

FileResetAssemblerDebugHelp

Registers

A	08
BC	06 00
DE	00 00
HL	00 00
PSW	00 00
PC	0F B0
SP	FF FF
Int-Reg	00

Flag

S	0
Z	0
AC	0
P	0
C	0

Load me at: 4000

1

2

3

4

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15

16

17

18

<Program title>

jmp start

;data

;code

start: nop

LDA 8500

MOV B, A

LDA 8501

ADD B

STA 8502

RST 1

HLT

Decimal - Hex Conversion

Decimal

Hex

0

0

To Hex

To Dec

I/O Ports

0

-

+

00

Update Port Value

Memory

0

-

+

00

Update Memory

GNUSim8085 - 8085 Microprocessor Simulator

DataStackKeyPadMemoryI/O Ports

Start8500OK

Address (Hex)	Address	Data
2134	8500	6
2135	8501	2
2136	8502	8
2137	8503	0
2138	8504	0
2139	8505	0
213A	8506	0
213B	8507	0
213C	8508	0
213D	8509	0
213E	8510	0
213F	8511	0
2140	8512	0
2141	8513	0

Line NoAssembler Message

0Program assembled successfully

Simulator: Idle

FileResetAssemblerDebugHelp

Registers

A	04
BC	03 00
DE	00 00
HL	00 00
PSW	00 00
PC	0F B0
SP	FF FF
Int-Reg	00

Flag

S	0
Z	0
AC	0
P	0
C	0

Decimal - Hex Conversion

Decimal

Hex

0

0

To Hex

To Dec

I/O Ports

0

-

+

00

Update Port Value

Memory

0

-

+

00

Update Memory

Load me at

4000

1

2

3

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7

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15

16

17

18

<Program title>

jmp start

<data>

<code>

start: nop

LDA 8500

MOV B,A

LDA 8501

SUB B

STA 8502

RST 1

HLT

DataStackKeyPadMemoryI/O Ports

Start

8500

OK

Address (Hex)

Address

Data

2134

8500

3

2135

8501

7

2136

8502

4

2137

8503

0

2138

8504

0

2139

8505

0

213A

8506

0

213B

8507

0

213C

8508

0

213D

8509

0

213E

8510

0

213F

8511

0

2140

8512

0

2141

8513

0

Line No

Assembler Message

0

Program assembled successfully

Simulator: Idle

ResetAssemblerDebugHelp

Registers

A0A

BC0200

DE0000

HL0000

SW0000

PC0FBE

SPFFFF

-Reg00

Flag

S0

Z1

AC0

P1

C0

Decimal - Hex Conversion

Decimal

Hex

0

→To Hex

←To Dec

I/O Ports

-

+

00

Update Port Value

Memory

-

+

00

Update Memory

GNUSim8085 - 8085 Microprocessor Simulator

Load me at4000

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

<Program title>

jmp start

.data

.code

start: nop

LDA B500

MOV B,A

LDA 3501

MOV C,A

CPI 00

JZ LOOP

XRA A

LOOP1: ADD B

DCR C

JZ LOOP

JMP LOOP1

LOOP: STA 3502

HLT

DataStackKeyPadMem

Start3500

Address (Hex)	Address	Data
0DAC	3500	2
0DAD	3501	5
0DAE	3502	10
0DAF	3503	0
0DB0	3504	0
0DB1	3505	0
0DB2	3506	0
0DB3	3507	0
0DB4	3508	0
0DB5	3509	0
0DB6	3510	0
0DB7	3511	0
0DB8	3512	0
0DB9	3513	0

Line No	Assembler Message
0	Program assembled successfully

Registers

A/PSW	0x 05 93
BC	0x 0A 02
DE	0x 05 00
HL	0x 35 01
SP	0x FF FF
PC	0x 08 17

Flags

Z	<input type="checkbox"/>
S	<input checked="" type="checkbox"/>
P	<input type="checkbox"/>
C	<input checked="" type="checkbox"/>
AC	<input checked="" type="checkbox"/>



Load at 0x0800

main.asm

```
1 LXI H,3500H
2 MOV B,M
3 INX H
4 MOV C,M
5 MVI D,00H
6 MOV A,B
7 LOOP: SUB C
8 INR D
9 CMP C
10 JNC LOOP
11 STA 3503
12 MOV A,D
13 STA 3502H
14 HLT
```

Memory View

0x 3500

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
350	0A	02	05	00	00	00	00	00	00	00	00	00	00	00	00	00
351	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
352	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
353	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
354	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
355	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
356	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
357	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
358	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
359	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
35A	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
35B	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
35C	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
35D	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
35E	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
35F	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00

Start Address at: 0x 3300

FileResetAssemblerDebugHelp

Registers

A0A

BC0200

DE0002

HL000A

PSW0000

PC0FB0

SPFFFF

Int-Reg00

Flag

S0

Z1

AC0

P1

C0

Decimal - Hex Conversion

Decimal

0

Hex

0

To Hex

To Dec

I/O Ports

0

-

+

00

Update Port Value

Memory

0

-

+

00

Update Memory

Load me at4000

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

<Program title>

jmp start

;data

;code

start: nop

LHLD 2500

XCHG

LHLD 2502

DAD D

SHLD 2504

HLT

DataStackKeyPadMemoryI/O Ports

Start2500

OK

Address (Hex)AddressData

09C425002

09C525010

09C625028

09C725030

09C8250410

09C925050

09CA25060

09CB25070

09CC25080

09CD25090

09CE25100

09CF25110

09D025120

09D125130

Line NoAssembler Message

0Program assembled successfully

Simulator: Idle

94°FPartly sunny

Search

ENGIN

13:4313-06-2024

FileResetAssemblerDebugHelp

Registers

A	00
BC	02 00
DE	00 07
HL	00 05
PSW	00 00
PC	0F B8
SP	FF FF
Int-Reg	00

Flag

S	0
Z	1
AC	0
P	1
C	0

Load me at

4000

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

<Program title>

jmp start

<data>

<code>

start: nop

LHLD 2050

XCHG

LHLD 2052

MVI C,00

MOV A, E

SUB L

STA 2054

MOV A, D

SUB H

STA 2055

HLT

Decimal - Hex Conversion

Decimal

Hex

0

0

To Hex

To Dec

I/O Ports

0

-

+

00

Update Port Value

Memory

0

-

+

00

Update Memory

DataStackKeyPadMemoryI/O Ports

Start

2050

Address (Hex)	Address	Data
0802	2050	7
0803	2051	0
0804	2052	5
0805	2053	0
0806	2054	2
0807	2055	0
0808	2056	0
0809	2057	0
080A	2058	0
080B	2059	0
080C	2060	0
080D	2061	0
080E	2062	0
080F	2063	0

Line No	Assembler Message
0	Program assembled successfully



