

FileResetAssemblerDebugHelp

Registers

A09

BC0000

DE0000

HL0808

PSW0000

PC4219

SPFFFF

Int-Reg00

Flag

S0

Z1

AC0

P1

C0

Decimal - Hex Conversion

Decimal

Hex

00

00

To Hex

To Dec

I/O Ports

0-+00

Update Port Value

Memory

0-+00

Update Memory

Load me at

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

<Program title>

jmp start

/data

/code

start: nop

LXI H,2050

MOV C,M

DCR C

INX H

MOV A,M

LOOP1: INX H

JNC LOOP

MOV A,M

LOOP: DCR C

JNZ LOOP1

STA 2058

HLT

DataStackKeyPadMemoryI/O Ports

Start2050OK

Address (Hex)

Address

Data

0802

2050

6

0803

2051

9

0804

2052

0

0805

2053

0

0806

2054

0

0807

2055

0

0808

2056

0

0809

2057

0

080A

2058

9

080B

2059

0

080C

2060

0

080D

2061

0

Line No

Assembler Message

0

Program assembled successfully

Simulator: Idle

95°

Search

ENG

IN

5:44 PM

6/20/2024

GNUSim8085 - 8085 Microprocessor Simulator

FileResetAssemblerDebugHelp

Registers

A	06	S	0
BC	06 07	Z	1
DE	00 00	AC	0
HL	1F 40	P	1
PSW	00 00	C	0
PC	42 14		
SP	FF FF		
Int-Reg	00		

Decimal - Hex Conversion

DecimalHex

00

00

To HexTo Dec

I/O Ports

0-+00

Update Port Value

Memory

0-+00

Update Memory

Load me at

1234567891011121314151617181920

<Program title>

jmp start

/data

/code

start: nop

LDA 2001

MOV B,A

LDA 2002

MOV C,A

STA 2003

MOV A,B

STA 2004

HIT

DataStackKeyPadMemoryI/O Ports

Start2001OK

Address (Hex)	Address	Data
07D1	2001	6
07D2	2002	7
07D3	2003	7
07D4	2004	6
07D5	2005	0
07D6	2006	0
07D7	2007	0
07D8	2008	0
07D9	2009	0
07DA	2010	0
07DB	2011	0
07DC	2012	0

Line NoAssembler Message

0Program assembled successfully

Simulator: Idle

1

Windows Search Taskbar Icons

ENG IN

11:22 PM 6/21/2024

FileResetAssemblerDebugHelp

Registers

A15

BC0000

DE0000

HL1F48

PSW0000

PC421B

SPFFFF

Int-Reg00

Flag

S0

Z1

AC0

P1

C0

Decimal - Hex Conversion

DecimalHex

00

00

To Hex

To Dec

I/O Ports

0-+00

Update Port Value

Memory

0-+00

Update Memory

Load me at

1<<Program title>

2jmp start

3

4

5

6

7

8

9

10start: nop

11LXI H,8000

12MOV C,M

13MVI A,00

14MOV H,A

15LOOP: ADD C

16JNC SKIP

17INR B

18SKIP: DCR C

19JNZ LOOP

20LXI H,8007

21MOV M,A

22INX H

23MOV M,B

24HLT

25

26

27

DataStackKeyPadMemoryI/O Ports

Start8000OK

Address (Hex)AddressData

1F4080006

1F4180012

1F4280022

1F4380032

1F4480042

1F4580052

1F4680062

1F47800721

1F4880080

1F4980090

1F4A80100

1F4B80110

Line NoAssembler Message

0Program assembled successfully

Simulator: Idle

1

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11:37 PM 6/21/2024

FileResetAssemblerDebugHelp

Registers

A00

BC0600

DE0000

HL0D0B

PSW0000

PC4222

SPFFFF

Int-Reg00

Flag

S0

Z1

AC0

P1

C0

Decimal - Hex Conversion

Decimal

Hex

00

00

To Hex

To Dec

I/O Ports

0-+00

Update Port Value

Memory

0-+00

Update Memory

Load me at

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

; <Program title>

jmp start

;data

;code

start: nop

LOOP: LXI H, 3500

MVI D, 00

MVI C, 05

LOOP1: MOV A, H

INX H

CMP M

JNC LOOP2

MOV B, M

MOV M, A

DCX H

MOV M, B

INX H

MVI D, 01

LOOP2: DCR C

JNZ LOOP1

MOV A, D

RRC

JC LOOP

HLT

DataStackKeyPadMemoryI/O Ports

Start3500OK

Address (Hex)

Address

Data

0DAC

3500

9

0DAD

3501

6

0DAE

3502

0

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 NoAssembler Message

0Program assembled successfully

Simulator: Idle

23:44

21-06-2024

FileResetAssemblerDebugHelp

Registers

A	02	S	0
BC	00 00	Z	1
DE	00 00		
HL	08 09	AC	0
PSW	00 00		
PC	42 19	P	1
SP	FF FF		
Int-Reg	00	C	0

Flag

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

```
1
2 ;<Program title>
3
4 jmp start
5
6 ;data
7
8
9 ;code
10 start: nop
11 LXI H,2050
12 MOV C,M
13 DCR C
14 INX H
15 MOV A,M
16 LOOP1: INX H
17 CMP M
18 JC LOOP
19 MOV A,M
20 LOOP: DCR C
21 JNZ LOOP1
22 STA 2058
23 HLT
24
25
26
```

DataStackKeyPadMemoryI/O Ports

Start

2050

OK

Address (Hex)	Address	Data
0802	2050	7
0803	2051	8
0804	2052	4
0805	2053	3
0806	2054	6
0807	2055	11
0808	2056	39
0809	2057	2
080A	2058	2
080B	2059	0
080C	2060	0
080D	2061	0

Line No

Assembler Message

0

Program assembled successfully

Simulator: Idle

1

Windows

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Edge

VS Code

PowerPoint

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Word

Terminal

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IN

11:32 PM

6/21/2024

FileResetAssemblerDebugHelp

Registers

A00

BC0400

DE0000

HL0DB1

PSW0000

PC4222

SPFFFF

Int-Reg00

Flag

S0

Z1

AC0

P1

C0

Decimal - Hex Conversion

DecimalHex

00

To HexTo Dec

I/O Ports

0-+00

Update Port Value

Memory

0-+00

Update Memory

Load me at

123456789101112131415161718192021222324252627282930313233

<Program title>

jmp start

/data

/code

start: nop

LOOP: LXI H,3500

MVI D,00

MVI C,05

LOOP1: MOV A,M

INX H

OMP M

JNC LOOP2

MOV B,M

MOV M,A

DCX H

MOV M,B

INX H

MVI D,01

LOOP2: DCR C

JNZ LOOP1

MOV A,D

RRC

JC LOOP

HLT

DataStackKeyPadMemoryI/O Ports

Start3500OK

Address (Hex)AddressData

0DAC35004

0DAD35013

0DAE35022

0DAF35030

0DB035040

0DB135050

0DB235060

0DB335070

0DB435080

0DB535090

0DB635100

0DB735110

Line NoAssembler Message

0Program assembled successfully

Simulator: Idle

1

Windows Search Taskbar Icons

System Tray



FileResetAssemblerDebugHelp

Registers

A02

BC0003

DE0002

HL0000

PSW0000

PC421F

SPFFFF

Int-Reg00

Flag

S0

Z1

AC0

P1

C0

Decimal - Hex Conversion

Decimal

Hex

00

00

To Hex

To Dec

I/O Ports

0-+00

Update Port Value

Memory

0-+00

Update Memory

Load me at

1;<Program title>

2;

3jmp start

4;

5/data

6;

7;

8;

9;code

10start: nop

11LDA 2001

12MOV B,A

13MVI C,#01

14MVI E,#01

15LOOP: MOV D,C

16MVI A,60H

17LP: ADD E

18DCR D

19JNZ LP

20MOV E,A

21INR C

22DCR B

23JNZ LOOP

24MOV A,E

25STA 2010

26HLT

DataStackKeyPadMemoryI/O Ports

Start2001OK

Address (Hex)AddressData

07D120012

07D220020

07D320030

07D420040

07D520050

07D620060

07D720070

07D820080

07D920090

07DA20102

07DB20110

07DC20120

Line NoAssembler Message

0Program assembled successfully

Simulator: Idle

95°

Windows Taskbar Icons

System Tray

1:27 PM6/20/2024