

INTERRUPT EXTENSION TO 8CU10

I. PURPOSE

To trap all unexpected interrupts and to identify the source of such interrupts by means of a separate typeout in each interrupt routine while running 8CU10.

II. METHOD OF TEST

For each possible interrupt there will be a different routine such that when an interrupt occurs the associated routine will be executed. The function of each interrupt routine will be to give a typeout identifying the corresponding interrupt that occurred.

1. Sections of the test

There are a total of 14 interrupt routines in the test, one for each of the following associated interrupts:

250, 251, 252, 253, 40, 41, 44, 45, 46, 47, 21, 23, 22, 20.

This program replaces the first instruction in 8CU10 with the instruction TR 071004. Starting at 71004 the program will set up all the interrupt words with the proper addresses and status. The replaced instruction is then executed and transfer is made to the second instruction in 8CU10.

III. MEMORY LOCATION

071004 to 072079 8CU10I proper
000000 to 000129 The memory position for the first and second cards of 8CU10 with the first instruction on the first card replaced with TR 071004.

IV. LOADING PROCEDURE

1. Cards

First load 8CU10. After 8CU10 has been loaded, load this program with standard load program 8LD01 with cards in the following order:

8LD01	2 cards
8CU10I	24 cards
8TR02	1 card
Blanks	3 cards

IV. LOADING PROCEDURE (cont.)

2. **Tape**
Update 8CU10 on the 8TR06 generated tape with 8CU10I program cards using 8ED01 as the update program.

V. ALTERATION SWITCHES

- 911 ON - Bypass typeouts and halts
- 913 ON - Stop on Error

Other alteration switches not used in 8CU10I. The other alteration switches should be set according to definitions in 8CU10 write up.

VI. NORMAL TYPE OUTS

None

VII. ERROR TYPEOUTS

An unexpected interrupt from anyone of the following channels;
40, 41, 44, 45, 46, 47, 21, 23, 22, 20

will cause a typeout as follows;

"INT CH XX", where XX stands for one of the channel numbers above. For example, "INT CH 44" means that an unexpected interrupt occurred on channel 44 while running 8CU10. "INT NS 250" means that an unexpected non-stop interrupt occurred while running 8CU10.

"INT CI 251", "INT CI 253" and "INT 252" are typeouts for unexpected interrupts 251, 253, and 252 respectively.

VIII. ERROR HALTS

For all unexpected channel interrupts error halts which will occur only if 913 is on will have the address "3XX00" where XX stands for the channel number. For example "HLT 34100" signifies that channel 41 was the channel where the unexpected interrupt occurred.

For non-stop and all the console interrupts the halts will have the address "30XX0" where 'xx0' stands for the interrupt number. For example "HLT 30250" signifies that the unexpected interrupt was interrupt 250. In all cases to continue, hit START.

IX. COMMENTS

It is to be noted that this program is to be run only with 8CU10.



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PROGRAM 8CU10 CARD# 001

MEM ADDRESS	OP CODE	ASU	I. ADDRESS	IMAGE
000004	1 TR		071004	1A00M
000009	R WR		000095	R0095
000014	J HLT		001111	J1111
000019	3 EEM	14	000000	306#0
000024	3 CHR	13	000000	306#0
000029	3 LIM	07	000000	306#0
000034	3 CHR	13	000000	306#0
000039	0 TRS	09	000044	00-U4
000044	0 TRS	10	000049	00-M9
000049	0 TRS	11	000054	00-E4
000054	0 TRS	12	000059	00G59
000059	0 TRS	13	000064	00G64
000064	0 TRS	14	000069	00G69

PROGRAM 8CU10 CARD# 002

MEM ADDRESS	OP CODE	ASU	I. ADDRESS	IMAGE
000069	0 TRS	15	000074	00G74
000074	1 TRA		000079	T0079
000079	3 LEM	15	000000	306#0
000084	1 TR		000404	T0404
000089	J HLT		000000	J0000
000094	1 TR		000404	T0404
000099	9 TMT	01	080110	900,
000104	1 TR	04	091031	1, 2,
000109		CONSTANTS		3, 4
000114		CONSTANTS		, 5
000119	T SGN	06	066079	TO PR
000124	0 TRS	11	077914	OGRAM
000129		CONSTANTS		□

073019 SPC 002004 2004
073019 SPC 002004 2004
073019 SPC 002004 2004
073019 SPC 002004 2004

PROGRAM 8CUI0 CARD# 877

MEM	ADDRESS	OR	CODE	ASU	ADDRESS	IMAGE
	071054		LFC	02	071872	.A80M
	071069		SPC		002300	.2300
	071074		LFC	02	071864	.A80M
	071079		SPC		002300	.2300

	071134		LFC	02	071872	.A80M
	071139		SPC		002524	.2524
	071144		LFC	02	071864	.A80M
	071149		SPC		002530	.2530

ADDRESS	TYPE	QUANTITY	ADDRESS	PRICE
071159	LFC	02	071804	\$A9-M
071164	SRC		002534	\$2534
071164	LFC	02	071864	\$A80M
071169	SPG		004000	\$4000
071174	LFC	02	071909	\$A9-R

071229	SPC		004500	\$4500
071234	LFC	02	071924	\$A9KM
071239	SPC		004504	\$4504
071244	LFC	02	071864	\$A80M
071249	SPC		004500	\$4500

MEM ADDRESS	OP CODE	ASU	I ADDRESS	IMAGE
071254	LFC	02	071929	LADKR
071255	SPC		004704	4704
071256	SPC		004704	4704
071259	SPC		004700	4700
071274	LFC	02	071934	934
071278	SPC		004704	4704
071284	LFC		071944	944

071339	LIP	15	000009	00009
071344	TRA	01	071374	1374
071349	SEL		000500	20500

ADDRESS	CLASS
071351	RA96N
071359	IA3FR
071364	IA37M
071369	JB100
071374	SEM 14
000000	306-0
000009	0869

071434	R	WR	071465	RA96N	
071439	I	TRA	03	071449	IA4DR
071444	I	TR	071454	IA45M	
071449	I	HLT	032100	JB100	

PROGRAM 8CU10 CARD# 885

MEM ADDRESS	OP	CODE	ASU	I ADDRESS	IMAGE
071454	3	EEM	14	000000	305-0

071458	1	LIP	13	000009	0569
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071464	1	TRA	01	071374	IA5XN
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071469	2	SEL		000500	20500
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071474	R	WR		071975	RA97N
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071479	1	TRA	01	071489	IA4HN
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071484	1	TRA	01	071489	IA4HN
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071539	1	LIP	13	000009	0569
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071544	1	TRA	01	071374	IA5XN
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071549	2	SEL		000500	20500
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RECEIVED

ADDRESS	CODE	ANS	ADDRESS	PAGE
071554			071557	1A55R
071559	I TRAW	03	071569	1A5FR
071564	I TR		071574	1A57M
071569	J HLT		030252	J6252
071574	3 EEM	14	000000	300-0
071579	I TR		000000	00009

071634	I TR		072010	RBD10
071639	I TRA	03	071649	1A6DR
071644	I TR		071654	1A65R
071649	J HLT		000000	00000

PROGRAM 8CU10 CARD# 889

MEM ADDRESS	OP CODE	ASU	I ADDRESS	IMAGE
071654	3 EEM	14	000000	300-0
071655	LIP		000000	
071656	TRA	01	071656	TRA21
071649	2 SEL		000500	20500
071674	R WR		072026	RB020
071679	1 TRA	03	071679	TABR

071739	LIP	15	000000	0669
071744	1 TRA	01	071774	LA7XM
071749	2 SEL		000500	20500

NEW ADDRESS	OR	DOF	ADDRESS	THASE
071754	R	WR	072063	RB060
071759	I	TRA	03	1A7FR
071764	1	TR	071774	1A77M
071769	J	HLT	034500	JD500
071774	3	EEM	14	000000

071829	2	SR	000000	000000
071834	R	WR	072066	RB060
071839	I	TRA	03	1A8DR
071844	1	TR	071854	1A85M
071849	J	HLT	034500	JD500

MEM ADDRESS	OP CODE	ASU	I ADDRESS	IMAGE
071858	9 EEM	14	000000	305-6

071869	CONSTANTS			ADM
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071874	CONSTANTS			ADM
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071879	CONSTANTS			ADM
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071884	CONSTANTS			ADM
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071939	CONSTANTS			INT C
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071944	CONSTANTS			H 200
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071949	CONSTANTS			INT C
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IN SCUI 898
071958
071959
071964
071969
071974

CONSTANTS
CONSTANTS
CONSTANTS
CONSTANTS
CONSTANTS
CONSTANTS

CH 21
INT C
H 22
INT C
H 23

072029
072034
072039
072044
072049

CONSTANTS
CONSTANTS
CONSTANTS
CONSTANTS
CONSTANTS

CH 4
INT
CH 4
INT

PROGRAM 8CU10

CARD# 897

MEM ADDRESS	OP CODE	ASU	I ADDRESS	IMAGE
072054		CONSTANTS		CH 45
072059		CONSTANTS		
072064		CONSTANTS		
072069		CONSTANTS		INT
072074		CONSTANTS		CH 47
072079		CONSTANTS		

AA01 073000 LASN

AA02 ENT80

A02 ENT80

AA03 TITLE

ROUTINE 500- ADDITION TO 8CU10B

AA04 073004 TAE I 5 053804 TY#M
 AA05 073009 SET B 000006 0006
 AA06 073014 LOD 8 073160 C16-
 AA07 073019 UNL 7 073166 C160
 AA08 073024 SET B 4 000001 0#01
 AA09 073029 LOD 8 4 073172 C/7K
 AA10 073034 LDA # 073154 C15M
 AA11 073039 ULA * 073064 C06M
 AA12 073044 TMC O 11 073049 C-DR
 AA13 073049 SET B 000000 0000
 AA14 073054 SET B 000006 0006
 AA15 073059 SET B 1 000001 00#1
 AA16 073064 LOD 8 1 073161 C1WJ
 AA17 073069 UNL 7 1 073171 C1XJ
 AA18 073074 SBR % 8 073171 CJ7J
 AA19 073079 TMC O 11 073114 CJAM
 AA20 073084 SBR % 8 073171 CJ7J
 AA21 073089 TMC O 11 073099 C-IR
 AA22 073094 TR 1 073114 C11M
 AA23 073099 AAM @ 4 073064 C#6M
 AA24 073104 NTR X 073064 C06M
 AA25 073109 TR 1 073144 C14M
 AA26 073114 TAA I 1 073144 C1UM
 AA27 073119 SEL 2 000500 0500
 AA28 073124 WR R 073167 C16P
 AA29 073129 TAC I 3 073139 C1CR
 AA30 073134 TR 1 073144 C14M
 AA31 073139 HLT J 000500 0500
 AA32 073144 TAB I 2 073009 C0-R
 AA33 073149 TR 1 053804 T80M

TEST SET BIT REDUNDANT
 USING 1,2,4,8,BLK,DASH
 CHK THAT 901 COMES ON
 WHEN REDUNDANCIES ARE
 CORRECTED.

AA36
 AA37
 AA41
 AA35
 AA16

AA37
 AA40
 AA40
 AA26
 AA40

AA26
 AA16
 AA16
 AA32
 AA32

ERROR ROUTINE

AA39

AA05

AA34 TITLE

CONSTANTS & WORK AREA

AA35 073154 ADCON A 073161 C16J
 AA36 073160 CON 06 1248 -
 AA37 073161 CON 01 1
 AA38 073166 CON 05 248 -
 AA39 073170 CON 04 500
 AA40 073171 CON 01
 AA41 073172 CON 01 1

AA37