

IDENTIFICATION

PRODUCT CODE: MAINDEC-11:DCKBI-A1-D

PRODUCT NAME: ASH INSTRUCTION TEST

DATE CREATED: 15 MAR 1972

MAINTAINER: DIAGNOSTIC GROUP

AUTHOR: BOB BRAIN

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MAYNARD, MASS

- 1,0 ABSTRACT
 - THIS PROGRAM WILL INCREMENTLY TEST AND ISOLATE SIMPLE MALFUNCTIONS RELATED TO THE ASH INSTRUCTION
- 2,0 REQUIREMENTS
 - 2,1 EQUIPMENT
 - BASIC 11/45 SYSTEM OR
 - 11/40 WITH KE11-E OPTION
 - 2,2 STORAGE
 - THIS PROGRAM USES 0 THRU 17500
 - 2,3 PRELIMINARY PROGRAMS
 - D0AA THRU D0MA
- 3,0 LOADING PROCEDURE
 - LOAD PROGRAM USING ABS LOADER
- 4,0 STARTING PROCEDURE
 - LOAD ADDRESS 200, PRESS START, THE PROGRAM WILL LOOP AND RING BELL ON PASS COMPLETION,
- 5,0 OPERATING PROCEDURE
 - 5,1 SWITCH SETTINGS
 - NONE
 - 5,2 SUBROUTINE ABSTRACTS
 - 5,2,1 SCOPE
 - SCOPE IS A MOVE PC,R1 AND STORES THE PC+2 IN R1,
 - 5,2,2 HLT
 - HLT IS A HALT INSTRUCTION,
- 6,0 ERRORS
 - ALL ERRORS WILL CAUSE A HALT
 - TRAP AND INTERRUPT ERRORS WILL CAUSE A HALT AT VECTOR+2,
- 6,1 ERROR RECOVERY
 - PRESS CONTINUE TO PROCEED TO NEXT TEST
- 6,2 ERROR LOOPING
 - TO LOOP ON AN ERROR, PLACE A BRANCH TO THE PREVIOUS SCOPE INSTRUCTION IN PLACE OF THE HALT INSTRUCTION,
 - NOTE THAT IF THE ERROR IS INTERMITTANT THAT THE TEST WILL DROP THRU THE HALT AND PROCEED TO THE NEXT TEST,
 - THEREFORE, TO LOOP THE TEST CONTINUOUSLY REPLACE THE BEQ ,+4 INSTRUCTION IMMEDIATLY PRECEEDING THE HALT WITH A BRANCH BACK TO THE PREVIOUS SCOPE,
 - TO LOOP ON TRAP FAILURES, PATCH IN THE FOLLOWING ROUTINE AT THE ADDRESS OF THE TRAP VECTOR,

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TRAPVEC:          TRAPVEC+4
TRAPVEC+2:        0
TRAPVEC+4:        012716 ;MOVE SCOPE ADDRESS TO STACK
TRAPVEC+6:        ADDRESS ;ADDRESS OF PREVIOUS SCOPE
TRAPVEC+10:       000006 ;RETURN TO TEST AT SCOPE
  
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RESTORE ALL LOCATIONS BEFORE PROCEEDING TO NEXT TEST,

7,0 RESTRICTIONS
NONE

8,0 MISCELLANEOUS
ON TRAP ERRORS THE STACK POINTER(R6) WILL CONTAIN THE
ADDRESS WHERE THE TRAP OCCURED,

8,1 EXECUTION TIME
THE PROGRAM TAKES ABOUT 1 MINUTE,

8,2 STACK POINTER
THIS PROGRAM INITIALLY SETS THE STACK POINTER AT 500,

9,0 PROGRAM DESCRIPTION

THIS IS A TEST OF THE ASH INSTRUCTION; IT TESTS ASH
WITH DIFFERENT SHIFT COUNTS IN ALL THE REGISTERS,

.TITLE MAINDEC-11-DCKBI-A ASH TEST
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 ;PROGRAM BY BOB BRAIN

```

      012701          .ENABL ABS
      000000          SCOPE# 10701
      177776          HLT= HALT
      177570          PS# 177776
      177570          SWR# 177570
      000001          DISPLAY#SWR
      000000          N# 1
      000000          DUMMY# HALT
      000000          M#0

      000000          .#0                                ITRAP CATCHER 0 - 776

      000200          .#200
      000167 000576          .#1000          JMP      BEG
      001000          ICNT1 0                                ;PASS COUNT

      001002 012706 000500          BEG1  MOV    #500,X6          ; ** STACK AT 500 **
      001006 005037 177776          CLR    0#PS
      001012 032737 001000 177570          BIT    #1000,0#SWR          ;WHICH REGISTER SET?
      001020 001403          BEQ    .+10
      001022 012737 004000 177776          MOV    #4000,0#PS          ;ALTERNATE!
      001030 032737 000400 177570          BIT    #400,0#SWR          ;LOAD UB REG??
      001036 001403          BEQ    .+10
      001040 113737 177570 177770          MOVB  0#SWR,0#177770
  
```

 ;TEST 1 ASH 0 SHIFTED BY -16, # 0 PS # 4

```

      001046 010701          SCOPE
      001050 012700 000000          MOV    #0,X0          ;LOAD R0 WITH 0
      001054 072027 177760          ASH   #-16,X0          ;SHIFT R0 BY -16.
      001060 013767 177776 012552          MOV    0#PS,PSW          ;SAVE PS
      001066 122767 000004 012544          CMPB  #4,PSW          ;IS THE PS 4?
      001074 001401          BEQ   .+4
      001076 000000          HLT
      001100 022700 000000          CMP   #0,X0          ;THE PS IS NOT EQUAL TO 4
      001104 001401          BEQ   .+4          ;IS THE RESULT 0?
      001106 000000          HLT          ;R0 IS NOT EQUAL TO 0
  
```

 ;TEST 2 ASH 0 SHIFTED BY 0 # 0 PS # 4

```

      001110 010701          SCOPE
      001112 012700 000000          MOV    #0,X0          ;LOAD R0 WITH 0
      001116 072027 000000          ASH   #0,X0          ;SHIFT R0 BY 0
      001122 013767 177776 012510          MOV    0#PS,PSW          ;SAVE PS
      001130 122767 000004 012502          CMPB  #4,PSW          ;IS THE PS 4?
      001136 001401          BEQ   .+4
      001140 000000          HLT
      001142 022700 000000          CMP   #0,X0          ;THE PS IS NOT EQUAL TO 4
      001146 001401          BEQ   .+4          ;IS THE RESULT 0?
      001150 000000          HLT          ;R0 IS NOT EQUAL TO 0
  
```

 ;TEST 3 ASH 0 SHIFTED BY 16, # 0 PS # 4

```

      001152 010701          SCOPE
      001154 012700 000000          MOV    #0,X0          ;LOAD R0 WITH 0
      001160 072027 000000          ASH   #16,X0          ;SHIFT R0 BY 16.
      001164 013767 177776 012446          MOV    0#PS,PSW          ;SAVE PS
      001172 122767 000004 012440          CMPB  #4,PSW          ;IS THE PS 4?
      001200 001401          BEQ   .+4
      001202 000000          HLT
      001204 022700 000000          CMP   #0,X0          ;THE PS IS NOT EQUAL TO 4
      001210 001401          BEQ   .+4          ;IS THE RESULT 0?
      001212 000000          HLT          ;R0 IS NOT EQUAL TO 0
  
```

 TEST 4 ASW 1 SHIFTED BY 0 = 1 PS = 0

001214	010701			SCOPE	
001216	012700	000001		MOV #1,X0	ILOAD R0 WITH 1
001222	072027	000000		ASH #0,X0	ISHIFT R0 BY 0
001226	013767	177776	012404	MOV #0PS,PSW	ISAVE PS
001234	122767	000000	012376	CHPB #0,PSW	IIS THE PS 0?
001242	001401			BEQ .+4	
001244	000000			HLT	
001246	022700	000001		CHP #1,X0	ITHE PS IS NOT EQUAL TO 0
001252	001401			BEQ .+4	IIS THE RESULT 1?
001254	000000			HLT	IR0 IS NOT EQUAL TO 1

 TEST 5 ASW 1 SHIFTED BY 1 = 2 PS = 0

001256	010701			SCOPE	
001260	012700	000001		MOV #1,X0	ILOAD R0 WITH 1
001264	072027	000001		ASH #1,X0	ISHIFT R0 BY 1
001270	013767	177776	012342	MOV #0PS,PSW	ISAVE PS
001276	122767	000000	012334	CHPB #0,PSW	IIS THE PS 0?
001304	001401			BEQ .+4	
001306	000000			HLT	
001310	022700	000002		CHP #2,X0	ITHE PS IS NOT EQUAL TO 0
001314	001401			BEQ .+4	IIS THE RESULT 2?
001316	000000			HLT	IR0 IS NOT EQUAL TO 2

 TEST 6 ASW 1 SHIFTED BY 2 = 4 PS = 0

001320	010701			SCOPE	
001322	012700	000001		MOV #1,X0	ILOAD R0 WITH 1
001326	072027	000002		ASH #2,X0	ISHIFT R0 BY 2
001332	013767	177776	012300	MOV #0PS,PSW	ISAVE PS
001340	122767	000000	012272	CHPB #0,PSW	IIS THE PS 0?
001346	001401			BEQ .+4	
001350	000000			HLT	
001352	022700	000004		CHP #4,X0	ITHE PS IS NOT EQUAL TO 0
001356	001401			BEQ .+4	IIS THE RESULT 4?
001360	000000			HLT	IR0 IS NOT EQUAL TO 4

 TEST 7 ASW 1 SHIFTED BY 3 = 10 PS = 0

001362	010701			SCOPE	
001364	012700	000001		MOV #1,X0	ILOAD R0 WITH 1
001370	072027	000003		ASH #3,X0	ISHIFT R0 BY 3
001374	013767	177776	012236	MOV #0PS,PSW	ISAVE PS
001402	122767	000000	012230	CHPB #0,PSW	IIS THE PS 0?
001410	001401			BEQ .+4	
001412	000000			HLT	
001414	022700	000010		CHP #10,X0	ITHE PS IS NOT EQUAL TO 0
001420	001401			BEQ .+4	IIS THE RESULT 10?
001422	000000			HLT	IR0 IS NOT EQUAL TO 10

 TEST 10 ASW 1 SHIFTED BY 4 = 20 PS = 0

001424	010701			SCOPE	
001426	012700	000001		MOV #1,X0	ILOAD R0 WITH 1
001432	072027	000004		ASH #4,X0	ISHIFT R0 BY 4
001436	013767	177776	012174	MOV #0PS,PSW	ISAVE PS
001444	122767	000000	012166	CHPB #0,PSW	IIS THE PS 0?
001452	001401			BEQ .+4	
001454	000000			HLT	
001456	022700	000020		CHP #20,X0	ITHE PS IS NOT EQUAL TO 0
001462	001401			BEQ .+4	IIS THE RESULT 20?
001464	000000			HLT	IR0 IS NOT EQUAL TO 20

 TEST 11 ASW 1 SHIFTED BY 5 = 40 PS = 0

001466	010701			SCOPE	
001470	012700	000001		MOV #1,X0	ILOAD R0 WITH 1
001474	072027	000005		ASH #5,X0	ISHIFT R0 BY 5
001500	013767	177776	012132	MOV #0PS,PSW	ISAVE PS
001506	122767	000000	012124	CHPB #0,PSW	IIS THE PS 0?
001514	001401			BEQ .+4	
001516	000000			HLT	
001520	022700	000040		CHP #40,X0	ITHE PS IS NOT EQUAL TO 0
001524	001401			BEQ .+4	IIS THE RESULT 40?
001526	000000			HLT	IR0 IS NOT EQUAL TO 40

 TEST 12 ASH 1 SHIFTED BY 6 = 100 PS = 0

001530	012701			SCOPE	
001532	012700	000001		MOV #1,%0	ILOAD R0 WITH 1
001536	072027	000006		ASH #6,%0	ISHIFT R0 BY 6
001542	013767	177776	012070	MOV ##PS,PSW	ISAVE PS
001550	122767	000000	012062	CMPB #0,PSW	IS THE PS 0?
001556	001401			BEQ ,+4	
001560	000000			HLT	ITHE PS IS NOT EQUAL TO 0
001562	022700	000100		CMP #100,%0	IS THE RESULT 100?
001566	001401			BEQ ,+4	
001570	000000			HLT	IR0 IS NOT EQUAL TO 100

 TEST 13 ASH 1 SHIFTED BY 7 = 200 PS = 0

001572	012701			SCOPE	
001574	012700	000001		MOV #1,%0	ILOAD R0 WITH 1
001600	072027	000007		ASH #7,%0	ISHIFT R0 BY 7
001604	013767	177776	012026	MOV ##PS,PSW	ISAVE PS
001612	122767	000000	012020	CMPB #0,PSW	IS THE PS 0?
001620	001401			BEQ ,+4	
001622	000000			HLT	ITHE PS IS NOT EQUAL TO 0
001624	022700	000200		CMP #200,%0	IS THE RESULT 200?
001630	001401			BEQ ,+4	
001632	000000			HLT	IR0 IS NOT EQUAL TO 200

 TEST 14 ASH 1 SHIFTED BY 10 = 400 PS = 0

001634	012701			SCOPE	
001636	012700	000001		MOV #1,%0	ILOAD R0 WITH 1
001642	072027	000010		ASH #10,%0	ISHIFT R0 BY 10
001646	013767	177776	011764	MOV ##PS,PSW	ISAVE PS
001654	122767	000000	011756	CMPB #0,PSW	IS THE PS 0?
001662	001401			BEQ ,+4	
001664	000000			HLT	ITHE PS IS NOT EQUAL TO 0
001666	022700	000400		CMP #400,%0	IS THE RESULT 400?
001672	001401			BEQ ,+4	
001674	000000			HLT	IR0 IS NOT EQUAL TO 400

 TEST 15 ASH 1 SHIFTED BY 11 = 1000 PS = 0

001676	012701			SCOPE	
001700	012700	000001		MOV #1,%0	ILOAD R0 WITH 1
001704	072027	000011		ASH #11,%0	ISHIFT R0 BY 11
001710	013767	177776	011722	MOV ##PS,PSW	ISAVE PS
001716	122767	000000	011714	CMPB #0,PSW	IS THE PS 0?
001724	001401			BEQ ,+4	
001726	000000			HLT	ITHE PS IS NOT EQUAL TO 0
001730	022700	001000		CMP #1000,%0	IS THE RESULT 1000?
001734	001401			BEQ ,+4	
001736	000000			HLT	IR0 IS NOT EQUAL TO 1000

 TEST 16 ASH 1 SHIFTED BY 12 = 2000 PS = 0

001740	012701			SCOPE	
001742	012700	000001		MOV #1,%0	ILOAD R0 WITH 1
001746	072027	000012		ASH #12,%0	ISHIFT R0 BY 12
001752	013767	177776	011660	MOV ##PS,PSW	ISAVE PS
001760	122767	000000	011652	CMPB #0,PSW	IS THE PS 0?
001766	001401			BEQ ,+4	
001770	000000			HLT	ITHE PS IS NOT EQUAL TO 0
001772	022700	002000		CMP #2000,%0	IS THE RESULT 2000?
001776	001401			BEQ ,+4	
002000	000000			HLT	IR0 IS NOT EQUAL TO 2000

 TEST 17 ASH 1 SHIFTED BY 13 = 4000 PS = 0

002002	012701			SCOPE	
002004	012700	000001		MOV #1,%0	ILOAD R0 WITH 1
002010	072027	000013		ASH #13,%0	ISHIFT R0 BY 13
002014	013767	177776	011616	MOV ##PS,PSW	ISAVE PS
002022	122767	000000	011610	CMPB #0,PSW	IS THE PS 0?
002030	001401			BEQ ,+4	
002032	000000			HLT	ITHE PS IS NOT EQUAL TO 0
002034	022700	004000		CMP #4000,%0	IS THE RESULT 4000?
002040	001401			BEQ ,+4	
002042	000000			HLT	IR0 IS NOT EQUAL TO 4000

 TEST 20 ASH 1 SHIFTED BY 14 = 10000 PS = 0

002044	010701			SCOPE		
002046	012700	000001		MOV	#1,X0	ILOAD R0 WITH 1
002092	072027	000014		ASH	#14,X0	ISHIFT R0 BY 14
002096	013767	177776	011554	MOV	#0PS,PSW	ISAVE PS
002064	122767	000000	011546	CMPB	#0,PSW	IIS THE PS 0?
002072	001401			BEQ	+.4	
002074	000000			HLT		ITHE PS IS NOT EQUAL TO 0
002076	022700	010000		CMP	#10000,X0	IIS THE RESULT 10000?
002102	001401			BEQ	+.4	
002104	000000			HLT		IR0 IS NOT EQUAL TO 10000

 TEST 21 ASH 1 SHIFTED BY 15 = 20000 PS = 0

002106	010701			SCOPE		
002110	012700	000001		MOV	#1,X0	ILOAD R0 WITH 1
002114	072027	000015		ASH	#15,X0	ISHIFT R0 BY 15
002120	013767	177776	011512	MOV	#0PS,PSW	ISAVE PS
002126	122767	000000	011504	CMPB	#0,PSW	IIS THE PS 0?
002134	001401			BEQ	+.4	
002136	000000			HLT		ITHE PS IS NOT EQUAL TO 0
002140	022700	020000		CMP	#20000,X0	IIS THE RESULT 20000?
002144	001401			BEQ	+.4	
002146	000000			HLT		IR0 IS NOT EQUAL TO 20000

 TEST 22 ASH 1 SHIFTED BY 16 = 40000 PS = 0

002150	010701			SCOPE		
002152	012700	000001		MOV	#1,X0	ILOAD R0 WITH 1
002156	072027	000016		ASH	#16,X0	ISHIFT R0 BY 16
002162	013767	177776	011450	MOV	#0PS,PSW	ISAVE PS
002170	122767	000000	011442	CMPB	#0,PSW	IIS THE PS 0?
002176	001401			BEQ	+.4	
002200	000000			HLT		ITHE PS IS NOT EQUAL TO 0
002202	022700	040000		CMP	#40000,X0	IIS THE RESULT 40000?
002206	001401			BEQ	+.4	
002210	000000			HLT		IR0 IS NOT EQUAL TO 40000

 TEST 23 ASH 40000 SHIFTED BY 177762 = 1 PS = 0

002212	010701			SCOPE		
002214	012700	040000		MOV	#40000,X0	ILOAD R0 WITH 40000
002220	072027	177762		ASH	#177762,X0	ISHIFT R0 BY 177762
002224	013767	177776	011406	MOV	#0PS,PSW	ISAVE PS
002232	122767	000000	011400	CMPB	#0,PSW	IIS THE PS 0?
002240	001401			BEQ	+.4	
002242	000000			HLT		ITHE PS IS NOT EQUAL TO 0
002244	022700	000001		CMP	#1,X0	IIS THE RESULT 1?
002250	001401			BEQ	+.4	
002252	000000			HLT		IR0 IS NOT EQUAL TO 1

 TEST 24 ASH 40000 SHIFTED BY 177763 = 2 PS = 0

002254	010701			SCOPE		
002256	012700	040000		MOV	#40000,X0	ILOAD R0 WITH 40000
002262	072027	177763		ASH	#177763,X0	ISHIFT R0 BY 177763
002266	013767	177776	011344	MOV	#0PS,PSW	ISAVE PS
002274	122767	000000	011336	CMPB	#0,PSW	IIS THE PS 0?
002302	001401			BEQ	+.4	
002304	000000			HLT		ITHE PS IS NOT EQUAL TO 0
002306	022700	000002		CMP	#2,X0	IIS THE RESULT 2?
002312	001401			BEQ	+.4	
002314	000000			HLT		IR0 IS NOT EQUAL TO 2

 TEST 25 ASH 40000 SHIFTED BY 177764 = 4 PS = 0

002316	010701			SCOPE		
002320	012700	040000		MOV	#40000,X0	ILOAD R0 WITH 40000
002324	072027	177764		ASH	#177764,X0	ISHIFT R0 BY 177764
002330	013767	177776	011302	MOV	#0PS,PSW	ISAVE PS
002336	122767	000000	011274	CMPB	#0,PSW	IIS THE PS 0?
002344	001401			BEQ	+.4	
002346	000000			HLT		ITHE PS IS NOT EQUAL TO 0
002350	022700	000004		CMP	#4,X0	IIS THE RESULT 4?
002354	001401			BEQ	+.4	
002356	000000			HLT		IR0 IS NOT EQUAL TO 4

 TEST 26 ASH 40000 SHIFTED BY 177765 = 10 PS = 0

002360	010701			SCOPE	
002362	012700	040000		MOV	#40000,%0 ILOAD R0 WITH 40000
002366	072027	177765		ASH	#177765,%0 ISHIFT R0 BY 177765
002372	013767	177776	011240	MOV	#PS,PSW ISAVE PS
002400	122767	000000	011232	CMPB	#0,PSW IIS THE PS 0?
002406	001401			BEQ	,+4
002410	000000			HLT	I THE PS IS NOT EQUAL TO 0
002412	022700	000010		CMP	#10,%0 IIS THE RESULT 10?
002416	001401			BEQ	,+4
002420	000000			HLT	I R0 IS NOT EQUAL TO 10

 TEST 27 ASH 40000 SHIFTED BY 177766 = 20 PS = 0

002422	010701			SCOPE	
002424	012700	040000		MOV	#40000,%0 ILOAD R0 WITH 40000
002430	072027	177766		ASH	#177766,%0 ISHIFT R0 BY 177766
002434	013767	177776	011176	MOV	#PS,PSW ISAVE PS
002442	122767	000000	011170	CMPB	#0,PSW IIS THE PS 0?
002450	001401			BEQ	,+4
002452	000000			HLT	I THE PS IS NOT EQUAL TO 0
002454	022700	000020		CMP	#20,%0 IIS THE RESULT 20?
002460	001401			BEQ	,+4
002462	000000			HLT	I R0 IS NOT EQUAL TO 20

 TEST 30 ASH 40000 SHIFTED BY 177767 = 40 PS = 0

002464	010701			SCOPE	
002466	012700	040000		MOV	#40000,%0 ILOAD R0 WITH 40000
002472	072027	177767		ASH	#177767,%0 ISHIFT R0 BY 177767
002476	013767	177776	011134	MOV	#PS,PSW ISAVE PS
002504	122767	000000	011126	CMPB	#0,PSW IIS THE PS 0?
002512	001401			BEQ	,+4
002514	000000			HLT	I THE PS IS NOT EQUAL TO 0
002516	022700	000040		CMP	#40,%0 IIS THE RESULT 40?
002522	001401			BEQ	,+4
002524	000000			HLT	I R0 IS NOT EQUAL TO 40

 TEST 31 ASH 40000 SHIFTED BY 177770 = 100 PS = 0

002526	010701			SCOPE	
002530	012700	040000		MOV	#40000,%0 ILOAD R0 WITH 40000
002534	072027	177770		ASH	#177770,%0 ISHIFT R0 BY 177770
002540	013767	177776	011072	MOV	#PS,PSW ISAVE PS
002546	122767	000000	011064	CMPB	#0,PSW IIS THE PS 0?
002554	001401			BEQ	,+4
002556	000000			HLT	I THE PS IS NOT EQUAL TO 0
002560	022700	000100		CMP	#100,%0 IIS THE RESULT 100?
002564	001401			BEQ	,+4
002566	000000			HLT	I R0 IS NOT EQUAL TO 100

 TEST 32 ASH 40000 SHIFTED BY 177771 = 200 PS = 0

002570	010701			SCOPE	
002572	012700	040000		MOV	#40000,%0 ILOAD R0 WITH 40000
002576	072027	177771		ASH	#177771,%0 ISHIFT R0 BY 177771
002602	013767	177776	011030	MOV	#PS,PSW ISAVE PS
002610	122767	000000	011022	CMPB	#0,PSW IIS THE PS 0?
002616	001401			BEQ	,+4
002620	000000			HLT	I THE PS IS NOT EQUAL TO 0
002622	022700	000200		CMP	#200,%0 IIS THE RESULT 200?
002626	001401			BEQ	,+4
002630	000000			HLT	I R0 IS NOT EQUAL TO 200

 TEST 33 ASH 40000 SHIFTED BY 177772 = 400 PS = 0

002632	010701			SCOPE	
002634	012700	040000		MOV	#40000,%0 ILOAD R0 WITH 40000
002640	072027	177772		ASH	#177772,%0 ISHIFT R0 BY 177772
002644	013767	177776	010766	MOV	#PS,PSW ISAVE PS
002652	122767	000000	010760	CMPB	#0,PSW IIS THE PS 0?
002660	001401			BEQ	,+4
002662	000000			HLT	I THE PS IS NOT EQUAL TO 0
002664	022700	000400		CMP	#400,%0 IIS THE RESULT 400?
002670	001401			BEQ	,+4
002672	000000			HLT	I R0 IS NOT EQUAL TO 400

TEST 34 ASH 40000 SHIFTED BY 177773 = 1000 PS = 0

002674	010701			SCOPE		
002676	012700	040000		MOV	#40000,%0	ILOAD R0 WITH 40000
002702	072027	177773		ASH	#177773,%0	ISHIFT R0 BY 177773
002706	013767	177776	010724	MOV	#PS,PSH	ISAVE PS
002714	122767	000000	010716	CMPB	#0,PSH	IS THE PS 0?
002722	001401			BEQ	,+4	
002724	000000			HLT		
002726	022700	001000		CMP	#1000,%0	ITHE PS IS NOT EQUAL TO 0
002732	001401			BEQ	,+4	IS THE RESULT 1000?
002734	000000			HLT		IR0 IS NOT EQUAL TO 1000

TEST 35 ASH 40000 SHIFTED BY 177774 = 2000 PS = 0

002736	010701			SCOPE		
002740	012700	040000		MOV	#40000,%0	ILOAD R0 WITH 40000
002744	072027	177774		ASH	#177774,%0	ISHIFT R0 BY 177774
002750	013767	177776	010662	MOV	#PS,PSH	ISAVE PS
002756	122767	000000	010654	CMPB	#0,PSH	IS THE PS 0?
002764	001401			BEQ	,+4	
002766	000000			HLT		
002770	022700	002000		CMP	#2000,%0	ITHE PS IS NOT EQUAL TO 0
002774	001401			BEQ	,+4	IS THE RESULT 2000?
002776	000000			HLT		IR0 IS NOT EQUAL TO 2000

TEST 36 ASH 40000 SHIFTED BY 177775 = 4000 PS = 0

003000	010701			SCOPE		
003002	012700	040000		MOV	#40000,%0	ILOAD R0 WITH 40000
003006	072027	177775		ASH	#177775,%0	ISHIFT R0 BY 177775
003012	013767	177776	010620	MOV	#PS,PSH	ISAVE PS
003020	122767	000000	010612	CMPB	#0,PSH	IS THE PS 0?
003026	001401			BEQ	,+4	
003030	000000			HLT		
003032	022700	004000		CMP	#4000,%0	ITHE PS IS NOT EQUAL TO 0
003036	001401			BEQ	,+4	IS THE RESULT 4000?
003040	000000			HLT		IR0 IS NOT EQUAL TO 4000

TEST 37 ASH 40000 SHIFTED BY 177776 = 10000 PS = 0

003042	010701			SCOPE		
003044	012700	040000		MOV	#40000,%0	ILOAD R0 WITH 40000
003050	072027	177776		ASH	#177776,%0	ISHIFT R0 BY 177776
003054	013767	177776	010556	MOV	#PS,PSH	ISAVE PS
003062	122767	000000	010550	CMPB	#0,PSH	IS THE PS 0?
003070	001401			BEQ	,+4	
003072	000000			HLT		
003074	022700	010000		CMP	#10000,%0	ITHE PS IS NOT EQUAL TO 0
003100	001401			BEQ	,+4	IS THE RESULT 10000?
003102	000000			HLT		IR0 IS NOT EQUAL TO 10000

TEST 40 ASH 40000 SHIFTED BY 177777 = 20000 PS = 0

003104	010701			SCOPE		
003106	012700	040000		MOV	#40000,%0	ILOAD R0 WITH 40000
003112	072027	177777		ASH	#177777,%0	ISHIFT R0 BY 177777
003116	013767	177776	010514	MOV	#PS,PSH	ISAVE PS
003124	122767	000000	010506	CMPB	#0,PSH	IS THE PS 0?
003132	001401			BEQ	,+4	
003134	000000			HLT		
003136	022700	020000		CMP	#20000,%0	ITHE PS IS NOT EQUAL TO 0
003142	001401			BEQ	,+4	IS THE RESULT 20000?
003144	000000			HLT		IR0 IS NOT EQUAL TO 20000

TEST 41 ASH 40000 SHIFTED BY 0 = 40000 PS = 0

003146	010701			SCOPE		
003150	012700	040000		MOV	#40000,%0	ILOAD R0 WITH 40000
003154	072027	000000		ASH	#0,%0	ISHIFT R0 BY 0
003160	013767	177776	010452	MOV	#PS,PSH	ISAVE PS
003166	122767	000000	010444	CMPB	#0,PSH	IS THE PS 0?
003174	001401			BEQ	,+4	
003176	000000			HLT		
003200	022700	040000		CMP	#40000,%0	ITHE PS IS NOT EQUAL TO 0
003204	001401			BEQ	,+4	IS THE RESULT 40000?
003206	000000			HLT		IR0 IS NOT EQUAL TO 40000

TEST 42 ASH 100000 SHIFTED BY -15, # -1 PS # 10

003210	010701			SCOPE		
003212	012700	100000		MOV	#100000,X0	ILOAD R0 WITH 100000
003216	072027	177761		ASH	#-15,X0	ISHIFT R0 BY -15,
003222	013767	177776	010410	MOV	##PS,PSW	ISAVE PS
003230	122767	000010	010402	CMPB	#10,PSW	IIS THE PS 10?
003236	001401			BEQ	.,+4	
003240	000000			HLT		ITHE PS IS NOT EQUAL TO 10
003242	022700	177777		CMP	#-1,X0	IIS THE RESULT -1?
003246	001401			BEQ	.,+4	
003250	000000			HLT		IR0 IS NOT EQUAL TO -1

TEST 43 ASH #1 SHIFTED BY 15, # 100000 PS # 11

003252	010701			SCOPE		
003254	012700	177777		MOV	#-1,X0	ILOAD R0 WITH -1
003260	072027	000017		ASH	#15,X0	ISHIFT R0 BY 15,
003264	013767	177776	010346	MOV	##PS,PSW	ISAVE PS
003272	122767	000011	010340	CMPB	#11,PSW	IIS THE PS 11?
003300	001401			BEQ	.,+4	
003302	000000			HLT		ITHE PS IS NOT EQUAL TO 11
003304	022700	100000		CMP	#100000,X0	IIS THE RESULT 100000?
003310	001401			BEQ	.,+4	
003312	000000			HLT		IR0 IS NOT EQUAL TO 100000

TEST 44 ASH #1 SHIFTED BY 16, # 0 PS # 7

003314	010701			SCOPE		
003316	012700	177777		MOV	#-1,X0	ILOAD R0 WITH -1
003322	072027	000020		ASH	#16,X0	ISHIFT R0 BY 16,
003326	013767	177776	010304	MOV	##PS,PSW	ISAVE PS
003334	122767	000037	010276	CMPB	#7,PSW	IIS THE PS 7?
003342	001401			BEQ	.,+4	
003344	000000			HLT		ITHE PS IS NOT EQUAL TO 7
003346	022700	000000		CMP	#0,X0	IIS THE RESULT 0?
003352	001401			BEQ	.,+4	
003354	000000			HLT		IR0 IS NOT EQUAL TO 0

TEST 45 ASH 137777 SHIFTED BY 15, # 100000 PS # 13

003356	010701			SCOPE		
003360	012700	137777		MOV	#137777,X0	ILOAD R0 WITH 137777
003364	072027	000017		ASH	#15,X0	ISHIFT R0 BY 15,
003370	013767	177776	010242	MOV	##PS,PSW	ISAVE PS
003376	122767	000013	010234	CMPB	#13,PSW	IIS THE PS 13?
003404	001401			BEQ	.,+4	
003406	000000			HLT		ITHE PS IS NOT EQUAL TO 13
003410	022700	100000		CMP	#100000,X0	IIS THE RESULT 100000?
003414	001401			BEQ	.,+4	
003416	000000			HLT		IR0 IS NOT EQUAL TO 100000

TEST 46 ASH 125252 SHIFTED BY 1 # 52524 PS # 3

003420	010701			SCOPE		
003422	012700	125252		MOV	#125252,X0	ILOAD R0 WITH 125252
003426	072027	000021		ASH	#1,X0	ISHIFT R0 BY 1
003432	013767	177776	010200	MOV	##PS,PSW	ISAVE PS
003440	122767	000023	010172	CMPB	#3,PSW	IIS THE PS 3?
003446	001401			BEQ	.,+4	
003450	000000			HLT		ITHE PS IS NOT EQUAL TO 3
003452	022700	052524		CMP	#52524,X0	IIS THE RESULT 52524?
003456	001401			BEQ	.,+4	
003460	000000			HLT		IR0 IS NOT EQUAL TO 52524

TEST 47 ASH 125252 SHIFTED BY -1 # 152525 PS # 10

003462	010701			SCOPE		
003464	012700	125252		MOV	#125252,X0	ILOAD R0 WITH 125252
003470	072027	177777		ASH	#-1,X0	ISHIFT R0 BY -1
003474	013767	177776	010136	MOV	##PS,PSW	ISAVE PS
003502	122767	000010	010130	CMPB	#10,PSW	IIS THE PS 10?
003510	001401			BEQ	.,+4	
003512	000000			HLT		ITHE PS IS NOT EQUAL TO 10
003514	022700	152525		CMP	#152525,X0	IIS THE RESULT 152525?
003520	001401			BEQ	.,+4	
003522	000000			HLT		IR0 IS NOT EQUAL TO 152525

TEST 50 ASH 125252 SHIFTED BY -2 = 165252 PS = 11

003524	010701			SCOPE		
003526	012700	125252		MOV	#125252,X0	ILOAD R0 WITH 125252
003532	072027	177776		ASH	#-2,X0	ISHIFT R0 BY -2
003536	013767	177776	010074	MOV	#PS,PSH	ISAVE PS
003544	122767	000011	010066	CHPB	#11,PSH	IIS THE PS 11?
003552	001401			BEQ	,+4	
003554	000000			HLT		ITHE PS IS NOT EQUAL TO 11
003556	022700	165252		CMP	#165252,X0	IIS THE RESULT 165252?
003562	001401			BEQ	,+4	
003564	000000			HLT		IR0 IS NOT EQUAL TO 165252

TEST 51 ASH 40000 SHIFTED BY 177762 = 1 PS = 0

003566	010701			SCOPE		
003570	012701	040000		MOV	#40000,X1	ILOAD R1 WITH 40000
003574	072127	177762		ASH	#177762,X1	ISHIFT R1 BY 177762
003600	013767	177776	010032	MOV	#PS,PSH	ISAVE PS
003606	122767	000000	010024	CHPB	#0,PSH	IIS THE PS 0?
003614	001401			BEQ	,+4	
003616	000000			HLT		ITHE PS IS NOT EQUAL TO 0
003620	022701	000001		CMP	#1,X1	IIS THE RESULT 1?
003624	001401			BEQ	,+4	
003626	000000			HLT		IR1 IS NOT EQUAL TO 1

TEST 52 ASH 40000 SHIFTED BY 177763 = 2 PS = 0

003630	010701			SCOPE		
003632	012701	040000		MOV	#40000,X1	ILOAD R1 WITH 40000
003636	072127	177763		ASH	#177763,X1	ISHIFT R1 BY 177763
003642	013767	177776	007770	MOV	#PS,PSH	ISAVE PS
003650	122767	000000	007762	CHPB	#0,PSH	IIS THE PS 0?
003656	001401			BEQ	,+4	
003660	000000			HLT		ITHE PS IS NOT EQUAL TO 0
003662	022701	000002		CMP	#2,X1	IIS THE RESULT 2?
003666	001401			BEQ	,+4	
003670	000000			HLT		IR1 IS NOT EQUAL TO 2

TEST 53 ASH 40000 SHIFTED BY 177764 = 4 PS = 0

003672	010701			SCOPE		
003674	012701	040000		MOV	#40000,X1	ILOAD R1 WITH 40000
003700	072127	177764		ASH	#177764,X1	ISHIFT R1 BY 177764
003704	013767	177776	007726	MOV	#PS,PSH	ISAVE PS
003712	122767	000000	007720	CHPB	#0,PSH	IIS THE PS 0?
003720	001401			BEQ	,+4	
003722	000000			HLT		ITHE PS IS NOT EQUAL TO 0
003724	022701	000004		CMP	#4,X1	IIS THE RESULT 4?
003730	001401			BEQ	,+4	
003732	000000			HLT		IR1 IS NOT EQUAL TO 4

TEST 54 ASH 40000 SHIFTED BY 177765 = 10 PS = 0

003734	010701			SCOPE		
003736	012701	040000		MOV	#40000,X1	ILOAD R1 WITH 40000
003742	072127	177765		ASH	#177765,X1	ISHIFT R1 BY 177765
003746	013767	177776	007664	MOV	#PS,PSH	ISAVE PS
003754	122767	000000	007656	CHPB	#0,PSH	IIS THE PS 0?
003762	001401			BEQ	,+4	
003764	000000			HLT		ITHE PS IS NOT EQUAL TO 0
003766	022701	000010		CMP	#10,X1	IIS THE RESULT 10?
003772	001401			BEQ	,+4	
003774	000000			HLT		IR1 IS NOT EQUAL TO 10

TEST 55 ASH 40000 SHIFTED BY 177766 = 20 PS = 0

003776	010701			SCOPE		
004000	012701	040000		MOV	#40000,X1	ILOAD R1 WITH 40000
004004	072127	177766		ASH	#177766,X1	ISHIFT R1 BY 177766
004010	013767	177776	007622	MOV	#PS,PSH	ISAVE PS
004016	122767	000000	007614	CHPB	#0,PSH	IIS THE PS 0?
004024	001401			BEQ	,+4	
004026	000000			HLT		ITHE PS IS NOT EQUAL TO 0
004030	022701	000020		CMP	#20,X1	IIS THE RESULT 20?
004034	001401			BEQ	,+4	
004036	000000			HLT		IR1 IS NOT EQUAL TO 20

TEST 56 ASH 40000 SHIFTED BY 177767 = 40 PS = 0

004040	010701			SCOPE		
004042	012701	040000		MOV	#40000,X1	ILOAD R1 WITH 40000
004046	072127	177767		ASH	#177767,X1	ISHIFT R1 BY 177767
004052	013767	177776	007560	MOV	@#PS,PSW	ISAVE PS
004060	122767	000000	007552	CMPB	#0,PSW	IIS THE PS 0?
004066	001401			BEQ	.*4	
004070	000000			HLT		ITHE PS IS NOT EQUAL TO 0
004072	022701	000040		CMP	#40,X1	IIS THE RESULT 40?
004076	001401			BEQ	.*4	
004100	000000			HLT		IR1 IS NOT EQUAL TO 40

TEST 57 ASH 40000 SHIFTED BY 177770 = 100 PS = 0

004102	010701			SCOPE		
004104	012701	040000		MOV	#40000,X1	ILOAD R1 WITH 40000
004110	072127	177770		ASH	#177770,X1	ISHIFT R1 BY 177770
004114	013767	177776	007516	MOV	@#PS,PSW	ISAVE PS
004122	122767	000000	007510	CMPB	#0,PSW	IIS THE PS 0?
004130	001401			BEQ	.*4	
004132	000000			HLT		ITHE PS IS NOT EQUAL TO 0
004134	022701	000100		CMP	#100,X1	IIS THE RESULT 100?
004140	001401			BEQ	.*4	
004142	000000			HLT		IR1 IS NOT EQUAL TO 100

TEST 60 ASH 40000 SHIFTED BY 177771 = 200 PS = 0

004144	010701			SCOPE		
004146	012701	040000		MOV	#40000,X1	ILOAD R1 WITH 40000
004152	072127	177771		ASH	#177771,X1	ISHIFT R1 BY 177771
004156	013767	177776	007454	MOV	@#PS,PSW	ISAVE PS
004164	122767	000000	007446	CMPB	#0,PSW	IIS THE PS 0?
004172	001401			BEQ	.*4	
004174	000000			HLT		ITHE PS IS NOT EQUAL TO 0
004176	022701	000200		CMP	#200,X1	IIS THE RESULT 200?
004202	001401			BEQ	.*4	
004204	000000			HLT		IR1 IS NOT EQUAL TO 200

TEST 61 ASH 40000 SHIFTED BY 177772 = 400 PS = 0

004206	010701			SCOPE		
004210	012701	040000		MOV	#40000,X1	ILOAD R1 WITH 40000
004214	072127	177772		ASH	#177772,X1	ISHIFT R1 BY 177772
004220	013767	177776	007412	MOV	@#PS,PSW	ISAVE PS
004226	122767	000000	007404	CMPB	#0,PSW	IIS THE PS 0?
004234	001401			BEQ	.*4	
004236	000000			HLT		ITHE PS IS NOT EQUAL TO 0
004240	022701	000400		CMP	#400,X1	IIS THE RESULT 400?
004244	001401			BEQ	.*4	
004246	000000			HLT		IR1 IS NOT EQUAL TO 400

TEST 62 ASH 40000 SHIFTED BY 177773 = 1000 PS = 0

004250	010701			SCOPE		
004252	012701	040000		MOV	#40000,X1	ILOAD R1 WITH 40000
004256	072127	177773		ASH	#177773,X1	ISHIFT R1 BY 177773
004262	013767	177776	007350	MOV	@#PS,PSW	ISAVE PS
004270	122767	000000	007342	CMPB	#0,PSW	IIS THE PS 0?
004276	001401			BEQ	.*4	
004300	000000			HLT		ITHE PS IS NOT EQUAL TO 0
004302	022701	001000		CMP	#1000,X1	IIS THE RESULT 1000?
004306	001401			BEQ	.*4	
004310	000000			HLT		IR1 IS NOT EQUAL TO 1000

TEST 63 ASH 40000 SHIFTED BY 177774 = 2000 PS = 0

004312	010701			SCOPE		
004314	012701	040000		MOV	#40000,X1	ILOAD R1 WITH 40000
004320	072127	177774		ASH	#177774,X1	ISHIFT R1 BY 177774
004324	013767	177776	007306	MOV	@#PS,PSW	ISAVE PS
004332	122767	000000	007300	CMPB	#0,PSW	IIS THE PS 0?
004340	001401			BEQ	.*4	
004342	000000			HLT		ITHE PS IS NOT EQUAL TO 0
004344	022701	002000		CMP	#2000,X1	IIS THE RESULT 2000?
004350	001401			BEQ	.*4	
004352	000000			HLT		IR1 IS NOT EQUAL TO 2000

TEST 64 ASH 40000 SHIFTED BY 177775 = 4000 PS = 0

Address	Instruction	Comment	Scope	Operation
004354	012701		SCOPE	
004356	012701	040000	MOV	#40000,X1 ;LOAD R1 WITH 40000
004362	072127	177775	ASH	#177775,X1 ;SHIFT R1 BY 177775
004366	013767	177776	MOV	#PS,PSH ;SAVE PS
004374	122767	000000	007244	CMPB #0,PSH ;IS THE PS 0?
004402	001401		BEQ	,+4
004404	000000		HLT	;
004406	022701	004000	CMP	#4000,X1 ;THE PS IS NOT EQUAL TO 0
004412	001401		BEQ	,+4 ;IS THE RESULT 4000?
004414	000000		HLT	;
				R1 IS NOT EQUAL TO 4000

TEST 65 ASH 40000 SHIFTED BY 177776 = 10000 PS = 0

Address	Instruction	Comment	Scope	Operation
004416	012701		SCOPE	
004420	012701	040000	MOV	#40000,X1 ;LOAD R1 WITH 40000
004424	072127	177776	ASH	#177776,X1 ;SHIFT R1 BY 177776
004430	013767	177776	007202	MOV #PS,PSH ;SAVE PS
004436	122767	000000	007174	CMPB #0,PSH ;IS THE PS 0?
004444	001401		BEQ	,+4
004446	000000		HLT	;
004450	022701	010000	CMP	#10000,X1 ;THE PS IS NOT EQUAL TO 0
004454	001401		BEQ	,+4 ;IS THE RESULT 10000?
004456	000000		HLT	;
				R1 IS NOT EQUAL TO 10000

TEST 66 ASH 40000 SHIFTED BY 177777 = 20000 PS = 0

Address	Instruction	Comment	Scope	Operation
004460	012701		SCOPE	
004462	012701	040000	MOV	#40000,X1 ;LOAD R1 WITH 40000
004466	072127	177777	ASH	#177777,X1 ;SHIFT R1 BY 177777
004472	013767	177776	007140	MOV #PS,PSH ;SAVE PS
004500	122767	000000	007132	CMPB #0,PSH ;IS THE PS 0?
004506	001401		BEQ	,+4
004510	000000		HLT	;
004512	022701	020000	CMP	#20000,X1 ;THE PS IS NOT EQUAL TO 0
004516	001401		BEQ	,+4 ;IS THE RESULT 20000?
004520	000000		HLT	;
				R1 IS NOT EQUAL TO 20000

TEST 67 ASH 40000 SHIFTED BY 0 = 40000 PS = 0

Address	Instruction	Comment	Scope	Operation
004522	012701		SCOPE	
004524	012701	040000	MOV	#40000,X1 ;LOAD R1 WITH 40000
004530	072127	000000	ASH	#0,X1 ;SHIFT R1 BY 0
004534	013767	177776	007076	MOV #PS,PSH ;SAVE PS
004542	122767	000000	007070	CMPB #0,PSH ;IS THE PS 0?
004550	001401		BEQ	,+4
004552	000000		HLT	;
004554	022701	040000	CMP	#40000,X1 ;THE PS IS NOT EQUAL TO 0
004560	001401		BEQ	,+4 ;IS THE RESULT 40000?
004562	000000		HLT	;
				R1 IS NOT EQUAL TO 40000

TEST 70 ASH 100000 SHIFTED BY -15, # -1 PS = 10

Address	Instruction	Comment	Scope	Operation
004564	012701		SCOPE	
004566	012701	100000	MOV	#100000,X1 ;LOAD R1 WITH 100000
004572	072127	177761	ASH	#-15,X1 ;SHIFT R1 BY -15,
004576	013767	177776	007034	MOV #PS,PSH ;SAVE PS
004604	122767	000010	007026	CMPB #10,PSH ;IS THE PS 10?
004612	001401		BEQ	,+4
004614	000000		HLT	;
004616	022701	177777	CMP	#-1,X1 ;THE PS IS NOT EQUAL TO 10
004622	001401		BEQ	,+4 ;IS THE RESULT -1?
004624	000000		HLT	;
				R1 IS NOT EQUAL TO -1

TEST 71 ASH -1 SHIFTED BY 15, # 100000 PS = 11

Address	Instruction	Comment	Scope	Operation
004626	012701		SCOPE	
004630	012701	177777	MOV	#-1,X1 ;LOAD R1 WITH -1
004634	072127	000017	ASH	#15,X1 ;SHIFT R1 BY 15,
004640	013767	177776	006772	MOV #PS,PSH ;SAVE PS
004646	122767	000011	006764	CMPB #11,PSH ;IS THE PS 11?
004654	001401		BEQ	,+4
004656	000000		HLT	;
004660	022701	100000	CMP	#100000,X1 ;THE PS IS NOT EQUAL TO 11
004664	001401		BEQ	,+4 ;IS THE RESULT 100000?
004666	000000		HLT	;
				R1 IS NOT EQUAL TO 100000

 TEST 72 ASH =1 SHIFTED BY 16, = 0 PS = 7

004670	010701			SCOPE	
004672	012701	17777		MOV	#-1,X1 ILOAD R1 WITH -1
004676	072127	000020		ASH	#16,,X1 ISHIFT R1 BY 16,
004702	013767	177776	006730	MOV	@#PS,PSH ISAVE PS
004710	122767	000007	006722	CMPB	#7,PSW IIS THE PS 7?
004716	001401			BEQ	,+4
004720	000000			HLT	ITHE PS IS NOT EQUAL TO 7
004722	022701	000020		CMP	#0,X1 IIS THE RESULT 0?
004726	001401			BEQ	,+4
004730	000000			HLT	IR1 IS NOT EQUAL TO 0

 TEST 73 ASH 137777 SHIFTED BY 15, = 100000 PS = 13

004732	010701			SCOPE	
004734	012701	137777		MOV	#137777,X1 ILOAD R1 WITH 137777
004740	072127	000017		ASH	#15,,X1 ISHIFT R1 BY 15,
004744	013767	177776	006666	MOV	@#PS,PSH ISAVE PS
004752	122767	000013	006660	CMPB	#13,PSW IIS THE PS 13?
004760	001401			BEQ	,+4
004762	000000			HLT	ITHE PS IS NOT EQUAL TO 13
004764	022701	100000		CMP	#100000,X1 IIS THE RESULT 100000?
004770	001401			BEQ	,+4
004772	000000			HLT	IR1 IS NOT EQUAL TO 100000

 TEST 74 ASH 125252 SHIFTED BY 1 = 52524 PS = 3

004774	010701			SCOPE	
004776	012701	125252		MOV	#125252,X1 ILOAD R1 WITH 125252
005002	072127	000021		ASH	#1,X1 ISHIFT R1 BY 1
005006	013767	177776	006624	MOV	@#PS,PSH ISAVE PS
005014	122767	000003	006616	CMPB	#3,PSW IIS THE PS 3?
005022	001401			BEQ	,+4
005024	000000			HLT	ITHE PS IS NOT EQUAL TO 3
005026	022701	052524		CMP	#52524,X1 IIS THE RESULT 52524?
005032	001401			BEQ	,+4
005034	000000			HLT	IR1 IS NOT EQUAL TO 52524

 TEST 75 ASH 125252 SHIFTED BY +1 = 152525 PS = 10

005036	010701			SCOPE	
005040	012701	125252		MOV	#125252,X1 ILOAD R1 WITH 125252
005044	072127	177777		ASH	#-1,X1 ISHIFT R1 BY -1
005050	013767	177776	006562	MOV	@#PS,PSH ISAVE PS
005056	122767	000010	006554	CMPB	#10,PSW IIS THE PS 10?
005064	001401			BEQ	,+4
005066	000000			HLT	ITHE PS IS NOT EQUAL TO 10
005070	022701	152525		CMP	#152525,X1 IIS THE RESULT 152525?
005074	001401			BEQ	,+4
005076	000000			HLT	IR1 IS NOT EQUAL TO 152525

 TEST 76 ASH 125252 SHIFTED BY -2 = 165252 PS = 11

005100	010701			SCOPE	
005102	012701	125252		MOV	#125252,X1 ILOAD R1 WITH 125252
005106	072127	177776		ASH	#-2,X1 ISHIFT R1 BY -2
005112	013767	177776	006520	MOV	@#PS,PSH ISAVE PS
005120	122767	000011	006512	CMPB	#11,PSW IIS THE PS 11?
005126	001401			BEQ	,+4
005130	000000			HLT	ITHE PS IS NOT EQUAL TO 11
005132	022701	165252		CMP	#165252,X1 IIS THE RESULT 165252?
005136	001401			BEQ	,+4
005140	000000			HLT	IR1 IS NOT EQUAL TO 165252

 TEST 77 ASH 40000 SHIFTED BY 177762 = 1 PS = 0

005142	010701			SCOPE	
005144	012702	040000		MOV	#40000,X2 ILOAD R2 WITH 40000
005150	072227	177762		ASH	#177762,X2 ISHIFT R2 BY 177762
005154	013767	177776	006456	MOV	@#PS,PSH ISAVE PS
005162	122767	000000	006450	CMPB	#0,PSW IIS THE PS 0?
005170	001401			BEQ	,+4
005172	000000			HLT	ITHE PS IS NOT EQUAL TO 0
005174	022702	000001		CMP	#1,X2 IIS THE RESULT 1?
005200	001401			BEQ	,+4
005202	000000			HLT	IR2 IS NOT EQUAL TO 1

TEST 100 ASH 40000 SHIFTED BY 177763 = 2 PS = 0

005204	010701			SCOPE		
005206	012702	040000		MOV	#40000,X2	ILOAD R2 WITH 40000
005212	072227	177763		ASH	#177763,X2	ISHIFT R2 BY 177763
005216	013767	177776	006414	MOV	#0PS,PSW	ISAVE PS
005224	122767	000000	006406	CHPB	#0,PSW	IS THE PS 0?
005232	001401			BEQ	,+4	
005234	000000			HLT		ITHE PS IS NOT EQUAL TO 0
005236	022702	000022		CHP	#2,X2	IS THE RESULT 2?
005242	001401			BEQ	,+4	
005244	000000			HLT		IR2 IS NOT EQUAL TO 2

TEST 101 ASH 40000 SHIFTED BY 177764 = 4 PS = 0

005246	010701			SCOPE		
005250	012702	040000		MOV	#40000,X2	ILOAD R2 WITH 40000
005254	072227	177764		ASH	#177764,X2	ISHIFT R2 BY 177764
005260	013767	177776	006352	MOV	#0PS,PSW	ISAVE PS
005266	122767	000000	006344	CHPB	#0,PSW	IS THE PS 0?
005274	001401			BEQ	,+4	
005276	000000			HLT		ITHE PS IS NOT EQUAL TO 0
005300	022702	000004		CHP	#4,X2	IS THE RESULT 4?
005304	001401			BEQ	,+4	
005306	000000			HLT		IR2 IS NOT EQUAL TO 4

TEST 102 ASH 40000 SHIFTED BY 177765 = 10 PS = 0

005310	010701			SCOPE		
005312	012702	040000		MOV	#40000,X2	ILOAD R2 WITH 40000
005316	072227	177765		ASH	#177765,X2	ISHIFT R2 BY 177765
005322	013767	177776	006310	MOV	#0PS,PSW	ISAVE PS
005330	122767	000000	006302	CHPB	#0,PSW	IS THE PS 0?
005336	001401			BEQ	,+4	
005340	000000			HLT		ITHE PS IS NOT EQUAL TO 0
005342	022702	000010		CHP	#10,X2	IS THE RESULT 10?
005346	001401			BEQ	,+4	
005350	000000			HLT		IR2 IS NOT EQUAL TO 10

TEST 103 ASH 40000 SHIFTED BY 177766 = 20 PS = 0

005352	010701			SCOPE		
005354	012702	040000		MOV	#40000,X2	ILOAD R2 WITH 40000
005360	072227	177766		ASH	#177766,X2	ISHIFT R2 BY 177766
005364	013767	177776	006246	MOV	#0PS,PSW	ISAVE PS
005372	122767	000000	006240	CHPB	#0,PSW	IS THE PS 0?
005400	001401			BEQ	,+4	
005402	000000			HLT		ITHE PS IS NOT EQUAL TO 0
005404	022702	000020		CHP	#20,X2	IS THE RESULT 20?
005410	001401			BEQ	,+4	
005412	000000			HLT		IR2 IS NOT EQUAL TO 20

TEST 104 ASH 40000 SHIFTED BY 177767 = 40 PS = 0

005414	010701			SCOPE		
005416	012702	040000		MOV	#40000,X2	ILOAD R2 WITH 40000
005422	072227	177767		ASH	#177767,X2	ISHIFT R2 BY 177767
005426	013767	177776	006204	MOV	#0PS,PSW	ISAVE PS
005434	122767	000000	006176	CHPB	#0,PSW	IS THE PS 0?
005442	001401			BEQ	,+4	
005444	000000			HLT		ITHE PS IS NOT EQUAL TO 0
005446	022702	000040		CHP	#40,X2	IS THE RESULT 40?
005452	001401			BEQ	,+4	
005454	000000			HLT		IR2 IS NOT EQUAL TO 40

TEST 105 ASH 40000 SHIFTED BY 177770 = 100 PS = 0

005456	010701			SCOPE		
005460	012702	040000		MOV	#40000,X2	ILOAD R2 WITH 40000
005464	072227	177770		ASH	#177770,X2	ISHIFT R2 BY 177770
005470	013767	177776	006142	MOV	#0PS,PSW	ISAVE PS
005476	122767	000000	006134	CHPB	#0,PSW	IS THE PS 0?
005504	001401			BEQ	,+4	
005506	000000			HLT		ITHE PS IS NOT EQUAL TO 0
005510	022702	000100		CHP	#100,X2	IS THE RESULT 100?
005514	001401			BEQ	,+4	
005516	000000			HLT		IR2 IS NOT EQUAL TO 100

TEST 106 ASH 40000 SHIFTED BY 177771 = 200 PS = 0

005520	010701			SCOPE		
005522	012702	040000		MOV	#40000,X2	ILOAD R2 WITH 40000
005526	072227	177771		ASH	#177771,X2	ISHIFT R2 BY 177771
005532	013767	177776	006100	MOV	#PS,PSW	ISAVE PS
005540	122767	000000	006072	CMPB	#0,PSW	IS THE PS 0?
005546	001401			BEQ	,+4	
005550	000000			HLT		ITHE PS IS NOT EQUAL TO 0
005552	022702	000200		CMP	#200,X2	IS THE RESULT 200?
005556	001401			BEQ	,+4	
005560	000000			HLT		IR2 IS NOT EQUAL TO 200

TEST 107 ASH 40000 SHIFTED BY 177772 = 400 PS = 0

005562	010701			SCOPE		
005564	012702	040000		MOV	#40000,X2	ILOAD R2 WITH 40000
005570	072227	177772		ASH	#177772,X2	ISHIFT R2 BY 177772
005574	013767	177776	006036	MOV	#PS,PSW	ISAVE PS
005602	122767	000000	006030	CMPB	#0,PSW	IS THE PS 0?
005610	001401			BEQ	,+4	
005612	000000			HLT		ITHE PS IS NOT EQUAL TO 0
005614	022702	000400		CMP	#400,X2	IS THE RESULT 400?
005620	001401			BEQ	,+4	
005622	000000			HLT		IR2 IS NOT EQUAL TO 400

TEST 110 ASH 40000 SHIFTED BY 177773 = 1000 PS = 0

005624	010701			SCOPE		
005626	012702	040000		MOV	#40000,X2	ILOAD R2 WITH 40000
005632	072227	177773		ASH	#177773,X2	ISHIFT R2 BY 177773
005636	013767	177776	005774	MOV	#PS,PSW	ISAVE PS
005644	122767	000000	005766	CMPB	#0,PSW	IS THE PS 0?
005652	001401			BEQ	,+4	
005654	000000			HLT		ITHE PS IS NOT EQUAL TO 0
005656	022702	001000		CMP	#1000,X2	IS THE RESULT 1000?
005662	001401			BEQ	,+4	
005664	000000			HLT		IR2 IS NOT EQUAL TO 1000

TEST 111 ASH 40000 SHIFTED BY 177774 = 2000 PS = 0

005666	010701			SCOPE		
005670	012702	040000		MOV	#40000,X2	ILOAD R2 WITH 40000
005674	072227	177774		ASH	#177774,X2	ISHIFT R2 BY 177774
005700	013767	177776	005732	MOV	#PS,PSW	ISAVE PS
005706	122767	000000	005724	CMPB	#0,PSW	IS THE PS 0?
005714	001401			BEQ	,+4	
005716	000000			HLT		ITHE PS IS NOT EQUAL TO 0
005720	022702	002000		CMP	#2000,X2	IS THE RESULT 2000?
005724	001401			BEQ	,+4	
005726	000000			HLT		IR2 IS NOT EQUAL TO 2000

TEST 112 ASH 40000 SHIFTED BY 177775 = 4000 PS = 0

005730	010701			SCOPE		
005732	012702	040000		MOV	#40000,X2	ILOAD R2 WITH 40000
005736	072227	177775		ASH	#177775,X2	ISHIFT R2 BY 177775
005742	013767	177776	005670	MOV	#PS,PSW	ISAVE PS
005750	122767	000000	005602	CMPB	#0,PSW	IS THE PS 0?
005756	001401			BEQ	,+4	
005760	000000			HLT		ITHE PS IS NOT EQUAL TO 0
005762	022702	004000		CMP	#4000,X2	IS THE RESULT 4000?
005766	001401			BEQ	,+4	
005770	000000			HLT		IR2 IS NOT EQUAL TO 4000

TEST 113 ASH 40000 SHIFTED BY 177776 = 10000 PS = 0

005772	010701			SCOPE		
005774	012702	040000		MOV	#40000,X2	ILOAD R2 WITH 40000
006000	072227	177776		ASH	#177776,X2	ISHIFT R2 BY 177776
006004	013767	177776	005626	MOV	#PS,PSW	ISAVE PS
006012	122767	000000	005620	CMPB	#0,PSW	IS THE PS 0?
006020	001401			BEQ	,+4	
006022	000000			HLT		ITHE PS IS NOT EQUAL TO 0
006024	022702	010000		CMP	#10000,X2	IS THE RESULT 10000?
006030	001401			BEQ	,+4	
006032	000000			HLT		IR2 IS NOT EQUAL TO 10000

 TEST 114 ASH 40000 SHIFTED BY 177777 * 20000 PS = 0

006034	010701			SCOPE	
006036	012702	040000		MOV	#40000,X2 ILOAD R2 WITH 40000
006042	072227	177777		ASH	#177777,X2 ISHIFT R2 BY 177777
006046	013767	177776	005564	MOV	#PS,PSH ISAVE PS
006054	122767	000000	005556	CMPB	#0,PSH IIS THE PS 0?
006062	001401			BEQ	,+4
006064	000000			HLT	ITHE PS IS NOT EQUAL TO 0
006066	022702	020000		CMP	#20000,X2 IIS THE RESULT 20000?
006072	001401			BEQ	,+4
006074	000000			HLT	IR2 IS NOT EQUAL TO 20000

 TEST 115 ASH 40000 SHIFTED BY 0 * 40000 PS = 0

006076	010701			SCOPE	
006100	012702	040000		MOV	#40000,X2 ILOAD R2 WITH 40000
006104	072227	000000		ASH	#0,X2 ISHIFT R2 BY 0
006110	013767	177776	005522	MOV	#PS,PSH ISAVE PS
006116	122767	000000	005514	CMPB	#0,PSH IIS THE PS 0?
006124	001401			BEQ	,+4
006126	000000			HLT	ITHE PS IS NOT EQUAL TO 0
006130	022702	040000		CMP	#40000,X2 IIS THE RESULT 40000?
006134	001401			BEQ	,+4
006136	000000			HLT	IR2 IS NOT EQUAL TO 40000

 TEST 116 ASH 100000 SHIFTED BY -15, * -1 PS = 10

006140	010701			SCOPE	
006142	012702	100000		MOV	#100000,X2 ILOAD R2 WITH 100000
006146	072227	177761		ASH	#-15,X2 ISHIFT R2 BY -15,
006152	013767	177776	005460	MOV	#PS,PSH ISAVE PS
006160	122767	000010	005452	CMPB	#10,PSH IIS THE PS 10?
006166	001401			BEQ	,+4
006170	000000			HLT	ITHE PS IS NOT EQUAL TO 10
006172	022702	177777		CMP	#-1,X2 IIS THE RESULT -1?
006176	001401			BEQ	,+4
006200	000000			HLT	IR2 IS NOT EQUAL TO -1

 TEST 117 ASH -1 SHIFTED BY 15, * 100000 PS = 11

006202	010701			SCOPE	
006204	012702	177777		MOV	#-1,X2 ILOAD R2 WITH -1
006210	072227	000017		ASH	#15,X2 ISHIFT R2 BY 15,
006214	013767	177776	005416	MOV	#PS,PSH ISAVE PS
006222	122767	000011	005410	CMPB	#11,PSH IIS THE PS 11?
006230	001401			BEQ	,+4
006232	000000			HLT	ITHE PS IS NOT EQUAL TO 11
006234	022702	100000		CMP	#100000,X2 IIS THE RESULT 100000?
006240	001401			BEQ	,+4
006242	000000			HLT	IR2 IS NOT EQUAL TO 100000

 TEST 120 ASH -1 SHIFTED BY 16, * 0 PS = 7

006244	010701			SCOPE	
006246	012702	177777		MOV	#-1,X2 ILOAD R2 WITH -1
006252	072227	000020		ASH	#16,X2 ISHIFT R2 BY 16,
006256	013767	177776	005354	MOV	#PS,PSH ISAVE PS
006264	122767	000037	005346	CMPB	#7,PSH IIS THE PS 7?
006272	001401			BEQ	,+4
006274	000000			HLT	ITHE PS IS NOT EQUAL TO 7
006276	022702	000000		CMP	#0,X2 IIS THE RESULT 0?
006302	001401			BEQ	,+4
006304	000000			HLT	IR2 IS NOT EQUAL TO 0

 TEST 121 ASH 137777 SHIFTED BY 15, * 100000 PS = 13

006306	010701			SCOPE	
006310	012702	137777		MOV	#137777,X2 ILOAD R2 WITH 137777
006314	072227	000017		ASH	#15,X2 ISHIFT R2 BY 15,
006320	013767	177776	005312	MOV	#PS,PSH ISAVE PS
006326	122767	000013	005304	CMPB	#13,PSH IIS THE PS 13?
006334	001401			BEQ	,+4
006336	000000			HLT	ITHE PS IS NOT EQUAL TO 13
006340	022702	100000		CMP	#100000,X2 IIS THE RESULT 100000?
006344	001401			BEQ	,+4
006346	000000			HLT	IR2 IS NOT EQUAL TO 100000

 TEST 122 ASH 125252 SHIFTED BY 1 = 52524 PS = 3

006350	010701			SCOPE		
006352	012702	125252		MOV	#125252,%2	ILOAD R2 WITH 125252
006356	072227	000001		ASH	#1,%2	ISHIFT R2 BY 1
006362	013767	177776	005250	MOV	#PS,PSH	ISAVE PS
006370	122767	000003	005242	CMPB	#3,PSH	IS THE PS 3?
006376	001401			REQ	.,+4	
006400	000000			HLT		
006402	022702	052524		CMP	#52524,%2	IS THE PS IS NOT EQUAL TO 3
006406	001401			REQ	.,+4	IS THE RESULT 52524?
006410	000000			HLT		IR2 IS NOT EQUAL TO 52524

 TEST 123 ASH 125252 SHIFTED BY -1 = 152525 PS = 10

006412	010701			SCOPE		
006414	012702	125252		MOV	#125252,%2	ILOAD R2 WITH 125252
006420	072227	177777		ASH	#-1,%2	ISHIFT R2 BY -1
006424	013767	177776	005206	MOV	#PS,PSH	ISAVE PS
006432	122767	000010	005200	CMPB	#10,PSH	IS THE PS 10?
006440	001401			REQ	.,+4	
006442	000000			HLT		
006444	022702	152525		CMP	#152525,%2	IS THE PS IS NOT EQUAL TO 10
006450	001401			REQ	.,+4	IS THE RESULT 152525?
006452	000000			HLT		IR2 IS NOT EQUAL TO 152525

 TEST 124 ASH 125252 SHIFTED BY -2 = 165252 PS = 11

006454	010701			SCOPE		
006456	012702	125252		MOV	#125252,%2	ILOAD R2 WITH 125252
006462	072227	177776		ASH	#-2,%2	ISHIFT R2 BY -2
006466	013767	177776	005144	MOV	#PS,PSH	ISAVE PS
006474	122767	000011	005136	CMPB	#11,PSH	IS THE PS 11?
006502	001401			REQ	.,+4	
006504	000000			HLT		
006506	022702	165252		CMP	#165252,%2	IS THE PS IS NOT EQUAL TO 11
006512	001401			REQ	.,+4	IS THE RESULT 165252?
006514	000000			HLT		IR2 IS NOT EQUAL TO 165252

 TEST 125 ASH 40000 SHIFTED BY 177762 = 1 PS = 0

006516	010701			SCOPE		
006520	012703	040000		MOV	#40000,%3	ILOAD R3 WITH 40000
006524	072327	177762		ASH	#177762,%3	ISHIFT R3 BY 177762
006530	013767	177776	005102	MOV	#PS,PSH	ISAVE PS
006536	122767	000000	005074	CMPB	#0,PSH	IS THE PS 0?
006544	001401			REQ	.,+4	
006546	000000			HLT		
006550	022703	000001		CMP	#1,%3	IS THE PS IS NOT EQUAL TO 0
006554	001401			REQ	.,+4	IS THE RESULT 1?
006556	000000			HLT		IR3 IS NOT EQUAL TO 1

 TEST 126 ASH 40000 SHIFTED BY 177763 = 2 PS = 0

006560	010701			SCOPE		
006562	012703	040000		MOV	#40000,%3	ILOAD R3 WITH 40000
006566	072327	177763		ASH	#177763,%3	ISHIFT R3 BY 177763
006572	013767	177776	005040	MOV	#PS,PSH	ISAVE PS
006600	122767	000000	005032	CMPB	#0,PSH	IS THE PS 0?
006606	001401			REQ	.,+4	
006610	000000			HLT		
006612	022703	000002		CMP	#2,%3	IS THE PS IS NOT EQUAL TO 0
006616	001401			REQ	.,+4	IS THE RESULT 2?
006620	000000			HLT		IR3 IS NOT EQUAL TO 2

 TEST 127 ASH 40000 SHIFTED BY 177764 = 4 PS = 0

006622	010701			SCOPE		
006624	012703	040000		MOV	#40000,%3	ILOAD R3 WITH 40000
006630	072327	177764		ASH	#177764,%3	ISHIFT R3 BY 177764
006634	013767	177776	004776	MOV	#PS,PSH	ISAVE PS
006642	122767	000000	004770	CMPB	#0,PSH	IS THE PS 0?
006650	001401			REQ	.,+4	
006652	000000			HLT		
006654	022703	000004		CMP	#4,%3	IS THE PS IS NOT EQUAL TO 0
006660	001401			REQ	.,+4	IS THE RESULT 4?
006662	000000			HLT		IR3 IS NOT EQUAL TO 4

TEST 130 ASH 40000 SHIFTED BY 177765 = 10 PS = 0

006664	010701			SCOPE		
006666	012703	040000		MOV	#40000,X3	ILOAD R3 WITH 40000
006672	072327	177765		ASH	#177765,X3	ISHIFT R3 BY 177765
006676	013767	177776	004734	MOV	##PS,PSH	ISAVE PS
006704	122767	000000	004726	CMPB	#0,PSH	IIS THE PS 0?
006712	001401			BEQ	,+4	
006714	000000			HLT		ITHE PS IS NOT EQUAL TO 0
006716	022703	000010		CMP	#10,X3	IIS THE RESULT 10?
006722	001401			BEQ	,+4	
006724	000000			HLT		IR3 IS NOT EQUAL TO 10

TEST 131 ASH 40000 SHIFTED BY 177766 = 20 PS = 0

006726	010701			SCOPE		
006730	012703	040000		MOV	#40000,X3	ILOAD R3 WITH 40000
006734	072327	177766		ASH	#177766,X3	ISHIFT R3 BY 177766
006740	013767	177776	004672	MOV	##PS,PSH	ISAVE PS
006746	122767	000000	004664	CMPB	#0,PSH	IIS THE PS 0?
006754	001401			BEQ	,+4	
006756	000000			HLT		ITHE PS IS NOT EQUAL TO 0
006760	022703	000020		CMP	#20,X3	IIS THE RESULT 20?
006764	001401			BEQ	,+4	
006766	000000			HLT		IR3 IS NOT EQUAL TO 20

TEST 132 ASH 40000 SHIFTED BY 177767 = 40 PS = 0

006770	010701			SCOPE		
006772	012703	040000		MOV	#40000,X3	ILOAD R3 WITH 40000
006776	072327	177767		ASH	#177767,X3	ISHIFT R3 BY 177767
007002	013767	177776	004630	MOV	##PS,PSH	ISAVE PS
007010	122767	000000	004622	CMPB	#0,PSH	IIS THE PS 0?
007016	001401			BEQ	,+4	
007020	000000			HLT		ITHE PS IS NOT EQUAL TO 0
007022	022703	000040		CMP	#40,X3	IIS THE RESULT 40?
007026	001401			BEQ	,+4	
007030	000000			HLT		IR3 IS NOT EQUAL TO 40

TEST 133 ASH 40000 SHIFTED BY 177770 = 100 PS = 0

007032	010701			SCOPE		
007034	012703	040000		MOV	#40000,X3	ILOAD R3 WITH 40000
007040	072327	177770		ASH	#177770,X3	ISHIFT R3 BY 177770
007044	013767	177776	004566	MOV	##PS,PSH	ISAVE PS
007052	122767	000000	004560	CMPB	#0,PSH	IIS THE PS 0?
007060	001401			BEQ	,+4	
007062	000000			HLT		ITHE PS IS NOT EQUAL TO 0
007064	022703	000100		CMP	#100,X3	IIS THE RESULT 100?
007070	001401			BEQ	,+4	
007072	000000			HLT		IR3 IS NOT EQUAL TO 100

TEST 134 ASH 40000 SHIFTED BY 177771 = 200 PS = 0

007074	010701			SCOPE		
007076	012703	040000		MOV	#40000,X3	ILOAD R3 WITH 40000
007102	072327	177771		ASH	#177771,X3	ISHIFT R3 BY 177771
007106	013767	177776	004524	MOV	##PS,PSH	ISAVE PS
007114	122767	000000	004516	CMPB	#0,PSH	IIS THE PS 0?
007122	001401			BEQ	,+4	
007124	000000			HLT		ITHE PS IS NOT EQUAL TO 0
007126	022703	000200		CMP	#200,X3	IIS THE RESULT 200?
007132	001401			BEQ	,+4	
007134	000000			HLT		IR3 IS NOT EQUAL TO 200

TEST 135 ASH 40000 SHIFTED BY 177772 = 400 PS = 0

007136	010701			SCOPE		
007140	012703	040000		MOV	#40000,X3	ILOAD R3 WITH 40000
007144	072327	177772		ASH	#177772,X3	ISHIFT R3 BY 177772
007150	013767	177776	004462	MOV	##PS,PSH	ISAVE PS
007156	122767	000000	004454	CMPB	#0,PSH	IIS THE PS 0?
007164	001401			BEQ	,+4	
007166	000000			HLT		ITHE PS IS NOT EQUAL TO 0
007170	022703	000400		CMP	#400,X3	IIS THE RESULT 400?
007174	001401			BEQ	,+4	
007176	000000			HLT		IR3 IS NOT EQUAL TO 400

TEST 136 ASH 40000 SHIFTED BY 177773 = 1000 PS = 0

007200	010701			SCOPE	
007202	012703	040000		MOV	#40000,X3 ILOAD R3 WITH 40000
007206	072327	177773		ASH	#177773,X3 ISHIFT R3 BY 177773
007212	013767	177776	004420	MOV	#PS,PSW ISAVE PS
007220	122767	000000	004412	CMPB	#0,PSW IIS THE PS 0?
007226	001401			BEQ	,+4
007230	000000			HLT	ITHE PS IS NOT EQUAL TO 0
007232	022703	001000		CMP	#1000,X3 IIS THE RESULT 1000?
007236	001401			BEQ	,+4
007240	000000			HLT	IR3 IS NOT EQUAL TO 1000

TEST 137 ASH 40000 SHIFTED BY 177774 = 2000 PS = 0

007242	010701			SCOPE	
007244	012703	040000		MOV	#40000,X3 ILOAD R3 WITH 40000
007250	072327	177774		ASH	#177774,X3 ISHIFT R3 BY 177774
007254	013767	177776	004356	MOV	#PS,PSW ISAVE PS
007262	122767	000000	004350	CMPB	#0,PSW IIS THE PS 0?
007270	001401			BEQ	,+4
007272	000000			HLT	ITHE PS IS NOT EQUAL TO 0
007274	022703	002000		CMP	#2000,X3 IIS THE RESULT 2000?
007300	001401			BEQ	,+4
007302	000000			HLT	IR3 IS NOT EQUAL TO 2000

TEST 140 ASH 40000 SHIFTED BY 177775 = 4000 PS = 0

007304	010701			SCOPE	
007306	012703	040000		MOV	#40000,X3 ILOAD R3 WITH 40000
007312	072327	177775		ASH	#177775,X3 ISHIFT R3 BY 177775
007316	013767	177776	004314	MOV	#PS,PSW ISAVE PS
007324	122767	000000	004306	CMPB	#0,PSW IIS THE PS 0?
007332	001401			BEQ	,+4
007334	000000			HLT	ITHE PS IS NOT EQUAL TO 0
007336	022703	004000		CMP	#4000,X3 IIS THE RESULT 4000?
007342	001401			BEQ	,+4
007344	000000			HLT	IR3 IS NOT EQUAL TO 4000

TEST 141 ASH 40000 SHIFTED BY 177776 = 10000 PS = 0

007346	010701			SCOPE	
007350	012703	040000		MOV	#40000,X3 ILOAD R3 WITH 40000
007354	072327	177776		ASH	#177776,X3 ISHIFT R3 BY 177776
007360	013767	177776	004252	MOV	#PS,PSW ISAVE PS
007366	122767	000000	004244	CMPB	#0,PSW IIS THE PS 0?
007374	001401			BEQ	,+4
007376	000000			HLT	ITHE PS IS NOT EQUAL TO 0
007400	022703	010000		CMP	#10000,X3 IIS THE RESULT 10000?
007404	001401			BEQ	,+4
007406	000000			HLT	IR3 IS NOT EQUAL TO 10000

TEST 142 ASH 40000 SHIFTED BY 177777 = 20000 PS = 0

007410	010701			SCOPE	
007412	012703	040000		MOV	#40000,X3 ILOAD R3 WITH 40000
007416	072327	177777		ASH	#177777,X3 ISHIFT R3 BY 177777
007422	013767	177776	004210	MOV	#PS,PSW ISAVE PS
007430	122767	000000	004202	CMPB	#0,PSW IIS THE PS 0?
007436	001401			BEQ	,+4
007440	000000			HLT	ITHE PS IS NOT EQUAL TO 0
007442	022703	020000		CMP	#20000,X3 IIS THE RESULT 20000?
007446	001401			BEQ	,+4
007450	000000			HLT	IR3 IS NOT EQUAL TO 20000

TEST 143 ASH 40000 SHIFTED BY 0 = 40000 PS = 0

007452	010701			SCOPE	
007454	012703	040000		MOV	#40000,X3 ILOAD R3 WITH 40000
007460	072327	000000		ASH	#0,X3 ISHIFT R3 BY 0
007464	013767	177776	004146	MOV	#PS,PSW ISAVE PS
007472	122767	000000	004140	CMPB	#0,PSW IIS THE PS 0?
007500	001401			BEQ	,+4
007502	000000			HLT	ITHE PS IS NOT EQUAL TO 0
007504	022703	040000		CMP	#40000,X3 IIS THE RESULT 40000?
007510	001401			BEQ	,+4
007512	000000			HLT	IR3 IS NOT EQUAL TO 40000

TEST 144 ASH 100000 SHIFTED BY -15, # -1 PS = 10

007514	010701			SCOPE	
007516	012703	100000		MOV	#100000,X3 ILOAD R3 WITH 100000
007522	072327	177761		ASH	#-15,X3 ISHIFT R3 BY -15,
007526	013767	177776	004104	MOV	##PS,PSW ISAVE PS
007534	122767	000010	004076	CMPB	#10,PSW IIS THE PS 10?
007542	001401			REQ	.,+4
007544	000000			HLT	ITHE PS IS NOT EQUAL TO 10
007546	022703	177777		CMP	#-1,X3 IIS THE RESULT -1?
007552	001401			REQ	.,+4
007554	000000			HLT	IR3 IS NOT EQUAL TO -1

TEST 145 ASH -1 SHIFTED BY 15, # 100000 PS = 11

007556	010701			SCOPE	
007560	012703	177777		MOV	#-1,X3 ILOAD R3 WITH -1
007564	072327	000017		ASH	#15,X3 ISHIFT R3 BY 15,
007570	013767	177776	004042	MOV	##PS,PSW ISAVE PS
007576	122767	000011	004034	CMPB	#11,PSW IIS THE PS 11?
007604	001401			REQ	.,+4
007606	000000			HLT	ITHE PS IS NOT EQUAL TO 11
007610	022703	100000		CMP	#100000,X3 IIS THE RESULT 100000?
007614	001401			REQ	.,+4
007616	000000			HLT	IR3 IS NOT EQUAL TO 100000

TEST 146 ASH -1 SHIFTED BY 16, # 0 PS = 7

007620	010701			SCOPE	
007622	012703	177777		MOV	#-1,X3 ILOAD R3 WITH -1
007626	072327	000020		ASH	#16,X3 ISHIFT R3 BY 16,
007632	013767	177776	004000	MOV	##PS,PSW ISAVE PS
007640	122767	000007	003772	CMPB	#7,PSW IIS THE PS 7?
007646	001401			REQ	.,+4
007650	000000			HLT	ITHE PS IS NOT EQUAL TO 7
007652	022703	000000		CMP	#0,X3 IIS THE RESULT 0?
007656	001401			REQ	.,+4
007660	000000			HLT	IR3 IS NOT EQUAL TO 0

TEST 147 ASH 137777 SHIFTED BY 15, # 100000 PS = 13

007662	010701			SCOPE	
007664	012703	137777		MOV	#137777,X3 ILOAD R3 WITH 137777
007670	072327	000017		ASH	#15,X3 ISHIFT R3 BY 15,
007674	013767	177776	003736	MOV	##PS,PSW ISAVE PS
007702	122767	000013	003730	CMPB	#13,PSW IIS THE PS 13?
007710	001401			REQ	.,+4
007712	000000			HLT	ITHE PS IS NOT EQUAL TO 13
007714	022703	100000		CMP	#100000,X3 IIS THE RESULT 100000?
007720	001401			REQ	.,+4
007722	000000			HLT	IR3 IS NOT EQUAL TO 100000

TEST 150 ASH 125252 SHIFTED BY 1 # 52524 PS = 3

007724	010701			SCOPE	
007726	012703	125252		MOV	#125252,X3 ILOAD R3 WITH 125252
007732	072327	000001		ASH	#1,X3 ISHIFT R3 BY 1
007736	013767	177776	003674	MOV	##PS,PSW ISAVE PS
007744	122767	000003	003666	CMPB	#3,PSW IIS THE PS 3?
007752	001401			REQ	.,+4
007754	000000			HLT	ITHE PS IS NOT EQUAL TO 3
007756	022703	052524		CMP	#52524,X3 IIS THE RESULT 52524?
007762	001401			REQ	.,+4
007764	000000			HLT	IR3 IS NOT EQUAL TO 52524

TEST 151 ASH 125252 SHIFTED BY -1 # 152525 PS = 10

007766	010701			SCOPE	
007770	012703	125252		MOV	#125252,X3 ILOAD R3 WITH 125252
007774	072327	177777		ASH	#-1,X3 ISHIFT R3 BY -1
010000	013767	177776	003632	MOV	##PS,PSW ISAVE PS
010006	122767	000010	003624	CMPB	#10,PSW IIS THE PS 10?
010014	001401			REQ	.,+4
010016	000000			HLT	ITHE PS IS NOT EQUAL TO 10
010020	022703	152525		CMP	#152525,X3 IIS THE RESULT 152525?
010024	001401			REQ	.,+4
010026	000000			HLT	IR3 IS NOT EQUAL TO 152525

TEST 152 ASH 125252 SHIFTED BY -2 # 165252 PS # 11

010030	010701			SCOPE	
010032	012703	125252		MOV	#125252,X3 ILOAD R3 WITH 125252
010036	072327	177776		ASH	#-2,X3 ISHIFT R3 BY -2
010042	013767	177776	003570	MOV	#PS,PSW ISAVE PS
010050	122767	000011	003562	CMPB	#1,PSW IIS THE PS 11?
010056	001401			BEQ	.,+4
010060	000000			HLT	ITHE PS IS NOT EQUAL TO 11
010062	022703	165252		CMP	#165252,X3 IIS THE RESULT 165252?
010066	001401			BEQ	.,+4
010070	000000			HLT	IR3 IS NOT EQUAL TO 165252

TEST 153 ASH 40000 SHIFTED BY 177762 # 1 PS # 0

010072	010701			SCOPE	
010074	012704	040000		MOV	#40000,X4 ILOAD R4 WITH 40000
010100	072427	177762		ASH	#177762,X4 ISHIFT R4 BY 177762
010104	013767	177776	003526	MOV	#PS,PSW ISAVE PS
010112	122767	000000	003520	CMPB	#0,PSW IIS THE PS 0?
010120	001401			BEQ	.,+4
010122	000000			HLT	ITHE PS IS NOT EQUAL TO 0
010124	022704	000001		CMP	#1,X4 IIS THE RESULT 1?
010130	001401			BEQ	.,+4
010132	000000			HLT	IR4 IS NOT EQUAL TO 1

TEST 154 ASH 40000 SHIFTED BY 177763 # 2 PS # 0

010134	010701			SCOPE	
010136	012704	040000		MOV	#40000,X4 ILOAD R4 WITH 40000
010142	072427	177763		ASH	#177763,X4 ISHIFT R4 BY 177763
010146	013767	177776	003464	MOV	#PS,PSW ISAVE PS
010154	122767	000000	003456	CMPB	#0,PSW IIS THE PS 0?
010162	001401			BEQ	.,+4
010164	000000			HLT	ITHE PS IS NOT EQUAL TO 0
010166	022704	000002		CMP	#2,X4 IIS THE RESULT 2?
010172	001401			BEQ	.,+4
010174	000000			HLT	IR4 IS NOT EQUAL TO 2

TEST 155 ASH 40000 SHIFTED BY 177764 # 4 PS # 0

010176	010701			SCOPE	
010200	012704	040000		MOV	#40000,X4 ILOAD R4 WITH 40000
010204	072427	177764		ASH	#177764,X4 ISHIFT R4 BY 177764
010210	013767	177776	003422	MOV	#PS,PSW ISAVE PS
010216	122767	000000	003414	CMPB	#0,PSW IIS THE PS 0?
010224	001401			BEQ	.,+4
010226	000000			HLT	ITHE PS IS NOT EQUAL TO 0
010230	022704	000004		CMP	#4,X4 IIS THE RESULT 4?
010234	001401			BEQ	.,+4
010236	000000			HLT	IR4 IS NOT EQUAL TO 4

TEST 156 ASH 40000 SHIFTED BY 177765 # 10 PS # 0

010240	010701			SCOPE	
010242	012704	040000		MOV	#40000,X4 ILOAD R4 WITH 40000
010246	072427	177765		ASH	#177765,X4 ISHIFT R4 BY 177765
010252	013767	177776	003360	MOV	#PS,PSW ISAVE PS
010260	122767	000000	003352	CMPB	#0,PSW IIS THE PS 0?
010266	001401			BEQ	.,+4
010270	000000			HLT	ITHE PS IS NOT EQUAL TO 0
010272	022704	000010		CMP	#10,X4 IIS THE RESULT 10?
010276	001401			BEQ	.,+4
010300	000000			HLT	IR4 IS NOT EQUAL TO 10

TEST 157 ASH 40000 SHIFTED BY 177766 # 20 PS # 0

010302	010701			SCOPE	
010304	012704	040000		MOV	#40000,X4 ILOAD R4 WITH 40000
010310	072427	177766		ASH	#177766,X4 ISHIFT R4 BY 177766
010314	013767	177776	003316	MOV	#PS,PSW ISAVE PS
010322	122767	000000	003310	CMPB	#0,PSW IIS THE PS 0?
010330	001401			BEQ	.,+4
010332	000000			HLT	ITHE PS IS NOT EQUAL TO 0
010334	022704	000020		CMP	#20,X4 IIS THE RESULT 20?
010340	001401			BEQ	.,+4
010342	000000			HLT	IR4 IS NOT EQUAL TO 20

TEST 160 ASH 40000 SHIFTED BY 177767 = 40 PS = 0

010344	010701			SCOPE		
010346	012704	040000		MOV	#40000,X4	ILOAD R4 WITH 40000
010352	072427	177767		ASH	#177767,X4	ISHIFT R4 BY 177767
010356	013767	177776	003254	MOV	#0PS,PSH	ISAVE PS
010364	122767	000000	003246	CMPB	#0,PSH	IIS THE PS 0?
010372	001401			BEQ	,+4	
010374	000000			HLT		ITHE PS IS NOT EQUAL TO 0
010376	022704	000040		CMP	#40,X4	IIS THE RESULT 40?
010402	001401			BEQ	,+4	
010404	000000			HLT		IR4 IS NOT EQUAL TO 40

TEST 161 ISH 40000 SHIFTED BY 177770 = 100 PS = 0

010406	010701			SCOPE		
010410	012704	040000		MOV	#40000,X4	ILOAD R4 WITH 40000
010414	072427	177770		ASH	#177770,X4	ISHIFT R4 BY 177770
010420	013767	177776	003212	MOV	#0PS,PSH	ISAVE PS
010426	122767	000000	003204	CMPB	#0,PSH	IIS THE PS 0?
010434	001401			BEQ	,+4	
010436	000000			HLT		ITHE PS IS NOT EQUAL TO 0
010440	022704	000100		CMP	#100,X4	IIS THE RESULT 100?
010444	001401			BEQ	,+4	
010446	000000			HLT		IR4 IS NOT EQUAL TO 100

TEST 162 ISH 40000 SHIFTED BY 177771 = 200 PS = 0

010450	010701			SCOPE		
010452	012704	040000		MOV	#40000,X4	ILOAD R4 WITH 40000
010456	072427	177771		ASH	#177771,X4	ISHIFT R4 BY 177771
010462	013767	177776	003150	MOV	#0PS,PSH	ISAVE PS
010470	122767	000000	003142	CMPB	#0,PSH	IIS THE PS 0?
010476	001401			BEQ	,+4	
010500	000000			HLT		ITHE PS IS NOT EQUAL TO 0
010502	022704	000200		CMP	#200,X4	IIS THE RESULT 200?
010506	001401			BEQ	,+4	
010510	000000			HLT		IR4 IS NOT EQUAL TO 200

TEST 163 ASH 40000 SHIFTED BY 177772 = 400 PS = 0

010512	010701			SCOPE		
010514	012704	040000		MOV	#40000,X4	ILOAD R4 WITH 40000
010520	072427	177772		ASH	#177772,X4	ISHIFT R4 BY 177772
010524	013767	177776	003106	MOV	#0PS,PSH	ISAVE PS
010532	122767	000000	003100	CMPB	#0,PSH	IIS THE PS 0?
010540	001401			BEQ	,+4	
010542	000000			HLT		ITHE PS IS NOT EQUAL TO 0
010544	022704	000400		CMP	#400,X4	IIS THE RESULT 400?
010550	001401			BEQ	,+4	
010552	000000			HLT		IR4 IS NOT EQUAL TO 400

TEST 164 ASH 40000 SHIFTED BY 177773 = 1000 PS = 0

010554	010701			SCOPE		
010556	012704	040000		MOV	#40000,X4	ILOAD R4 WITH 40000
010562	072427	177773		ASH	#177773,X4	ISHIFT R4 BY 177773
010566	013767	177776	003044	MOV	#0PS,PSH	ISAVE PS
010574	122767	000000	003036	CMPB	#0,PSH	IIS THE PS 0?
010602	001401			BEQ	,+4	
010604	000000			HLT		ITHE PS IS NOT EQUAL TO 0
010606	022704	001000		CMP	#1000,X4	IIS THE RESULT 1000?
010612	001401			BEQ	,+4	
010614	000000			HLT		IR4 IS NOT EQUAL TO 1000

TEST 165 ASH 40000 SHIFTED BY 177774 = 2000 PS = 0

010616	010701			SCOPE		
010620	012704	040000		MOV	#40000,X4	ILOAD R4 WITH 40000
010624	072427	177774		ASH	#177774,X4	ISHIFT R4 BY 177774
010630	013767	177776	003002	MOV	#0PS,PSH	ISAVE PS
010636	122767	000000	002774	CMPB	#0,PSH	IIS THE PS 0?
010644	001401			BEQ	,+4	
010646	000000			HLT		ITHE PS IS NOT EQUAL TO 0
010650	022704	002000		CMP	#2000,X4	IIS THE RESULT 2000?
010654	001401			BEQ	,+4	
010656	000000			HLT		IR4 IS NOT EQUAL TO 2000

 TEST 166 ASH 40000 SHIFTED BY 177775 = 4000 PS = 0

010640	010701			SCOPE	
010642	012704	040000		MOV	#40000,X4 ILOAD R4 WITH 40000
010666	072427	177775		ASH	#177775,X4 ISHIFT R4 BY 177775
010672	013767	177776	002740	MOV	#PS,PSW ISAVE PS
010700	122767	000000	002732	CMPB	#0,PSW IIS THE PS 0?
010706	001401			BEQ	,+4
010710	000000			HLT	ITHE PS IS NOT EQUAL TO 0
010712	022704	004000		CMP	#4000,X4 IIS THE RESULT 4000?
010716	001401			BEQ	,+4
010720	000000			HLT	IR4 IS NOT EQUAL TO 4000

 TEST 167 ASH 40000 SHIFTED BY 177776 = 10000 PS = 0

010722	010701			SCOPE	
010724	012704	040000		MOV	#40000,X4 ILOAD R4 WITH 40000
010730	072427	177776		ASH	#177776,X4 ISHIFT R4 BY 177776
010734	013767	177776	002676	MOV	#PS,PSW ISAVE PS
010742	122767	000000	002670	CMPB	#0,PSW IIS THE PS 0?
010750	001401			BEQ	,+4
010752	000000			HLT	ITHE PS IS NOT EQUAL TO 0
010754	022704	010000		CMP	#10000,X4 IIS THE RESULT 10000?
010760	001401			BEQ	,+4
010762	000000			HLT	IR4 IS NOT EQUAL TO 10000

 TEST 170 ASH 40000 SHIFTED BY 177777 = 20000 PS = 0

010764	010701			SCOPE	
010766	012704	040000		MOV	#40000,X4 ILOAD R4 WITH 40000
010772	072427	177777		ASH	#177777,X4 ISHIFT R4 BY 177777
010776	013767	177776	002634	MOV	#PS,PSW ISAVE PS
011004	122767	000000	002626	CMPB	#0,PSW IIS THE PS 0?
011012	001401			BEQ	,+4
011014	000000			HLT	ITHE PS IS NOT EQUAL TO 0
011016	022704	020000		CMP	#20000,X4 IIS THE RESULT 20000?
011022	001401			BEQ	,+4
011024	000000			HLT	IR4 IS NOT EQUAL TO 20000

 TEST 171 ASH 40000 SHIFTED BY 0 = 40000 PS = 0

011026	010701			SCOPE	
011030	012704	040000		MOV	#40000,X4 ILOAD R4 WITH 40000
011034	072427	000000		ASH	#0,X4 ISHIFT R4 BY 0
011040	013767	177776	002572	MOV	#PS,PSW ISAVE PS
011046	122767	000000	002564	CMPB	#0,PSW IIS THE PS 0?
011054	001401			BEQ	,+4
011056	000000			HLT	ITHE PS IS NOT EQUAL TO 0
011060	022704	040000		CMP	#40000,X4 IIS THE RESULT 40000?
011064	001401			BEQ	,+4
011066	000000			HLT	IR4 IS NOT EQUAL TO 40000

 TEST 172 ASH 100000 SHIFTED BY -15, = -1 PS = 10

011070	010701			SCOPE	
011072	012704	100000		MOV	#100000,X4 ILOAD R4 WITH 100000
011076	072427	177761		ASH	#-15,X4 ISHIFT R4 BY -15.
011102	013767	177776	002530	MOV	#PS,PSW ISAVE PS
011110	122767	000010	002522	CMPB	#10,PSW IIS THE PS 10?
011116	001401			BEQ	,+4
011120	000000			HLT	ITHE PS IS NOT EQUAL TO 10
011122	022704	177777		CMP	#-1,X4 IIS THE RESULT -1?
011126	001401			BEQ	,+4
011130	000000			HLT	IR4 IS NOT EQUAL TO -1

 TEST 173 ASH -1 SHIFTED BY 15, = 100000 PS = 11

011132	010701			SCOPE	
011134	012704	177777		MOV	#-1,X4 ILOAD R4 WITH -1
011140	072427	000017		ASH	#15,X4 ISHIFT R4 BY 15,
011144	013767	177776	002466	MOV	#PS,PSW ISAVE PS
011152	122767	000011	002460	CMPB	#11,PSW IIS THE PS 11?
011160	001401			BEQ	,+4
011162	000000			HLT	ITHE PS IS NOT EQUAL TO 11
011164	022704	100000		CMP	#100000,X4 IIS THE RESULT 100000?
011170	001401			BEQ	,+4
011172	000000			HLT	IR4 IS NOT EQUAL TO 100000

 ITEST 174 ASH -1 SHIFTED BY 16, # 0 PS # 7

011174	010701			SCOPE	
011176	012704	177777		MOV	#-1,X4 ILOAD R4 WITH -1
011202	072427	000020		ASH	#16,X4 ISHIFT R4 BY 16,
011206	013767	177776	002424	MOV	#PS,PSW ISAVE PS
011214	122767	000007	002416	CMPB	#7,PSW IIS THE PS 7?
011222	001401			BEQ	,+4
011224	000000			HLT	ITHE PS IS NOT EQUAL TO 7
011226	022704	000000		CMP	#0,X4 IIS THE RESULT 0?
011232	001401			BEQ	,+4
011234	000000			HLT	IR4 IS NOT EQUAL TO 0

 ITEST 175 ASH 137777 SHIFTED BY 15, # 100000 PS # 13

011236	010701			SCOPE	
011240	012704	137777		MOV	#137777,X4 ILOAD R4 WITH 137777
011244	072427	000017		ASH	#15,X4 ISHIFT R4 BY 15,
011250	013767	177776	002362	MOV	#PS,PSW ISAVE PS
011256	122767	000013	002354	CMPB	#13,PSW IIS THE PS 13?
011264	001401			BEQ	,+4
011266	000000			HLT	ITHE PS IS NOT EQUAL TO 13
011270	022704	100000		CMP	#100000,X4 IIS THE RESULT 100000?
011274	001401			BEQ	,+4
011276	000000			HLT	IR4 IS NOT EQUAL TO 100000

 ITEST 176 ASH 129252 SHIFTED BY 1 # 52524 PS # 3

011300	010701			SCOPE	
011302	012704	129252		MOV	#129252,X4 ILOAD R4 WITH 129252
011306	072427	000001		ASH	#1,X4 ISHIFT R4 BY 1
011312	013767	177776	002320	MOV	#PS,PSW ISAVE PS
011320	122767	000003	002312	CMPB	#3,PSW IIS THE PS 3?
011326	001401			BEQ	,+4
011330	000000			HLT	ITHE PS IS NOT EQUAL TO 3
011332	022704	052524		CMP	#52524,X4 IIS THE RESULT 52524?
011336	001401			BEQ	,+4
011340	000000			HLT	IR4 IS NOT EQUAL TO 52524

 ITEST 177 ASH 129252 SHIFTED BY -1 # 152525 PS # 10

011342	010701			SCOPE	
011344	012704	129252		MOV	#129252,X4 ILOAD R4 WITH 129252
011350	072427	177777		ASH	#-1,X4 ISHIFT R4 BY -1
011354	013767	177776	002256	MOV	#PS,PSW ISAVE PS
011362	122767	000010	002250	CMPB	#10,PSW IIS THE PS 10?
011370	001401			BEQ	,+4
011372	000000			HLT	ITHE PS IS NOT EQUAL TO 10
011374	022704	152525		CMP	#152525,X4 IIS THE RESULT 152525?
011400	001401			BEQ	,+4
011402	000000			HLT	IR4 IS NOT EQUAL TO 152525

 ITEST 200 ASH 129252 SHIFTED BY -2 # 165252 PS # 11

011404	010701			SCOPE	
011406	012704	129252		MOV	#129252,X4 ILOAD R4 WITH 129252
011412	072427	177776		ASH	#-2,X4 ISHIFT R4 BY -2
011416	013767	177776	002214	MOV	#PS,PSW ISAVE PS
011424	122767	000011	002206	CMPB	#11,PSW IIS THE PS 11?
011432	001401			BEQ	,+4
011434	000000			HLT	ITHE PS IS NOT EQUAL TO 11
011436	022704	165252		CMP	#165252,X4 IIS THE RESULT 165252?
011442	001401			BEQ	,+4
011444	000000			HLT	IR4 IS NOT EQUAL TO 165252

 ITEST 201 ASH 40000 SHIFTED BY 177762 # 1 PS # 0

011446	010701			SCOPE	
011450	012704	040000		MOV	#40000,X5 ILOAD R5 WITH 40000
011454	072527	177762		ASH	#177762,X5 ISHIFT R5 BY 177762
011460	013767	177776	002152	MOV	#PS,PSW ISAVE PS
011466	122767	000000	002144	CMPB	#0,PSW IIS THE PS 0?
011474	001401			BEQ	,+4
011476	000000			HLT	ITHE PS IS NOT EQUAL TO 0
011500	022704	000001		CMP	#1,X5 IIS THE RESULT 1?
011504	001401			BEQ	,+4
011506	000000			HLT	IR5 IS NOT EQUAL TO 1

TEST 202 ASH 40000 SHIFTED BY 177763 = 2 PS = 0

011510	010701			SCOPE		
011512	012705	040000		MOV	#40000,X5	ILOAD R5 WITH 40000
011516	072527	177763		ASH	#177763,X5	ISHIFT R5 BY 177763
011522	013767	177776	002110	MOV	#PS,PSW	ISAVE PS
011530	122767	000000	002102	CMPB	#0,PSW	IS THE PS 0?
011536	001401			BEQ	,+4	
011540	000000			HLT		ITHE PS IS NOT EQUAL TO 0
011542	022705	000022		CMP	#2,X5	IS THE RESULT 2?
011546	001401			BEQ	,+4	
011550	000000			HLT		IR5 IS NOT EQUAL TO 2

TEST 203 ASH 40000 SHIFTED BY 177764 = 4 PS = 0

011552	010701			SCOPE		
011554	012705	040000		MOV	#40000,X5	ILOAD R5 WITH 40000
011560	072527	177764		ASH	#177764,X5	ISHIFT R5 BY 177764
011564	013767	177776	002046	MOV	#PS,PSW	ISAVE PS
011572	122767	000000	002040	CMPB	#0,PSW	IS THE PS 0?
011600	001401			BEQ	,+4	
011602	000000			HLT		ITHE PS IS NOT EQUAL TO 0
011604	022705	000004		CMP	#4,X5	IS THE RESULT 4?
011610	001401			BEQ	,+4	
011612	000000			HLT		IR5 IS NOT EQUAL TO 4

TEST 204 ASH 40000 SHIFTED BY 177765 = 10 PS = 0

011614	010701			SCOPE		
011616	012705	040000		MOV	#40000,X5	ILOAD R5 WITH 40000
011622	072527	177765		ASH	#177765,X5	ISHIFT R5 BY 177765
011626	013767	177776	002004	MOV	#PS,PSW	ISAVE PS
011634	122767	000000	001776	CMPB	#0,PSW	IS THE PS 0?
011642	001401			BEQ	,+4	
011644	000000			HLT		ITHE PS IS NOT EQUAL TO 0
011646	022705	000010		CMP	#10,X5	IS THE RESULT 10?
011652	001401			BEQ	,+4	
011654	000000			HLT		IR5 IS NOT EQUAL TO 10

TEST 205 ASH 40000 SHIFTED BY 177766 = 20 PS = 0

011656	010701			SCOPE		
011660	012705	040000		MOV	#40000,X5	ILOAD R5 WITH 40000
011664	072527	177766		ASH	#177766,X5	ISHIFT R5 BY 177766
011670	013767	177776	001742	MOV	#PS,PSW	ISAVE PS
011676	122767	000000	001734	CMPB	#0,PSW	IS THE PS 0?
011704	001401			BEQ	,+4	
011706	000000			HLT		ITHE PS IS NOT EQUAL TO 0
011710	022705	000020		CMP	#20,X5	IS THE RESULT 20?
011714	001401			BEQ	,+4	
011716	000000			HLT		IR5 IS NOT EQUAL TO 20

TEST 206 ASH 40000 SHIFTED BY 177767 = 40 PS = 0

011720	010701			SCOPE		
011722	012705	040000		MOV	#40000,X5	ILOAD R5 WITH 40000
011726	072527	177767		ASH	#177767,X5	ISHIFT R5 BY 177767
011732	013767	177776	001700	MOV	#PS,PSW	ISAVE PS
011740	122767	000000	001672	CMPB	#0,PSW	IS THE PS 0?
011746	001401			BEQ	,+4	
011750	000000			HLT		ITHE PS IS NOT EQUAL TO 0
011752	022705	000040		CMP	#40,X5	IS THE RESULT 40?
011756	001401			BEQ	,+4	
011760	000000			HLT		IR5 IS NOT EQUAL TO 40

TEST 207 ASH 40000 SHIFTED BY 177770 = 100 PS = 0

011762	010701			SCOPE		
011764	012705	040000		MOV	#40000,X5	ILOAD R5 WITH 40000
011770	072527	177770		ASH	#177770,X5	ISHIFT R5 BY 177770
011774	013767	177776	001636	MOV	#PS,PSW	ISAVE PS
012002	122767	000000	001630	CMPB	#0,PSW	IS THE PS 0?
012010	001401			BEQ	,+4	
012012	000000			HLT		ITHE PS IS NOT EQUAL TO 0
012014	022705	000100		CMP	#100,X5	IS THE RESULT 100?
012020	001401			BEQ	,+4	
012022	000000			HLT		IR5 IS NOT EQUAL TO 100

 TEST 210 ASH 40000 SHIFTED BY 177771 = 200 PS = 0

012024	010701			SCOPE	
012026	012705	040000		MOV	#40000,X5 ILOAD R5 WITH 40000
012032	072527	177771		ASH	#177771,X5 ISHIFT R5 BY 177771
012036	013767	177776	001574	MOV	#0PS,PSH ISAVE PS
012044	122767	000000	001566	CMPB	#0,PSW IIS THE PS 0?
012052	001401			BEQ	,+4
012054	000000			HLT	ITHE PS IS NOT EQUAL TO 0
012056	022705	000200		CMP	#200,X5 IIS THE RESULT 200?
012062	001401			BEQ	,+4
012064	000000			HLT	IR5 IS NOT EQUAL TO 200

 TEST 211 ASH 40000 SHIFTED BY 177772 = 400 PS = 0

012066	010701			SCOPE	
012070	012705	040000		MOV	#40000,X5 ILOAD R5 WITH 40000
012074	072527	177772		ASH	#177772,X5 ISHIFT R5 BY 177772
012100	013767	177776	001532	MOV	#0PS,PSH ISAVE PS
012106	122767	000000	001524	CMPB	#0,PSW IIS THE PS 0?
012114	001401			BEQ	,+4
012116	000000			HLT	ITHE PS IS NOT EQUAL TO 0
012120	022705	000400		CMP	#400,X5 IIS THE RESULT 400?
012124	001401			BEQ	,+4
012126	000000			HLT	IR5 IS NOT EQUAL TO 400

 TEST 212 ASH 40000 SHIFTED BY 177773 = 1000 PS = 0

012130	010701			SCOPE	
012132	012705	040000		MOV	#40000,X5 ILOAD R5 WITH 40000
012136	072527	177773		ASH	#177773,X5 ISHIFT R5 BY 177773
012142	013767	177776	001478	MOV	#0PS,PSH ISAVE PS
012150	122767	000000	001462	CMPB	#0,PSW IIS THE PS 0?
012156	001401			BEQ	,+4
012160	000000			HLT	ITHE PS IS NOT EQUAL TO 0
012162	022705	001000		CMP	#1000,X5 IIS THE RESULT 1000?
012166	001401			BEQ	,+4
012170	000000			HLT	IR5 IS NOT EQUAL TO 1000

 TEST 213 ASH 40000 SHIFTED BY 177774 = 2000 PS = 0

012172	010701			SCOPE	
012174	012705	040000		MOV	#40000,X5 ILOAD R5 WITH 40000
012200	072527	177774		ASH	#177774,X5 ISHIFT R5 BY 177774
012204	013767	177776	001426	MOV	#0PS,PSH ISAVE PS
012212	122767	000000	001420	CMPB	#0,PSW IIS THE PS 0?
012220	001401			BEQ	,+4
012222	000000			HLT	ITHE PS IS NOT EQUAL TO 0
012224	022705	002000		CMP	#2000,X5 IIS THE RESULT 2000?
012230	001401			BEQ	,+4
012232	000000			HLT	IR5 IS NOT EQUAL TO 2000

 TEST 214 ASH 40000 SHIFTED BY 177775 = 4000 PS = 0

012234	010701			SCOPE	
012236	012705	040000		MOV	#40000,X5 ILOAD R5 WITH 40000
012242	072527	177775		ASH	#177775,X5 ISHIFT R5 BY 177775
012246	013767	177776	001364	MOV	#0PS,PSH ISAVE PS
012254	122767	000000	001356	CMPB	#0,PSW IIS THE PS 0?
012262	001401			BEQ	,+4
012264	000000			HLT	ITHE PS IS NOT EQUAL TO 0
012266	022705	004000		CMP	#4000,X5 IIS THE RESULT 4000?
012272	001401			BEQ	,+4
012274	000000			HLT	IR5 IS NOT EQUAL TO 4000

 TEST 215 ASH 40000 SHIFTED BY 177776 = 10000 PS = 0

012276	010701			SCOPE	
012300	012705	040000		MOV	#40000,X5 ILOAD R5 WITH 40000
012304	072527	177776		ASH	#177776,X5 ISHIFT R5 BY 177776
012310	013767	177776	001322	MOV	#0PS,PSH ISAVE PS
012316	122767	000000	001314	CMPB	#0,PSW IIS THE PS 0?
012324	001401			BEQ	,+4
012326	000000			HLT	ITHE PS IS NOT EQUAL TO 0
012330	022705	010000		CMP	#10000,X5 IIS THE RESULT 10000?
012334	001401			BEQ	,+4
012336	000000			HLT	IR5 IS NOT EQUAL TO 10000

TEST 216 ASH 40000 SHIFTED BY 17777 * 20000 PS = 0

012340	010701			SCOPE		
012342	012705	040020		MOV	#40000,X5	ILOAD R5 WITH 40000
012346	072527	177777		ASH	#177777,X5	ISHIFT R5 BY 177777
012352	013767	177776	001260	MOV	##PS,PSW	ISAVE PS
012360	122767	000020	001252	CMPB	#0,PSW	IIS THE PS 0?
012366	001401			BEQ	.,+4	
012370	000000			HLT		ITHE PS IS NOT EQUAL TO 0
012372	022705	020020		CMP	#20000,X5	IIS THE RESULT 20000?
012376	001401			BEQ	.,+4	
012400	000000			HLT		IR5 IS NOT EQUAL TO 20000

TEST 217 ASH 40000 SHIFTED BY 0 * 40000 PS = 0

012402	010701			SCOPE		
012404	012705	040020		MOV	#40000,X5	ILOAD R5 WITH 40000
012410	072527	000020		ASH	#0,X5	ISHIFT R5 BY 0
012414	013767	177776	001216	MOV	##PS,PSW	ISAVE PS
012422	122767	000020	001210	CMPB	#0,PSW	IIS THE PS 0?
012430	001401			BEQ	.,+4	
012432	000000			HLT		ITHE PS IS NOT EQUAL TO 0
012434	022705	040020		CMP	#40000,X5	IIS THE RESULT 40000?
012440	001401			BEQ	.,+4	
012442	000000			HLT		IR5 IS NOT EQUAL TO 40000

TEST 220 ASH 100000 SHIFTED BY -15, * -1 PS = 10

012444	010701			SCOPE		
012446	012705	100020		MOV	#100000,X5	ILOAD R5 WITH 100000
012452	072527	177751		ASH	#-15,,X5	ISHIFT R5 BY -15,
012456	013767	177776	001154	MOV	##PS,PSW	ISAVE PS
012464	122767	000010	001146	CMPB	#10,PSW	IIS THE PS 10?
012472	001401			BEQ	.,+4	
012474	000000			HLT		ITHE PS IS NOT EQUAL TO 10
012476	022705	177777		CMP	#-1,X5	IIS THE RESULT -1?
012502	001401			BEQ	.,+4	
012504	000000			HLT		IR5 IS NOT EQUAL TO -1

TEST 221 ASH -1 SHIFTED BY 15, * 100000 PS = 11

012506	010701			SCOPE		
012510	012705	177777		MOV	#-1,X5	ILOAD R5 WITH -1
012514	072527	000017		ASH	#15,,X5	ISHIFT R5 BY 15,
012520	013767	177776	001112	MOV	##PS,PSW	ISAVE PS
012526	122767	000011	001104	CMPB	#11,PSW	IIS THE PS 11?
012534	001401			BEQ	.,+4	
012536	000000			HLT		ITHE PS IS NOT EQUAL TO 11
012540	022705	100020		CMP	#100000,X5	IIS THE RESULT 100000?
012544	001401			BEQ	.,+4	
012546	000000			HLT		IR5 IS NOT EQUAL TO 100000

TEST 222 ASH -1 SHIFTED BY 16, * 0 PS = 7

012550	010701			SCOPE		
012552	012705	177777		MOV	#-1,X5	ILOAD R5 WITH -1
012556	072527	000020		ASH	#16,,X5	ISHIFT R5 BY 16,
012562	013767	177776	001050	MOV	##PS,PSW	ISAVE PS
012570	122767	000027	001042	CMPB	#7,PSW	IIS THE PS 7?
012576	001401			BEQ	.,+4	
012600	000000			HLT		ITHE PS IS NOT EQUAL TO 7
012602	022705	000020		CMP	#0,X5	IIS THE RESULT 0?
012606	001401			BEQ	.,+4	
012610	000000			HLT		IR5 IS NOT EQUAL TO 0

TEST 223 ASH 137777 SHIFTED BY 15, * 100000 PS = 13

012612	010701			SCOPE		
012614	012705	137777		MOV	#137777,X5	ILOAD R5 WITH 137777
012620	072527	000017		ASH	#15,,X5	ISHIFT R5 BY 15,
012624	013767	177776	001006	MOV	##PS,PSW	ISAVE PS
012632	122767	000013	001000	CMPB	#13,PSW	IIS THE PS 13?
012640	001401			BEQ	.,+4	
012642	000000			HLT		ITHE PS IS NOT EQUAL TO 13
012644	022705	100020		CMP	#100000,X5	IIS THE RESULT 100000?
012650	001401			BEQ	.,+4	
012652	000000			HLT		IR5 IS NOT EQUAL TO 100000

 TEST 224 ASH 125252 SHIFTED BY 1 = 52524 PS = 3

012654	010701			SCOPE	
012656	012705	125252		MOV	#125252,X5 ILOAD R5 WITH 125252
012662	072527	000021		ASH	#1,X5 ISHIFT R5 BY 1
012666	013767	177776	000744	MOV	##PS,PSW ISAVE PS
012674	122767	000003	000736	CMPB	#3,PSW IIS THE PS 3?
012702	001401			REQ	,+4
012704	000000			HLT	
012706	022705	052524		CMP	#52524,X5 ITHE PS IS NOT EQUAL TO 3
012712	001401			BEQ	,+4 IIS THE RESULT 52524?
012714	000000			HLT	IR5 IS NOT EQUAL TO 52524

 TEST 225 ASH 125252 SHIFTED BY -1 = 152525 PS = 10

012716	010701			SCOPE	
012720	012705	125252		MOV	#125252,X5 ILOAD R5 WITH 125252
012724	072527	177777		ASH	#-1,X5 ISHIFT R5 BY -1
012730	013767	177776	000702	MOV	##PS,PSW ISAVE PS
012736	122767	000010	000674	CMPB	#10,PSW IIS THE PS 10?
012744	001401			BEQ	,+4
012746	000000			HLT	
012750	022705	152525		CMP	#152525,X5 ITHE PS IS NOT EQUAL TO 10
012754	001401			BEQ	,+4 IIS THE RESULT 152525?
012756	000000			HLT	IR5 IS NOT EQUAL TO 152525

 TEST 226 ASH 125252 SHIFTED BY -2 = 165252 PS = 11

012760	010701			SCOPE	
012762	012705	125252		MOV	#125252,X5 ILOAD R5 WITH 125252
012766	072527	177776		ASH	#-2,X5 ISHIFT R5 BY -2
012772	013767	177776	000640	MOV	##PS,PSW ISAVE PS
013000	122767	000011	000632	CMPB	#11,PSW IIS THE PS 11?
013006	001401			BEQ	,+4
013010	000000			HLT	
013012	022705	165252		CMP	#165252,X5 ITHE PS IS NOT EQUAL TO 11
013016	001401			BEQ	,+4 IIS THE RESULT 165252?
013020	000000			HLT	IR5 IS NOT EQUAL TO 165252
013022	012704	177771		MOV	#-7,X4
013026	012702	013644		MOV	#S1,X2
013032	012703	013646		MOV	#S2,X3

 TEST 227 I1/40 ASH 125252 SHIFTED BY S1 = 177525 PS = 10

013036	010701			SCOPE	
013040	012700	125252		MOV	#125252,X0 ILOAD R0 WITH 125252
013044	072067	000574		ASH	S1,X0 ISHIFT R0 BY S1
013050	013767	177776	000562	MOV	##PS,PSW ISAVE PS
013056	122767	000010	000554	CMPB	#10,PSW IIS THE PS 10?
013064	001401			BEQ	,+4
013066	000000			HLT	
013070	022700	177525		CMP	#177525,X0 ITHE PS IS NOT EQUAL TO 10
013074	001401			BEQ	,+4 IIS THE RESULT 177525?
013076	000000			HLT	IR0 IS NOT EQUAL TO 177525

 TEST 230 I1/40 ASH 125252 SHIFTED BY #S2 = 177525 PS = 10

013100	010701			SCOPE	
013102	012700	125252		MOV	#125252,X0 ILOAD R0 WITH 125252
013106	072067	000534		ASH	#S2,X0 ISHIFT R0 BY #S2
013112	013767	177776	000520	MOV	##PS,PSW ISAVE PS
013120	122767	000010	000512	CMPB	#10,PSW IIS THE PS 10?
013126	001401			BEQ	,+4
013130	000000			HLT	
013132	022700	177525		CMP	#177525,X0 ITHE PS IS NOT EQUAL TO 10
013136	001401			BEQ	,+4 IIS THE RESULT 177525?
013140	000000			HLT	IR0 IS NOT EQUAL TO 177525

 TEST 231 I1/40 ASH 125252 SHIFTED BY #S1 = 177525 PS = 10

013142	010701			SCOPE	
013144	012700	125252		MOV	#125252,X0 ILOAD R0 WITH 125252
013150	072067	013644		ASH	##01,X0 ISHIFT R0 BY #S1
013154	013767	177776	000456	MOV	##PS,PSW ISAVE PS
013162	122767	000010	000450	CMPB	#10,PSW IIS THE PS 10?
013170	001401			BEQ	,+4
013172	000000			HLT	
013174	022700	177525		CMP	#177525,X0 ITHE PS IS NOT EQUAL TO 10
013200	001401			BEQ	,+4 IIS THE RESULT 177525?
013202	000000			HLT	IR0 IS NOT EQUAL TO 177525

 TEST 232 11/40 ASH 125252 SHIFTED BY X4 = 177525 PS = 10

013204	010701			SCOPE		
013206	012700	125252		MOV	#125252,X0	!LOAD R0 WITH 125252
013212	072004			ASH	X4,X0	!SHIFT R0 BY X4
013214	013767	177776	000416	MOV	0#PS,PSW	!SAVE PS
013222	122767	000010	000410	CMPB	#10,PSW	!IS THE PS 10?
013230	001401			BEQ	,+4	
013232	000000			HLT		!THE PS IS NOT EQUAL TO 10
013234	022700	177525		CMP	#177525,X0	!IS THE RESULT 177525?
013240	001401			BEQ	,+4	
013242	000000			HLT		!R0 IS NOT EQUAL TO 177525

 TEST 233 11/40 ASH 125252 SHIFTED BY (2) = 177525 PS = 10

013244	010701			SCOPE		
013246	012700	125252		MOV	#125252,X0	!LOAD R0 WITH 125252
013252	072002			ASH	(2),X0	!SHIFT R0 BY (2)+
013254	013767	177776	000356	MOV	0#PS,PSW	!SAVE PS
013262	122767	000010	000350	CMPB	#10,PSW	!IS THE PS 10?
013270	001401			BEQ	,+4	
013272	000000			HLT		!THE PS IS NOT EQUAL TO 10
013274	022700	177525		CMP	#177525,X0	!IS THE RESULT 177525?
013300	001401			BEQ	,+4	
013302	000000			HLT		!R0 IS NOT EQUAL TO 177525

 TEST 234 11/40 ASH 125252 SHIFTED BY -(2) = 177525 PS = 10

013304	010701			SCOPE		
013306	012700	125252		MOV	#125252,X0	!LOAD R0 WITH 125252
013312	072042			ASH	-(2),X0	!SHIFT R0 BY -(2)
013314	013767	177776	000316	MOV	0#PS,PSW	!SAVE PS
013322	122767	000010	000310	CMPB	#10,PSW	!IS THE PS 10?
013330	001401			BEQ	,+4	
013332	000000			HLT		!THE PS IS NOT EQUAL TO 10
013334	022700	177525		CMP	#177525,X0	!IS THE RESULT 177525?
013340	001401			BEQ	,+4	
013342	000000			HLT		!R0 IS NOT EQUAL TO 177525

 TEST 235 11/40 ASH 125252 SHIFTED BY 2(3) = 177525 PS = 11

013344	010701			SCOPE		
013346	012700	125252		MOV	#125252,X0	!LOAD R0 WITH 125252
013352	072003	000002		ASH	2(3),X0	!SHIFT R0 BY 2(3)
013356	013767	177776	000254	MOV	0#PS,PSW	!SAVE PS
013364	122767	000011	000246	CMPB	#11,PSW	!IS THE PS 11?
013372	001401			BEQ	,+4	
013374	000000			HLT		!THE PS IS NOT EQUAL TO 11
013376	022700	177252		CMP	#177252,X0	!IS THE RESULT 177252?
013402	001401			BEQ	,+4	
013404	000000			HLT		!R0 IS NOT EQUAL TO 177252

 TEST 236 11/40 ASH 125252 SHIFTED BY 0(3) = 177525 PS = 10

013406	010701			SCOPE		
013410	012700	125252		MOV	#125252,X0	!LOAD R0 WITH 125252
013414	072003	000000		ASH	0(3),X0	!SHIFT R0 BY 0(3)
013420	013767	177776	000212	MOV	0#PS,PSW	!SAVE PS
013426	122767	000010	000204	CMPB	#10,PSW	!IS THE PS 10?
013434	001401			BEQ	,+4	
013436	000000			HLT		!THE PS IS NOT EQUAL TO 10
013440	022700	177525		CMP	#177525,X0	!IS THE RESULT 177525?
013444	001401			BEQ	,+4	
013446	000000			HLT		!R0 IS NOT EQUAL TO 177525

 TEST 237 11/40 ASH 125252 SHIFTED BY 0(3)+ = 177525 PS = 10

013450	010701			SCOPE		
013452	012700	125252		MOV	#125252,X0	!LOAD R0 WITH 125252
013456	072003			ASH	0(3)+,X0	!SHIFT R0 BY 0(3)+
013460	013767	177776	000152	MOV	0#PS,PSW	!SAVE PS
013466	122767	000010	000144	CMPB	#10,PSW	!IS THE PS 10?
013474	001401			BEQ	,+4	
013476	000000			HLT		!THE PS IS NOT EQUAL TO 10
013500	022700	177525		CMP	#177525,X0	!IS THE RESULT 177525?
013504	001401			BEQ	,+4	
013506	000000			HLT		!R0 IS NOT EQUAL TO 177525

 TEST 240 11/40 ASH 125252 SHIFTED BY #- (3) * 177525 PS = 10

013510	010701			SCOPE	
013512	012700	125252		MOV	#125252,X0
013516	072003			ASH	0-(3),X0
013520	013767	177776	000112	MOV	#PS,PSW
013526	122767	000010	000104	CHPB	#10,PSW
013534	001401			BEQ	,*4
013536	000000			HLT	
013540	022700	177525		CHP	#177525,X0
013544	001401			BEQ	,*4
013546	000000			HLT	

013550	005267	165224		INC	ICNT
013554	016707	165220	177570	MOV	ICNT,#DISPLAY
013562	022767	020000	165210	CHP	#20000,ICNT
013570	001402			BEQ	,*6
013572	000167	165204		JMP	BEQ
013576	005067	165176		CLR	ICNT
013602	105737	177564		TSTB	#177564
013606	100375			BPL	,*4
013610	112737	000007	177566	MOV	#7,#177566
013616	013700	000042		MOV	#42,X0
013622	001404			BEQ	15
013624	004710			JSR	7,(0)
013626	000240			NOP	
013630	000240			NOP	
013632	000240			NOP	
013634	000137	000220	151	JMP	#200

013640	000000			PSW:	0
013642	000007			S01	7
013644	177771			S11	-7
013646	013644			S21	51
013650	177772			S31	-6
000001				.END	

BEC	001002	DISPLA	= 177570	DUMMY	= 000000	HLT	= 000000
ICNT	001000	M	= 000006	N	= 000241	PS	= 177776
PSW	013640	R	= 100000	SCOPE	= 010701	SWR	= 177570
S0	013642	S1	= 013644	S2	013646	S3	013650
T	= 000001	,	= 013652				

ERRORS DETECTED: 0