

# PDP11/45

ASHC

MD-11-DCKBJ-A

EP DCKBJ A DL A

OCT 1976

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IDENTIFICATION

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

PRODUCT NAME: ASHC INSTRUCTION TEST

DATE CREATED: 15 MAR 1972

MAINTAINER: DIAGNOSTIC GROUP

AUTHOR: BOB BRAIN

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MAYNARD, MASS

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- 1.0 ABSTRACT  
THIS PROGRAM WILL INCREMENTLY TEST AND ISOLATE SIMPLE MALFUNCTIONS RELATED TO THE ASHC 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  
DUNA THRU DONA
- 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 IMMEDIATELY PRECEDING 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.  
  
TRAPVEC: TRAPVEC+4  
TRAPVEC+2: 0

108  
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TRAPVEC+4: 017716 ;MOVE SCOPE ADDRESS TO STACK  
TRAPVEC+6: R0 ;ADDRESS OF PREVIOUS SCOPE  
TRAPVEC+10: 000006 ;RETURN TO TEST AT SCOPE

RESTORE ALL LOCATIONS BEFORE PROCEEDING TO NEXT TEST.

7.0 RESTRICTIONS  
NONE

8.0 MISCELLANEOUS  
ON TERMINATION 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  
THE PROGRAM INITIALLY SETS THE STACK POINTER AT 500.

9.0 PROGRAM DESCRIPTIONS

THIS IS A TEST OF THE ASHC INSTRUCTION. IT TESTS ASHC WITH DIFFERENT SHIFT COUNTS IN ALL THE REGISTERS INCLUDING 000 REGISTERS.

.TITLE MAINDEC-11-DCKBJ-A ASHC TEST  
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;PROGRAM BY BOB BRAIN

.ABS

010701  
000000  
177776  
177570  
177570  
000001  
000000  
000000  
  
000200 000200 000576  
000167  
001000  
  
001000 000000  
  
001002 012706 000500  
001006 005037 177776  
001012 032737 001000 177570  
001020 071403  
001022 012737 004000 177776  
001030 032767 000400 176532  
001036 001403  
001040 116767 176524 176722

SCOPE= 10701  
HLT= HALT  
PS= 177776  
SI= 177570  
DISPLAY=SMR  
N= 1  
DUMMY= 0  
R=0  
  
.=0 ;TRAP CATCHER 0 - 776  
  
.= 200  
Jr2 BEG  
.= 1000  
  
ICNT: 0 ;PASS COUNT  
  
BEG: MOV #500,%6 ;## STACK AT 500 ##  
CLR 2#PS  
BIT #1000,2#SMR ;WHICH REGISTER SET?  
BEG .+10  
MOV #4000,2#PS ;ALTERNATE!  
BIT #400,SMR ;LOAD UB REG?  
BEG .+10  
MOVB SMR,177770

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\*\*\*\*\*  
:TEST 1 0 0 SHIFTED BY 0 = 0 0 PS = 4  
:\*\*\*\*\*

001046	010701			SCOPE		
001050	012700	000000		MOV	80,XD	;LOAD RD WITH 0
001054	012701	000000		MOV	80,XD!1	;LOAD RD!1 WITH 0
001060	000241			CLC		
001062	073027	000000		ASHC	8,XD	;SHIFT RD,RO!1 BY 0
001066	013767	177776	013654	MOV	8,PSM	;SAVE PS
001074	122767	000004	013646	CHPB	8,PSM	;IS THE PS 4?
001102	001401			HALT	.+4	
001104	000000					
001106	022700	000000		CHPB	80,XD	;THE PS IS NOT EQUAL TO 4
001112	001401			HALT	.+4	;IS THE RESULT 0?
001114	000000					
001116	022701	000000		CHPB	80,XD!1	;RD IS NOT EQUAL TO 0
001122	001401			HALT	.+4	;IS THE RESULT 0?
001124	000000					;RD!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 2 0 0 SHIFTED BY -32. = 0 0 PS = 4  
:\*\*\*\*\*

001126	010701			SCOPE		
001130	012700	000000		MOV	80,XD	;LOAD RD WITH 0
001134	012701	000000		MOV	80,XD!1	;LOAD RD!1 WITH 0
001140	000241			CLC		
001142	073027	177740		ASHC	8,-32,XD	;SHIFT RD,RO!1 BY -32.
001146	013767	177776	013574	MOV	8,PSM	;SAVE PS
001154	122767	000004	013566	CHPB	8,PSM	;IS THE PS 4?
001162	001401			HALT	.+4	
001164	000000					
001166	022700	000000		CHPB	80,XD	;THE PS IS NOT EQUAL TO 4
001172	001401			HALT	.+4	;IS THE RESULT 0?
001174	000000					
001176	022701	000000		CHPB	80,XD!1	;RD IS NOT EQUAL TO 0
001202	001401			HALT	.+4	;IS THE RESULT 0?
001204	000000					;RD!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 3 0 0 SHIFTED BY 32. = 0 0 PS = 4  
:\*\*\*\*\*

001206	010701			SCOPE		
001210	012700	000000		MOV	80,X0	:LOAD R0 WITH 0
001214	011701	000000		MOV	80,X0!1	:LOAD R0!1 WITH 0
001218	001241			CLC		
001222	073027	000040		ASHC	832,X0	:SHIFT R0,R0!1 BY 32.
001226	013767	177776	013514	MOV	28PS,PSW	:SAVE PS
001230	122767	000004	013506	CHPB	84,PSW	:IS THE PS 4?
001234	001401			BEQ	+.4	
001238	001000			HLT		:THE PS IS NOT EQUAL TO 4
001242	022700	000000		CHP	80,X0	:IS THE RESULT 0?
001246	001401			BEQ	+.4	
001250	000000			HLT		:R0 IS NOT EQUAL TO 0
001254	001701	000000		CHP	80,X0!1	:IS THE RESULT 0?
001258	001401			BEQ	+.4	
001262	000000			HLT		:R0!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 4 0 1 SHIFTED BY 0 = 0 1 PS = 0  
:\*\*\*\*\*

001266	010701			SCOPE		
001270	012700	000000		MOV	80,X0	:LOAD R0 WITH 0
001274	012701	000001		MOV	81,X0!1	:LOAD R0!1 WITH 1
001278	001241			CLC		
001282	073027	000000		ASHC	80,X0	:SHIFT R0,R0!1 BY 0
001286	013767	177776	013434	MOV	28PS,PSW	:SAVE PS
001290	122767	000000	013426	CHPB	80,PSW	:IS THE PS 0?
001294	001401			BEQ	+.4	
001298	000000			HLT		:THE PS IS NOT EQUAL TO 0
001302	022700	000000		CHP	80,X0	:IS THE RESULT 0?
001306	001401			BEQ	+.4	
001310	000000			HLT		:R0 IS NOT EQUAL TO 0
001314	022701	000001		CHP	81,X0!1	:IS THE RESULT 1?
001318	001401			BEQ	+.4	
001322	000000			HLT		:R0!1 IS NOT EQUAL TO 1

\*\*\*\*\*  
:TEST 5 0 1 SHIFTED BY 1 = 0 2 PS = 0  
\*\*\*\*\*

001346	010701			SCOPE		
001350	012700	000000		MOV	00,X0	;LOAD R0 WITH 0
001354	012701	000001		MOV	01,X0!1	;LOAD R0!1 WITH 1
001360	000000			CLC		
001362	070037	000001		ASHC	01,X0	;SHIFT R0,R0!1 BY 1
001366	013767	177776	013354	MOV	0#PS,PSW	;SAVE PS
001374	013767	000000	013346	CHPB	00,PSW	;IS THE PS 0?
001402	011401			BEQ	.+4	
001404	000000			HLT		;THE PS IS NOT EQUAL TO 0
001406	000000			CHP	00,X0	;IS THE RESULT 0?
001412	000000			BEQ	.+4	
001414	000000			HLT		;R0 IS NOT EQUAL TO 0
001416	012701	000002		CHP	02,X0!1	;IS THE RESULT 2?
001422	011401			BEQ	.+4	
001424	000000			HLT		;R0!1 IS NOT EQUAL TO 2

\*\*\*\*\*  
:TEST 6 0 1 SHIFTED BY 2 = 0 4 PS = 0  
\*\*\*\*\*

001426	010701			SCOPE		
001430	012700	000000		MOV	00,X0	;LOAD R0 WITH 0
001434	012701	000001		MOV	01,X0!1	;LOAD R0!1 WITH 1
001440	000000			CLC		
001442	070037	000002		ASHC	02,X0	;SHIFT R0,R0!1 BY 2
001446	013767	177776	013274	MOV	0#PS,PSW	;SAVE PS
001454	122767	000000	013266	CHPB	00,PSW	;IS THE PS 0?
001462	011401			BEQ	.+4	
001464	000000			HLT		;THE PS IS NOT EQUAL TO 0
001466	000000			CHP	00,X0	;IS THE RESULT 0?
001472	000000			BEQ	.+4	
001474	000000			HLT		;R0 IS NOT EQUAL TO 0
001476	012701	000004		CHP	04,X0!1	;IS THE RESULT 4?
001502	011401			BEQ	.+4	
001504	000000			HLT		;R0!1 IS NOT EQUAL TO 4



\*\*\*\*\*  
: TEST 7 0 1 SHIFTED BY 3 = 0 10 PS = 0  
\*\*\*\*\*

001506	010701			SCOPE		
001510	012700	000000		MOV	80,X0	:LOAD R0 WITH 0
001514	012701	000001		MOV	81,X0!1	:LOAD R0!1 WITH 1
001520	00241			CLC		
001522	073027	000003		ASHC	83,X0	:SHIFT R0,R0!1 BY 3
001526	013767	177776	013214	MOV	88,PS PSM	:SAVE PS
001534	122767	000000	013206	CMPB	80,PSM	:IS THE PS 0?
001540	001401			BEG	.+4	
001544	000000			HLT		:THE PS IS NOT EQUAL TO 0
001546	022700	000000		CMP	80,X0	:IS THE RESULT 0?
001550	001401			BEG	.+4	
001554	000000			HLT		:R0 IS NOT EQUAL TO 0
001556	022701	000010		CMP	810,X0!1	:IS THE RESULT 10?
001562	001401			BEG	.+4	
001564	000000			HLT		:R0!1 IS NOT EQUAL TO 10

\*\*\*\*\*  
: TEST 10 0 1 SHIFTED BY 4 = 0 20 PS = 0  
\*\*\*\*\*

001566	010701			SCOPE		
001570	012700	000000		MOV	80,X0	:LOAD R0 WITH 0
001574	012701	000001		MOV	81,X0!1	:LOAD R0!1 WITH 1
001600	00241			CLC		
001602	073027	000004		ASHC	84,X0	:SHIFT R0,R0!1 BY 4
001606	013767	177776	013134	MOV	88,PS PSM	:SAVE PS
001614	122767	000000	013126	CMPB	80,PSM	:IS THE PS 0?
001622	001401			BEG	.+4	
001624	000000			HLT		:THE PS IS NOT EQUAL TO 0
001626	022700	000000		CMP	80,X0	:IS THE RESULT 0?
001632	001401			BEG	.+4	
001634	000000			HLT		:R0 IS NOT EQUAL TO 0
001636	022701	000020		CMP	820,X0!1	:IS THE RESULT 20?
001642	001401			BEG	.+4	
001644	000000			HLT		:R0!1 IS NOT EQUAL TO 20

\*\*\*\*\*  
:TEST 11 0 1 SHIFTED BY 5 = 0 40 PS = 0  
\*\*\*\*\*

001646	010701			SCOPE		
001650	012700	000000		MOV	80,X0	;LOAD R0 WITH 0
001654	012701	000001		MOV	81,X0!1	;LOAD R0!1 WITH 1
001660	000241			CLC		
001662	073027	000005		ASHC	85,X0	;SHIFT R0,R0!1 BY 5
001666	013767	177776	013054	MOV	28PS,PSH	;SAVE PS
001674	122767	000000	013046	CHPB	80,PSH	;IS THE PS 0?
001702	001401			BEQ	.+4	
001704	012700			HLT		;THE PS IS NOT EQUAL TO 0
001706	012700	000000		CHP	80,X0	;IS THE RESULT 0?
001712	012700			BEQ	.+4	
001714	012700			HLT		;R0 IS NOT EQUAL TO 0
001716	012701	000040		CHP	840,X0!1	;IS THE RESULT 40?
001722	001401			BEQ	.+4	
001724	000000			HLT		;R0!1 IS NOT EQUAL TO 40

\*\*\*\*\*  
:TEST 12 0 1 SHIFTED BY 6 = 0 100 PS = 0  
\*\*\*\*\*

001726	010701			SCOPE		
001730	012700	000000		MOV	80,X0	;LOAD R0 WITH 0
001734	012701	000001		MOV	81,X0!1	;LOAD R0!1 WITH 1
001740	000241			CLC		
001742	073027	000006		ASHC	86,X0	;SHIFT R0,R0!1 BY 6
001746	013767	177776	012774	MOV	28PS,PSH	;SAVE PS
001754	122767	000000	012766	CHPB	80,PSH	;IS THE PS 0?
001762	001401			BEQ	.+4	
001764	012700			HLT		;THE PS IS NOT EQUAL TO 0
001766	012700	000000		CHP	80,X0	;IS THE RESULT 0?
001772	001401			BEQ	.+4	
001774	012700			HLT		;R0 IS NOT EQUAL TO 0
001776	012701	000100		CHP	8100,X0!1	;IS THE RESULT 100?
002002	001401			BEQ	.+4	
002004	000000			HLT		;R0!1 IS NOT EQUAL TO 100

K01

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:TEST 13 0 1 SHIFTED BY 7 = 0 200 PS = 0  
\*\*\*\*\*

002006	010701			SCOPE		
002010	012700	000000		MOV	00,X0	;LOAD R0 WITH 0
002014	012701	000001		MOV	01,X0!1	;LOAD R0!1 WITH 1
002020	000241			CLC		
002022	073027	000007		ASHC	07,X0	;SHIFT R0,R0!1 BY 7
002026	013767	177776	012714	MOV	00PS,PSW	;SAVE PS
002034	122767	000000	012706	CMPB	00,PSW	;IS THE PS 0?
002042	001401			BEG	.+4	
002044	000000			HLT		;THE PS IS NOT EQUAL TO 0
002046	022700	000000		CMP	00,X0	;IS THE RESULT 0?
002050	001401			BEG	.+4	
002054	000000			HLT		;R0 IS NOT EQUAL TO 0
002056	022701	000200		CMP	0200,X0!1	;IS THE RESULT 200?
002062	001401			BEG	.+4	
002064	000000			HLT		;R0!1 IS NOT EQUAL TO 200

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:TEST 14 0 1 SHIFTED BY 10 = 0 400 PS = 0  
\*\*\*\*\*

002066	010701			SCOPE		
002070	012700	000000		MOV	00,X0	;LOAD R0 WITH 0
002074	012701	000001		MOV	01,X0!1	;LOAD R0!1 WITH 1
002100	000241			CLC		
002102	073027	000010		ASHC	010,X0	;SHIFT R0,R0!1 BY 10
002106	013767	177776	012634	MOV	00PS,PSW	;SAVE PS
002114	122767	000000	012626	CMPB	00,PSW	;IS THE PS 0?
002122	001401			BEG	.+4	
002124	000000			HLT		;THE PS IS NOT EQUAL TO 0
002126	022700	000000		CMP	00,X0	;IS THE RESULT 0?
002132	001401			BEG	.+4	
002134	000000			HLT		;R0 IS NOT EQUAL TO 0
002136	022701	000400		CMP	0400,X0!1	;IS THE RESULT 400?
002142	001401			BEG	.+4	
002144	000000			HLT		;R0!1 IS NOT EQUAL TO 400

\*\*\*\*\*  
:TEST 15 0 1 SHIFTED BY 11 = 0 1000 PS = 0  
\*\*\*\*\*

002146	010701			SCOPE		
002150	012700	000000		MOV	#0, %0	;LOAD R0 WITH 0
002154	012701	000001		MOV	#1, %0!1	;LOAD R0!1 WITH 1
002160	000241			CLC		
002162	073027	000011		ASHC	#11, %0	;SHIFT R0, R0!1 BY 11
002166	013767	177776	012554	MOV	2#PS, PSW	;SAVE PS
002174	122767	000000	012546	CMPB	#0, PSW	;IS THE PS 0?
002202	001401			BEQ	+.4	
002204	000000			HLT		;THE PS IS NOT EQUAL TO 0
002206	022700	000000		CMP	#0, %0	;IS THE RESULT 0?
002212	001401			BEQ	+.4	
002214	000000			HLT		;R0 IS NOT EQUAL TO 0
002216	022701	001000		CMP	#1000, %0!1	;IS THE RESULT 1000?
002222	001401			BEQ	+.4	
002224	000000			HLT		;R0!1 IS NOT EQUAL TO 1000

\*\*\*\*\*  
:TEST 16 0 1 SHIFTED BY 12 = 0 2000 PS = 0  
\*\*\*\*\*

002226	010701			SCOPE		
002230	012700	000000		MOV	#0, %0	;LOAD R0 WITH 0
002234	012701	000001		MOV	#1, %0!1	;LOAD R0!1 WITH 1
002240	000241			CLC		
002242	073027	000012		ASHC	#12, %0	;SHIFT R0, R0!1 BY 12
002246	013767	177776	012474	MOV	2#PS, PSW	;SAVE PS
002254	122767	000000	012466	CMPB	#0, PSW	;IS THE PS 0?
002258	001401			BEQ	+.4	
002262	000000			HLT		;THE PS IS NOT EQUAL TO 0
002266	022700	000000		CMP	#0, %0	;IS THE RESULT 0?
002272	001401			BEQ	+.4	
002274	000000			HLT		;R0 IS NOT EQUAL TO 0
002276	022701	002000		CMP	#2000, %0!1	;IS THE RESULT 2000?
002302	001401			BEQ	+.4	
002304	000000			HLT		;R0!1 IS NOT EQUAL TO 2000

\*\*\*\*\*  
:TEST 17 0 1 SHIFTED BY 13 = 0 4000 PS = 0  
\*\*\*\*\*

002306	010701			SCOPE		
002310	012700	000000		MOV	#0,%0	;LOAD R0 WITH 0
002314	012701	000001		MOV	#1,%0!1	;LOAD R0!1 WITH 1
002320	000241			CLC		
002322	073027	000013		ASHC	#13,%0	;SHIFT R0,R0!1 BY 13
002326	013767	177776	012414	MOV	2#PS,PSW	;SAVE PS
002334	122767	000000	012406	CMPB	#0,PSW	;IS THE PS 0?
002342	001401			BEQ	+.4	
002344	000000			HLT		;THE PS IS NOT EQUAL TO 0
002346	022700	000000		CMP	#0,%0	;IS THE RESULT 0?
002352	001401			BEQ	+.4	
002354	000000			HLT		;R0 IS NOT EQUAL TO 0
002356	022701	004000		CMP	#4000,%0!1	;IS THE RESULT 4000?
002362	001401			BEQ	+.4	
002364	000000			HLT		;R0!1 IS NOT EQUAL TO 4000

\*\*\*\*\*  
:TEST 20 0 1 SHIFTED BY 14 = 0 10000 PS = 0  
\*\*\*\*\*

002366	010701			SCOPE		
002370	012700	000000		MOV	#0,%0	;LOAD R0 WITH 0
002374	012701	000001		MOV	#1,%0!1	;LOAD R0!1 WITH 1
002400	000241			CLC		
002402	073027	000014		ASHC	#14,%0	;SHIFT R0,R0!1 BY 14
002406	013767	177776	012334	MOV	2#PS,PSW	;SAVE PS
002414	122767	000000	012326	CMPB	#0,PSW	;IS THE PS 0?
002422	001401			BEQ	+.4	
002424	000000			HLT		;THE PS IS NOT EQUAL TO 0
002426	0 2700	000000		CMP	#0,%0	;IS THE RESULT 0?
002432	0 1401			BEQ	+.4	
002434	0 2700			HLT		;R0 IS NOT EQUAL TO 0
002436	0 2701	010000		CMP	#10000,%0!1	;IS THE RESULT 10000?
002442	001401			BEQ	+.4	
002444	000000			HLT		;R0!1 IS NOT EQUAL TO 10000

\*\*\*\*\*  
:TEST 21 0 1 SHIFTED BY 15 = 0 20000 PS = 0  
:\*\*\*\*\*

002446	010701			SCOPE		
002450	012700	000000		MOV	00,X0	;LOAD R0 WITH 0
002454	012701	000001		MOV	01,X0!1	;LOAD R0!1 WITH 1
002460	000241			CLC		
002462	073027	000015		ASHC	015,X0	;SHIFT R0,R0!1 BY 15
002466	013767	177776	012254	MOV	0#PS,PSW	;SAVE PS
002474	122767	000000	012246	CMPB	00,PSW	;IS THE PS 0?
002478	001401			BEQ	+.4	
002484	000000			HLT		;THE PS IS NOT EQUAL TO 0
002486	022700	000000		CMP	00,X0	;IS THE RESULT 0?
002492	001401			BEQ	+.4	
002504	000000			HLT		;R0 IS NOT EQUAL TO 0
002516	022701	020000		CMP	020000,X0!1	;IS THE RESULT 20000?
002522	001401			BEQ	+.4	
002524	000000			HLT		;R0!1 IS NOT EQUAL TO 20000

\*\*\*\*\*  
:TEST 22 0 1 SHIFTED BY 16 = 0 40000 PS = 0  
:\*\*\*\*\*

002526	010701			SCOPE		
002530	012700	000000		MOV	00,X0	;LOAD R0 WITH 0
002534	012701	000001		MOV	01,X0!1	;LOAD R0!1 WITH 1
002540	000241			CLC		
002542	073027	000016		ASHC	016,X0	;SHIFT R0,R0!1 BY 16
002546	013767	177776	012174	MOV	0#PS,PSW	;SAVE PS
002554	122767	000000	012166	CMPB	00,PSW	;IS THE PS 0?
002562	001401			BEQ	+.4	
002564	000000			HLT		;THE PS IS NOT EQUAL TO 0
002566	022700	000000		CMP	00,X0	;IS THE RESULT 0?
002572	001401			BEQ	+.4	
002574	000000			HLT		;R0 IS NOT EQUAL TO 0
002576	022701	040000		CMP	040000,X0!1	;IS THE RESULT 40000?
002582	001401			BEQ	+.4	
002604	000000			HLT		;R0!1 IS NOT EQUAL TO 40000

\*\*\*\*\*  
:TEST 23 0 1 SHIFTED BY 17 = 0 100000 PS = 0  
:\*\*\*\*\*

002606	010701			SCOPE		
002610	012700	000000		MOV	00,X0	;LOAD R0 WITH 0
002614	012701	000001		MOV	01,X0!1	;LOAD R0!1 WITH 1
002620	000241			CLC		
002622	073027	000017		ASHC	017,X0	;SHIFT R0,R0!1 BY 17
002626	013767	177776	012114	MOV	00PS,PSH	;SAVE PS
002634	122767	000000	012106	CMPB	00,PSH	;IS THE PS 0?
002642	001401			BEQ	+.4	
002644	000000			HLT		;THE PS IS NOT EQUAL TO 0
002646	022700	000000		CMP	00,X0	;IS THE RESULT 0?
002650	001401			BEQ	+.4	
002654	000000			HLT		;R0 IS NOT EQUAL TO 0
002656	022701	100000		CMP	0100000,X0!1	;IS THE RESULT 100000?
002662	001401			BEQ	+.4	
002664	000000			HLT		;R0!1 IS NOT EQUAL TO 100000

\*\*\*\*\*  
:TEST 24 0 1 SHIFTED BY 20 = 1 0 PS = 0  
:\*\*\*\*\*

002666	010701			SCOPE		
002670	012700	000000		MOV	00,X0	;LOAD R0 WITH 0
002674	012701	000001		MOV	01,X0!1	;LOAD R0!1 WITH 1
002700	000241			CLC		
002702	073027	000020		ASHC	020,X0	;SHIFT R0,R0!1 BY 20
002706	013767	177776	012034	MOV	00PS,PSH	;SAVE PS
002714	122767	000000	012026	CMPB	00,PSH	;IS THE PS 0?
002722	001401			BEQ	+.4	
002724	000000			HLT		;THE PS IS NOT EQUAL TO 0
002726	022700	000001		CMP	01,X0	;IS THE RESULT 1?
002732	001401			BEQ	+.4	
002734	000000			HLT		;R0 IS NOT EQUAL TO 1
002736	022701	000000		CMP	00,X0!1	;IS THE RESULT 0?
002742	001401			BEQ	+.4	
002744	000000			HLT		;R0!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 25 0 1 SHIFTED BY 21 = 2 0 PS = 0  
\*\*\*\*\*

002746	010701			SCOPE		
012750	012700	000000		MOV	00,X0	:LOAD R0 WITH 0
002754	012701	000001		MOV	01,X0!1	:LOAD R0!1 WITH 1
002760	000241			CLC		
002762	073027	000021		RSHC	021,X0	:SHIFT R0,R0!1 BY 21
002766	013767	177776	011754	PSW	00,PSW	:SAVE PS
012774	122767	000000	011746	PSW	00,PSW	:IS THE PS 0?
003002	001401			.+4		
003004	000000					
003006	072700	000002		02,X0		:THE PS IS NOT EQUAL TO 0
003012	001401			.+4		:IS THE RESULT 2?
003014	000000					
003016	022701	000000		00,X0!1		:R0 IS NOT EQUAL TO 2
003022	001401			.+4		:IS THE RESULT 0?
003024	000000					:R0!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 26 0 1 SHIFTED BY 22 = 4 0 PS = 0  
\*\*\*\*\*

003026	010701			SCOPE		
003030	012700	000000		MOV	00,X0	:LOAD R0 WITH 0
003034	012701	000001		MOV	01,X0!1	:LOAD R0!1 WITH 1
003040	000241			CLC		
003042	073027	000022		RSHC	022,X0	:SHIFT R0,R0!1 BY 22
003046	013767	177776	011674	PSW	00,PSW	:SAVE PS
003054	122767	000000	011666	PSW	00,PSW	:IS THE PS 0?
003062	001401			.+4		
003064	000000					
003066	022700	000004		04,X0		:THE PS IS NOT EQUAL TO 0
003072	001401			.+4		:IS THE RESULT 4?
003074	000000					
003076	022701	000000		00,X0!1		:R0 IS NOT EQUAL TO 4
003102	001401			.+4		:IS THE RESULT 0?
003104	000000					:R0!1 IS NOT EQUAL TO 0



\*\*\*\*\*  
:TEST 27 0 1 SHIFTED BY 23 = 10 0 PS = 0  
\*\*\*\*\*

003106	010701			SCOPE		
003110	012700	000000		MOV	80,XD	:LOAD R0 WITH 0
003116	012701	000001		MOV	81,XD!1	:LOAD R0!1 WITH 1
003120	000241			CLC		
003127	073027	000023		ASHC	823,XD	:SHIFT R0,R0!1 BY 23
003130	012700	177776	011614	MOV	80,PS	:SAVE PS
003137	122700	000000	011606	MOV	80,PS	:IS THE PS 0?
003140	001401			.+4		
003145	000000					:THE PS IS NOT EQUAL TO 0
003150	022700	000010		MOV	810,XD	:IS THE RESULT 10?
003151	001401			.+4		
003155	000000					:R0 IS NOT EQUAL TO 10
003159	022701	000000		MOV	80,XD!1	:IS THE RESULT 0?
003162	001401			.+4		
003164	000000					:R0!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 30 0 1 SHIFTED BY 24 = 20 0 PS = 0  
\*\*\*\*\*

003166	010701			SCOPE		
003170	012700	000000		MOV	80,XD	:LOAD R0 WITH 0
003176	012701	000001		MOV	81,XD!1	:LOAD R0!1 WITH 1
003180	000241			CLC		
003187	073027	000024		ASHC	824,XD	:SHIFT R0,R0!1 BY 24
003190	012700	177776	011534	MOV	80,PS	:SAVE PS
003197	122700	000000	011526	MOV	80,PS	:IS THE PS 0?
003200	001401			.+4		
003205	000000					:THE PS IS NOT EQUAL TO 0
003210	022700	000020		MOV	820,XD	:IS THE RESULT 20?
003211	001401			.+4		
003215	000000					:R0 IS NOT EQUAL TO 20
003220	022701	000000		MOV	80,XD!1	:IS THE RESULT 0?
003223	001401			.+4		
003224	000000					:R0!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 31 0 1 SHIFTED BY 25 = 40 0 PS = 0  
\*\*\*\*\*

003246	010701			SCOPE		
003248	012700	000000		MOV	80,XD	:LOAD R0 WITH 0
003250	012701	000001		MOV	81,XD!1	:LOAD R0!1 WITH 1
003260	000241			CLC		
003262	073027	000025		ASHC	825,XD	:SHIFT R0,R0!1 BY 25
003264	013767	177776	011454	MOV	88PS,PSM	:SAVE PS
003274	122767	000000	011446	CHPB	80,PSM	:IS THE PS 0?
003302	001401			BEG	.+4	
003304	000000			HLT		:THE PS IS NOT EQUAL TO 0
003306	022700	000040		CHP	840,XD	:IS THE RESULT 40?
003312	001401			BEG	.+4	
003314	000000			HLT		:R0 IS NOT EQUAL TO 40
003316	022701	000000		CHP	80,XD!1	:IS THE RESULT 0?
003322	001401			BEG	.+4	
003324	000000			HLT		:R0!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 32 0 1 SHIF ED BY 26 = 100 0 PS = 0  
\*\*\*\*\*

003326	010701			SCOPE		
003330	012700	000000		MOV	80,XD	:LOAD R0 WITH 0
003334	012701	000001		MOV	81,XD!1	:LOAD R0!1 WITH 1
003340	000241			CLC		
003342	073027	000026		ASHC	826,XD	:SHIFT R0,R0!1 BY 26
003346	013767	177776	011374	MOV	88PS,PSM	:SAVE PS
003354	122767	000000	011366	CHPB	80,PSM	:IS THE PS 0?
003362	001401			BEG	.+4	
003364	000000			HLT		:THE PS IS NOT EQUAL TO 0
003366	022700	000100		CHP	8100,XD	:IS THE RESULT 100?
003372	001401			BEG	.+4	
003374	000000			HLT		:R0 IS NOT EQUAL TO 100
003376	022701	000000		CHP	80,XD!1	:IS THE RESULT 0?
003402	001401			BEG	.+4	
003404	000000			HLT		:R0!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 33 0 1 SHIFTED BY 27 = 200 0 PS = 0  
\*\*\*\*\*

003406 010701  
003410 012700 000000  
003414 012701 000001  
003420 000000  
003424 073 27 000027  
003428 013 67 177776 011314  
003432 122767 000000 011306  
003436 001401  
003440 000000  
003444 000200  
003448 001401  
003452 000000  
003456 022701 000000  
003460 001401  
003464 000000

SCOPE  
MOV 80,XD ;LOAD R0 WITH 0  
MOV 01,XD!1 ;LOAD R0!1 WITH 1  
CLC ;  
RSHC 830,XD ;SHIFT R0,R0!1 BY 27  
MOV 01,PS,PSM ;SAVE PS  
CHPB 80,PSM ;IS THE PS 0?  
HLT ;+  
;THE PS IS NOT EQUAL TO 0  
;IS THE RESULT 200?  
CHPB 8200,XD  
HLT ;+  
;R0 IS NOT EQUAL TO 200  
;IS THE RESULT 0?  
CHPB 80,XD!1  
HLT ;+  
;R0!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 34 0 1 SHIFTED BY 30 = 400 0 PS = 0  
\*\*\*\*\*

003466 010701  
003470 012700 000000  
003474 012701 000001  
003480 000241  
003484 073 27 000030  
003488 013 67 177776 011234  
003492 122767 000000 011226  
003496 001401  
003500 000000  
003504 000400  
003508 001401  
003512 000000  
003516 022701 000000  
003520 001401  
003524 000000  
003528 022701 000000  
003532 001401  
003536 000000

SCOPE  
MOV 80,XD ;LOAD R0 WITH 0  
MOV 01,XD!1 ;LOAD R0!1 WITH 1  
CLC ;  
RSHC 830,XD ;SHIFT R0,R0!1 BY 30  
MOV 01,PS,PSM ;SAVE PS  
CHPB 80,PSM ;IS THE PS 0?  
HLT ;+  
;THE PS IS NOT EQUAL TO 0  
;IS THE RESULT 400?  
CHPB 8400,XD  
HLT ;+  
;R0 IS NOT EQUAL TO 400  
;IS THE RESULT 0?  
CHPB 80,XD!1  
HLT ;+  
;R0!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 35 0 1 SHIFTED BY 31 = 1000 0 PS = 0  
\*\*\*\*\*

003516 010701  
003518 012700 000000  
003520 012701 000001  
003522 000241  
003524 073027 000031  
003526 013767 177776 011154  
003528 122767 000000 011146  
003530 001401  
003532 000000  
003534 022700 001000  
003536 001401  
003538 000000  
003540 022701 000000  
003542 001401  
003544 000000

SCOPE  
MOV 00,XD ;LOAD RD WITH 0  
MOV 01,XD!1 ;LOAD RD!1 WITH 1  
CLC  
RSHC 031,XD ;SHIFT RD,RD!1 BY 31  
MOV 00,PS,PSM ;SAVE PS  
CMPB 00,PSM ;IS THE PS 0?  
BEQ .+4  
HLT ;THE PS IS NOT EQUAL TO 0  
CMP 01000,XD ;IS THE RESULT 1000?  
BEQ .+4  
HLT ;RD IS NOT EQUAL TO 1000  
CMP 00,XD!1 ;IS THE RESULT 0?  
BEQ .+4  
HLT ;RD!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 36 0 1 SHIFTED BY 32 = 2000 0 PS = 0  
\*\*\*\*\*

003626 010701  
003628 012700 000000  
003630 012701 000001  
003632 000041  
003634 073027 000032 011074  
003636 013767 177776 011066  
003638 122767 000000  
003640 001401  
003642 000000  
003644 022700 002000  
003646 001401  
003648 000000  
003650 022701 000000  
003652 001401  
003654 000000

SCOPE  
MOV 00,XD ;LOAD RD WITH 0  
MOV 01,XD!1 ;LOAD RD!1 WITH 1  
CLC  
RSHC 032,XD ;SHIFT RD,RD!1 BY 32  
MOV 00,PS,PSM ;SAVE PS  
CMPB 00,PSM ;IS THE PS 0?  
BEQ .+4  
HLT ;THE PS IS NOT EQUAL TO 0  
CMP 02000,XD ;IS THE RESULT 2000?  
BEQ .+4  
HLT ;RD IS NOT EQUAL TO 2000  
CMP 00,XD!1 ;IS THE RESULT 0?  
BEQ .+4  
HLT ;RD!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 37 0 1 SHIFTED BY 33 = 4000 0 PS = 0  
:\*\*\*\*\*

003706	010701			SCOPE		
003710	012700	000000		MOV	80,XD	:LOAD R0 WITH 0
003714	012701	000001		MOV	81,XD!1	:LOAD R0!1 WITH 1
003718	012702			CLC		
003722	012703	000033		ASHC	833,XD	:SHIFT R0,R0!1 BY 33
003726	012704	177776	011014	MOV	80,PS	:SAVE PS
003730	012705	000000	011006	CHP	80,PS	:IS THE PS 0?
003734	012706			HLT	.+4	
003738	012707			HLT		:THE PS IS NOT EQUAL TO 0
003742	012708	004000		CHP	84000,XD	:IS THE RESULT 4000?
003746	012709			HLT	.+4	
003750	012710			HLT		:R0 IS NOT EQUAL TO 4000
003754	012711	000000		CHP	80,XD!1	:IS THE RESULT 0?
003758	012712			HLT	.+4	
003762	000000			HLT		:R0!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 40 0 1 SHIFTED BY 34 = 10000 0 PS = 0  
:\*\*\*\*\*

003766	010701			SCOPE		
003770	012700	000000		MOV	80,XD	:LOAD R0 WITH 0
003774	012701	000001		MOV	81,XD!1	:LOAD R0!1 WITH 1
003778	012702			CLC		
003782	012703	000034		ASHC	834,XD	:SHIFT R0,R0!1 BY 34
003786	012704	177776	010734	MOV	80,PS	:SAVE PS
003790	012705	000000	010726	CHP	80,PS	:IS THE PS 0?
003794	012706			HLT	.+4	
003798	012707			HLT		:THE PS IS NOT EQUAL TO 0
003802	012708	010000		CHP	810000,XD	:IS THE RESULT 10000?
003806	012709			HLT	.+4	
003810	012710			HLT		:R0 IS NOT EQUAL TO 10000
003814	012711	000000		CHP	80,XD!1	:IS THE RESULT 0?
003818	012712			HLT	.+4	
004044	000000			HLT		:R0!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
: TEST 41 0 1 SHIFTED BY 35 = 20000 0 PS = 0  
\*\*\*\*\*

```
004046 010701 000000  
004104 012700 000001  
004162 012701 000005  
004220 012702 17116 010654  
004278 000000 010646  
004336 020000  
004394 001401  
004452 001000  
004510 022701 000000  
004568 001401  
004626 000000
```

```
SCOPE  
MOV 80, xD ;LOAD R0 WITH 0  
MOV 81, xD!1 ;LOAD R0!1 WITH 1  
CLC ;  
P, HC 835, xD ;SHIFT R0, R0!1 BY 35  
T, V 815, PS ;SAVE PS  
C, PB 80, PS ;IS THE PS 0?  
BEQ .+4 ;THE PS IS NOT EQUAL TO 0  
HLT 82000, xD ;IS THE RESULT 20000?  
MOV 80, xD!1 ;R0 IS NOT EQUAL TO 20000  
MOV .+4 ;IS THE RESULT 0?  
HLT ;R0!1 IS NOT EQUAL TO 0
```

\*\*\*\*\*  
: TEST 42 0 1 SHIFTED BY 36 = 40000 0 PS = 0  
\*\*\*\*\*

```
004126 010701 000000  
004184 012700 000001  
004242 012701 000005  
004300 012702 17176 010674  
004358 000000 010666  
004416 040000  
004474 000000  
004532 000000  
004590 000000  
004648 000000  
004706 000000  
004764 000000
```

```
SCOPE  
MOV 80, xD ;LOAD R0 WITH 0  
MOV 81, xD!1 ;LOAD R0!1 WITH 1  
CLC ;  
P, HC 835, xD ;SHIFT R0, R0!1 BY 36  
T, V 815, PS ;SAVE PS  
C, PB 80, PS ;IS THE PS 0?  
BEQ .+4 ;THE PS IS NOT EQUAL TO 0  
HLT 84000, xD ;IS THE RESULT 40000?  
MOV 80, xD!1 ;R0 IS NOT EQUAL TO 40000  
MOV .+4 ;IS THE RESULT 0?  
HLT ;R0!1 IS NOT EQUAL TO 0
```

\*\*\*\*\*  
: TEST 43 40000 0 SHIFTED BY 177762 = 1 0 PS = 0  
: \*\*\*\*\*

004206	010701			SCOPE		
004210	012700	040000		MOV	#40000,XD	;LOAD RO WITH 40000
004214	012701	000000		MOV	RO,XD!1	;LOAD RO!1 WITH 0
004220	000241			CLC		
004222	073027	177762		ASHC	#177762,XD	;SHIFT RO,RO!1 BY 177762
004226	013267	177776	010514	MOV	#PS,PSH	;SAVE PS
004230	122767	000000	010606	CMPB	RO,PSH	;IS THE PS 0?
004234	001401			BEQ	.+4	
004238	000000			HLT		;THE PS IS NOT EQUAL TO 0
004242	022700	000001		CMP	RO,XD	;IS THE RESULT 1?
004246	001401			BEQ	.+4	
004250	000000			HLT		;RO IS NOT EQUAL TO 1
004254	022701	000000		CMP	RO,XD!1	;IS THE RESULT 0?
004258	001401			BEQ	.+4	
004264	000000			HLT		;RO!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
: TEST 44 40000 0 SHIFTED BY 177763 = 2 0 PS = 0  
: \*\*\*\*\*

004266	010701			SCOPE		
004270	012700	040000		MOV	#40000,XD	;LOAD RO WITH 40000
004274	012701	000000		MOV	RO,XD!1	;LOAD RO!1 WITH 0
004278	000241			CLC		
004282	073027	177763		ASHC	#177763,XD	;SHIFT RO,RO!1 BY 177763
004286	013267	177776	010434	MOV	#PS,PSH	;SAVE PS
004314	122767	000000	010426	CMPB	RO,PSH	;IS THE PS 0?
004322	001401			BEQ	.+4	
004326	000000			HLT		;THE PS IS NOT EQUAL TO 0
004330	022700	000002		CMP	RO,XD	;IS THE RESULT 2?
004334	001401			BEQ	.+4	
004338	000000			HLT		;RO IS NOT EQUAL TO 2
004342	022701	000000		CMP	RO,XD!1	;IS THE RESULT 0?
004346	001401			BEQ	.+4	
004344	000000			HLT		;RO!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 45 40000 0 SHIFTED BY 177764 = 4 0 PS = 0  
:\*\*\*\*\*

004346	010701			SCOPE		
004348	012700	040000		MOV	#40000,XD	;LOAD RO WITH 40000
004350	012701	000000		MOV	RO,XD!1	;LOAD RO!1 WITH 0
004352	012741			CLC		
004354	013767	177764		ASHC	#177764,XD	;SHIFT RO,RO!1 BY 177764
004356	013767	177776	010354	MOV	#PS,PSW	;SAVE PS
004358	013767	000000	010346	CHPB	RO,PSW	;IS THE PS 0?
004360	013767			BEQ	.+4	
004362	013767			HLT		;THE PS IS NOT EQUAL TO 0
004364	013767			CHP	#4,XD	;IS THE RESULT 4?
004366	013767			BEQ	.+4	
004368	013767			HLT		;RO IS NOT EQUAL TO 4
004370	013767			CHP	RO,XD!1	;IS THE RESULT 0?
004372	013767			BEQ	.+4	
004374	013767			HLT		;RO!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 46 40000 0 SHIFTED BY 177765 = 10 0 PS = 0  
:\*\*\*\*\*

004426	010701			SCOPE		
004430	012700	040000		MOV	#40000,XD	;LOAD RO WITH 40000
004434	012701	000000		MOV	RO,XD!1	;LOAD RO!1 WITH 0
004438	012741			CLC		
004442	013767	177765		ASHC	#177765,XD	;SHIFT RO,RO!1 BY 177765
004446	013767	177776	010274	MOV	#PS,PSW	;SAVE PS
004450	122767	000000	010266	CHPB	RO,PSW	;IS THE PS 0?
004454	001401			BEQ	.+4	
004458	001401			HLT		;THE PS IS NOT EQUAL TO 0
004462	001401	000010		CHP	#10,XD	;IS THE RESULT 10?
004466	001401			BEQ	.+4	
004470	001401			HLT		;RO IS NOT EQUAL TO 10
004474	001401			CHP	RO,XD!1	;IS THE RESULT 0?
004478	001401	000000		BEQ	.+4	
004502	001401			HLT		;RO!1 IS NOT EQUAL TO 0
004504	000000					



\*\*\*\*\*  
:TEST 47 40000 0 SHIFTED BY 177766 = 20 0 PS = 0  
\*\*\*\*\*

004506	010701			SCOPE		
004510	012700	040000		MOV	#40000,XD	;LOAD RO WITH 40000
004514	012701	000000		MOV	#0,XD!1	;LOAD RO!1 WITH 0
004520	000241			CLC		
004524	073037	177766		ASHC	#177766,XD	;SHIFT RO,RO!1 BY 177766
004528	013067	177776	010214	MOV	#PS,PSW	;SAVE PS
004532	122767	000000	010206	CMPB	#0,PSW	;IS THE PS 0?
004536	000000			BEQ	.+4	
004540	000020			HLT		;THE PS IS NOT EQUAL TO 0
004544	000000			CMP	#20,XD	;IS THE RESULT 20?
004548	000000			EQ	.+4	
004552	000000			HLT		;RO IS NOT EQUAL TO 20
004556	000000			CMP	#0,XD!1	;IS THE RESULT 0?
004560	000000			BEQ	.+4	
004564	000000			HLT		;RO!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 50 40000 0 SHIFTED BY 177767 = 40 0 PS = 0  
\*\*\*\*\*

004566	010701			SCOPE		
004570	012700	040000		MOV	#40000,XD	;LOAD RO WITH 40000
004574	012701	000000		MOV	#0,XD!1	;LOAD RO!1 WITH 0
004578	000241			CLC		
004582	073037	177767		ASHC	#177767,XD	;SHIFT RO,RO!1 BY 177767
004586	013067	177776	010134	MOV	#PS,PSW	;SAVE PS
004590	122767	000000	010126	CMPB	#0,PSW	;IS THE PS 0?
004594	000000			BEQ	.+4	
004598	000040			HLT		;THE PS IS NOT EQUAL TO 0
004602	000000			CMP	#40,XD	;IS THE RESULT 40?
004606	000000			BEQ	.+4	
004610	000000			HLT		;RO IS NOT EQUAL TO 40
004614	000000			CMP	#0,XD!1	;IS THE RESULT 0?
004618	000000			BEQ	.+4	
004622	000000			HLT		;RO!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 51 40000 0 SHIFTED BY 177770 = 100 0 PS = 0  
\*\*\*\*\*

004646 010701  
004648 012700 040000  
004650 012701 000000  
004652 000000  
004654 000000  
004656 000000  
004658 000000  
004660 000000  
004662 000000  
004664 000000  
004666 000000  
004668 000000  
004670 000000  
004672 000000  
004674 000000  
004676 000000  
004678 000000  
004680 000000  
004682 000000  
004684 000000  
004686 000000  
004688 000000  
004690 000000  
004692 000000  
004694 000000  
004696 000000  
004698 000000  
004700 000000  
004702 000000  
004704 000000  
004706 000000  
004708 000000  
004710 000000  
004712 000000  
004714 000000  
004716 000000  
004718 000000  
004720 000000  
004722 000000  
004724 000000

SCOPE  
MOV #40000,X0 ;LOAD RO WITH 40000  
MOV #0,X0!1 ;LOAD RO!1 WITH 0  
CLC  
RSHC #177770,X0 ;SHIFT RO,RO!1 BY 177770  
MOV @#PS,PSW ;SAVE PS  
CMPB #0,PSW ;IS THE PS 0?  
BEQ .+4  
HLT ;THE PS IS NOT EQUAL TO 0  
CMP #100,X0 ;IS THE RESULT 100?  
BEQ .+4  
HLT ;RO IS NOT EQUAL TO 100  
CMP #0,X0!1 ;IS THE RESULT 0?  
BEQ .+4  
HLT ;RO!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 52 40000 0 SHIFTED BY 177771 = 200 0 PS = 0  
\*\*\*\*\*

004726 010701  
004730 012700 040000  
004734 012701 000000  
004740 000000  
004742 073027 177771  
004746 013767 177776 007774  
004754 122767 000000 007766  
004762 001401  
004764 000000  
004766 002700 000200  
004772 001401  
004774 000000  
004776 002701 000000  
005002 001401  
005004 000000

SCOPE  
MOV #40000,X0 ;LOAD RO WITH 40000  
MOV #0,X0!1 ;LOAD RO!1 WITH 0  
CLC  
RSHC #177771,X0 ;SHIFT RO,RO!1 BY 177771  
MOV @#PS,PSW ;SAVE PS  
CMPB #0,PSW ;IS THE PS 0?  
BEQ .+4  
HLT ;THE PS IS NOT EQUAL TO 0  
CMP #200,X0 ;IS THE RESULT 200?  
BEQ .+4  
HLT ;RO IS NOT EQUAL TO 200  
CMP #0,X0!1 ;IS THE RESULT 0?  
BEQ .+4  
HLT ;RO!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 53 40000 0 SHIFTED BY 177772 = 400 0 PS = 0  
\*\*\*\*\*

005006 010701  
005007 012700 040000  
005008 012701 000000  
005009 C 41  
005010 07 37 177772  
005011 013 67 177776 007714  
005012 122767 000000 007706  
005013 C 1401  
005014 C 0  
005015 C 000400  
005016 C 0  
005017 C 0  
005018 C 0  
005019 C 0  
005020 C 0  
005021 C 0  
005022 C 0  
005023 C 0  
005024 C 0  
005025 C 0  
005026 C 0  
005027 C 0  
005028 C 0  
005029 C 0  
005030 C 0  
005031 C 0  
005032 C 0  
005033 C 0  
005034 C 0  
005035 C 0  
005036 C 0  
005037 C 0  
005038 C 0  
005039 C 0  
005040 C 0  
005041 C 0  
005042 C 0  
005043 C 0  
005044 C 0  
005045 C 0  
005046 C 0  
005047 C 0  
005048 C 0  
005049 C 0  
005050 C 0  
005051 C 0  
005052 C 0  
005053 C 0  
005054 C 0  
005055 C 0  
005056 C 0  
005057 C 0  
005058 C 0  
005059 C 0  
005060 C 0  
005061 C 0  
005062 C 0  
005063 C 0  
005064 C 0  
005065 C 0  
005066 C 0  
005067 C 0  
005068 C 0  
005069 C 0  
005070 C 0  
005071 C 0  
005072 C 0  
005073 C 0  
005074 C 0  
005075 C 0  
005076 C 0  
005077 C 0  
005078 C 0  
005079 C 0  
005080 C 0  
005081 C 0  
005082 C 0  
005083 C 0  
005084 C 0  
005085 C 0  
005086 C 0  
005087 C 0  
005088 C 0  
005089 C 0  
005090 C 0  
005091 C 0  
005092 C 0  
005093 C 0  
005094 C 0  
005095 C 0  
005096 C 0  
005097 C 0  
005098 C 0  
005099 C 0  
005100 C 0

SCOPE  
MOV #40000,XD ;LOAD RO WITH 40000  
MOV #0,XD!1 ;LOAD RO!1 WITH 0  
CLC  
ASHC #177772,XD ;SHIFT RO,RO!1 BY 177772  
MOV #PS,PSH ;SAVE PS  
CMPB #0,PSH ;IS THE PS 0?  
BEQ .+4  
HLT ;THE PS IS NOT EQUAL TO 0  
CMP #400,XD ;IS THE RESULT 400?  
BEQ .+4  
HLT ;RO IS NOT EQUAL TO 400  
CMP #0,XD!1 ;IS THE RESULT 0?  
BEQ .+4  
HLT ;RO!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 54 40000 0 SHIFTED BY 177773 = 1000 0 PS = 0  
\*\*\*\*\*

005066 010701  
005067 012700 040000  
005068 012701 000000  
005069 C 41  
005070 07 37 177773  
005071 013 67 177776 007634  
005072 122767 000000 007626  
005073 C 1401  
005074 C 0  
005075 C 001000  
005076 C 0  
005077 C 0  
005078 C 0  
005079 C 0  
005080 C 0  
005081 C 0  
005082 C 0  
005083 C 0  
005084 C 0  
005085 C 0  
005086 C 0  
005087 C 0  
005088 C 0  
005089 C 0  
005090 C 0  
005091 C 0  
005092 C 0  
005093 C 0  
005094 C 0  
005095 C 0  
005096 C 0  
005097 C 0  
005098 C 0  
005099 C 0  
005100 C 0

SCOPE  
MOV #40000,XD ;LOAD RO WITH 40000  
MOV #0,XD!1 ;LOAD RO!1 WITH 0  
CLC  
ASHC #177773,XD ;SHIFT RO,RO!1 BY 177773  
MOV #PS,PSH ;SAVE PS  
CMPB #0,PSH ;IS THE PS 0?  
BEQ .+4  
HLT ;THE PS IS NOT EQUAL TO 0  
CMP #1000,XD ;IS THE RESULT 1000?  
BEQ .+4  
HLT ;RO IS NOT EQUAL TO 1000  
CMP #0,XD!1 ;IS THE RESULT 0?  
BEQ .+4  
HLT ;RO!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 55 40000 0 SHIFTED BY 177774 = 2000 0 PS = 0  
\*\*\*\*\*

005154	010701			SCOPE		
005155	012700	040000		MOV	#40000,XD	:LOAD R0 WITH 40000
005156	012701	000000		MOV	R0,XD!1	:LOAD R0!1 WITH 0
005157	000241			CLC		
005158	073027	177774		ASMC	#177774,XD	:SHIFT R0,R0!1 BY 177774
005159	013767	177776	007554	MOV	PS,PSH	:SAVE PS
005160	122767	000000	007546	CHPB	R0,PSH	:IS THE PS 0?
005161	001401			HLT	.+4	
005162	000000					:THE PS IS NOT EQUAL TO 0
005163	022700	008000		CHPB	#2000,XD	:IS THE RESULT 2000?
005164	001401			HLT	.+4	
005165	000000					:R0 IS NOT EQUAL TO 2000
005166	022701	000000		CHPB	R0,XD!1	:IS THE RESULT 0?
005167	001401			HLT	.+4	
005168	000000					:R0!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 56 40000 0 SHIFTED BY 177775 = 4000 0 PS = 0  
\*\*\*\*\*

005273	010701			SCOPE		
005274	012700	040000		MOV	#40000,XD	:LOAD R0 WITH 40000
005275	012701	000000		MOV	R0,XD!1	:LOAD R0!1 WITH 0
005276	000241			CLC		
005277	073027	177775		ASMC	#177775,XD	:SHIFT R0,R0!1 BY 177775
005278	013767	177776	007474	MOV	PS,PSH	:SAVE PS
005279	122767	000000	007466	CHPB	R0,PSH	:IS THE PS 0?
005280	001401			HLT	.+4	
005281	000000					:THE PS IS NOT EQUAL TO 0
005282	022700	004000		CHPB	#4000,XD	:IS THE RESULT 4000?
005283	001401			HLT	.+4	
005284	000000					:R0 IS NOT EQUAL TO 4000
005285	022701	000000		CHPB	R0,XD!1	:IS THE RESULT 0?
005286	001401			HLT	.+4	
005287	000000					:R0!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
: TEST 57 40000 0 SHIFTED BY 177776 = 10000 0 PS = 0  
: \*\*\*\*\*

005306 010701 040000  
005310 012700 000000  
005314 012701 000000  
005318 012701 177776  
005322 012701 177776 007414  
005326 012701 000000 007406  
005330 012701 010000  
005334 012701 000000  
005338 012701 000000

SCOPE  
MOV #40000,XD ;LOAD RD WITH 40000  
MOV #0,XD!1 ;LOAD RD!1 WITH 0  
CLC ;  
RSHC #177776,XD ;SHIFT RD,RD!1 BY 177776  
MOV @PS,PSH ;SAVE PS  
CMPB #0,PSH ;IS THE PS 0?  
+4 ;  
HLT ;THE PS IS NOT EQUAL TO 0  
;IS THE RESULT 10000?  
+4 ;  
MOV #10000,XD ;RD IS NOT EQUAL TO 10000  
MOV #0,XD!1 ;IS THE RESULT 0?  
+4 ;  
HLT ;RD!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
: TEST 60 40000 0 SHIFTED BY 177777 = 20000 0 PS = 0  
: \*\*\*\*\*

005342 010701 040000  
005346 012700 000000  
005350 012701 000000  
005354 012701 177777  
005358 013767 177776 017334  
005362 012767 000000 017326  
005366 012701 020000  
005370 012701 000000  
005374 012701 000000  
005378 012701 000000  
005382 012701 000000

SCOPE  
MOV #40000,XD ;LOAD RD WITH 40000  
MOV #0,XD!1 ;LOAD RD!1 WITH 0  
CLC ;  
RSHC #177777,XD ;SHIFT RD,RD!1 BY 177777  
MOV @PS,PSH ;SAVE PS  
CMPB #0,PSH ;IS THE PS 0?  
+4 ;  
HLT ;THE PS IS NOT EQUAL TO 0  
;IS THE RESULT 20000?  
+4 ;  
MOV #20000,XD ;RD IS NOT EQUAL TO 20000  
MOV #0,XD!1 ;IS THE RESULT 0?  
+4 ;  
HLT ;RD!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 61 40000 0 SHIFTED BY 0 = 40000 0 PS = 0  
:\*\*\*\*\*

040000  
000000  
000000  
177776 007254  
000000 007246  
040000  
000000

007254  
007246

SCOPE  
MOV #40000,XD ;LOAD R0 WITH 40000  
MOV #0,XD!1 ;LOAD R0!1 WITH 0  
CLC ;  
RSHC #0,XD ;SHIFT R0,R0!1 BY 0  
MOV #PS,PSH ;SAVE PS  
CPSH #0,PSH ;IS THE PS 0?  
BEQ .+4 ;THE PS IS NOT EQUAL TO 0  
;IS THE RESULT 40000?  
CMP #40000,XD  
BEQ .+4 ;RO IS NOT EQUAL TO 40000  
;IS THE RESULT 0?  
HLT ;RO!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 62 40000 0 SHIFTED BY 177742 = 0 1 PS = 0  
:\*\*\*\*\*

040000  
000000  
177742  
177776 007174  
000000 007166  
000000  
000001

007174  
007166

SCOPE  
MOV #40000,XD ;LOAD R0 WITH 40000  
MOV #0,XD!1 ;LOAD R0!1 WITH 0  
CLC ;  
RSHC #177742,XD ;SHIFT R0,R0!1 BY 177742  
MOV #PS,PSH ;SAVE PS  
CPSH #0,PSH ;IS THE PS 0?  
BEQ .+4 ;THE PS IS NOT EQUAL TO 0  
;IS THE RESULT 0?  
CMP #40000,XD  
BEQ .+4 ;RO IS NOT EQUAL TO 0  
;IS THE RESULT 1?  
HLT ;RO!1 IS NOT EQUAL TO 1









\*\*\*\*\*  
TEST 71 40000 0 SHIFTED BY 177751 = 0 200 PS = 0  
\*\*\*\*\*

010701  
012700 040000  
012701 000000  
012702 177751  
012703 177751 006454  
012704 000000 006456  
012705 000000  
012706 000000  
012707 000000  
012708 000000  
012709 000000  
012710 000000

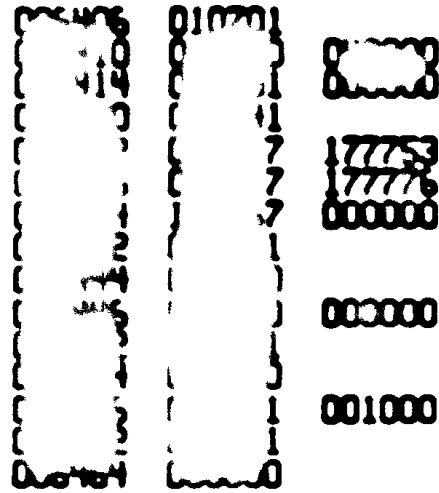
SCOPE  
040000,XD ;LOAD RD WITH 40000  
RD,XD!1 ;LOAD RD!1 WITH 0  
0177751,XD ;SHIFT RD,RD!1 BY 177751  
0PS,PSH ;E PS  
RD,PSH ;IS THE PS 0?  
.+ ;THE PS IS NOT EQUAL TO 0  
RD,XD ;IS THE RESULT 0?  
.+ ;RD IS NOT EQUAL TO 0  
0200,XD!1 ;IS THE RESULT 200?  
.+ ;RD!1 IS NOT EQUAL TO 200

\*\*\*\*\*  
TEST 72 40000 0 SHIFTED BY 177752 = 0 400 PS = 0  
\*\*\*\*\*

010701  
012700 040000  
012701 000000  
012702 177752  
012703 177752 016374  
012704 000000 006366  
012705 000000  
012706 000000  
012707 000400  
012708 000000  
012709 000000  
012710 000000

SCOPE  
040000,XD ;LOAD RD WITH 40000  
RD,XD!1 ;LOAD RD!1 WITH 0  
0177752,XD ;SHIFT RD,RD!1 BY 177752  
0PS,PSH ;E PS  
RD,PSH ;IS THE PS 0?  
.+ ;THE PS IS NOT EQUAL TO 0  
RD,XD ;IS THE RESULT 0?  
.+ ;RD IS NOT EQUAL TO 0  
0400,XD!1 ;IS THE RESULT 400?  
.+ ;RD!1 IS NOT EQUAL TO 400

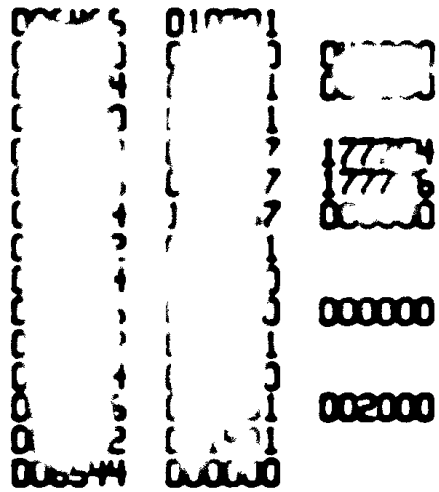
\*\*\*\*\*  
:TEST 73 40000 SHIFTED BY 177753 = 0 1000 PS = 0  
\*\*\*\*\*



000000  
001000

SCOPE  
 LOAD RD WITH 40000  
 LOAD RD!1 WITH 0  
 SHIFT RD, RD!1 BY 177753  
 SET PS  
 IS THE PS 0?  
 THE PS IS NOT EQUAL TO 0  
 IS THE RESULT 0?  
 RD IS NOT EQUAL TO 0  
 IS THE RESULT 1000?  
 RD!1 IS NOT EQUAL TO 1000

\*\*\*\*\*  
:T 174 4 0 0 SHIFTED BY 177754 = 0 2000 PS = 0  
\*\*\*\*\*



000000  
002000

SCOPE  
 LOAD RD WITH 40000  
 LOAD RD!1 WITH 0  
 SHIFT RD, RD!1 BY 177754  
 SET PS  
 IS THE PS 0?  
 THE PS IS NOT EQUAL TO 0  
 IS THE RESULT 0?  
 RD IS NOT EQUAL TO 0  
 IS THE RESULT 2000?  
 RD!1 IS NOT EQUAL TO 2000

\*\*\*\*\*  
:TEST 75 40000 0 SHIFTED BY 177755 = 0 4000 PS = 0  
\*\*\*\*\*

006546  
010701  
012700  
000000  
177755  
177776 006154  
000000 006146  
000000  
004000

SCOPE  
MOV 040000,X0 ;LOAD R0 WITH 40000  
MOV 00,X0!1 ;LOAD R0!1 WITH 0  
CLC  
RSHC 0177755,X0 ;SHIFT R0,R0!1 BY 177755  
MOV 00PS,PSH ;SAVE PS  
CHPB 00,PSH ;IS THE PS 0?  
HLT .+4  
CHP 00,X0 ;THE PS IS NOT EQUAL TO 0  
BEQ .+4 ;IS THE RESULT 0?  
HLT  
CHP 04000,X0!1 ;R0 IS NOT EQUAL TO 0  
BEQ .+4 ;IS THE RESULT 4000?  
HLT ;R0!1 IS NOT EQUAL TO 4000

\*\*\*\*\*  
:TEST 76 40000 0 SHIFTED BY 177756 = 0 10000 PS = 0  
\*\*\*\*\*

006704  
010701  
012700  
000000  
177756  
177776 006074  
000000 006066  
000000  
010000

SCOPE  
MOV 040000,X0 ;LOAD R0 WITH 40000  
MOV 00,X0!1 ;LOAD R0!1 WITH 0  
CLC  
RSHC 0177756,X0 ;SHIFT R0,R0!1 BY 177756  
MOV 00PS,PSH ;SAVE PS  
CHPB 00,PSH ;IS THE PS 0?  
HLT .+4  
CHP 00,X0 ;THE PS IS NOT EQUAL TO 0  
BEQ .+4 ;IS THE RESULT 0?  
HLT  
CHP 010000,X0!1 ;R0 IS NOT EQUAL TO 0  
BEQ .+4 ;IS THE RESULT 10000?  
HLT ;R0!1 IS NOT EQUAL TO 10000

\*\*\*\*\*  
:TEST 77 40000 0 SHIFTED BY 177757 = 0 20000 PS = 0  
\*\*\*\*\*

006706 010701  
006710 012700 040000  
006714 012701 000000  
006720 001241  
006722 073327 177757  
006726 013767 177776 005014  
006734 122767 000000 005006  
006742 001401  
006744 000000  
006746 022700 000000  
006750 001401  
006752 000000  
006756 001401 020000  
006762 001401  
006764 000000

SCOPE  
MOV #40000,XD ;LOAD R0 WITH 40000  
MOV #0,XD!1 ;LOAD R0!1 WITH 0  
CLC  
RSHC #177757,XD ;SHIFT R0,R0!1 BY 177757  
MOV @PS,PSW ;SAVE PS  
CMP #0,PSW ;IS THE PS 0?  
BEQ .+4 ;THE PS IS NOT EQUAL TO 0  
HLT ;IS THE RESULT 0?  
MOV #0,XD ;RO IS NOT EQUAL TO 0  
CMP .+4 ;IS THE RESULT 20000?  
BEQ #20000,XD!1  
HLT ;RO!1 IS NOT EQUAL TO 20000

\*\*\*\*\*  
:TEST 100 40000 0 SHIFTED BY 177760 = 0 40000 PS = 0  
\*\*\*\*\*

006766 010701  
006770 012700 040000  
006774 012701 000000  
007000 001241  
007002 073327 177760 005734  
007006 013767 177776 005726  
007014 122767 000000  
007022 001401  
007024 000000  
007026 022700 000000  
007032 001401  
007034 000000  
007036 022701 040000  
007042 001401  
007044 000000

SCOPE  
MOV #40000,XD ;LOAD R0 WITH 40000  
MOV #0,XD!1 ;LOAD R0!1 WITH 0  
CLC  
RSHC #177760,XD ;SHIFT R0,R0!1 BY 177760  
MOV @PS,PSW ;SAVE PS  
CMP #0,PSW ;IS THE PS 0?  
BEQ .+4 ;THE PS IS NOT EQUAL TO 0  
HLT ;IS THE RESULT 0?  
MOV #0,XD ;RO IS NOT EQUAL TO 0  
CMP .+4 ;IS THE RESULT 40000?  
BEQ #40000,XD!1  
HLT ;RO!1 IS NOT EQUAL TO 40000

\*\*\*\*\*  
:TEST 101 40000 0 SHIFTED BY 177761 = 0 100000 PS = 0  
\*\*\*\*\*

007046	010701			SCOPE		
007050	012700	040000		MOV	#40000,XD	;LOAD R0 WITH 40000
007054	012701	000000		MOV	R0,XD!1	;LOAD R0!1 WITH 0
007060	000241			CLC		
007069	073027	177761		ASHC	#177761,XD	;SHIFT R0,R0!1 BY 177761
007087	013767	177776	005654	MOV	#PS,PSW	;SAVE PS
007094	122767	000000	005646	CMPB	R0,PSW	;IS THE PS 0?
007108	001401			BEG	.+4	
007109	000000			HLT		;THE PS IS NOT EQUAL TO 0
007106	022700	000000		CMP	R0,XD	;IS THE RESULT 0?
007112	001401			BEG	.+4	
007114	000000			HLT		;R0 IS NOT EQUAL TO 0
007116	022701	100000		CMP	#100000,XD!1	;IS THE RESULT 100000?
007122	001401			BEG	.+4	
007124	000000			HLT		;R0!1 IS NOT EQUAL TO 100000

\*\*\*\*\*  
:TEST 102 -1 0 SHIFTED BY -16. = -1 -1 PS = 10  
\*\*\*\*\*

007126	010701			SCOPE		
007130	012700	177777		MOV	#-1,XD	;LOAD R0 WITH -1
007134	012701	000000		MOV	R0,XD!1	;LOAD R0!1 WITH 0
007140	000241			CLC		
007142	073027	177760		ASHC	#-16,XD	;SHIFT R0,R0!1 BY -16.
007146	013767	177776	005574	MOV	#PS,PSW	;SAVE PS
007154	122767	000010	005666	CMPB	R0,PSW	;IS THE PS 10?
007162	001401			BEG	.+4	
007164	000000			HLT		;THE PS IS NOT EQUAL TO 10
007166	000000	177777		CMP	#-1,XD	;IS THE RESULT -1?
007172	001401			BEG	.+4	
007174	000000			HLT		;R0 IS NOT EQUAL TO -1
007176	012701	177777		CMP	#-1,XD!1	;IS THE RESULT -1?
007202	001401			BEG	.+4	
007204	000000			HLT		;R0!1 IS NOT EQUAL TO -1

\*\*\*\*\*  
:TEST 103 125252 0 SHIFTED BY -16. = -1 125252 PS = 10  
\*\*\*\*\*

007206 010701  
007210 012700 125252  
007214 012701 000000  
007218 012704 177760  
007222 012707 177776 005514  
007226 012707 000010 000006  
007230 012711 177777  
007234 012711 125252  
007238 012714 000000  
007242 012714 000000

SCOPE  
MOV #125252,X0 ;LOAD RO WITH 125252  
MOV #0,X0!1 ;LOAD RO!1 WITH 0  
CLC ;  
ASHC #-16,X0 ;SHIFT RO,RO!1 BY -16.  
MOV @PS,PSW ;SAVE PS  
CPSB #10,PSW ;IS THE PS 10?  
BLO .+4 ;  
HLT ;THE PS IS NOT EQUAL TO 10  
CMP #-1,X0 ;IS THE RESULT -1?  
BEQ .+4 ;  
HLT ;RO IS NOT EQUAL TO -1  
CMP #125252,X0!1 ;IS THE RESULT 125252?  
BEQ .+4 ;  
HLT ;RO!1 IS NOT EQUAL TO 125252

\*\*\*\*\*  
:TEST 104 52525 0 SHIFTED BY -16. = 0 52525 PS = 0  
\*\*\*\*\*

007256 010701  
007260 012700 052525  
007264 012701 000000  
007268 012704 177760  
007272 012707 177776 005434  
007276 012707 000000 005426  
007280 012711 000000  
007284 012711 000000  
007288 012714 052525  
007292 012714 000000  
007296 012714 000000

SCOPE  
MOV #52525,X0 ;LOAD RO WITH 52525  
MOV #0,X0!1 ;LOAD RO!1 WITH 0  
CLC ;  
ASHC #-16,X0 ;SHIFT RO,RO!1 BY -16.  
MOV @PS,PSW ;SAVE PS  
CPSB #0,PSW ;IS THE PS 0?  
BLO .+4 ;  
HLT ;THE PS IS NOT EQUAL TO 0  
CMP #0,X0 ;IS THE RESULT 0?  
BEQ .+4 ;  
HLT ;RO IS NOT EQUAL TO 0  
CMP #52525,X0!1 ;IS THE RESULT 52525?  
BEQ .+4 ;  
HLT ;RO!1 IS NOT EQUAL TO 52525

\*\*\*\*\*  
:TEST 105 100000 0 SHIFTED BY -32. = -1 -1 PS = 11  
\*\*\*\*\*

007346	010701			SCOPE		
007350	012700	100000		MOV	#100000,%0	;LOAD R0 WITH 100000
007354	012701	000000		MOV	#0,%0!1	;LOAD R0!1 WITH 0
007360	01241			CLC		
007362	073027	177740		RSHC	#-32,%0	;SHIFT R0,R0!1 BY -32.
007366	013067	177776	005354	MOV	@PS,PSW	;SAVE PS
007374	013067	000011	005346	CMPB	#11,PSW	;IS THE PS 11?
007378	013071			BEQ	.+4	
007384	013071			HLT		;THE PS IS NOT EQUAL TO 11
007386	013071	177777		CMP	#-1,%0	;IS THE RESULT -1?
007392	013071			BEQ	.+4	
007394	013071			HLT		;R0 IS NOT EQUAL TO -1
007396	013071	177777		CMP	#-1,%0!1	;IS THE RESULT -1?
007402	013071			BEQ	.+4	
007404	013071			HLT		;R0!1 IS NOT EQUAL TO -1

\*\*\*\*\*  
:TEST 106 0 -1 SHIFTED BY 15. = 77777 100000 PS = 0  
\*\*\*\*\*

007426	010701			SCOPE		
007430	012700	000000		MOV	#0,%0	;LOAD R0 WITH 0
007434	012701	177777		MOV	#-1,%0!1	;LOAD R0!1 WITH -1
007440	01241			CLC		
007442	073027	000017		RSHC	#15,%0	;SHIFT R0,R0!1 BY 15.
007446	013067	177776	005374	MOV	@PS,PSW	;SAVE PS
007454	013067	000000	005306	CMPB	#0,PSW	;IS THE PS 0?
007462	013071			BEQ	.+4	
007464	013071			HLT		;THE PS IS NOT EQUAL TO 0
007466	013071	077777		CMP	#77777,%0	;IS THE RESULT 77777?
007472	013071			BEQ	.+4	
007474	013071			HLT		;R0 IS NOT EQUAL TO 77777
007476	013071	100000		CMP	#100000,%0!1	;IS THE RESULT 100000?
007502	013071			BEQ	.+4	
007504	013071			HLT		;R0!1 IS NOT EQUAL TO 100000



\*\*\*\*\*  
:TEST 107 0 -1 SHIFTED BY 16. = -1 0 PS = 12  
:\*\*\*\*\*

007506	010701			SCOPE		
007510	012700	000000		MOV	00,x0	:LOAD RO WITH 0
007514	012701	177777		MOV	0-1,x0!1	:LOAD RO!1 WITH -1
007520	000241			CLC		
007524	073027	000020		RSHC	016,x0	:SHIFT RO,RO!1 BY 16.
007528	013767	177776	005214	MOV	0!PS,PSH	:SAVE PS
007532	122767	000012	005206	CHPB	012,PSH	:IS THE PS 12?
007536	001401			BEG	.+4	
007540	000000			HLT		
007544	000000					
007548	000000	177777			0-1,x0	:THE PS IS NOT EQUAL TO 12
007552	001401				.+4	:IS THE RESULT -1?
007556	000000					
007560	022701	000000			00,x0!1	:RO IS NOT EQUAL TO -1
007564	001401				.+4	:IS THE RESULT 0?
007568	000000					:RO!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 110 100000 -2 SHIFT BY 15. = 77777 0 PS = 2  
:\*\*\*\*\*

007566	010701			SCOPE		
007570	012700	100000		MOV	100000,x0	:LOAD RO WITH 100000
007574	012701	177776		MOV	1-2,x0!1	:LOAD RO!1 WITH -2
007600	000241			CLC		
007602	073027	000017		RSHC	015,x0	:SHIFT RO,RO!1 BY 15.
007606	013767	177776	005134	MOV	0!PS,PSH	:SAVE PS
007614	122767	000002	005126	CHPB	02,PSH	:IS THE PS 2?
007622	001401			BEG	.+4	
007624	000000			HLT		
007626	022700	077777			077777,x0	:THE PS IS NOT EQUAL TO 2
007632	001401				.+4	:IS THE RESULT 77777?
007634	000000					
007636	022701	000000			00,x0!1	:RO IS NOT EQUAL TO 77777
007642	001401				.+4	:IS THE RESULT 0?
007644	000000					:RO!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 111 0 125252 SHIFTED BY 15. = 52525 0 PS = 0  
:\*\*\*\*\*

007646 010701  
007648 012700 000000  
007650 012701 125252  
007666 000000  
007668 000017  
007670 177776 005054  
007672 000000 005046  
007702 01401  
007704 000000  
007706 052525  
007712 01401  
007714 000000  
007716 000000  
007722 001401  
007724 000000

SCOPE  
MOV R0,X0 ;LOAD R0 WITH 0  
MOV R0!1,125252,X0!1 ;LOAD R0!1 WITH 125252  
CLC ;  
RSHC R15,X0 ;SHIFT R0,R0!1 BY 15.  
MOV RPS,PSN ;SAVE PS  
CMP R0,PSN ;IS THE PS 0?  
HLT ;  
RSHC R0,PSN ;THE PS IS NOT EQUAL TO 0  
HLT ;IS THE RESULT 52525?  
RSHC R0,X0!1 ;R0 IS NOT EQUAL TO 52525  
HLT ;IS THE RESULT 0?  
RSHC R0,X0!1 ;R0!1 IS NOT EQUAL TO 0  
HLT

\*\*\*\*\*  
:TEST 112 0 125252 SHIFTED BY 16. = 125252 0 PS = 12  
:\*\*\*\*\*

007726 010701  
007730 012700 000000  
007734 012701 125252  
007740 000000  
007742 073027 000020  
007746 013767 177776 004774  
007754 122767 000012 004766  
007762 001401  
007764 000000  
007766 022700 125252  
007772 001401  
007774 000000  
007776 022701 000000  
010002 001401  
010004 000000

SCOPE  
MOV R0,X0 ;LOAD R0 WITH 0  
MOV R0!1,125252,X0!1 ;LOAD R0!1 WITH 125252  
CLC ;  
RSHC R16,X0 ;SHIFT R0,R0!1 BY 16.  
MOV RPS,PSN ;SAVE PS  
CMP R0,PSN ;IS THE PS 12?  
HLT ;  
RSHC R0,PSN ;THE PS IS NOT EQUAL TO 12  
HLT ;IS THE RESULT 125252?  
RSHC R0,X0!1 ;R0 IS NOT EQUAL TO 125252  
HLT ;IS THE RESULT 0?  
RSHC R0,X0!1 ;R0!1 IS NOT EQUAL TO 0  
HLT

\*\*\*\*\*  
:TEST 113 0 52525 SHIFTED BY 16. = 52525 0 PS = 0  
\*\*\*\*\*

010006	010701			SCOPE		
010010	012700	000000		MOV	00,X0	:LOAD R0 WITH 0
010014	012701	062525		MOV	062525,X0!1	:LOAD R0!1 WITH 52525
010018	000241			C/C		
010022	073027	000020		R/C	016,X0	:SHIFT R0,R0!1 BY 16.
010026	013767	177776	004714	MOV	00PS,PSM	:SAVE PS
010030	122767	000000	004706	MOV	00,PSM	:IS THE PS 0?
010034	001401			BEQ	.+4	
010038	000000			MOV	062525,X0	:THE PS IS NOT EQUAL TO 0
010042	022700	062525		MOV	.+4	:IS THE RESULT 52525?
010046	001401			BEQ	00,X0!1	:R0 IS NOT EQUAL TO 52525
010050	000000			MOV	.+4	:IS THE RESULT 0?
010054	022701	000000		MOV		
010058	001401			BEQ		
010062	000000			MOV		:R0!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 114 -1 0 SHIFTED BY 16. = 0 0 PS = 7  
\*\*\*\*\*

010066	010701			SCOPE		
010070	012700	177777		MOV	0-1,X0	:LOAD R0 WITH -1
010074	012701	000000		MOV	00,X0!1	:LOAD R0!1 WITH 0
010100	000241			C/C		
010104	073027	000020		R/C	016,X0	:SHIFT R0,R0!1 BY 16.
010108	013767	177776	004634	MOV	00PS,PSM	:SAVE PS
010112	122767	000007	004626	MOV	07,PSM	:IS THE PS 7?
010116	001401			BEQ	.+4	
010120	000000			MOV	00,X0	:THE PS IS NOT EQUAL TO 7
010124	012700	000000		MOV	.+4	:IS THE RESULT 0?
010128	001401			BEQ		
010132	000000			MOV	00,X0!1	:R0 IS NOT EQUAL TO 0
010136	022701	000000		MOV	.+4	:IS THE RESULT 0?
010140	001401			BEQ		
010144	000000			MOV		:R0!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
: TEST 115 1 SHIFTED BY 8. = 400 PS = 0  
:\*\*\*\*\*

010146	010701			SCOPE		
010154	012701	000000		MOV	8DUPPY,X1	:LOAD R1 WITH DUPPY
010160	012701	000001		MOV	81,X1!1	:LOAD R1!1 WITH 1
010162	012701			CLC		
010168	013127	000010		ASHC	88,X1	:SHIFT R1,R1!1 BY 8.
010174	013767	177776	004554	MOV	8PS,PSH	:SAVE PS
010176	013767	000000	004546	CHPB	80,PSH	:IS THE PS 0?
010180	014010			BEG	.+4	
010184	014010			HLT		
010186	014010	000400		CHPB	8400,X1	:THE PS IS NOT EQUAL TO 0
010190	014010			BEG	.+4	:IS THE RESULT 400?
010214	000000			HLT		:R1 IS NOT EQUAL TO 400

\*\*\*\*\*  
: TEST 116 -1 SHIFTED BY 15. = 100000 PS = 11  
:\*\*\*\*\*

010216	010701			SCOPE		
010224	012701	000000		MOV	8DUPPY,X1	:LOAD R1 WITH DUPPY
010230	012701	177777		MOV	8-1,X1!1	:LOAD R1!1 WITH -1
010236	012701			CLC		
010242	013127	000017		ASHC	815,X1	:SHIFT R1,R1!1 BY 15.
010248	013767	177776	004504	MOV	8PS,PSH	:SAVE PS
010254	013767	000011	004476	CHPB	811,PSH	:IS THE PS 11?
010260	014010			BEG	.+4	
010266	014010			HLT		
010272	014010	100000		CHPB	810000,X1	:THE PS IS NOT EQUAL TO 11
010278	014010			BEG	.+4	:IS THE RESULT 100000?
010284	000000			HLT		:R1 IS NOT EQUAL TO 100000

\*\*\*\*\*  
:TEST 117 52525 SHIFTED BY 0 = 52525 PS = 0  
\*\*\*\*\*

010266	010701			SCOPE		
010270	012701	00000		MOV	#DUPY,X1	;LOAD R1 WITH DUPY
010274	012701	00005		MOV	#525,X1!1	;LOAD R1!1 WITH 52525
010308	013127	00000		CLC		
010308	013127	00000		SHL	#0,X1	;SHIFT R1,R1!1 BY 0
010306	013767	17776	074434	PSH	#PS,PSH	;SAVE PS
010314	122767	000000	04456	BU	#0,PSH	;IS THE PS 0?
010312	001401			ADD	.+4	
010314	000000			BEQ		;THE PS IS NOT EQUAL TO 0
010326	022701	052525		MOV	#52525,X1	;IS THE RESULT 52525?
010332	001401			ADD	.+4	
010334	000000			HLT		;R1 IS NOT EQUAL TO 52525

\*\*\*\*\*  
:TEST 100 20010 SHIFTED BY -13. = 101 PS = 0  
\*\*\*\*\*

010336	010701			SCOPE		
010340	010701	00000		MOV	#DUPY,X1	;LOAD R1 WITH DUPY
010344	010701	00010		MOV	#20010,X1!1	;LOAD R1!1 WITH 20010
010348	013127	177763	074434	CLC		
010352	013127	177763	074434	SHL	#-13,X1	;SHIFT R1,R1!1 BY -13.
010356	013767	177763	074434	PSH	#PS,PSH	;SAVE PS
010360	013767	177763	074434	BU	#0,PSH	;IS THE PS 0?
010364	001401			ADD	.+4	
010368	000000			BEQ		;THE PS IS NOT EQUAL TO 0
010372	022701	000101		MOV	#101,X1	;IS THE RESULT 101?
010376	001401			ADD	.+4	
010380	000000			HLT		;R1 IS NOT EQUAL TO 101

\*\*\*\*\*  
:TEST 121 -1 SHIFTED BY 16. = 0 PS = 11  
\*\*\*\*\*

010406	010701			SCOPE		
010410	012701	000000		MOV	#DUMMY,X1	;LOAD R1 WITH DUMMY
010414	012701	177777		MOV	#-1,X1!1	;LOAD R1!1 WITH -1
010420	000241			CLC		
010422	073127	000000		P4HC	#16,X1	;SHIFT R1,R1!1 BY 16.
010426	013767	177776	004314	MOV	#PS,PSH	;SAVE PS
010434	122767	000011	004306	CHPB	#1,PSH	;IS THE PS 11?
010442	001401			BEQ	.+4	
010444	000000			HLT		;THE PS IS NOT EQUAL TO 11
010446	022701	000000		CMP	#0,X1	;IS THE RESULT 0?
010452	001401			BEQ	.+4	
010454	000000			HLT		;R1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 122 1 SHIFTED BY -1 = 100000 PS = 1  
\*\*\*\*\*

010456	010701			SCOPE		
010460	012701	000000		MOV	#DUMMY,X1	;LOAD R1 WITH DUMMY
010464	012701	000001		MOV	#1,X1!1	;LOAD R1!1 WITH 1
010470	000241			CLC		
010472	073127	177777		P4HC	#-1,X1	;SHIFT R1,R1!1 BY -1
010476	013767	177776	004244	MOV	#PS,PSH	;SAVE PS
010504	122767	000001	004236	CHPB	#1,PSH	;IS THE PS 1?
010512	001401			BEQ	.+4	
010514	000000			HLT		;THE PS IS NOT EQUAL TO 1
010516	022701	100000		CMP	#100000,X1	;IS THE RESULT 100000?
010522	001401			BEQ	.+4	
010524	000000			HLT		;R1 IS NOT EQUAL TO 100000

\*\*\*\*\*  
:TEST 123 125252 SHIFTED BY -16. = 125252 PS = 11  
:\*\*\*\*\*

010701 000000  
010702 125252  
010703 177760  
010704 177776 004174  
010705 000011 004166  
010706 125252  
010707 000000

SCOPE  
MOV DUMMY,X1 ;LOAD R1 WITH DUMMY  
MOV @125252,X1!1 ;LOAD R1!1 WITH 125252  
CLC  
F X C 0-16,X1 ;SHIFT R1,R1!1 BY -16.  
F V C @0'S,PSH ;C/E PS  
F V C @11,PSH ;IS THE PS 11?  
F V C .+4  
F V C @125252,X1 ;THE PS IS NOT EQUAL TO 11  
F V C .+4 ;IS THE RESULT 125252?  
F V C ;R1 IS NOT EQUAL TO 125252

\*\*\*\*\*  
:TEST 124 -1 0 SHIFTED BY -16. = -1 -1 PS = 10  
:\*\*\*\*\*

010701 177777  
010702 000000  
010703 177760  
010704 177776 004124  
010705 000010 004116  
010706 177777  
010707 177777

SCOPE  
MOV @-1,X2 ;LOAD R2 WITH -1  
MOV @0,X2!1 ;LOAD R2!1 WITH 0  
CLC  
F X C 0-16,X2 ;SHIFT R2,R2!1 BY -16.  
F V C @0'S,PSH ;C/E PS  
F V C @10,PSH ;IS THE PS 10?  
F V C .+4  
F V C @-1,X2 ;THE PS IS NOT EQUAL TO 10  
F V C .+4 ;IS THE RESULT -1?  
F V C @-1,X2!1 ;R2 IS NOT EQUAL TO -1  
F V C .+4 ;IS THE RESULT -1?  
F V C ;R2!1 IS NOT EQUAL TO -1

\*\*\*\*\*  
:TEST 1.5 17 2 0 5 (FTED) BY -16. = -1 17 2 PS = 10  
\*\*\*\*\*

```

01101073 00000000
01101074 00000000
01101075 00000000
01101076 00000000
01101077 00000000
01101078 00000000
01101079 00000000
01101080 00000000
01101081 00000000
01101082 00000000
01101083 00000000
01101084 00000000
01101085 00000000
01101086 00000000
01101087 00000000
01101088 00000000
01101089 00000000
01101090 00000000
01101091 00000000
01101092 00000000
01101093 00000000
01101094 00000000
01101095 00000000
01101096 00000000
01101097 00000000
01101098 00000000
01101099 00000000
01101100 00000000
01101101 00000000
01101102 00000000
01101103 00000000
01101104 00000000

```

```

SCOPE
MOV R2,R2,X2 ;LOAD R2 WITH 125252
MOV R2,R2,X2!1 ;LOAD R2!1 WITH 0
RCLC R2,R2,X2 ;SHIFT R2,R2!1 BY -16.
RCLC R2,R2,X2!1 ;SAVE PS
RCLC R2,R2,X2!1 ;IS THE PS 10?
RCLC R2,R2,X2!1 ;THE PS IS NOT EQUAL TO 10
RCLC R2,R2,X2!1 ;IS THE RESULT -1?
RCLC R2,R2,X2!1 ;R2 IS NOT EQUAL TO -1
RCLC R2,R2,X2!1 ;IS THE RESULT 125252?
RCLC R2,R2,X2!1 ;R2!1 IS NOT EQUAL TO 125252

```

\*\*\*\*\*  
:TEST 1.6 5 5 0 SHIFTED BY -16. = 0 5 5 PS = 0  
\*\*\*\*\*

```

01101073 00000000
01101074 00000000
01101075 00000000
01101076 00000000
01101077 00000000
01101078 00000000
01101079 00000000
01101080 00000000
01101081 00000000
01101082 00000000
01101083 00000000
01101084 00000000
01101085 00000000
01101086 00000000
01101087 00000000
01101088 00000000
01101089 00000000
01101090 00000000
01101091 00000000
01101092 00000000
01101093 00000000
01101094 00000000
01101095 00000000
01101096 00000000
01101097 00000000
01101098 00000000
01101099 00000000
01101100 00000000
01101101 00000000
01101102 00000000
01101103 00000000
01101104 00000000

```

```

SCOPE
MOV R2,R2,X2 ;LOAD R2 WITH 52525
MOV R2,R2,X2!1 ;LOAD R2!1 WITH 0
RCLC R2,R2,X2 ;SHIFT R2,R2!1 BY -16.
RCLC R2,R2,X2!1 ;SAVE PS
RCLC R2,R2,X2!1 ;IS THE PS 0?
RCLC R2,R2,X2!1 ;THE PS IS NOT EQUAL TO 0
RCLC R2,R2,X2!1 ;IS THE RESULT 0?
RCLC R2,R2,X2!1 ;R2 IS NOT EQUAL TO 0
RCLC R2,R2,X2!1 ;IS THE RESULT 52525?
RCLC R2,R2,X2!1 ;R2!1 IS NOT EQUAL TO 52525

```



\*\*\*\*\*  
:TEST 127 100000 0 SHIFTED BY -32. = -1 -1 PS = 11  
\*\*\*\*\*

011016	010701			SCOPE		
01110	01110	100000		MOV	0100000,x2	;LOAD R2 WITH 100000
01110	01110	000000		MOV	00,x2!1	;LOAD R2!1 WITH 0
01110	01110			CLC		
01110	01110	177740		P SHC	0-32,x2	;SHIFT R2,R2!1 BY -32.
01110	01110	177776	003704	MOV	011,PSH	;SAVE PS
01110	01110	000011	003676	CHPB	00,PSH	;IS THE PS 11?
01110	01110			BEG	.+4	
01110	01110			HLT		
01110	01110	177777		CHPB	0-1,x2	;THE PS IS NOT EQUAL TO 11
01110	01110			BEG	.+4	;IS THE RESULT -1?
01110	01110			HLT		
01110	01110	177777		CHPB	0-1,x2!1	;R2 IS NOT EQUAL TO -1
01110	01110			BEG	.+4	;IS THE RESULT -1?
01110	01110			HLT		
01110	01110					;R2!1 IS NOT EQUAL TO -1

\*\*\*\*\*  
:TEST 130 0 -1 SHIFTED BY 15. = 77777 100000 PS = 0  
\*\*\*\*\*

0111076	010701			SCOPE		
0111100	01110	000000		MOV	00,x2	;LOAD R2 WITH 0
0111100	01110	177777		MOV	0-1,x2!1	;LOAD R2!1 WITH -1
0111100	01110			CLC		
0111100	01110	000017		P SHC	015,x2	;SHIFT R2,R2!1 BY 15.
0111100	01110	177776	003624	MOV	015,PSH	;SAVE PS
0111100	01110	000000	003616	CHPB	00,PSH	;IS THE PS 0?
0111100	01110			BEG	.+4	
0111100	01110			HLT		
0111100	01110	077777		CHPB	077777,x2	;THE PS IS NOT EQUAL TO 0
0111100	01110			BEG	.+4	;IS THE RESULT 77777?
0111100	01110			HLT		
0111100	01110	100000		CHPB	0100000,x2!1	;R2 IS NOT EQUAL TO 77777
0111100	01110			BEG	.+4	;IS THE RESULT 100000?
0111100	01110			HLT		
0111100	01110					;R2!1 IS NOT EQUAL TO 100000

\*\*\*\*\*  
:TEST 131 0 -1 SHIFTED BY 16. = -1 0 PS = 12  
\*\*\*\*\*

011156 010701  
011160 012702 000000  
011164 012703 177777  
011170 C 41  
011172 C 7 000020  
011176 01 57 177776 003544  
011204 57 000012 003536  
011212  
011214  
011216 C 2 177777  
011222 C 1  
011224 C 0  
011226 C 3 000000  
011232 C 1401  
011234 000000

SCOPE  
MOV 00,x2 ;LOAD R2 WITH 0  
MOV 0-1,x2!1 ;LOAD R2!1 WITH -1  
CLC ;  
RHC 016.,x2 ;SHIFT R2,R2!1 BY 16.  
MOV 0 S,PSW ;SAVE PS  
CMPB 012,PSW ;IS THE PS 12?  
BLO .+4 ;  
HLT ;THE PS IS NOT EQUAL TO 12  
CMP 0-1,x2 ;IS THE RESULT -1?  
BEO .+4 ;  
HLT ;R2 IS NOT EQUAL TO -1  
CMP 00,x2!1 ;IS THE RESULT 0?  
BEO .+4 ;  
HLT ;R2!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 132 10000 -2 SHIFTED BY 15. = 77777 0 PS = 2  
\*\*\*\*\*

011236 010701  
011240 012702 100000  
011244 012703 177776  
011250 C 41  
011252 C 7 000017  
011256 01 57 177776 007464  
011264 57 000002 007456  
011272  
011274 C 0  
011276 C 2 077777  
011302 C 71  
011304 C 0  
011306 0 2703 000000  
011312 C 1401  
011314 000000

SCOPE  
MOV 0100000,x2 ;LOAD R2 WITH 100000  
MOV 0-2,x2!1 ;LOAD R2!1 WITH -2  
CLC ;  
RHC 015.,x2 ;SHIFT R2,R2!1 BY 15.  
MOV 0 S,PSW ;SAVE PS  
CMPB 02,PSW ;IS THE PS 2?  
BLO .+4 ;  
HLT ;THE PS IS NOT EQUAL TO 2  
CMP 077777,x2 ;IS THE RESULT 77777?  
BEO .+4 ;  
HLT ;R2 IS NOT EQUAL TO 77777  
CMP 00,x2!1 ;IS THE RESULT 0?  
BEO .+4 ;  
HLT ;R2!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 133 0 125252 SHIFTED BY 15. = 52525 0 PS = 0  
\*\*\*\*\*

011316	010701			SCOPE		
011320	012702	000000		MOV	#0,x2	;LOAD R2 WITH 0
011324	012703	125252		MOV	#125252,x2!1	;LOAD R2!1 WITH 125252
011330	001241			CLC		
011332	07327	000017		ASHC	#15,x2	;SHIFT R2,R2!1 BY 15.
011336	01367	177776	003404	MOV	#PS,PSW	;SAVE PS
011344	122767	000000	003376	CLPB	#0,PSW	;IS THE PS 0?
011352	001401			BEQ	.+4	
011354	01300			HLT		;THE PS IS NOT EQUAL TO 0
011356	01302	052525		CMP	#52525,x2	;IS THE RESULT 52525?
011362	001401			BEQ	.+4	
011364	000000			HLT		;R2 IS NOT EQUAL TO 52525
011366	022703	000000		CMP	#0,x2!1	;IS THE RESULT 0?
011372	001401			BEQ	.+4	
011374	000000			HLT		;R2!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 134 0 125252 SHIFTED BY 16. = 125252 0 PS = 12  
\*\*\*\*\*

011376	010701			SCOPE		
011400	012702	000000		MOV	#0,x2	;LOAD R2 WITH 0
011404	012703	125252		MOV	#125252,x2!1	;LOAD R2!1 WITH 125252
011410	001241			CLC		
011412	07327	000020		ASHC	#16,x2	;SHIFT R2,R2!1 BY 16.
011416	013767	177776	003324	MOV	#PS,PSW	;SAVE PS
011424	122767	000012	003316	CLPB	#12,PSW	;IS THE PS 12?
011432	001401			BEQ	.+4	
011434	01300			HLT		;THE PS IS NOT EQUAL TO 12
011436	01302	125252		CMP	#125252,x2	;IS THE RESULT 125252?
011442	001401			BEQ	.+4	
011444	000000			HLT		;R2 IS NOT EQUAL TO 125252
011446	022703	000000		CMP	#0,x2!1	;IS THE RESULT 0?
011452	001401			BEQ	.+4	
011454	000000			HLT		;R2!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 135 0 52525 SHIFTED BY 16. = 52525 0 PS = 0  
:\*\*\*\*\*

011456	010701			SCOPE		
011460	012702	000000		MOV	#0, X2	;LOAD R2 WITH 0
011464	012703	052525		MOV	#52525, X2!1	;LOAD R2!1 WITH 52525
011470	000241			CLC		
011472	073227	000020		ASHC	#16., X2	;SHIFT R2, R2!1 BY 16.
011476	013767	177776	003244	MOV	#PS, PSM	;SAVE PS
011504	122767	000000	003236	CMPB	#0, PSM	;IS THE PS 0?
011512	001401			BEQ	.+4	
011514	010000			HLT		;THE PS IS NOT EQUAL TO 0
011516	012702	052525		CMP	#52525, X2	;IS THE RESULT 52525?
011522	001401			BEQ	.+4	
011524	000000			HLT		;R2 IS NOT EQUAL TO 52525
011526	022703	000000		CMP	#0, X2!1	;IS THE RESULT 0?
011532	001401			BEQ	.+4	
011534	000000			HLT		;R2!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 136 -1 0 SHIFTED BY 16. = 0 0 PS = 7  
:\*\*\*\*\*

011536	010701			SCOPE		
011540	012702	177777		MOV	#-1, X2	;LOAD R2 WITH -1
011544	012703	000000		MOV	#0, X2!1	;LOAD R2!1 WITH 0
011550	000241			CLC		
011552	073227	000020		ASHC	#16., X2	;SHIFT R2, R2!1 BY 16.
011556	013767	177776	003164	MOV	#PS, PSM	;SAVE PS
011564	122767	000007	003156	CMPB	#7, PSM	;IS THE PS 7?
011572	001401			BEQ	.+4	
011574	000000			HLT		;THE PS IS NOT EQUAL TO 7
011576	022702	000000		CMP	#0, X2	;IS THE RESULT 0?
011602	001401			BEQ	.+4	
011604	000000			HLT		;R2 IS NOT EQUAL TO 0
011606	022703	000000		CMP	#0, X2!1	;IS THE RESULT 0?
011612	001401			BEQ	.+4	
011614	000000			HLT		;R2!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 137 1 SHIFTED BY 8. = 400 PS = 0  
\*\*\*\*\*

011616	010701			SCOPE		
011620	012703	000000		MOV	#DUMMY,%3	;LOAD R3 WITH DUMMY
011624	012703	000001		MOV	#1,%3!1	;LOAD R3!1 WITH 1
011630	000241			CLC		
011632	073327	000010		ASHC	#8,%3	;SHIFT R3,R3!1 BY 8.
011636	013767	177776	003104	MOV	@#PS,PSW	;SAVE PS
011644	122767	000000	003076	CMPB	#0,PSW	;IS THE PS 0?
011652	001401			BEQ	+.4	
011654	000000			HLT		;THE PS IS NOT EQUAL TO 0
011656	002703	000400		CMP	#400,%3	;IS THE RESULT 400?
011662	001401			BEQ	+.4	
011664	000000			HLT		;R3 IS NOT EQUAL TO 400

\*\*\*\*\*  
:TEST 140 -1 SHIFTED BY 15. = 100000 PS = 11  
\*\*\*\*\*

011666	010701			SCOPE		
011670	012703	000000		MOV	#DUMMY,%3	;LOAD R3 WITH DUMMY
011674	012703	177777		MOV	#-1,%3!1	;LOAD R3!1 WITH -1
011700	000241			CLC		
011702	073327	000017		ASHC	#15,%3	;SHIFT R3,R3!1 BY 15.
011706	013767	177776	003034	MOV	@#PS,PSW	;SAVE PS
011714	122767	000011	003026	CMPB	#11,PSW	;IS THE PS 11?
011722	001401			BEQ	+.4	
011724	000000			HLT		;THE PS IS NOT EQUAL TO 11
011726	022703	100000		CMP	#100000,%3	;IS THE RESULT 100000?
011732	001401			BEQ	+.4	
011734	000000			HLT		;R3 IS NOT EQUAL TO 100000

\*\*\*\*\*  
:TEST 141 52525 SHIFTED BY 0 = 52525 PS = 0  
\*\*\*\*\*

011736	010701			SCOPE		
011740	012703	000000		MOV	#DUMMY,X3	;LOAD R3 WITH DUMMY
011744	012703	052525		MOV	#52525,X3!1	;LOAD R3!1 WITH 52525
011750	000241			CLC		
011752	073327	000000		ASHC	#0,X3	;SHIFT R3,R3!1 BY 0
011756	013767	177776	002764	MOV	#PS,PSH	;SAVE PS
011764	122767	000000	002756	CMPB	#0,PSH	;IS THE PS 0?
011772	001401			BEQ	.+4	
011774	000000			HLT		;THE PS IS NOT EQUAL TO 0
011776	022703	052525		CMP	#52525,X3	;IS THE RESULT 52525?
012002	001401			BEQ	.+4	
012004	000000			HLT		;R3 IS NOT EQUAL TO 52525

\*\*\*\*\*  
:TEST 142 20010 SHIFTED BY -13. = 101 PS = 0  
\*\*\*\*\*

012006	010701			SCOPE		
012010	012703	000000		MOV	#DUMMY,X3	;LOAD R3 WITH DUMMY
012014	012703	020010		MOV	#20010,X3!1	;LOAD R3!1 WITH 20010
012020	000241			CLC		
012022	073327	177763		ASHC	#-13,X3	;SHIFT R3,R3!1 BY -13.
012026	013767	177776	002714	MOV	#PS,PSH	;SAVE PS
012034	122767	000000	002706	CMPB	#0,PSH	;IS THE PS 0?
012042	001401			BEQ	.+4	
012044	000000			HLT		;THE PS IS NOT EQUAL TO 0
012046	022703	000101		CMP	#101,X3	;IS THE RESULT 101?
012052	001401			BEQ	.+4	
012054	000000			HLT		;R3 IS NOT EQUAL TO 101

\*\*\*\*\*  
:TEST 143 -1 SHIFTED BY 16. = 0 PS = 11  
:\*\*\*\*\*

012756	010701			SCOPE		
012758	012703	000000		MOV	#DUMMY,X3	:LOAD R3 WITH DUMMY
012760	012703	177777		MOV	#-1,X3!1	:LOAD R3!1 WITH -1
012762	012703			CLC		
012764	073327	000020		ASHC	#16,X3	:SHIFT R3,R3!1 BY 16.
012766	013767	177776	002644	MOV	#PS,PSH	:SAVE PS
012768	122767	000011	002636	CHPB	#1,PSH	:IS THE PS 11?
012770	001401			BEQ	.+4	
012772	000000			HLT		:THE PS IS NOT EQUAL TO 11
012774	000000	000000		CHPB	#0,X3	:IS THE RESULT 0?
012776	001401			BEQ	.+4	
012778	000000			HLT		:R3 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 144 1 SHIFTED BY -1 = 100000 PS = 1  
:\*\*\*\*\*

012126	010701			SCOPE		
012128	012703	000000		MOV	#DUMMY,X3	:LOAD R3 WITH DUMMY
012130	012703	000001		MOV	#1,X3!1	:LOAD R3!1 WITH 1
012132	000241			CLC		
012134	073327	177777		ASHC	#-1,X3	:SHIFT R3,R3!1 BY -1
012136	013767	177776	000274	MOV	#PS,PSH	:SAVE PS
012138	122767	000001	000266	CHPB	#1,PSH	:IS THE PS 1?
012140	001401			BEQ	.+4	
012142	000000			HLT		:THE PS IS NOT EQUAL TO 1
012144	022703	100000		CHPB	#100000,X3	:IS THE RESULT 100000?
012146	001401			BEQ	.+4	
012148	000000			HLT		:R3 IS NOT EQUAL TO 100000







\*\*\*\*\*  
:TEST 151 10 3 0 5 1 0 BY -32. = -1 -1 PS = 11  
\*\*\*\*\*

012624 010701  
012625 012704  
012626 012705  
012627 013767  
012628 013767  
012629 013767  
012630 013767  
012631 013767  
012632 013767  
012633 013767  
012634 013767  
012635 013767  
012636 013767  
012637 013767  
012638 013767  
012639 013767  
012640 013767  
012641 013767  
012642 013767  
012643 013767  
012644 013767  
012645 013767  
012646 013767  
012647 013767  
012648 013767  
012649 013767  
012650 013767  
012651 013767  
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012696 013767  
012697 013767  
012698 013767  
012699 013767  
012700 013767

100000  
000000  
177740  
177776  
000011  
177777  
177777  
000000

SCOPE  
MOV R4  
MOV R4:1  
CLC  
ASHC  
MOV PS  
CMPB  
BEQ  
MOV R4  
CMPB  
BEQ  
MOV R4:1  
CMPB  
BEQ  
HLT

010000,x4  
00,x4:1  
015,x4  
00,PS,PSM  
00,PSM  
+4  
077777,x4  
+4  
0100000,x4:1  
+4

:LOAD R4 WITH 100000  
:LOAD R4:1 WITH 0  
:SHIFT R4,R4:1 BY -32.  
:SAVE PS  
:IS THE PS 11?  
:THE PS IS NOT EQUAL TO 11  
:IS THE RESULT -1?  
:R4 IS NOT EQUAL TO -1  
:IS THE RESULT -1?  
:R4:1 IS NOT EQUAL TO -1

\*\*\*\*\*  
:TEST 152 0 -1 SHIFTED BY 15. = 77777 100000 PS = 0  
\*\*\*\*\*

012651 010701  
012652 012704  
012653 012705  
012654 000017  
012655 013767  
012656 122767  
012657 000000  
012658 001401  
012659 000000  
012660 000000  
012661 007777  
012662 001401  
012663 000000  
012664 000000  
012665 001401  
012666 000000  
012667 000000

000000  
177777  
000017  
177776  
000000  
007777  
100000

SCOPE  
MOV R4  
MOV R4:1  
CLC  
ASHC  
MOV PS  
CMPB  
BEQ  
MOV R4  
CMPB  
BEQ  
MOV R4:1  
CMPB  
BEQ  
HLT

00,x4  
0-1,x4:1  
015,x4  
00,PS,PSM  
00,PSM  
+4  
077777,x4  
+4  
0100000,x4:1  
+4

:LOAD R4 WITH 0  
:LOAD R4:1 WITH -1  
:SHIFT R4,R4:1 BY 15.  
:SAVE PS  
:IS THE PS 0?  
:THE PS IS NOT EQUAL TO 0  
:IS THE RESULT 77777?  
:R4 IS NOT EQUAL TO 77777  
:IS THE RESULT 100000?  
:R4:1 IS NOT EQUAL TO 100000

\*\*\*\*\*  
:TEST 153 0 -1 SHIFTED BY 16. = -1 0 PS = 12  
:\*\*\*\*\*

012626 010701  
01 010704 000000  
01 010705 177777  
01 010706 177777  
012627 010707 000000  
01 010708 177776 012074  
01 010709 000012 012066  
01 010710 177777  
012628 010711 177777  
012629 010712 000000  
01 010713 000000  
012702 001401  
012704 000000

012074  
012066

SCOPE  
MOV 80,x4 ;LOAD R4 WITH 0  
MOV 8-1,x4!1 ;LOAD R4!1 WITH -1  
CLC ;  
ASHC 816,x4 ;SHIFT R4,R4!1 BY 16.  
MOV 2,PS,PSH ;SAVE PS  
C 812,PSH ;IS THE PS 12?  
BEQ .+4 ;  
HLT 8-1,x4 ;THE PS IS NOT EQUAL TO 12  
BEQ .+4 ;IS THE RESULT -1?  
MOV 80,x4!1 ;R4 IS NOT EQUAL TO -1  
BEQ .+4 ;IS THE RESULT 0?  
HLT ;R4!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 154 100000 -2 SHIFTED BY 15. = 77777 0 PS = 2  
:\*\*\*\*\*

012706 010701  
012710 012704 100000  
012714 010705 177776  
012717 010706 000017  
012720 010707 177776 012014  
012723 010708 000002 012006  
012724 010709 000000  
012725 010710 077777  
012726 010711 000000  
012727 001401  
012728 000000  
012764 000000

012014  
012006

SCOPE  
MOV 810000,x4 ;LOAD R4 WITH 100000  
MOV 8-2,x4!1 ;LOAD R4!1 WITH -2  
CLC ;  
ASHC 815,x4 ;SHIFT R4,R4!1 BY 15.  
MOV 2,PS,PSH ;SAVE PS  
C 82,PSH ;IS THE PS 2?  
BEQ .+4 ;  
HLT 877777,x4 ;THE PS IS NOT EQUAL TO 2  
BEQ .+4 ;IS THE RESULT 77777?  
MOV 80,x4!1 ;R4 IS NOT EQUAL TO 77777  
BEQ .+4 ;IS THE RESULT 0?  
HLT ;R4!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
TEST 155 0 12 2 SHIFTED BY 15. = 5 5 0 PS = 0  
\*\*\*\*\*

012706	010701		
0012704	012704	00000	
0012705	012705	125252	
0012706	012706	00000	
0012707	012707	001734	
0012708	012708	001726	
0012709	012709		
0012710	012710	052525	
0012711	012711		
0012712	012712	000000	

SCOPE		
MOV	00,X4	:LOAD R4 WITH 0
MOV	0125252,X4!1	:LOAD R4!1 WITH 125252
CLC		
RHC	015,X4	:SHIFT R4,R4!1 BY 15.
PSV	0,PS,PSH	:SAVE PS
CI	00,PSH	:IS THE PS 0?
HLTO	0,+4	
HLTO	052525,X4	:THE PS IS NOT EQUAL TO 0
HLTO	0,+4	:IS THE RESULT 52525?
HLTO	00,X4!1	:R4 IS NOT EQUAL TO 52525
HLTO	0,+4	:IS THE RESULT 0?
HLTO		
HLT		:R4!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
TEST 1 0 12 2 SHIFTED BY 16. = 12 2 0 PS = 12  
\*\*\*\*\*

012706	010701		
0012704	012704	00000	
0012705	012705	125252	
0012706	012706	00000	
0012707	012707	00000	
0012708	012708	177776	
0012709	012709	000012	
0012710	012710		
0012711	012711	125252	
0012712	012712		
0012713	012713	000000	
0012714	012714		
0012715	012715	000000	
0012716	012716		
0012717	012717		
0012718	012718		
0012719	012719		
0012720	012720		

SCOPE		
MOV	00,X4	:LOAD R4 WITH 0
MOV	0125252,X4!1	:LOAD R4!1 WITH 125252
CLC		
RHC	016,X4	:SHIFT R4,R4!1 BY 16.
PSV	0,PS,PSH	:SAVE PS
CI	012,PSH	:IS THE PS 12?
HLTO	0,+4	
HLTO	0125252,X4	:THE PS IS NOT EQUAL TO 12
HLTO	0,+4	:IS THE RESULT 125252?
HLTO	00,X4!1	:R4 IS NOT EQUAL TO 125252
HLTO	0,+4	:IS THE RESULT 0?
HLTO		
HLT		:R4!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 157 0 52525 SHIFTED BY 16. = 52525 0 PS = 0  
\*\*\*\*\*

013176 010701  
013177 010701  
013178 010701  
013179 010701  
013180 010701  
013181 010701  
013182 010701  
013183 010701  
013184 010701  
013185 010701  
013186 010701  
013187 010701  
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013192 010701  
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013196 010701  
013197 010701  
013198 010701  
013199 010701  
013200 010701  
013201 010701  
013202 010701  
013203 010701  
013204 010701  
013205 010701  
013206 010701  
013207 010701  
013208 010701  
013209 010701  
013210 010701  
013211 010701  
013212 010701  
013213 010701  
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013250 010701  
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013295 010701  
013296 010701  
013297 010701  
013298 010701  
013299 010701  
013300 010701

SCOPE  
MOV 80,X4 ;LOAD R4 WITH 0  
MOV 852525,X4!1 ;LOAD R4!1 WITH 52525  
CLC ;  
R4,RC 816,X4 ;SHIFT R4,R4!1 BY 16.  
MOV 8,S,PSW ;SAVE PS  
CYPB 80,PSW ;IS THE PS 0?  
BEQ .+4 ;  
HLT ;THE PS IS NOT EQUAL TO 0  
CYP 852525,X4 ;IS THE RESULT 52525?  
BEQ .+4 ;  
HLT ;R4 IS NOT EQUAL TO 52525  
CYP 80,X4!1 ;IS THE RESULT 0?  
BEQ .+4 ;  
HLT ;R4!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 160 -1 0 SHIFTED BY 16. = 0 0 PS = 7  
\*\*\*\*\*

013206 010701  
013207 010701  
013208 010701  
013209 010701  
013210 010701  
013211 010701  
013212 010701  
013213 010701  
013214 010701  
013215 010701  
013216 010701  
013217 010701  
013218 010701  
013219 010701  
013220 010701  
013221 010701  
013222 010701  
013223 010701  
013224 010701  
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013250 010701  
013251 010701  
013252 010701  
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013293 010701  
013294 010701  
013295 010701  
013296 010701  
013297 010701  
013298 010701  
013299 010701  
013300 010701

SCOPE  
MOV 8-1,X4 ;LOAD R4 WITH -1  
MOV 80,X4!1 ;LOAD R4!1 WITH 0  
CLC ;  
R4,RC 816,X4 ;SHIFT R4,R4!1 BY 16.  
MOV 8,S,PSW ;SAVE PS  
CYPB 87,PSW ;IS THE PS 7?  
BEQ .+4 ;  
HLT ;THE PS IS NOT EQUAL TO 7  
CYP 80,X4 ;IS THE RESULT 0?  
BEQ .+4 ;  
HLT ;R4 IS NOT EQUAL TO 0  
CYP 80,X4!1 ;IS THE RESULT 0?  
BEQ .+4 ;  
HLT ;R4!1 IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 161 1 SHIFTED BY 8. = 400 PS = 0  
\*\*\*\*\*

013376 010701  
013378 012705 000000  
013380 012705 000001  
013382 000000  
013384 000000  
013386 000010  
013388 013367 177776 001434  
013390 013367 000000 001426  
013392 000000  
013394 000000  
013396 000400  
013398 000000  
013400 000000

SCOPE  
MOV @DUMMY,XS ;LOAD RS WITH DUMMY  
MOV @1,XS!1 ;LOAD RS!1 WITH 1  
CLC  
RSHC @8,XS ;SHIFT RS,RS!1 BY 8.  
MOV @PS,PSH ;SAVE PS  
CMPB @0,PSH ;IS THE PS 0?  
E.O .+4  
HLT ;THE PS IS NOT EQUAL TO 0  
CMP @400,XS ;IS THE RESULT 400?  
E.O .+4  
HLT ;RS IS NOT EQUAL TO 400

\*\*\*\*\*  
:TEST 162 -1 SHIFTED BY 15. = 100000 PS = 11  
\*\*\*\*\*

013376 010701  
013378 012705 000000  
013380 012705 177777  
013382 000000  
013384 000000  
013386 000017  
013388 013367 177776 001364  
013390 013367 000011 001356  
013392 0001401  
013394 000000  
013396 000000  
013402 0001401  
013404 000000

SCOPE  
MOV @DUMMY,XS ;LOAD RS WITH DUMMY  
MOV @-1,XS!1 ;LOAD RS!1 WITH -1  
CLC  
RSHC @15,XS ;SHIFT RS,RS!1 BY 15.  
MOV @PS,PSH ;SAVE PS  
CMPB @11,PSH ;IS THE PS 11?  
E.O .+4  
HLT ;THE PS IS NOT EQUAL TO 11  
CMP @100000,XS ;IS THE RESULT 100000?  
E.O .+4  
HLT ;RS IS NOT EQUAL TO 100000

\*\*\*\*\*  
:TEST 163 52525 SHIFTED BY 0 = 52525 PS = 0  
\*\*\*\*\*

013476 010701  
013477 010701  
013478 010701  
013479 010701  
013480 010701  
013481 010701  
013482 010701  
013483 010701  
013484 010701  
013485 010701  
013486 010701  
013487 010701  
013488 010701  
013489 010701  
013490 010701  
013491 010701  
013492 010701  
013493 010701  
013494 010701  
013495 010701  
013496 010701  
013497 010701  
013498 010701  
013499 010701  
013500 010701

SCOPE  
MOV DUMMY,XS ;LOAD RS WITH DUMMY  
MOV #52525,XS!1 ;LOAD RS!1 WITH 52525  
CLC  
RSHC #0,XS ;SHIFT RS,RS!1 BY 0  
MOV @PS,PSW ;SAVE PS  
CMPB #0,PSW ;IS THE PS 0?  
BLO .+4 ;THE PS IS NOT EQUAL TO 0  
HLT ;IS THE RESULT 52525?  
CMP #52525,XS  
BEQ .+4  
HLT ;RS IS NOT EQUAL TO 52525

\*\*\*\*\*  
:TEST 164 20010 SHIFTED BY -13. = 101 PS = 0  
\*\*\*\*\*

013498 010701  
013499 010701  
013500 010701  
013501 010701  
013502 010701  
013503 010701  
013504 010701  
013505 010701  
013506 010701  
013507 010701  
013508 010701  
013509 010701  
013510 010701  
013511 010701  
013512 010701  
013513 010701  
013514 010701  
013515 010701  
013516 010701  
013517 010701  
013518 010701  
013519 010701  
013520 010701  
013521 010701  
013522 010701  
013523 010701  
013524 010701  
013525 010701  
013526 010701  
013527 010701  
013528 010701  
013529 010701  
013530 010701  
013531 010701  
013532 010701  
013533 010701  
013534 010701  
013535 010701  
013536 010701  
013537 010701  
013538 010701  
013539 010701  
013540 010701

SCOPE  
MOV DUMMY,XS ;LOAD RS WITH DUMMY  
MOV #20010,XS!1 ;LOAD RS!1 WITH 20010  
CLC  
RSHC #-13,XS ;SHIFT RS,RS!1 BY -13.  
MOV @PS,PSW ;SAVE PS  
CMPB #0,PSW ;IS THE PS 0?  
BLO .+4 ;THE PS IS NOT EQUAL TO 0  
HLT ;IS THE RESULT 101?  
CMP #101,XS  
BEQ .+4  
HLT ;RS IS NOT EQUAL TO 101

\*\*\*\*\*  
:TEST 165 -1 SHIFTED BY 16. = 0 PS = 11  
:\*\*\*\*\*

013576 010701  
013577 012705 000000  
013578 012705 177777  
013579 010701 000000  
013580 010701 000000  
013581 010701 000000  
013582 010701 000000  
013583 010701 000000  
013584 010701 000000  
013585 010701 000000  
013586 010701 000000  
013587 010701 000000  
013588 010701 000000  
013589 010701 000000  
013590 010701 000000  
013591 010701 000000  
013592 010701 000000  
013593 010701 000000  
013594 010701 000000  
013595 010701 000000  
013596 010701 000000  
013597 010701 000000  
013598 010701 000000  
013599 010701 000000  
013600 010701 000000

SCOPE  
MOV #DUMMY,XS ;LOAD RS WITH DUMMY  
MOV #-1,XS!1 ;LOAD RS!1 WITH -1  
CLC  
RHC #16,XS ;SHIFT RS,RS!1 BY 16.  
MOV #PS,PSW ;SAVE PS  
CMPB #1,PSW ;IS THE PS 11?  
BLO .+4 ;THE PS IS NOT EQUAL TO 11  
CMP #0,XS ;IS THE RESULT 0?  
BEQ .+4  
HLT ;RS IS NOT EQUAL TO 0

\*\*\*\*\*  
:TEST 166 1 SHIFTED BY -1 = 10000 PS = 1  
:\*\*\*\*\*

013576 010701  
013577 012705 000000  
013578 012705 177777  
013579 010701 000000  
013580 010701 000000  
013581 010701 000000  
013582 010701 000000  
013583 010701 000000  
013584 010701 000000  
013585 010701 000000  
013586 010701 000000  
013587 010701 000000  
013588 010701 000000  
013589 010701 000000  
013590 010701 000000  
013591 010701 000000  
013592 010701 000000  
013593 010701 000000  
013594 010701 000000  
013595 010701 000000  
013596 010701 000000  
013597 010701 000000  
013598 010701 000000  
013599 010701 000000  
013600 010701 000000

SCOPE  
MOV #DUMMY,XS ;LOAD RS WITH DUMMY  
MOV #1,XS!1 ;LOAD RS!1 WITH 1  
CLC  
RHC #-1,XS ;SHIFT RS,RS!1 BY -1  
MOV #PS,PSW ;SAVE PS  
CMPB #1,PSW ;IS THE PS 1?  
BLO .+4 ;THE PS IS NOT EQUAL TO 1  
CMP #10000,XS ;IS THE RESULT 10000?  
BEQ .+4  
HLT ;RS IS NOT EQUAL TO 10000



\*\*\*\*\*  
:TEST 167 125252 SHIFTED BY -16. = 125252 PS = 11  
:\*\*\*\*\*

013646	010701			SCOPE		
013650	012705	000000		MOV	#DUMMY,X5	;LOAD R5 WITH DUMMY
013654	012705	125252		MOV	#125252,X5!1	;LOAD R5!1 WITH 125252
013658	000000			CLC		
013662	07027	177760		ASHC	#-16,X5	;SHIFT R5,R5!1 BY -16.
013666	01367	177776	001054	MOV	#PS,PSW	;SAVE PS
013670	12767	000011	001046	CMPB	#11,PSW	;IS THE PS 11?
013674	001401			BEQ	.+4	
013678	000000			HLT		;THE PS IS NOT EQUAL TO 11
013706	000000	125252		CMP	#125252,X5	;IS THE RESULT 125252?
013712	001401			BEQ	.+4	
013714	000000			HLT		;R5 IS NOT EQUAL TO 125252

013716	012702	177771		MOV	#-7,X2	
013722	012703	014754		MOV	#S1,X3	
013726	012704	014756		MOV	#S2,X4	

\*\*\*\*\*  
:TEST 170 125252 125252 SHIFTED BY S1 = 177525 52525 PS = 10  
:\*\*\*\*\*

013732	010701			SCOPE		
013734	012700	125252		MOV	#125252,X0	;LOAD R0 WITH 125252
013740	012701	125252		MOV	#125252,X0!1	;LOAD R0!1 WITH 125252
013744	000000			CLC		
013746	07057	001002		ASHC	S1,X0	;SHIFT R0,R0!1 BY S1
013752	01367	177776	070770	MOV	#PS,PSW	;SAVE PS
013760	12767	000010	070762	CMPB	#10,PSW	;IS THE PS 10?
013766	001401			BEQ	.+4	
013770	000000			HLT		;THE PS IS NOT EQUAL TO 10
013772	000000	177525		CMP	#177525,X0	;IS THE RESULT 177525?
013776	001401			BEQ	.+4	
014000	000000			HLT		;R0 IS NOT EQUAL TO 177525
014002	022701	052525		CMP	#52525,X0!1	;IS THE RESULT 52525?
014006	001401			BEQ	.+4	
014010	000000			HLT		;R0!1 IS NOT EQUAL TO 52525

\*\*\*\*\*  
:TEST 171 125252 125252 SHIFTED BY @S2 = 177525 52525 PS = 10  
:\*\*\*\*\*

014012	010701			SCOPE		
014014	012700	125252		MOV	@125252,%0	;LOAD RO WITH 125252
014020	012701	125252		MOV	@125252,%0!1	;LOAD RO!1 WITH 125252
014024	000241			CLC		
014026	073077	000724		ASHC	@S2,%0	;SHIFT RO,RO!1 BY @S2
014032	013767	177776	000710	MOV	@#PS,PSW	;SAVE PS
014040	122767	000010	000702	CP#B	@10,PSW	;IS THE PS 10?
014046	001401			BEQ	+.4	
014050	000000			HLT		;THE PS IS NOT EQUAL TO 10
014052	022700	177525		CMP	@177525,%0	;IS THE RESULT 177525?
014056	001401			BEQ	+.4	
014060	000000			HLT		;RO IS NOT EQUAL TO 177525
014062	022701	052525		CMP	@52525,%0!1	;IS THE RESULT 52525?
014066	001401			BEQ	+.4	
014070	000000			HLT		;RO!1 IS NOT EQUAL TO 52525

\*\*\*\*\*  
:TEST 172 125252 125252 SHIFTED BY @S1 = 177525 52525 PS = 10  
:\*\*\*\*\*

014072	010701			SCOPE		
014074	012700	125252		MOV	@125252,%0	;LOAD RO WITH 125252
014100	012701	125252		MOV	@125252,%0!1	;LOAD RO!1 WITH 125252
014104	000241			CLC		
014106	073037	014754		ASHC	@S1,%0	;SHIFT RO,RO!1 BY @S1
014112	013767	177776	000630	MOV	@#PS,PSW	;SAVE PS
014120	122767	000010	000622	CP#B	@10,PSW	;IS THE PS 10?
014126	001401			BEQ	+.4	
014130	000000			HLT		;THE PS IS NOT EQUAL TO 10
014132	022700	177525		CMP	@177525,%0	;IS THE RESULT 177525?
014136	001401			BEQ	+.4	
014140	000000			HLT		;RO IS NOT EQUAL TO 177525
014142	022701	052525		CMP	@52525,%0!1	;IS THE RESULT 52525?
014146	001401			BEQ	+.4	
014150	000000			HLT		;RO!1 IS NOT EQUAL TO 52525

\*\*\*\*\*  
TEST 173 125252 125252 SHIFTED BY X2 = 177525 52525 PS = 10  
\*\*\*\*\*

014110 010701  
014112 012700 125252  
014114 012701 125252  
014116 001241  
014118 07 23  
014120 013767 177776 000552  
014122 127767 000010 000574  
014204 001401  
014206 001700  
014210 001700 177525  
014214 001700  
014216 001700  
014220 001401 052525  
014226 000000

SCOPE  
MOV 0125252,X0 ;LOAD R0 WITH 125252  
MOV 0125252,X0!1 ;LOAD R0!1 WITH 125252  
CLC  
ASHC X2,X0 ;SHIFT R0,R0!1 BY X2  
MOV 20PS,PSH ;SAVE PS  
CMPB 010,PSH ;IS THE PS 10?  
BEQ .+4  
HLT ;THE PS IS NOT EQUAL TO 10  
CMP 0177525,X0 ;IS THE RESULT 177525?  
BEQ .+4  
HLT ;R0 IS NOT EQUAL TO 177525  
CMP 052525,X0!1 ;IS THE RESULT 52525?  
BEQ .+4  
HLT ;R0!1 IS NOT EQUAL TO 52525

\*\*\*\*\*  
TEST 174 125252 125252 SHIFTED BY (3)+ = 177525 52525 PS = 10  
\*\*\*\*\*

014230 010701  
014232 012700 125252  
014234 012701 125252  
014236 001241  
014238 07 23  
014240 013767 177776 000474  
014242 127767 000010 000466  
014244 001401  
014246 001700  
014250 001700 177525  
014254 001401  
014274 001700  
014276 022701 052525  
014302 001401  
014304 000000

SCOPE  
MOV 0125252,X0 ;LOAD R0 WITH 125252  
MOV 0125252,X0!1 ;LOAD R0!1 WITH 125252  
CLC  
ASHC (3)+,X0 ;SHIFT R0,R0!1 BY (3)+  
MOV 20PS,PSH ;SAVE PS  
CMPB 010,PSH ;IS THE PS 10?  
BEQ .+4  
HLT ;THE PS IS NOT EQUAL TO 10  
CMP 0177525,X0 ;IS THE RESULT 177525?  
BEQ .+4  
HLT ;R0 IS NOT EQUAL TO 177525  
CMP 052525,X0!1 ;IS THE RESULT 52525?  
BEQ .+4  
HLT ;R0!1 IS NOT EQUAL TO 52525

\*\*\*\*\*  
:TEST 175 125252 125252 SHIFTED BY -(3) = 177525 52525 PS = 10  
\*\*\*\*\*

0144306 010701  
0144310 012700 125252  
0144314 012701 125252  
0144318 013241 000002  
0144322 013767 177776 000416  
0144326 014011 000010 000410  
0144330 014011 177525  
0144334 014011 052525  
0144338 014011 000000  
0144342 014011

SCOPE  
MOV 0125252,XD ;LOAD RO WITH 125252  
MOV 0125252,XD!1 ;LOAD RO!1 WITH 125252  
CLC  
RSHC -(3),XD ;SHIFT RO,RO!1 BY -(3)  
MOV 00PS,PSW ;SAVE PS  
CHPB 010,PSW ;IS THE PS 10?  
BEQ 04  
CHPB 0177525,XD ;THE PS IS NOT EQUAL TO 10  
BEQ 04 ;IS THE RESULT 177525?  
CHPB 052525,XD!1 ;RO IS NOT EQUAL TO 177525  
BEQ 04 ;IS THE RESULT 52525?  
LT ;RO!1 IS NOT EQUAL TO 52525

\*\*\*\*\*  
:TEST 176 125252 125252 SHIFTED BY 2(4) = 177252 125252 PS = 11  
\*\*\*\*\*

0144354 010701  
0144358 012700 125252  
0144362 012701 125252  
0144366 013241 000002  
0144370 013767 177776 000336  
0144374 014011 000011 000330  
0144378 014011 177252  
0144382 014011  
0144386 014011 125252  
0144390 014011  
0144394 014011  
0144398 014011

SCOPE  
MOV 0125252,XD ;LOAD RO WITH 125252  
MOV 0125252,XD!1 ;LOAD RO!1 WITH 125252  
CLC  
RSHC 2(4),XD ;SHIFT RO,RO!1 BY 2(4)  
MOV 00PS,PSW ;SAVE PS  
CHPB 011,PSW ;IS THE PS 11?  
BEQ 04  
CHPB 0177252,XD ;THE PS IS NOT EQUAL TO 11  
BEQ 04 ;IS THE RESULT 177252?  
CHPB 0125252,XD!1 ;RO IS NOT EQUAL TO 177252  
BEQ 04 ;IS THE RESULT 125252?  
LT ;RO!1 IS NOT EQUAL TO 125252

\*\*\*\*\*  
:TEST 177 125252 125252 SHIFTED BY 2(4) = 177525 52525 PS = 10  
:\*\*\*\*\*

010701 125252  
012700 125252  
012701 000000  
013677 177776 000256  
013678 000010 000250  
013679 177525  
013680 052525  
014011 000000  
014012 000000

SCOPE  
MOV 0125252,XD ;LOAD RO WITH 125252  
MOV 0125252,XD!1 ;LOAD RO!1 WITH 125252  
CLC  
RSHC 2(4),XD ;SHIFT RO,RO!1 BY 2(4)  
MOV 20PS,PSW ;SAVE PS  
CMP 010,PSW ;IS THE PS 10?  
HLT .+4  
MOV 0177525,XD ;THE PS IS NOT EQUAL TO 10  
HLT .+4 ;IS THE RESULT 177525?  
MOV 052525,XD!1 ;RO IS NOT EQUAL TO 177525  
HLT .+4 ;IS THE RESULT 52525?  
MOV 052525,XD!1 ;RO!1 IS NOT EQUAL TO 52525  
HLT .+4

\*\*\*\*\*  
:TEST 200 125252 125252 SHIFTED BY 2(4)+ = 177525 52525 PS = 10  
:\*\*\*\*\*

010701 125252  
012700 125252  
012701 000000  
013677 177776 000200  
013678 000010 000172  
013679 177525  
013680 052525  
014011 000000  
014012 000000

SCOPE  
MOV 0125252,XD ;LOAD RO WITH 125252  
MOV 0125252,XD!1 ;LOAD RO!1 WITH 125252  
CLC  
RSHC 2(4)+,XD ;SHIFT RO,RO!1 BY 2(4)+  
MOV 20PS,PSW ;SAVE PS  
CMP 010,PSW ;IS THE PS 10?  
HLT .+4  
MOV 0177525,XD ;THE PS IS NOT EQUAL TO 10  
HLT .+4 ;IS THE RESULT 177525?  
MOV 052525,XD!1 ;RO IS NOT EQUAL TO 177525  
HLT .+4 ;IS THE RESULT 52525?  
MOV 052525,XD!1 ;RO!1 IS NOT EQUAL TO 52525  
HLT .+4

\*\*\*\*\*  
:TEST 201 125252 125252 SHIFTED BY 2-(4) = 177525 52525 PS = 10  
\*\*\*\*\*

01470	010701			SCOPE		
01471	010700	125252		MOV	012525,XD	:LOAD RD WITH 125252
01472	010700	125252		MOV	012525,XD!1	:LOAD RD!1 WITH 125252
01473	000001			CLC		
01474	000001	177776	001122	RHC	2-(4),XD	:SHIFT RD, RD!1 BY 2-(4)
01475	000001	000010	001114	MOV	2-PS,PSH	:SAVE PS
01476	000001			CHPB	010,PSH	:IS THE PS 10?
01477	000001			BEO	.+4	
01478	000001	177525		HLT		:THE PS IS NOT EQUAL TO 10
01479	000001			CHP	0177525,XD	:IS THE RESULT 177525?
01480	000001			BEO	.+4	
01481	000001	52525		HLT		:RD IS NOT EQUAL TO 177525
01482	000001			CHP	052525,XD!1	:IS THE RESULT 52525?
01483	000001			BEO	.+4	
01484	000001			HLT		:RD!1 IS NOT EQUAL TO 52525

01475	01477	164114		INC	ICNT	
01476	01477	164110	177570	MOV	ICNT,2#DISPLAY	
01477	01477	020000	164100	CHP	020000,ICNT	
01478	01477			EJ	.+6	
01479	01477	164074		JL	PIC	
01480	01477	177564		CLR	ICNT	
01481	01477			TSTB	00177564	
01482	01477			BPL	.-4	
01483	01477	000007	177566	MOV	07,2#177566	
01484	01477			MOV	0042,XD	:GET MONITOR RETURN ADDRESS
01485	01477			BEO	18	:SKIP IF NONE
01486	01477			JR	7,(0)	:GO BACK TO THE MONITOR
01487	01477			MOV		
01488	01477			NOP		
01489	01477			NOP		
01490	01477	000200		JMP	00200	:RESTART THE PROGRAM

014750	014750			PSH:	0	
014752	014757			SO:	7	
014754	177771			S1:	-7	
014755	014754			S2:	51	
014760	177772			S3:	-6	
	000001					.END

F06

BFG 001002  
FLA 17  
DURTY = 000000  
MLT = 000000

ICNT = 001000  
000000

N = 000202

PS = 177776

126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400
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PSM	R	SCOPE	BRIDGE		
014750	= 00000	= 010701	= 177570 014752 014754 014756 014750 = 177762		
			= 014762		
				1338	1338
				134	234
				135	255
				137	276
				144	297
				147	318
				161	339
				164	360
				167	381
				182	402
				185	423
				188	444
				203	465





ASHC	1358	150	171	190	213	227	276	297	318	339	391	402	423
ASHC	1358	150	171	190	213	227	276	297	318	339	391	402	423

ASHC	RD	BIT	GC
11151	11151	11151	11151
11152	11152	11152	11152
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