 5425 JMP 1 K4
5214 5452 PK35,
5215 5476 PK34,
5216 7735 H43,
5220 5220 *5220

TAD PNTCNT
TAD H44
S2A
HLT
TAD PNTCNT
IAC PNTCNT

/CHECK COUNTER
/JMP COUNTER WRONG
/ADVANCE COUNTER

/JMP TEST 37 COUNTER=45

5227 1234 TAD PK35
5230 3426 DCA 1 K10
5231 1235 TAD PK36
5232 3451 DCA 1 K7767
5233 5426 JMP 1 K10
5234 5451 PK35,
5235 5502 PK36,
5236 7734 H44,
5240 5240 *5240

TAD PNTCNT
TAD H45
S2A
HLT
TAD PNTCNT
IAC PNTCNT

/CHECK COUNTER
/JMP COUNTER WRONG
/ADVANCE COUNTER

/JMP TEST 3 COUNTER=46

5247 1254 TAD PK37
5250 3427 DCA 1 K20
5251 1255 TAD PK38
5252 3450 DCA 1 K7757
5253 5427 JMP 1 K20
5254 5450 PK37,
5255 5503 PK38,
5256 7733 H45,
5260 5260 *5260

TAD PNTCNT
TAD H46

5262	7440	SZA	/CHECK COUNTER
5263	7402	HLT	/JMP COUNTER WRONG
5264	1136	TAD PNTCNT	
5265	7001	IAC	/ADVANCE COUNTER
5266	3136	DCA PNTCNT	
5267	1274	/JMP TEST 39 COUNTER=47	
5270	3430	TAD PK39	
5271	1275	DCA I K40	
5272	3447	TAD PK40	
5273	5430	DCA I K7737	
5274	5447	JMP I K40	
5275	5504	JMP I K7737	
5276	7732	JMP I K5300	
		-46,	
5300	5300	*5300	
5301	1136	TAD PNTCNT	
5302	1316	TAD M47	
5303	7440	SZA	/CHECK COUNTER
5304	7402	HLT	/JMP COUNTER WRONG
5305	1136	TAD PNTCNT	
5306	7001	IAC	/ADVANCE COUNTER
		DCA PNTCNT	
5307	1314	/JMP TEST 40 COUNTER=50	
5310	3431	TAD PK41	
5311	1315	DCA I K100	
5312	3446	TAD PK42	
5313	5431	DCA I K7677	
5314	5446	JMP I K100	
5315	5505	JMP I K7677	
5316	7731	JMP I K5320	
		-47,	
5320	5320	*5320	
5321	1136	TAD PNTCNT	
5322	1336	TAD M50	
5323	7440	SZA	/CHECK COUNTER
5324	7402	HLT	/JMP COUNTER WRONG
5325	1136	TAD PNTCNT	
5326	7001	IAC	/ADVANCE COUNTER
		DCA PNTCNT	
5327	1334	/JMP TEST 41 COUNTER=51	
5330	3432	TAD PK43	
5331	1335	DCA I K200	
5332	3445	TAD PK44	
5333	5432	DCA I K7577	
5334	5445	JMP I K200	
5335	5506	JMP I K7577	
5336	7730	JMP I K5340	
		-50,	

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5340	1136	TAD	PNTCNT
5341	1356	TAD	M51
5342	7440	S2A	/CHECK COUNTER
5343	7402	HLT	/JMP COUNTER WRONG
5344	1136	TAD	PNTCNT
5345	7001	IAC	/ADVANCE COUNTER
5346	3136	DCA	PNTCNT

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JUMP TEST 42 COUNTER=52
      TAD PK45
      TAD PK46
      DCA I K480
      TAD PK46
      DCA I K7377
      JMP I K400
      JMP I K7377
      PK45,
      PK46,
      JMP I K5360
      -51,
      M51,

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9360	1136	TAD PNTCNT
9360	1376	TAD M52
9361	1376	SEA
9362	7440	HLT
9363	7402	TAD PNTCNT
9364	1136	IAC
9365	7001	DCA PNTCNT
9366	3136	

5367	1374	/JMP TEST 43
5370	3434	TAD PK47
5371	3375	DCA I K1000
5372	3443	TAD PK48
5373	5373	DCA I K6777
5374	5434	JMP I K1000
5375	5443	K6777
5376	5510	JMP I K5400
	7726	-52,

5400	1136	TAD PNTCNT	5407	1214	/JMP TEST 44 COUNTER=54
5401	1216	TAD M53	5410	5435	TAD PK49
5402	7448	SZA	5411	1215	DCA 1 K2000
5403	7402	HLT	5412	3442	TAD PK50
5404	1136	TAD PNTCNT	5413	5435	DCA 1 K5777
5405	7001	IAC	5414	5442	JMP 1 K2000
	3136	DCA PNTCNT			JMP 1 K5777
*5400			PK49.		

5415	5511	PK50,	JMP 1 K5420	
5416	7725	H53,	-53	
5420	5420	*5420	TAD PNTCNT	
5421	1236	TAD H54	/CHECK COUNTER	
5422	7440	S2A	/JMP COUNTER WRONG	
5423	7402	HLT	PNTCNT	
5424	1136	TAD	IAC	/ADVANCE COUNTER
5425	7001	PNTCNT	DCA	PNTCNT
5426	3136			
5427	1234	JMP TEST 45	COUNTER=55	
5430	5436	TAD PK51		
5431	1235	DCA 1 K4000		
5432	3437	TAD PK52		
5433	5436	DCA 1 K3777		
5434	5437	JMP 1 K4000		
5435	5512	JMP 1 K3777		
5436	7724	JMP 1 K5440		
		-54		
5440	5440	*5440	TAD PNTCNT	
5441	1136	TAD H55		
5442	1250	S2A	/CHECK COUNTER	
5443	7440	HLT	/JMP COUNTER WRONG	
5444	7402	TAD PNTCNT		
5445	1136	IAC	/ADVANCE COUNTER	
5446	7001	DCA	PNTCNT	
5447	5651	JMS TEST 1	COUNTER=56	
5450	7723	JMP 1 AFRM		
5451	2002	H55,		
		AFRM,		
2002	2002	*2002	JMS TO	
2003	4203	FRM,		
2004	5203	TO,		
2005	4136	JMP .		
2006	1222	TAD		
2007	7402	PNTCNT		
2010	1224	TAD AFM		
2011	7041	CIA		
2012	1203	TAD TO		
2013	7440	S2A	/CHECK COUNTER	
2014	7402	HLT	/JMP COUNTER WRONG	
2015	3203	DCA TO		
2016	1136	TAD PNTCNT		
2017	7001	IAC		
2020	3136	DCA PNTCNT		
2021	7410	SKP		
	-72	7722	-56	

2023	7410	SKP	
2024	2003	AFM,	FRM1,
			JMS T01
2025	4227		HLT
2026	7402		JMP
2027	5227	T01,	TAD PNTCNT
2030	1136		TAD M57
2031	1246		SEA
2032	7440		HLT
2033	7402		TAD AFRM1
2034	1250		CIA
2035	7041		TAD T01
2036	1227		SEA /CHECK STORED ADDRESS
2037	7440		HLT /JMS FAILED
2040	7402		DCA T01 /CLEAR STORED PC
2041	3227		TAD PNTCNT
2042	1136		IAC
2043	7001		DCA PNTCNT
2044	\$136		SKP
2045	7410		
2046	7721	M57,	-57
2047	7410	AFRM1,	SKP
2050	2026		FRM1,

2051	4254		/JMS TEST 3 COUNTER=60
2052	7402	FRM2,	HLT
2053	7402		HLT
2054	9254	T02,	JMP
2055	1136		TAD PNTCNT
2056	1275		TAD M60
2057	7440		SEA
2060	7402		HLT
2061	1273		TAD AFRM2
2062	7041		CIA
2063	1254		TAD T02
2064	7440		SEA /CHECK STORED ADDRESS
2065	7402		HLT /JMS FAILED
2066	3254		DCA T02 /CLEAR STORED PC
2067	1136		TAD PNTCNT
2070	7001		IAC
2071	3136		DCA PNTCNT
2072	7410		SKP
2073	2052		FRM2,
2074	7410		SKP
2075	7720		-60
2076	4302		/JMS TEST 4 COUNTER=61
2077	7402	FRM3,	JMS T03
2100	7402		HLT
2101	7402		HLT

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2102 9302    T03,   JMP PNTCNT
2103 1136    TAD M61
2104 1323    S2A
2105 7440    HLT
2106 7402    /CHECK COUNTER
2107 1321    TAD AFRM3
2108 7041    CIA
2109 1302    TAD T03
2110 7445    S2A
2111 1302    HLT
2112 7445    /CHECK STORED ADDRESS
2113 7402    DCA T03
2114 3302    TAD PNTCNT
2115 1136    IAC
2116 7001    DCA PNTCNT
2117 3136    SKP
2118 7410    AFRM3,
2119 2077    FRM3,
2120 7410    SKP
2121 2077    SKP
2122 7410    M61,
2123 7717    -61

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/JMS TEST 5 COUNTER=62

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2124 4339    JMS T04
2125 7402    HLT
2126 7402    HLT
2127 7402    HLT
2128 3338    T04,
2129 1136    JMP PNTCNT
2130 1351    TAD M62
2131 7446    S2A
2132 7402    HLT
2133 7446    /CHECK COUNTER
2134 7402    TAD AFRM4
2135 1347    CIA
2136 7041    TAD T04
2137 1339    S2A
2138 7440    HLT
2139 7440    /CHECK STORED ADDRESS
2140 7402    DCA T04
2141 7402    TAD PNTCNT
2142 3338    IAC
2143 1136    DCA PNTCNT
2144 7001    SKP
2145 3136    AFRM4,
2146 7410    FRM4,
2147 2125    SKP
2148 7410    M62,
2149 7716    -62

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2150 7410    S2A
2151 7716    /CHECK COUNTER
2152 4356    JMS T05
2153 7402    HLT
2154 7402    HLT
2155 7402    HLT
2156 53356   T05,
2157 1136    TAD PNTCNT
2158 1377   M63
2159 7440    S2A
2160 1377   /CHECK COUNTER
2161 7440

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2162 7402 HLT          V141 11-NOV-70
2163 1375 TAD AFRM5   /JMP COUNTER WRONG
2164 7041 CIA          CIA T05      /CHECK STORED ADDRESS
2165 1356 TAD T05     SZA          HLT          /JMS FAILED
2166 7440 SZA          DCA T05      TAD PNTCNT /CLEAR STORED PC
2167 7402 HLT          TAD PNTCNT
2170 3356 CIA          IAC          DCA PNTCNT
2171 1136 TAD PNTCNT
2172 7001 IAC          DCA PNTCNT
2173 3136 SKP          SKP
2174 7410 AFRM5,     FRM5
2175 2153 SKP          SKP
2176 7410 M63,        -63
2177 7715 PAUSE

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PAUSE

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2200 /TAPE # 2
*2200

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2200 7000 /JMS TEST 7 COUNTER=64
2201 4202 NOP
2202 5202 JMS T06
2203 1136 TAD PNTCNT
2204 1221 TAD M64      /CHECK COUNTER
2205 7440 SZA          HLT          /JMP COUNTER WRONG
2206 7402 TAD T06
2207 1202 CIA          CIA T06      /CHECK STORED ADDRESS
2208 7041 TAD AT06
2209 1223 SZA          HLT          /JMS FAILED
2210 7041 DCA T06      TAD PNTCNT /CLEAR STORED PC
2211 1223 CIA          IAC          DCA PNTCNT
2212 7440 SZA          HLT          /CHECK COUNTER
2213 7402 TAD T06
2214 3202 CIA          CIA T06      /CHECK STORED ADDRESS
2215 1136 TAD PNTCNT
2216 7001 DCA PNTCNT
2217 3136 SKP
2218 7410 M64,        -64
2219 7714 SKP
2220 7410 TAD AT06
2221 7714 T06
2222 7410 TAD T06
2223 2202 AT06,
2224 4226 /JMS TEST 8 COUNTER=65
2225 7402 JMS T07
2226 5226 HLT
2227 1136 TAD PNTCNT
2230 1245 TAD M65      /CHECK COUNTER
2231 7440 SZA          HLT          /JMP COUNTER WRONG
2232 7402 TAD AFRM7
2233 1247 CIA
2234 7041 TAD T07
2235 1226 TAD T07

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PAL / BASIC JUMP-JMS TEST

/CHECK STORED ADDRESS	
/JMS FAILED	
/CLEAR STORED PC	
SEA	HLT
	DCA T07
	TAD PNTCNT
	IAC
	DCA PNTCNT
	SKP
	-63
	SKP
	FRMT,
22236	7440
22237	7402
22240	3226
22241	1136
22242	7001
22243	3136
22244	7410
22245	7713
22246	M65,
22247	7410
	2225

YMS TEST 9 COUNTER=66

JMS TEST #10 COUNTER=67

2322 2276 AFRM9, FRM9
2321 7410 SKP
2322 7711 M67, -67

2323 4330 /JMS TEST 11 COUNTER =70
2324 7402 JMS T010,
2325 7402 HLT
2326 7402 HLT
2327 7402 HLT

2330 5330 T010, JMP PNTCNT
2331 1136 TAD M70
2332 1351 SZA /CHECK COUNTER
2333 7440 HLT /JMP COUNTER WRONG
2334 7402 TAD T010
2335 1339 CIA
2336 7041 TAD AFRM10
2337 1347 SZA /CHECK STORED ADDRESS
2340 7440 HLT /JMS FAILED
2341 7402 DCA T010
2342 3330 TAD PNTCNT /CLEAR STORED PC
2343 1136 IAC
2344 7001 DCA PNTCNT
2345 3136 SKP
2346 7410 AFRM10, FRM10
2347 2324 SKP
2350 7410 SKP

2351 7710 M70, -70 /JMS TEST 11 COUNTER=71
2352 4356 JMS T011,
2353 7402 HLT
2354 7402 HLT
2355 7402 HLT
2356 5356 T011, JMP PNTCNT
2357 1136 TAD M71 /CHECK COUNTER
2360 1377 CIA
2361 7440 TAD AFRM11
2362 7402 HLT /CLEAR STORED ADDRESS
2363 1356 CIA
2364 7041 DCA T011
2365 1375 TAD PNTCNT
2366 7440 HLT /JMS FAILED
2367 7402 DCA T011
2370 3356 TAD PNTCNT
2371 1136 IAC
2372 7001 DCA PNTCNT
2373 3136 CIA
2374 7410 SKP
2375 2353 AFRM11, FRM11
2376 7410 SKP
2377 7707 M71, -71

2400 *2400 /JMS TEST 12 COUNTER=72
2405 1205 TAD RK1
2401 3495 DCA I K7777
2402 1206 TAD RK2
2403 3423 DCA I K1
2404 3423 JMP I K1
2405 5537 RK1,
2406 4454 RK2,
2406 3136 JMS I K7776

2410 *2410 TAD PNTCNT
2411 1233 TAD M72 /CHECK COUNTER
2412 7449 SEA /JMP COUNTER WRONG
2413 7402 HLT
2414 1454 TAD I K7776
2415 1054 TAD K7776 /CHECK STORED ADDRESS
2416 7449 SEA
2417 7402 HLT
2420 3454 DCA I K7776 /CHECK FAILED
2421 1136 TAD PNTCNT /CLEAR STORED ADDRESS
2422 7001 IAC /ADVANCE COUNTER
2423 3136 DCA PNTCNT

2424 *2424 /JMS TEST 13 COUNTER=73
2425 1231 TAD RK3
2425 3454 DCA I K7776
2426 1232 TAD RK4
2427 3424 DCA I K2
2430 3424 JMP I K2
2431 9548 JMS I K2440
2432 4453 JMS I K7775 /CHECK STORED ADDRESS
2433 7706 M72, -72 /JMS FAILED
2436 3136 DCA PNTCNT /CLEAR STORED ADDRESS
2440 *2440 /ADVANCE COUNTER
2441 1263 TAD PNTCNT
2442 7449 SEA /CHECK COUNTER
2443 7402 HLT /JMP COUNTER WRONG
2444 1453 TAD I K7775
2445 1053 TAD K7775 /CHECK STORED ADDRESS
2446 7449 SEA /JMS FAILED
2447 7402 HLT /CLEAR STORED ADDRESS
2450 3453 DCA I K7775 /ADVANCE COUNTER
2451 1136 TAD PNTCNT
2452 7001 IAC
2453 3136 DCA PNTCNT

2454 1261 /JMS TEST 14 COUNTER=74
TAD RK5)

2455	3664	DCA	1 K7774
2456	1262	TAD	RK6
2457	3425	DCA	1 K4
2460	5425	JMP	1 K4
2461	5541	JMP	1 K2470
2462	4452	JMS	1 K7773
2463	7705	M73,	-75
2464	7774	K7774,	7774

*2470

2470	1136	TAD	PNTCNT
2471	1313	TAB	M74
2472	7440	S2A	
2473	7482	HLT	
2474	1452	TAD	1 K7773
2475	1052	TAD	K7773
2476	7440	S2A	
2477	7402	HLT	
2500	3452	DCA	1 K7773
2501	1136	TAD	PNTCNT
2502	7001	IAC	
2503	3136	DCA	PNTCNT

/JMS TEST 15 COUNTER=75

2504	1311	TAD	RK7
2505	3714	DCA	1 K7770
2506	1312	TAB	RK8
2507	3426	DCA	1 K10
2510	9486	JMP	1 K10
2511	5542	JMP	1 K2520
2512	4451	JMS	1 K7767
2513	7704	M74,	-74
2514	7770	K7770,	7770

/JMS TEST 15 COUNTER=75

2520	1136	TAD	PNTCNT
2521	1343	TAB	M75
2522	7440	S2A	
2523	7482	HLT	
2524	1451	TAD	1 K7767
2525	1051	S2A	
2526	7440	HLT	
2527	7402	DCA	1 K7767
2530	3451	TAD	PNTCNT
2531	1136	IAC	
2532	7001	DCA	PNTCNT
2533	3136		

2520	1136	TAD	PNTCNT
2521	1343	TAB	M75
2522	7440	S2A	
2523	7482	HLT	
2524	1451	TAD	1 K7767
2525	1051	S2A	
2526	7440	HLT	
2527	7402	DCA	1 K7767
2530	3451	TAD	PNTCNT
2531	1136	IAC	
2532	7001	DCA	PNTCNT
2533	3136		

/JMS TEST 15 COUNTER=75

2534	1341	TAD	RK9
2535	3744	DCA	1 K7760
2536	1342	TAD	RK10
2537	3427	DCA	1 K20
2540	5427	JMP	1 K20

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2541 5543 RK9, JMP 1 K2600
2542 4450 RK10, JMS 1 K7757
2543 7703 M75, -75
2544 7760 K7760, 7760

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2600 *2600 TAD PNTCNT
2601 1136 TAD PNTCNT
2602 1223 TAD M76
2603 7640 SZA /CHECK COUNTER
2604 1450 HLT /JMP COUNTER WRONG
2605 1050 TAD I K7757
2606 7440 TAD K7757 /CHECK STORED ADDRESS
2607 7402 SZA /JMS FAILED
2610 3450 HLT /CLEAR STORED ADDRESS
2611 1136 DCA I K7757
2612 7001 TAD PNTCNT
2613 3136 IAC /ADVANCE COUNTER
          DCA PNTCNT

          /JMS TEST 17 COUNTER=77
2614 1221 TAD RK11
2615 3624 DCA I K7740
2616 1222 TAD RK12
2617 3439 DCA I K40
2620 3430 JMP I K40
2621 5544 RK11, JMP I K2630
2622 4447 RK12, JMS I K7737
2623 7702 M76, -76
2624 7740 K7740, 7740

2630 *2630 TAD PNTCNT
2631 1136 TAD PNTCNT
2632 1253 TAD M77
2633 7440 SZA /CHECK COUNTER
2634 1047 HLT /JMP COUNTER WRONG
2635 1047 TAD I K7737
2636 7440 TAD K7737 /CHECK STORED ADDRESS
2637 7402 SZA /JMS FAILED
2640 3447 HLT /CLEAR STORED ADDRESS
2641 1136 DCA I K7737
2642 7001 TAD PNTCNT
2643 3136 IAC /ADVANCE COUNTER
          DCA PNTCNT

          /JMS TEST 18 COUNTER=100
2644 1251 TAD RK13
2645 3654 DCA I K7700
2646 1252 TAD RK14
2647 3431 DCA I K100
2650 5431 JMP I K100
2651 5545 RK13, JMS I K2660
2652 4446 RK14, JMS I K7677
2653 7701 M77, -77
2654 7760 K7700, 7760

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/BASIC JHP-JMS TEST

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2660	1136	*2660	TAD PNTCNT TAD M100	/CHECK COUNTER /JMS COUNTER WRONG
2661	1303		SEA	
2662	7440		HLT	I K7677
2663	7402		TAD K7677	
2664	1446		SEA	
2665	1046		HLT	I K7677
2666	7440		TAD K7677	
2667	7402		SEA	
2668	3446		HLT	I K7677
2669	1136		TAD K7677	
2670	9546		SEA	
2671	1136		TAD PNTCNT	
2672	7801		IAC PNTCNT	
2673	3136		DCA PNTCNT	
2674	1301			
2675	3704		JMS TEST 19 COUNTER=101	
2676	1302		TAD RK15 DCA I K7600	
2677	3432		TAD RK16 DCA I K200	
2700	9432		JMP I K200	
2701	5546		JMP I K2710	
2702	4445		JNS I K7577	
2703	7706		M100, -100, K7600, 7600,	
2704	7600			
2710	2710	*2710	TAD PNTCNT TAD M101	
2711	1136		SEA	
2712	1333		HLT	I K7577
2713	7440		TAD K7577	
2714	7402		SEA	
2715	1445		HLT	I K7577
2716	7440		TAD K7577	
2717	7402		SEA	
2720	3445		HLT	I K7577
2721	1136		TAD PNTCNT	
2722	7801		IAC PNTCNT	
2723	3136		DCA PNTCNT	
2724	1331			
2725	3734		JMS TEST 20 COUNTER=102	
2726	1332		TAD RK17 DCA I K7400	
2727	3433		TAD RK18 DCA I K400	
2730	5433		JMP I K400	
2731	5547		RK17, JMP I K2740	
2732	4444		RK18, JMS I K7377	
2733	7677		M101, -101, K7400,	
2734	7400			
2740	1136	*2742	TAD PNTCNT	

2741	1363	TAD M102	/CHECK COUNTER
2742	7440	SZA	/JMP COUNTER WRONG
2743	7402	HLT	
2744	1444	TAD I K7377	
2745	1044	TAD K7377	
2746	7440	SZA	/CHECK STORED ADDRESS
2747	7402	HLT	/JMS FAILED
2750	3444	DCA I K7377	/CLEAR STORED ADDRESS
2751	1136	TAD PNTCNT	
2752	7001	IAC	/ADVANCE COUNTER
2753	3136	DCA PNTCNT	

		/JMS TEST 21 COUNTER=103	
		TAD RK19	
2754	1361	DCA I K7000	
2755	3764	TAD RK20	
2756	1362	DCA I K1000	
2757	3434	JMP I K1000	
2760	5434	JMP I K3000	
2761	5550	JMP I K3000	
2762	4443	RK19,	
2763	7676	RK20,	
2764	7000	M102,	
		-102	
		K7000,	

		*3000 /JMS TEST 21 COUNTER=103	
		TAD PNTCNT	
3001	1136	TAD M103	/CHECK COUNTER
3002	1223	SEA	/JMP COUNTER WRONG
3003	7440	HLT	
3004	7402	TAD I K6777	
3005	1443	TAD K6777	
3006	1043	SEA	/CHECK STORED ADDRESS
3007	7440	HLT	/JMS FAILED
3010	3443	DCA I K6777	/CLEAR STORED ADDRESS
3011	1136	TAD PNTCNT	
3012	7001	IAC	/ADVANCE COUNTER
3013	3136	DCA PNTCNT	

		/JMS TEST 22 COUNTER=104	
		TAD RK21	
3014	1221	DCA I K6000	
3015	3624	TAD RK22	
3016	1222	DCA I K2000	
3017	3435	JMP I K2000	
3020	5435	JMP I K3030	
3021	5551	RK21,	
3022	4442	RK22,	
3023	7675	M103,	
3024	6000	-103	
		K6000,	
		6000	

		*3030 /JMS TEST 22 COUNTER=104	
		TAD PNTCNT	
3030	1136	TAD M104	/CHECK COUNTER
3031	1253	SZA	/JMP COUNTER WRONG
3032	7440	HLT	
3033	7402	TAD I K5777	
3034	1442)

/BASIC JMP-JMS TEST PAL10 V141 - 11-NOV-70 13:17 PAGE 1-30

3035 1042 TAD K5777 /CHECK STORED ADDRESS
3036 7440 SZA /JMS FAILED
3037 7402 HLT /CLEAR STORED ADDRESS
3040 3442 DCA 1 K5777
3041 1136 TAD PNTCNT
3042 7001 IAC
3043 5136 DCA PNTCNT

/JMS TEST 23 COUNTER=105

3044 1251 TAD RK23
3045 3654 DCA 1 K40001
3046 4252 TAD RK24
3047 3437 DCA 1 K3777
3050 9437 JMP 1 K3777
3051 5552 RK23,
3052 4436 RK24,
3053 7674 M104,
3054 4001 K4001,
3060 *3060

3060 1136 TAD PNTCNT
3061 1303 TAD M105 /CHECK COUNTER
3062 7440 SZA /JMP COUNTER WRONG
3063 7402 HLT
3064 1436 TAD 1 K4000
3065 1036 TAD K4000
3066 7440 SEA /CHECK STORED ADDRESS
3067 7402 HLT /JMS FAILED
3070 3436 DCA 1 K4000 /CLEAR STORED ADDRESS
3071 1136 TAD PNTCNT
3072 7001 IAC
3073 3136 DCA PNTCNT

/JMS TEST 24 COUNTER=106

3074 1301 TAD RK25
3075 3704 DCA 1 K20001
3076 1302 TAD RK26
3077 3442 DCA 1 K5777
3100 5442 JMP 1 K5777
3101 5553 RK25,
3102 4435 RK26,
3103 7673 M105,
3104 2001 K2001,
3110 *3110

3110 1136 TAD PNTCNT
3111 1333 TAD M106 /CHECK COUNTER
3112 7440 SZA /JMP COUNTER WRONG
3113 7402 HLT
3114 1435 TAD 1 K20000
3115 1035 TAD K20000
3116 7440 SEA /CHECK STORED ADDRESS
3117 7402 HLT /JMS FAILED
3120 3435 DCA 1 K20000 /CLEAR STORED ADDRESS

3121 1136 TAD PNTCNT
 3122 7001 IAC
 3123 3136 DCA PNTCNT

/JMS TEST 25 COUNTER=107

3124 1331 TAD RK27
 3125 3734 DCA I K1001
 3126 1332 TAD RK28
 3127 3443 DCA I K6777
 3128 5443 JMP I K6777
 3129 5534 RK27,
 3130 4434 RK28,
 3131 7672 M106,
 3132 4434 JMS I K1000
 3133 7672 -106
 3134 1001 K1001,
 1001

3140 1136 TAD PNTCNT
 3141 1363 TAD M107
 3142 7449 S2A
 3143 7402 HLT
 3144 1434 TAD I K1000
 3145 1034 TAD K1000
 3146 7449 /CHECK COUNTER
 3147 7402 /JMP COUNTER WRONG
 3148 3434
 3149 1136
 3150 7001
 3151 1136
 3152 7001
 3153 3136

/CHECK COUNTER
 /JMP COUNTER WRONG

3146 7449 /CHECK STORED ADDRESS
 3147 7402 /JMS FAILED
 3148 3434 /CLEAR STORED ADDRESS
 3149 1136 /ADVANCE COUNTER
 3150 7001
 3151 1136
 3152 7001
 3153 3136

/JMS TEST 26 COUNTER=110

3154 1361 TAD RK29
 3155 3764 DCA I K401
 3156 1362 TAD RK30
 3157 3444 DCA I K7377
 3158 5444 JMP I K7377
 3159 5555 RK29,
 3160 4433 RK30,
 3161 7671 M107,
 3162 4433 -107
 3163 7671 K401,
 3164 0401, 401

3200 1136 TAD PNTCNT
 3201 1223 TAD M110
 3202 7449 S2A
 3203 7402 HLT
 3204 1433 TAD I K400
 3205 1033 TAD K400
 3206 7449 /CHECK COUNTER
 3207 7402 /JMP COUNTER WRONG

3208 3433 /CHECK STORED ADDRESS
 3209 1136 /JMS FAILED
 3210 3433 /CLEAR STORED ADDRESS
 3211 7001 /ADVANCE COUNTER
 3212 7001 DCA PNTCNT
 3213 3136

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/JMS TEST 27 COUNTER=111

3214 1221
3215 3624 TAD RK31
3216 1222 DCA I K201
3217 3445 TAD RK32
3220 5445 DCA I K7577
3221 5556 JMP I K7577
3221 4432, JMP I K3230
3222 7670 JMS I K200
3223 M110,
3224 0201, K201,
210

3238 *3230 TAD PNTCNT
3239 1238 TAD M111
3241 1232 HLT /CHECK COUNTER
3242 1233 TAD K200 /JMP COUNTER WRONG
3243 1234 1432 TAD K200
3245 1235 1032 TAD K200
3246 1236 7448 SEA /CHECK STORED ADDRESS
3247 1237 7449 HLT /JMS FAILED
3248 1238 3432 DCA I K200 /CLEAR STORED ADDRESS
3249 1239 1136 TAD PNTCNT
3241 1240 7001 IAC /ADVANCE COUNTER
3243 1241 DCA PNTCNT

/JMS TEST 28 COUNTER =112

3244 1251 TAD RK33
3245 1252 DCA I K101
3246 1253 TAD RK34
3247 1254 3446 DCA I K7677
3248 1255 5446 JMP I K7677
3251 1256 5557 JK33, JMS /CHECK STORED ADDRESS
3252 1257 6431 JK34, I K3260
3253 1258 7667 M111, JMS /JMS FAILED
3253 1259 0101 -111 /CLEAR STORED ADDRESS
3254 1260 K101, 101 /ADVANCE COUNTER

*3260 *3260 TAD PNTCNT

3261 1363 TAD M112 /CHECK COUNTER
3262 1364 HLT /JMP COUNTER WRONG
3263 1365 7448 SEA /CHECK STORED ADDRESS
3264 1366 1031 TAD K100 /JMS FAILED
3265 1367 7449 HLT /CLEAR STORED ADDRESS
3266 1368 7449 DCA I K100 /ADVANCE COUNTER
3267 1369 7450 TAD PNTCNT
3268 1370 3431 IAC
3269 1371 1136 DCA PNTCNT
3270 1372 7001 IAC
3273 1373 3136 DCA PNTCNT

/JMS TEST 29 COUNTER=113
3274 1301 TAD RK35
3275 3704 DCA I K41
3276 1302 TAD RK36

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3277 3447      DCA I K7737
3300 5447      JMP I K7737
3301 5560      RK35,
3302 4430      RK36,
3303 7666      M112,
3304 0041      K41,
3310 *3310      1136
3311 1333      TAD PNTCNT
3312 7449      TAD M113
3313 7402      SZA
3314 1439      HLT
3315 1039      TAD I K40
3316 7449      TAD K40
3317 7402      SZA
3320 3439      HLT
3321 1136      DCA I K40
3322 7001      TAD PNTCNT
3323 3136      IAC
3324 *3324      /ADVANCE COUNTER
3325 3734      DCA PNTCNT
3326 4332      TAD RK37
3327 3450      DCA I K21
3328 5450      TAD RK38
3330 5550      DCA I K7757
3331 5561      JMP I K7757
3332 4427      RK37,
3333 7665      RK38,
3334 0021      M113,
3340 *3340      K21,
3341 1136      21
3342 1363      TAD PNTCNT
3343 7449      TAD M114
3344 1427      SZA
3345 1027      HLT
3346 7449      TAD I K20
3347 7402      TAD K20
3348 3427      SZA
3351 1136      /CHECK STORED ADDRESS
3352 7001      /JMS FAILED
3353 3136      /CLEAR STORED ADDRESS
3354 1361      /ADVANCE COUNTER
3355 3764      DCA PNTCNT
3356 1362      TAD PNTCNT
3357 3451      DCA I K7767
3358 5451      JMP I K7767
3359 5562      RK39,

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/JMS TEST 30 COUNTER=114

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3324 1351      TAD RK37
3325 3734      DCA I K21
3326 4332      TAD RK38
3327 3450      DCA I K7757
3328 5450      JMP I K7757
3329 5550      RK37,
3330 5561      RK38,
3331 4427      M113,
3332 7665      K21,
3333 0021      21
3340 *3340      TAD PNTCNT
3341 1136      TAD M114
3342 1363      SZA
3343 7449      HLT
3344 1427      TAD I K20
3345 1027      TAD K20
3346 7449      SZA
3347 7402      HLT
3348 3427      DCA I K20
3351 1136      TAD PNTCNT
3352 7001      IAC
3353 3136      DCA PNTCNT
3354 1361      /CHECK STORED ADDRESS
3355 3764      /JMS FAILED
3356 1362      /CLEAR STORED ADDRESS
3357 3451      /ADVANCE COUNTER
3358 5451      DCA PNTCNT
3359 5562      TAD PNTCNT

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/JMS TEST 31 COUNTER=115

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3354 1361      TAD RK39
3355 3764      DCA I K11
3356 1362      TAD RK40
3357 3451      DCA I K7767
3358 5451      JMP I K7767
3359 5562      RK39,

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3362 4426 RK40, JMS 1 K10
3363 7664 M114, -114
3364 0011 K11, 11

3400 1136 TAD PNTCNT
3401 1223 TAD M115 /CHECK COUNTER
3402 7440 S2A /JMP COUNTER WRONG
3403 7402 HLT
3404 1426 TAD 1 K10
3405 1026 TAD K10
3406 7440 S2A /CHECK STORED ADDRESS
3407 7402 HLT /JMS FAILED
3410 3426 DCA 1 K10 /CLEAR STORED ADDRESS
3411 1136 TAD PNTCNT
3412 7001 IAC /ADVANCE COUNTER
3413 3136 DCA PNTCNT

/JMS TEST 32 COUNTER=116

3414 1221 TAD RK41
3415 3624 DCA 1 K5
3416 1222 TAD RK42
3417 3452 DCA 1 K7773
3420 7452 JMP 1 K7773
3421 5563 JMP 1 K3438
3422 4425 JMS 1 K4
3423 7663 M115, -115
3424 0005 K5, 5

*3430

TAD PNTCNT
TAD M116 /CHECK COUNTER
S2A /JMP COUNTER WRONG
HLT
TAD 1 K4
TAD K4
SEA /CHECK STORED ADDRESS
HLT /JMS FAILED
DCA 1 K4 /CLEAR STORED ADDRESS
TAD PNTCNT /ADVANCE COUNTER
IAC
DCA PNTCNT

/JMS TEST 33 COUNTER=117

3444 1251 TAD RK43
3445 3654 DCA 1 K3
3446 1252 TAD RK44
3447 3453 DCA 1 K7775
3450 5453 JMP 1 K7775
3451 5564 RK43, JMS 1 K2
3452 4424 RK44, M116, -116
3453 7662 K3,
3454 0003 5

3460	*3460	TAD PNTCNT	COUNTER=13117
3460	1136	TAD M117	/CHECK COUNTER
3461	1303	SZA	/JMP COUNTER WRONG
3462	7440	HLT	
3463	7402	TAD K2	
3464	1424	TAD K2	
3465	1024	SZA	/CHECK STORED ADDRESS
3466	7440	HLT	/JMS FAILED
3467	7402	DCA I K2	/CLEAR STORED ADDRESS
3470	3424	TAD PNTCNT	
3471	1136	IAC	
3472	7001	DCA PNTCNT	/ADVANCE COUNTER
3473	3136		
3474	1301	/JMS TEST 34	COUNTER=120
3475	3424	TAD RK45	
3476	1302	DCA I K2	
3477	3454	TAD RK46	
3500	3454	DCA I K7776	
3501	5655	JMP I K7776	
3502	4423	JMP I K3510	
3503	7661	JMS I K1	
		-117,	
3510	*3510	TAD PNTCNT	COUNTER=120
3511	1136	TAD M120	/CHECK COUNTER
3512	1333	SZA	/JMP COUNTER WRONG
3513	7440	HLT	
3514	7402	TAD I K1	
3515	4423	TAD K1	
3516	1023	SZA	/CHECK STORED ADDRESS
3517	7440	HLT	/JMS FAILED
3520	3423	DCA I K1	/CLEAR STORED ADDRESS
3521	1136	TAD PNTCNT	
3522	7001	IAC	
3523	3136	DCA PNTCNT	/ADVANCE COUNTER
3524	1331	/JMS TEST 35	COUNTER=121
3525	3423	TAD RK47	
3526	1332	DCA I K1	
		TAD RK48	
3527	3455	DCA I K7777	
3530	5455	JMP I K7777	
3531	5566	JMP I K3540	
3532	4422	JMS I K0	
3533	7660	-120,	
3540	*3540	TAD PNTCNT	COUNTER=121
3541	1136	TAD M121	/CHECK COUNTER
3542	1370	SZA	/JMP COUNTER WRONG
3543	7440	HLT	

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4000
4100
4200 11111111 11111111 11111111 11111111 11111111 11111111 11111111 11111111
4300 11111111 11111111 11111111 11111111 11111111 11111111 11111111 11111111
4400 11111111 11111111 11111111 11111111 11111111 11111111 11111111 11111111
4500 11111111 11111111 11111111 11111111 11111111 11111111 11111111 11111111
4600 11111110 00000000 11111111 11111110 11111111 11111110 11111111 11111110
4700 11111111 11111110 11111111 11111110 11111111 11111110 11111111 11111110
5000 11111111 11111110 11111111 11111110 11111111 11111110 11111111 11111110
5100 11111111 11111110 11111111 11111110 11111111 11111110 11111111 11111110
5200 11111111 11111110 11111111 11111110 11111111 11111110 11111111 11111110
5300 11111111 11111110 11111111 11111110 11111111 11111110 11111111 11111110
5400 11111111 11111110 11111111 11111110 11111111 11111110 11111111 11111110
5500 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
5600
5700
6000
6100
6200
6300
6400
6500
6600
6700
7000
7100
7200
7300
7400
7500
7600
7700

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A	AFRM	20224	K2520	0142	
A	AFRM1	5451	K2600	0143	
A	AFRM10	2050	K2630	0144	
A	AFRM11	2347	K2660	0145	
A	AFRM2	2375	K2710	0146	
A	AFRM3	2073	K2740	0147	
A	AFRM4	2121	K3	3454	
A	AFRM5	2147	K3000	0150	
B	BEGIN	2175	K3030	0151	
B	BEL	2247	K3060	0152	
B	BLCNTR	2272	K3110	0153	
B	DO	2320	K3140	0154	
C	FRM	2002	K3200	0155	
C	FRM1	2026	K3230	0156	
C	FRM10	2324	K3260	0157	
C	FRM11	2353	K3310	0160	
D	FRM2	2052	K3340	0161	
D	FRM3	2077	K3400	0162	
D	FRM4	2123	K3430	0163	
D	FRM5	2153	K3460	0164	
E	FRM6	2052	K3510	0165	
E	FRM7	2225	K3540	0166	
E	FRM8	2251	K3572	0167	
F	FRM9	2276	K3577	0168	
F	HALT1	0631	K4000	0036	
F	HALT2	0640	K4001	0054	
F	HALT3	0646	K401	3164	
F	HALT4	0654	K402	0056	
G	K0	0022	K4640	0057	
G	K00	0742	K4660	0060	
H	K1	0023	K4700	0061	LIMIT
H	K10	0026	K4720	0062	M1
I	K100	0031	K4740	0063	M10
I	K1000	0034	K4760	0064	M100
J	K1001	3134	K5	3424	M101
J	K101	3254	K50000	0065	M102
K	K11	3364	K50200	0066	M103
K	K175	0664	K5040	0067	M104
K	K2	0024	K5060	0070	M105
K	K20	0027	K5100	0071	M106
K	K200	0032	K5120	0072	M107
K	K2000	0035	K5140	0073	M11
K	K2001	3104	K5160	0074	M110
K	K201	3224	K5200	0075	M111
K	K21	3334	K5220	0076	M112
K	K2410	0137	K5240	0102	M113
K	K2440	0140	K5260	0103	M114
K	K2470	0141	K53002	0104	M6
					3423
					2123
					2075
					2120
					0665
					5450
					5376
					5416
					5436
					5336
					5551
					5356
					5422
					2046
					0665
					2120
					0275
					2123

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M62	2151	PK42	5315
M63	2177	PK43	5334
M64	2221	PK44	5335
M65	2245	PK45	5354
M66	2274	PK46	5355
M67	2322	PK47	5374
M7	0121	PK48	5375
M70	2351	PK49	5414
M71	2377	PK5	4654
M72	2433	PK50	3415
M73	2463	PK51	5434
M74	2513	PK52	5435
M75	2543	PK6	4655
M76	2623	PK7	4674
M7600	0673	PK8	4675
M77	2653	PK9	4714
PK1	4605	PNTCNT	0136
PK10	4715	REFILL	0704
PK11	4734	RENEW	0703
PK12	4735	RESTAR	0700
PK13	4754	RK1	2489
PK14	4755	RK10	2542
PK15	4774	RK11	2621
PK16	4775	RK12	2622
PK17	5014	RK13	2651
PK18	5015	RK14	2652
PK19	5034	RK15	2701
PK2	4606	RK16	2702
PK20	5035	RK17	2731
PK21	5054	RK18	2732
PK22	5055	RK19	2761
PK23	5074	RK2	2486
PK24	5075	RK20	2762
PK25	5114	RK21	3021
PK26	5115	RK22	3022
PK27	5134	RK23	3051
PK28	5135	RK24	3052
PK29	5154	RK25	3101
PK3	4634	RK26	3102
PK30	5155	RK27	3131
PK31	5174	RK28	3132
PK32	5175	RK29	3161
PK33	5214	RK3	2451
PK34	5215	RK30	3162
PK35	5234	RK31	3221
PK36	5235	RK32	3222
PK37	5254	RK33	3251
PK38	5255	RK34	3252
PK39	5274	RK35	3301
PK4	4635	RK36	3302
PK40	5275	RK37	3331
PK41	5314	RK38	3332

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ERRORS DETECTED! 0

LINKS GENERATED! 0

RUN-TIME! 17 SECONDS

3K CORE USED