



Mars Simulator

CSE331 Computer Organization Problem Session#1

User Interface

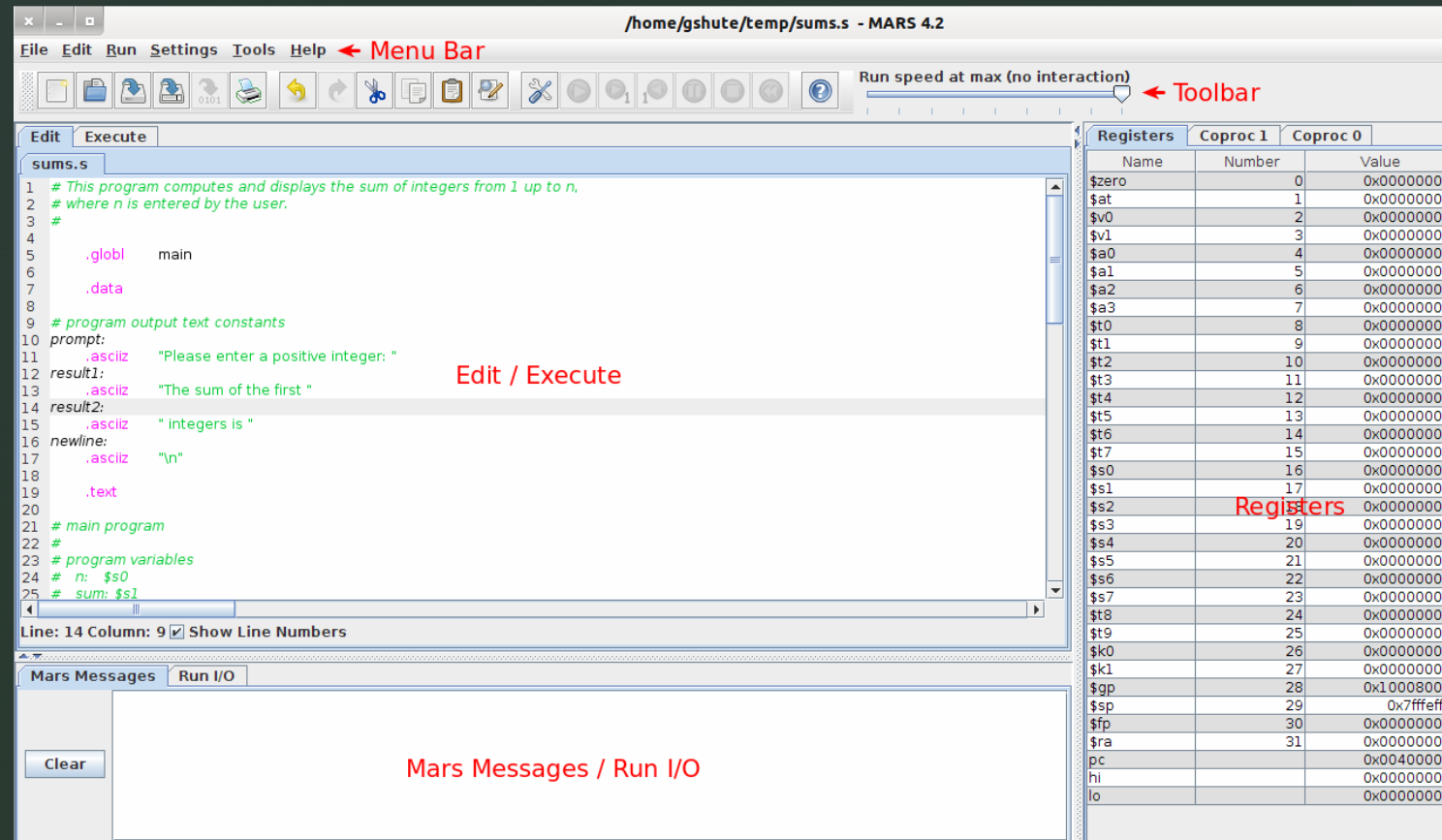


Figure 1. There are five important areas in the Mars user interface. They are named in the diagram below.



Basic Operation



Create a New File

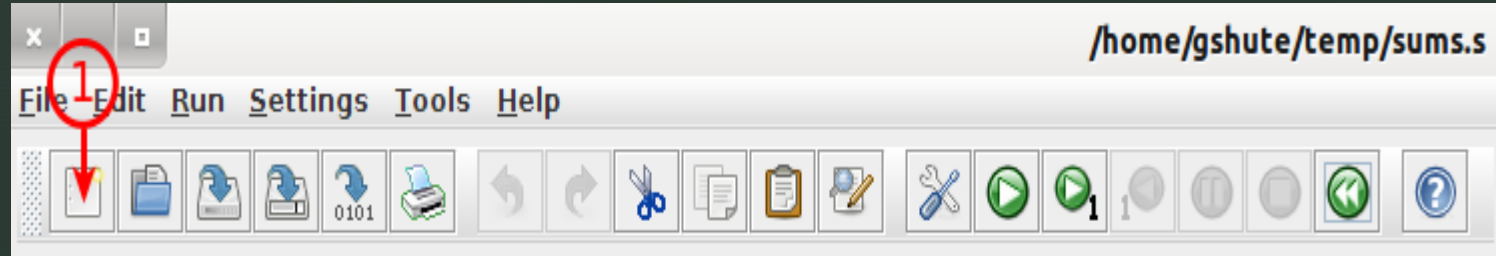


Figure 2: You can create a new MIPS assembly language file clicking on the "New" new toolbar button.

Assembling a File

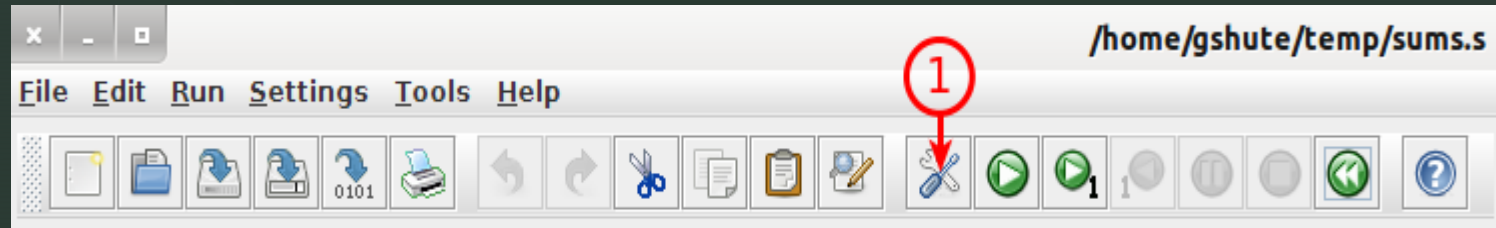


Figure 3: A MAL program is assembled by clicking on the "Assemble" assemble button

Running a Program

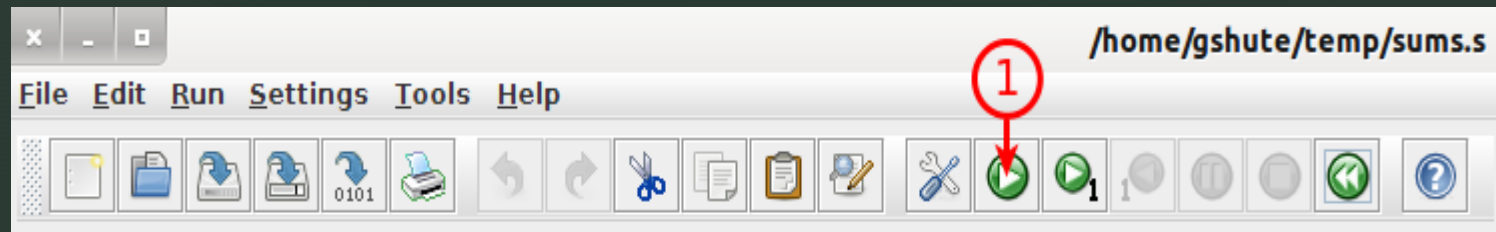





Figure 4: A MAL program is run by clicking on the "Go" go button.

Run Menu



Menu Item	Icon	Accel	Description
Assemble		F3	Assemble and load the current file
Go		F5	Run the current loaded program
Step		F7	Run a single instruction of the current loaded program
Backstep		F8	Undo the last executed instruction
Pause		F9	Pause execution of the current loaded program
Stop		F11	Stop execution of the current loaded program
Reset		F12	Reload the current assembled file
Clear All Breakpoints		Ctrl-K	Clear all breakpoints
Toggle All Breakpoints		Ctrl-T	Toggle all breakpoints

Printing a character :

- data
- character : .byte 'a'
- .text
- li \$v0, 11

#11=system code for printing a character, \$v0=register that gets the system code for printing as value

- la \$a0, character

#'a'=our example character, \$a0=register that accepts the character for printing

- Syscall

#Call to the System to execute the instructions and print the character at the a0

C:\Users\ASUS\Desktop\mips2.asm - MARS 4.5

File Edit Run Settings Tools Help

Run speed at max (no interaction)

Edit Execute

Text Segment

Bkpt	Address	Code	Basic	Source
	0x00400000	0x2402000b	addiu \$2,\$0,0x0000000b	4: li \$v0, 11
	0x00400004	0x3c011001	lui \$1,0x00001001	6: la \$a0, character
	0x00400008	0x34240000	ori \$4,\$1,0x00000000	
	0x0040000c	0x0000000c	Syscall	8: Syscall

Data Segment

Address	Value (+0)	Value (+4)	Value (+8)	Value (+c)	Value (+10)	Value (+14)	Value (+18)	Value (+1c)
0x10010000	0x00000061	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010020	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010040	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010060	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010080	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100a0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100c0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100e0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000

Registers Coproc 1 Coproc 0

Name	Number	Value
\$zero	0	0x00000000
\$at	1	0x00000000
\$v0	2	0x00000000
\$v1	3	0x00000000
\$a0	4	0x00000000
\$a1	5	0x00000000
\$a2	6	0x00000000
\$a3	7	0x00000000
\$t0	8	0x00000000
\$t1	9	0x00000000
\$t2	10	0x00000000
\$t3	11	0x00000000
\$t4	12	0x00000000
\$t5	13	0x00000000
\$t6	14	0x00000000
\$t7	15	0x00000000
\$s0	16	0x00000000
\$s1	17	0x00000000
\$s2	18	0x00000000
\$s3	19	0x00000000
\$s4	20	0x00000000
\$s5	21	0x00000000
\$s6	22	0x00000000
\$s7	23	0x00000000
\$t8	24	0x00000000
\$t9	25	0x00000000
\$k0	26	0x00000000
\$k1	27	0x00000000
\$gp	28	0x10008000
\$sp	29	0x7ffffc
\$fp	30	0x00000000
\$ra	31	0x00000000
pc		0x00400000
hi		0x00000000
lo		0x00000000

Mars Messages Run I/O

Assembly: assembling C:\Users\ASUS\Desktop\mips2.asm

Clear Assemble: operation completed successfully.

CAUsers\ASUS\Desktop\mips2.asm - MARS 4.5

File Edit Run Settings Tools Help

Run speed at max (no interaction)

Edit Execute

Text Segment

Bkpt	Address	Code	Basic	Source
<input type="checkbox"/>	0x00400000	0x2402000b	addiu \$2,\$0,0x0000000b	4: li \$v0, 11
<input type="checkbox"/>	0x00400004	0x3c011001	lui \$1,0x00001001	6: la \$a0, character
<input type="checkbox"/>	0x00400008	0x34240000	ori \$4,\$1,0x00000000	
<input type="checkbox"/>	0x0040000c	0x0000000c	Syscall	8: Syscall

Data Segment

Address	Value (+0)	Value (+4)	Value (+8)	Value (+c)	Value (+10)	Value (+14)	Value (+18)	Value (+1c)
0x10010000	0x000000e1	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010020	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010040	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010060	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010080	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100a0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100c0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100e0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000

0x10010000 (.data) Hexadecimal Addresses Hexadecimal Values ASCII

Mars Messages Run I/O

268500992

Clear -- program is finished running (dropped off bottom) --

Registers Coproc 1 Coproc 0

Name	Number	Value
\$zero	0	0x00000000
\$at	1	0x00000000
\$v0	2	0x0000000b
\$v1	3	0x00000000
\$a0	4	0x00000000
\$a1	5	0x00000000
\$a2	6	0x00000000
\$a3	7	0x00000000
\$t0	8	0x00000000
\$t1	9	0x00000000
\$t2	10	0x00000000
\$t3	11	0x00000000
\$t4	12	0x00000000
\$t5	13	0x00000000
\$t6	14	0x00000000
\$t7	15	0x00000000
\$s0	16	0x00000000
\$s1	17	0x00000000
\$s2	18	0x00000000
\$s3	19	0x00000000
\$s4	20	0x00000000
\$s5	21	0x00000000
\$s6	22	0x00000000
\$s7	23	0x00000000
\$t8	24	0x00000000
\$t9	25	0x00000000
\$k0	26	0x00000000
\$k1	27	0x00000000
\$gp	28	0x10008000
\$sp	29	0x7fffffc0
\$fp	30	0x00000000
\$ra	31	0x00000000
pc		0x00400004
hi		0x00000000
lo		0x00000000

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File Edit Run Settings Tools Help

Run speed at max (no interaction)

Text Segment

Bkpt	Address	Code	Basic	Source
	0x00400000	0x2402000b	addiu \$2,\$0,0x0000000b	4: li \$v0, 11
	0x00400004	0x3c011001	lui \$1,0x00001001	6: la \$a0, character
	0x00400008	0x34240000	ori \$4,\$1,0x00000000	
	0x0040000c	0x0000000c	Syscall	8: Syscall

Data Segment

Address	Value (+0)	Value (+4)	Value (+8)	Value (+c)	Value (+10)	Value (+14)	Value (+18)	Value (+1c)
0x10010000	0x00000061	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010020	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010040	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010060	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010080	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100a0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100c0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100e0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000

Registers

Name	Number	Value
\$zero	0	0x00000000
\$at	1	0x10010000
\$v0	2	0x0000000b
\$v1	3	0x00000000
\$a0	4	0x00000000
\$a1	5	0x00000000
\$a2	6	0x00000000
\$a3	7	0x00000000
\$t0	8	0x00000000
\$t1	9	0x00000000
\$t2	10	0x00000000
\$t3	11	0x00000000
\$t4	12	0x00000000
\$t5	13	0x00000000
\$t6	14	0x00000000
\$t7	15	0x00000000
\$s0	16	0x00000000
\$s1	17	0x00000000
\$s2	18	0x00000000
\$s3	19	0x00000000
\$s4	20	0x00000000
\$s5	21	0x00000000
\$s6	22	0x00000000
\$s7	23	0x00000000
\$t8	24	0x00000000
\$t9	25	0x00000000
\$k0	26	0x00000000
\$k1	27	0x00000000
\$gp	28	0x10008000
\$sp	29	0x7fffffc
\$fp	30	0x00000000
\$ra	31	0x00000000
pc		0x00400008
hi		0x00000000
lo		0x00000000

Mars Messages Run I/O

268500992
-- program is finished running (dropped off bottom) --

Clear

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File Edit Run Settings Tools Help

Run speed at max (no interaction)

Edit Execute

Text Segment

Bkpt	Address	Code	Basic	Source
	0x00400000	0x2402000b	addiu \$2,\$0,0x0000000b	4: li \$v0, 11
	0x00400004	0x3c011001	lui \$1,0x00001001	6: la \$a0, character
	0x00400008	0x34240000	ori \$4,\$1,0x00000000	
	0x0040000c	0x0000000c	Syscall	8: Syscall

Data Segment

Address	Value (+0)	Value (+4)	Value (+8)	Value (+c)	Value (+10)	Value (+14)	Value (+18)	Value (+1c)
0x10010000	0x00000061	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010020	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010040	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010060	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010080	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100a0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100c0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100e0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000

Registers

Name	Number	Value
\$zero	0	0x00000000
\$at	1	0x10010000
\$v0	2	0x0000000b
\$v1	3	0x00000000
\$a0	4	0x10010000
\$a1	5	0x00000000
\$a2	6	0x00000000
\$a3	7	0x00000000
\$t0	8	0x00000000
\$t1	9	0x00000000
\$t2	10	0x00000000
\$t3	11	0x00000000
\$t4	12	0x00000000
\$t5	13	0x00000000
\$t6	14	0x00000000
\$t7	15	0x00000000
\$s0	16	0x00000000
\$s1	17	0x00000000
\$s2	18	0x00000000
\$s3	19	0x00000000
\$s4	20	0x00000000
\$s5	21	0x00000000
\$s6	22	0x00000000
\$s7	23	0x00000000
\$t8	24	0x00000000
\$t9	25	0x00000000
\$k0	26	0x00000000
\$k1	27	0x00000000
\$gp	28	0x10008000
\$sp	29	0x7fffffc
\$fp	30	0x00000000
\$ra	31	0x00000000
pc		0x0040000c
hi		0x00000000
lo		0x00000000

Mars Messages Run I/O

268500992

-- program is finished running (dropped off bottom) --

Clear

Printing a number :

.data

age : .word 21

.text

li \$v0, 1

#1= system code for printing a word (32 bit integer), \$v0=register that gets the system code for printing as value

la \$a0, age

age is the variable that contains the word to be printed, \$a0=register that accepts the word for printing

syscall

#Call to the System to execute the instructions and print the word at a0

C:\Users\ASUS\Desktop\mips1.asm - MARS 4.5

File Edit Run Settings Tools Help

Run speed at max (no interaction)

Edit Execute

Text Segment

Bkpt	Address	Code	Basic	Source
	0x00400000	0x24020001	addiu \$2,\$0,0x00000001	4: li \$v0, 1
	0x00400004	0x3c011001	lui \$1,0x00001001	6: la \$a0, age
	0x00400008	0x34240000	ori \$4,\$1,0x00000000	
	0x0040000c	0x0000000c	syscall	8: syscall

Data Segment

Address	Value (+0)	Value (+4)	Value (+8)	Value (+c)	Value (+10)	Value (+14)	Value (+18)	Value (+1c)
0x10010000	0x00000015	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010020	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010040	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010060	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010080	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100a0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100c0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100e0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000

0x10010000 (.data) ☒ Hexadecimal Addresses ☒ Hexadecimal Values ☐ ASCII

Mars Messages Run I/O

assembly: assembly C:\Users\ASUS\Desktop\mips1.asm

Clear

Assembly: operation completed successfully.

Registers Coproc 1 Coproc 0

Name	Number	Value
\$zero	0	0x00000000
\$at	1	0x00000000
\$v0	2	0x00000000
\$v1	3	0x00000000
\$a0	4	0x00000000
\$a1	5	0x00000000
\$a2	6	0x00000000
\$a3	7	0x00000000
\$t0	8	0x00000000
\$t1	9	0x00000000
\$t2	10	0x00000000
\$t3	11	0x00000000
\$t4	12	0x00000000
\$t5	13	0x00000000
\$t6	14	0x00000000
\$t7	15	0x00000000
\$s0	16	0x00000000
\$s1	17	0x00000000
\$s2	18	0x00000000
\$s3	19	0x00000000
\$s4	20	0x00000000
\$s5	21	0x00000000
\$s6	22	0x00000000
\$s7	23	0x00000000
\$t8	24	0x00000000
\$t9	25	0x00000000
\$k0	26	0x00000000
\$k1	27	0x00000000
\$gp	28	0x10008000
\$sp	29	0x7fffffc
\$fp	30	0x00000000
\$ra	31	0x00000000
pc		0x00400000
hi		0x00000000
lo		0x00000000

C:\Users\ASUS\Desktop\mips1.asm - MARS 4.5

File Edit Run Settings Tools Help

Run speed at max (no interaction)

Edit Execute

Text Segment

Bkpt	Address	Code	Basic	Source
	0x00400000	0x24020001	addiu \$2,\$0,0x00000001	4: li \$v0, 1
	0x00400004	0x3c011001	lui \$1,0x00001001	6: la \$a0, age
	0x00400008	0x34240000	ori \$4,\$1,0x00000000	
	0x0040000c	0x0000000c	syscall	8: syscall

Data Segment

Address	Value (+0)	Value (+4)	Value (+8)	Value (+c)	Value (+10)	Value (+14)	Value (+18)	Value (+1c)
0x10010000	0x00000015	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010020	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010040	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010060	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010080	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100a0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100c0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100e0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000

0x10010000 (.data) Hexadecimal Addresses Hexadecimal Values ASCII

Mars Messages Run I/O

268500992
-- program is finished running (dropped off bottom) --

Clear

Registers Coproc 1 Coproc 0

Name	Number	Value
\$zero	0	0x00000000
\$at	1	0x00000000
\$v0	2	0x00000001
\$v1	3	0x00000000
\$a0	4	0x00000000
\$a1	5	0x00000000
\$a2	6	0x00000000
\$a3	7	0x00000000
\$t0	8	0x00000000
\$t1	9	0x00000000
\$t2	10	0x00000000
\$t3	11	0x00000000
\$t4	12	0x00000000
\$t5	13	0x00000000
\$t6	14	0x00000000
\$t7	15	0x00000000
\$s0	16	0x00000000
\$s1	17	0x00000000
\$s2	18	0x00000000
\$s3	19	0x00000000
\$s4	20	0x00000000
\$s5	21	0x00000000
\$s6	22	0x00000000
\$s7	23	0x00000000
\$t8	24	0x00000000
\$t9	25	0x00000000
\$k0	26	0x00000000
\$k1	27	0x00000000
\$gp	28	0x10008000
\$sp	29	0x7fffffc
\$fp	30	0x00000000
\$ra	31	0x00000000
\$pc		0x00400004
\$hi		0x00000000
\$lo		0x00000000

Run speed at max (no interaction)

0101

Edit Execute

Text Segment

Bkpt	Address	Code	Basic	Source
	0x00400000	0x24020001	addiu \$2,\$0,0x00000001	4: li \$v0, 1
	0x00400004	0x3c011001	lui \$1,0x00001001	6: la \$a0, age
	0x00400008	0x34240000	ori \$4,\$1,0x00000000	
	0x0040000c	0x0000000c	syscall	8: syscall

Data Segment

Address	Value (+0)	Value (+4)	Value (+8)	Value (+c)	Value (+10)	Value (+14)	Value (+18)	Value (+1c)
0x10010000	0x00000015	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010020	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010040	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010060	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010080	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100a0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100c0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100e0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000

0x10010000 (.data) Hexadecimal Addresses Hexadecimal Values ASCII

Mars Messages Run I/O

268500992
-- program is finished running (dropped off bottom) --

Clear

Registers Coproc 1 Coproc 0

Name	Number	Value
\$zero	0	0x00000000
\$at	1	0x10010000
\$v0	2	0x00000001
\$v1	3	0x00000000
\$a0	4	0x00000000
\$a1	5	0x00000000
\$a2	6	0x00000000
\$a3	7	0x00000000
\$t0	8	0x00000000
\$t1	9	0x00000000
\$t2	10	0x00000000
\$t3	11	0x00000000
\$t4	12	0x00000000
\$t5	13	0x00000000
\$t6	14	0x00000000
\$t7	15	0x00000000
\$s0	16	0x00000000
\$s1	17	0x00000000
\$s2	18	0x00000000
\$s3	19	0x00000000
\$s4	20	0x00000000
\$s5	21	0x00000000
\$s6	22	0x00000000
\$s7	23	0x00000000
\$t8	24	0x00000000
\$t9	25	0x00000000
\$k0	26	0x00000000
\$k1	27	0x00000000
\$gp	28	0x10008000
\$sp	29	0x7fffffc
\$fp	30	0x00000000
\$ra	31	0x00000000
pc		0x00400008
hi		0x00000000
lo		0x00000000

File Edit Run Settings Tools Help

Run speed at max (no interaction)

Edit Execute

Text Segment

Bkpt	Address	Code	Basic	Source
	0x00400000	0x24020001	addiu \$2,\$0,0x00000001	4: li \$v0, 1
	0x00400004	0x3c011001	lui \$1,0x00001001	6: la \$a0, age
	0x00400008	0x34240000	ori \$4,\$1,0x00000000	
	0x0040000c	0x0000000c	syscall	8: syscall

Data Segment

Address	Value (+0)	Value (+4)	Value (+8)	Value (+c)	Value (+10)	Value (+14)	Value (+18)	Value (+1c)
0x10010000	0x00000015	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010020	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010040	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010060	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010080	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100a0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100c0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100e0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000

Mars Messages Run I/O

268500992

-- program is finished running (dropped off bottom) --

Clear

Registers Coproc 1 Coproc 0

Name	Number	Value
\$zero	0	0x00000000
\$at	1	0x10010000
\$v0	2	0x00000001
\$v1	3	0x00000000
\$a0	4	0x10010000
\$a1	5	0x00000000
\$a2	6	0x00000000
\$a3	7	0x00000000
\$t0	8	0x00000000
\$t1	9	0x00000000
\$t2	10	0x00000000
\$t3	11	0x00000000
\$t4	12	0x00000000
\$t5	13	0x00000000
\$t6	14	0x00000000
\$t7	15	0x00000000
\$s0	16	0x00000000
\$s1	17	0x00000000
\$s2	18	0x00000000
\$s3	19	0x00000000
\$s4	20	0x00000000
\$s5	21	0x00000000
\$s6	22	0x00000000
\$s7	23	0x00000000
\$t8	24	0x00000000
\$t9	25	0x00000000
\$k0	26	0x00000000
\$k1	27	0x00000000
\$gp	28	0x10008000
\$sp	29	0x7fffffc
\$fp	30	0x00000000
\$ra	31	0x00000000
pc		0x0040000c
hi		0x00000000
lo		0x00000000

Sum of Two Numbers

- `.text`
- `li $t0, 5` `# $t0 register'ına 5 değerini yükle`
- `li $t1, 3` `# $t1 register'ına 3 değerini yükle`
- `add $t2, $t0, $t1` `# $t0 + $t1, sonuç $t2'de saklanır`
- `li $v0, 1` `# print integer sistem çağrısı`
- `move $a0, $t2` `# $t2'deki sonucu $a0'a kopyala`
- `syscall` `# sonucu yazdır`
- `li $v0, 10` `# programı sonlandır`
- `syscall`

C:\Users\ASUS\Desktop\mips3.asm - MARS 4.5

File Edit Run Settings Tools Help

Run speed at max (no interaction)

Edit Execute

Text Segment

Bkpt	Address	Code	Basic	Source
	0x00400000	0x24080005	addiu \$8,\$0,0x00000005	5: li \$t0, 5 # \$t0 register'ına 5 değerini yükle
	0x00400004	0x24090003	addiu \$9,\$0,0x00000003	6: li \$t1, 3 # \$t1 register'ına 3 değerini yükle
	0x00400008	0x01095020	add \$10,\$8,\$9	8: add \$t2, \$t0, \$t1 # \$t0 + \$t1, sonuç \$t2'de saklanır
	0x0040000c	0x24020001	addiu \$2,\$0,0x00000001	10: li \$v0, 1 # print integer sistem çağırısı
	0x00400010	0x000a2021	addu \$4,\$0,\$10	11: move \$a0, \$t2 # \$t2'deki sonucu \$a0'a kopyala
	0x00400014	0x0000000c	syscall	12: syscall # sonucu yazdır
	0x00400018	0x2402000a	addiu \$2,\$0,0x0000000a	14: li \$v0, 10 # programı sonlandır
	0x0040001c	0x0000000c	syscall	15: syscall

Data Segment

Address	Value (+0)	Value (+4)	Value (+8)	Value (+c)	Value (+10)	Value (+14)	Value (+18)	Value (+1c)
0x10010000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010020	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010040	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010060	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010080	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100a0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100c0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100e0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000

0x10010000 (.data) Hexadecimal Addresses Hexadecimal Values ASCII

Registers Coproc 1 Coproc 0

Name	Number	Value
\$8 (vaddr)	8	0x00000000
\$12 (status)	12	0x0000ff11
\$13 (cause)	13	0x00000000
\$14 (epc)	14	0x00000000

C:\Users\ASUS\Desktop\mips4.asm - MARS 4.5

File Edit Run Settings Tools Help

Run speed at max (no interaction)

Edit Execute

Text Segment

Bkpt	Address	Code	Basic	Source
	0x00400000	0x24080005	addiu \$8,\$0,0x00000005	5: li \$t0, 5 # \$t0 register'ına 5 değerini yükle
	0x00400004	0x24090003	addiu \$9,\$0,0x00000003	6: li \$t1, 3 # \$t1 register'ına 3 değerini yükle
	0x00400008	0x01095020	add \$10,\$8,\$9	8: add \$t2, \$t0, \$t1 # \$t0 + \$t1, sonuç \$t2'de saklanır
	0x0040000c	0x24020001	addiu \$2,\$0,0x00000001	10: li \$v0, 1 # print integer sistem çağırısı
	0x00400010	0x000a2021	addu \$4,\$0,\$10	11: move \$a0, \$t2 # \$t2'deki sonucu \$a0'a kopyala
	0x00400014	0x0000000c	syscall	12: syscall # sonucu yazdır
	0x00400018	0x2402000a	addiu \$2,\$0,0x0000000a	14: li \$v0, 10 # programı sonlandır
	0x0040001c	0x0000000c	syscall	15: syscall

Data Segment

Address	Value (+0)	Value (+4)	Value (+8)	Value (+c)	Value (+10)	Value (+14)	Value (+18)	Value (+1c)
0x10010000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010020	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010040	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010060	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010080	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100a0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100c0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100e0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000

0x10010000 (.data) Hexadecimal Addresses Hexadecimal Values ASCII

Registers

Name	Number	Value
\$zero	0	0x00000000
\$at	1	0x00000000
\$v0	2	0x00000000
\$v1	3	0x00000000
\$a0	4	0x00000000
\$a1	5	0x00000000
\$a2	6	0x00000000
\$a3	7	0x00000000
\$t0	8	0x00000005
\$t1	9	0x00000000
\$t2	10	0x00000000
\$t3	11	0x00000000
\$t4	12	0x00000000
\$t5	13	0x00000000
\$t6	14	0x00000000
\$t7	15	0x00000000
\$s0	16	0x00000000
\$s1	17	0x00000000
\$s2	18	0x00000000
\$s3	19	0x00000000
\$s4	20	0x00000000
\$s5	21	0x00000000
\$s6	22	0x00000000
\$s7	23	0x00000000
\$t8	24	0x00000000
\$t9	25	0x00000000
\$k0	26	0x00000000
\$k1	27	0x00000000
\$gp	28	0x10008000
\$sp	29	0x7fffffc
\$fp	30	0x00000000
\$ra	31	0x00000000
pc		0x00400004
hi		0x00000000
lo		0x00000000

CAUsers\ASUS\Desktop\mips4.asm - MARS 4.5

File Edit Run Settings Tools Help

Run speed at max (no interaction)

Edit Execute

Text Segment

Bkpt	Address	Code	Basic	Source
	0x00400000	0x24080005	addiu \$8,\$0,0x00000005	5: li \$t0, 5 # \$t0 register'ına 5 değerini yükle
	0x00400004	0x24090003	addiu \$9,\$0,0x00000003	6: li \$t1, 3 # \$t1 register'ına 3 değerini yükle
	0x00400008	0x01095020	add \$t0,\$8,\$9	8: add \$t2, \$t0, \$t1 # \$t0 + \$t1, sonuç \$t2'de saklanır
	0x0040000c	0x24020001	addiu \$2,\$0,0x00000001	10: li \$v0, 1 # print integer sistem çağırısı
	0x00400010	0x000a2021	addu \$4,\$0,\$t0	11: move \$a0, \$t2 # \$t2'deki sonucu \$a0'a kopyala
	0x00400014	0x0000000c	syscall	12: syscall # sonucu yazdır
	0x00400018	0x2402000a	addiu \$2,\$0,0x0000000a	14: li \$v0, 10 # programı sonlandır
	0x0040001c	0x0000000c	syscall	15: syscall

Data Segment

Address	Value (+0)	Value (+4)	Value (+8)	Value (+c)	Value (+10)	Value (+14)	Value (+18)	Value (+1c)
0x10010000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010020	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010040	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010060	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010080	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100a0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100c0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100e0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000

0x10010000 (.data) Hexadecimal Addresses Hexadecimal Values ASCII

Registers Coproc 1 Coproc 0

Name	Number	Value
\$zero	0	0x00000000
\$at	1	0x00000000
\$v0	2	0x00000000
\$v1	3	0x00000000
\$a0	4	0x00000000
\$a1	5	0x00000000
\$a2	6	0x00000000
\$a3	7	0x00000000
\$t0	8	0x00000005
\$t1	9	0x00000003
\$t2	10	0x00000000
\$t3	11	0x00000000
\$t4	12	0x00000000
\$t5	13	0x00000000
\$t6	14	0x00000000
\$t7	15	0x00000000
\$s0	16	0x00000000
\$s1	17	0x00000000
\$s2	18	0x00000000
\$s3	19	0x00000000
\$s4	20	0x00000000
\$s5	21	0x00000000
\$s6	22	0x00000000
\$s7	23	0x00000000
\$s8	24	0x00000000
\$s9	25	0x00000000
\$k0	26	0x00000000
\$k1	27	0x00000000
\$gp	28	0x10008000
\$sp	29	0x7ffffc00
\$fp	30	0x00000000
\$ra	31	0x00000000
pc		0x00400008
hi		0x00000000
lo		0x00000000

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File Edit Run Settings Tools Help

Run speed at max (no interaction)

Edit Execute

Text Segment

Bkpt	Address	Code	Basic	Source
<input type="checkbox"/>	0x00400000	0x24080005	addiu \$8,\$0,0x00000005	5: li \$t0, 5 # \$t0 register'ına 5 değerini yükle
<input type="checkbox"/>	0x00400004	0x24090003	addiu \$9,\$0,0x00000003	6: li \$t1, 3 # \$t1 register'ına 3 değerini yükle
<input type="checkbox"/>	0x00400008	0x01095020	add \$10,\$8,\$9	8: add \$t2, \$t0, \$t1 # \$t0 + \$t1, sonuç \$t2'de saklanır
<input type="checkbox"/>	0x0040000c	0x24020001	addiu \$2,\$0,0x00000001	10: li \$v0, 1 # print integer sistem çağırısı
<input type="checkbox"/>	0x00400010	0x000a2021	addu \$4,\$0,\$10	11: move \$a0, \$t2 # \$t2'deki sonucu \$a0'a kopyala
<input type="checkbox"/>	0x00400014	0x0000000c	syscall	12: syscall # sonucu yazdır
<input type="checkbox"/>	0x00400018	0x2402000a	addiu \$2,\$0,0x0000000a	14: li \$v0, 10 # programı sonlandır
<input type="checkbox"/>	0x0040001c	0x0000000c	syscall	15: syscall

Data Segment

Address	Value (+0)	Value (+4)	Value (+8)	Value (+c)	Value (+10)	Value (+14)	Value (+18)	Value (+1c)
0x10010000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010020	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010040	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010060	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010080	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100a0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100c0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100e0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000

0x10010000 (.data) Hexadecimal Addresses Hexadecimal Values ASCII

Registers

Name	Number	Value
\$zero	0	0x00000000
\$at	1	0x00000000
\$v0	2	0x00000000
\$v1	3	0x00000000
\$a0	4	0x00000000
\$a1	5	0x00000000
\$a2	6	0x00000000
\$a3	7	0x00000000
\$t0	8	0x00000005
\$t1	9	0x00000003
\$t2	10	0x00000008
\$t3	11	0x00000000
\$t4	12	0x00000000
\$t5	13	0x00000000
\$t6	14	0x00000000
\$t7	15	0x00000000
\$s0	16	0x00000000
\$s1	17	0x00000000
\$s2	18	0x00000000
\$s3	19	0x00000000
\$s4	20	0x00000000
\$s5	21	0x00000000
\$s6	22	0x00000000
\$s7	23	0x00000000
\$s8	24	0x00000000
\$t9	25	0x00000000
\$k0	26	0x00000000
\$k1	27	0x00000000
\$gp	28	0x10008000
\$sp	29	0x7fffffc
\$fp	30	0x00000000
\$ra	31	0x00000000
pc		0x0040000c
hi		0x00000000
lo		0x00000000

C:\Users\ASUS\Desktop\mips4.asm - MARS 4.5

File Edit Run Settings Tools Help

Run speed at max (no interaction)

Edit Execute

Text Segment

Bkpt	Address	Code	Basic	Source
	0x00400000	0x24080005	addiu \$8,\$0,0x00000005	5: li \$t0, 5 # \$t0 register'ına 5 değerini yükle
	0x00400004	0x24090003	addiu \$9,\$0,0x00000003	6: li \$t1, 3 # \$t1 register'ına 3 değerini yükle
	0x00400008	0x01095020	add \$10,\$8,\$9	8: add \$t2, \$t0, \$t1 # \$t0 + \$t1, sonuç \$t2'de saklanır
	0x0040000c	0x24020001	addiu \$2,\$0,0x00000001	10: li \$v0, 1 # print integer sistem çağırısı
	0x00400010	0x000a2021	addu \$4,\$0,\$10	11: move \$a0, \$t2 # \$t2'deki sonucu \$a0'a kopyala
	0x00400014	0x0000000c	syscall	12: syscall # sonucu yazdır
	0x00400018	0x2402000a	addiu \$2,\$0,0x0000000a	14: li \$v0, 10 # programı sonlandır
	0x0040001c	0x0000000c	syscall	15: syscall

Data Segment

Address	Value (+0)	Value (+4)	Value (+8)	Value (+c)	Value (+10)	Value (+14)	Value (+18)	Value (+1c)
0x10010000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010020	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010040	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010060	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010080	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100a0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100c0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100e0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000

0x10010000 (.data) Hexadecimal Addresses Hexadecimal Values ASCII

Registers

Name	Number	Value
\$zero	0	0x00000000
\$at	1	0x00000000
\$v0	2	0x00000001
\$v1	3	0x00000000
\$a0	4	0x00000000
\$a1	5	0x00000000
\$a2	6	0x00000000
\$a3	7	0x00000000
\$t0	8	0x00000005
\$t1	9	0x00000003
\$t2	10	0x00000008
\$t3	11	0x00000000
\$t4	12	0x00000000
\$t5	13	0x00000000
\$t6	14	0x00000000
\$t7	15	0x00000000
\$s0	16	0x00000000
\$s1	17	0x00000000
\$s2	18	0x00000000
\$s3	19	0x00000000
\$s4	20	0x00000000
\$s5	21	0x00000000
\$s6	22	0x00000000
\$s7	23	0x00000000
\$t8	24	0x00000000
\$t9	25	0x00000000
\$k0	26	0x00000000
\$k1	27	0x00000000
\$gp	28	0x10008000
\$sp	29	0x7fffffc
\$fp	30	0x00000000
\$ra	31	0x00000000
pc		0x00400010
hi		0x00000000
lo		0x00000000

C:\Users\VASUS\Desktop\mips4.asm - MARS 4.5

File Edit Run Settings Tools Help

Run speed at max (no interaction)

Edit Execute

Text Segment

Bkpt	Address	Code	Basic	Source
	0x00400000	0x24080005	addiu \$8,\$0,0x00000005	5: li \$t0, 5 # \$t0 register'ına 5 değerini yükle
	0x00400004	0x24090003	addiu \$9,\$0,0x00000003	6: li \$t1, 3 # \$t1 register'ına 3 değerini yükle
	0x00400008	0x01095020	add \$10,\$8,\$9	8: add \$t2, \$t0, \$t1 # \$t0 + \$t1, sonuç \$t2'de saklanır
	0x0040000c	0x24020001	addiu \$2,\$0,0x00000001	10: li \$v0, 1 # print integer sistem çağırısı
	0x00400010	0x000a2021	addiu \$4,\$0,\$10	11: move \$a0, \$t2 # \$t2'deki sonucu \$a0'a kopyala
	0x00400014	0x0000000c	syscall	12: syscall # sonucu yazdır
	0x00400018	0x2402000a	addiu \$2,\$0,0x0000000a	14: li \$v0, 10 # programı sonlandır
	0x0040001c	0x0000000c	syscall	15: syscall

Data Segment

Address	Value (+0)	Value (+4)	Value (+8)	Value (+c)	Value (+10)	Value (+14)	Value (+18)	Value (+1c)
0x10010000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010020	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010040	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010060	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010080	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100a0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100c0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100e0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000

0x10010000 (.data) Hexadecimal Addresses Hexadecimal Values ASCII

Registers

Name	Number	Value
\$zero	0	0x00000000
\$at	1	0x00000000
\$v0	2	0x00000001
\$v1	3	0x00000000
\$a0	4	0x00000008
\$a1	5	0x00000000
\$a2	6	0x00000000
\$a3	7	0x00000000
\$t0	8	0x00000005
\$t1	9	0x00000003
\$t2	10	0x00000008
\$t3	11	0x00000000
\$t4	12	0x00000000
\$t5	13	0x00000000
\$t6	14	0x00000000
\$t7	15	0x00000000
\$s0	16	0x00000000
\$s1	17	0x00000000
\$s2	18	0x00000000
\$s3	19	0x00000000
\$s4	20	0x00000000
\$s5	21	0x00000000
\$s6	22	0x00000000
\$s7	23	0x00000000
\$s8	24	0x00000000
\$t9	25	0x00000000
\$k0	26	0x00000000
\$k1	27	0x00000000
\$gp	28	0x10008000
\$sp	29	0x7ffffc
\$fp	30	0x00000000
\$ra	31	0x00000000
pc		0x00400014
hi		0x00000000
lo		0x00000000

CAUsers\ASUS\Desktop\mips4.asm - MARS 4.5

File Edit Run Settings Tools Help

Run speed at max (no interaction)

Edit Execute

Text Segment

Bkpt	Address	Code	Basic	Source
	0x00400000	0x24080005	addiu \$8,\$0,0x00000005	5: li \$t0, 5 # \$t0 register'ına 5 değerini yükle
	0x00400004	0x24090003	addiu \$9,\$0,0x00000003	6: li \$t1, 3 # \$t1 register'ına 3 değerini yükle
	0x00400008	0x01095020	add \$10,\$8,\$9	8: add \$t2, \$t0, \$t1 # \$t0 + \$t1, sonuç \$t2'de saklanır
	0x0040000c	0x24020001	addiu \$2,\$0,0x00000001	10: li \$v0, 1 # print integer sistem çağırısı
	0x00400010	0x000a2021	addu \$4,\$0,\$10	11: move \$a0, \$t2 # \$t2'deki sonucu \$a0'a kopyala
	0x00400014	0x0000000c	syscall	12: syscall # sonucu yazdır
	0x00400018	0x2402000a	addiu \$2,\$0,0x0000000a	14: li \$v0, 10 # programı sonlandır
	0x0040001c	0x0000000c	syscall	15: syscall

Data Segment

Address	Value (+0)	Value (+4)	Value (+8)	Value (+c)	Value (+10)	Value (+14)	Value (+18)	Value (+1c)
0x10010000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010020	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010040	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010060	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010080	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100a0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100c0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100e0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000

0x10010000 (.data) Hexadecimal Addresses Hexadecimal Values ASCII

Registers Coproc 1 Coproc 0

Name	Number	Value
\$zero	0	0x00000000
\$at	1	0x00000000
\$v0	2	0x00000001
\$v1	3	0x00000000
\$a0	4	0x00000008
\$a1	5	0x00000000
\$a2	6	0x00000000
\$a3	7	0x00000000
\$t0	8	0x00000005
\$t1	9	0x00000003
\$t2	10	0x00000008
\$t3	11	0x00000000
\$t4	12	0x00000000
\$t5	13	0x00000000
\$t6	14	0x00000000
\$t7	15	0x00000000
\$s0	16	0x00000000
\$s1	17	0x00000000
\$s2	18	0x00000000
\$s3	19	0x00000000
\$s4	20	0x00000000
\$s5	21	0x00000000
\$s6	22	0x00000000
\$s7	23	0x00000000
\$s8	24	0x00000000
\$s9	25	0x00000000
\$k0	26	0x00000000
\$k1	27	0x00000000
\$gp	28	0x10008000
\$sp	29	0x7ffffc00
\$fp	30	0x00000000
\$ra	31	0x00000000
pc		0x00400018
hi		0x00000000
lo		0x00000000

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Edit Execute

Text Segment

Bkpt	Address	Code	Basic	Source
	0x00400000	0x24080005	addiu \$8,\$0,0x00000005	5: li \$t0, 5 # \$t0 register'ına 5 değerini yükle
	0x00400004	0x24090003	addiu \$9,\$0,0x00000003	6: li \$t1, 3 # \$t1 register'ına 3 değerini yükle
	0x00400008	0x01095020	add \$10,\$8,\$9	8: add \$t2, \$t0, \$t1 # \$t0 + \$t1, sonuç \$t2'de saklanır
	0x0040000c	0x24020001	addiu \$2,\$0,0x00000001	10: li \$v0, 1 # print integer sistem çağırısı
	0x00400010	0x000a2021	addu \$4,\$0,\$10	11: move \$a0, \$t2 # \$t2'deki sonucu \$a0'a kopyala
	0x00400014	0x0000000c	syscall	12: syscall # sonucu yazdır
	0x00400018	0x2402000a	addiu \$2,\$0,0x0000000a	14: li \$v0, 10 # programı sonlandır
	0x0040001c	0x0000000c	syscall	15: syscall

Data Segment

Address	Value (+0)	Value (+4)	Value (+8)	Value (+c)	Value (+10)	Value (+14)	Value (+18)	Value (+1c)
0x10010000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010020	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010040	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010060	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010080	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100a0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100c0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100e0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000

0x10010000 (.data) Hexadecimal Addresses Hexadecimal Values ASCII

Registers Coproc 1 Coproc 0

Name	Number	Value
\$zero	0	0x00000000
\$at	1	0x00000000
\$v0	2	0x0000000a
\$v1	3	0x00000000
\$a0	4	0x00000008
\$a1	5	0x00000000
\$a2	6	0x00000000
\$a3	7	0x00000000
\$t0	8	0x00000005
\$t1	9	0x00000003
\$t2	10	0x00000008
\$t3	11	0x00000000
\$t4	12	0x00000000
\$t5	13	0x00000000
\$t6	14	0x00000000
\$t7	15	0x00000000
\$s0	16	0x00000000
\$s1	17	0x00000000
\$s2	18	0x00000000
\$s3	19	0x00000000
\$s4	20	0x00000000
\$s5	21	0x00000000
\$s6	22	0x00000000
\$s7	23	0x00000000
\$t8	24	0x00000000
\$t9	25	0x00000000
\$k0	26	0x00000000
\$k1	27	0x00000000
\$gp	28	0x10008000
\$sp	29	0x7ffffc
\$fp	30	0x00000000
\$ra	31	0x00000000
pc		0x0040001c
hi		0x00000000
lo		0x00000000

And Operator Example

- `.text`
- `li $t0, 6` `# $t0 register'ına 6 (binary: 110) yükle`
- `li $t1, 5` `# $t1 register'ına 5 (binary: 101) yükle`
- `and $t2, $t0, $t1` `# $t0 AND $t1 işlemi, sonuç $t2'de saklanır (binary: 100, decimal: 4)`
- `li $v0, 1` `# print integer sistem çağırısı`
- `move $a0, $t2` `# $t2'deki sonucu $a0'a kopyala`
- `syscall` `# sonucu yazdır`
- `li $v0, 10` `# programı sonlandır`
- `syscall`

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Edit Execute

Text Segment

Bkpt	Address	Code	Basic	Source
	0x00400000	0x24080006	addiu \$8,\$0,0x00000006	2: li \$t0, 6 # \$t0 register'ına 6 (binary: 110) yükle
	0x00400004	0x24090005	addiu \$9,\$0,0x00000005	3: li \$t1, 5 # \$t1 register'ına 5 (binary: 101) yükle
	0x00400008	0x01095024	and \$10,\$8,\$9	5: and \$t2, \$t0, \$t1 # \$t0 AND \$t1 işlemi, sonuç \$t2'de saklanır (binary: 100...
	0x0040000c	0x24020001	addiu \$2,\$0,0x00000001	7: li \$v0, 1 # print integer sistem çağırısı
	0x00400010	0x000a2021	addu \$4,\$0,\$10	8: move \$a0, \$t2 # \$t2'deki sonucu \$a0'a kopyala
	0x00400014	0x0000000c	syscall	9: syscall # sonucu yazdır
	0x00400018	0x2402000a	addiu \$2,\$0,0x0000000a	11: li \$v0, 10 # programı sonlandır
	0x0040001c	0x0000000c	syscall	12: syscall

Data Segment

Address	Value (+0)	Value (+4)	Value (+8)	Value (+c)	Value (+10)	Value (+14)	Value (+18)	Value (+1c)
0x10010000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010020	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010040	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010060	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010080	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100a0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100c0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100e0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000

0x10010000 (.data) Hexadecimal Addresses Hexadecimal Values ASCII

Registers

Name	Number	Value
\$zero	0	0x00000000
\$at	1	0x00000000
\$v0	2	0x00000000
\$v1	3	0x00000000
\$a0	4	0x00000000
\$a1	5	0x00000000
\$a2	6	0x00000000
\$a3	7	0x00000000
\$t0	8	0x00000000
\$t1	9	0x00000000
\$t2	10	0x00000000
\$t3	11	0x00000000
\$t4	12	0x00000000
\$t5	13	0x00000000
\$t6	14	0x00000000
\$t7	15	0x00000000
\$s0	16	0x00000000
\$s1	17	0x00000000
\$s2	18	0x00000000
\$s3	19	0x00000000
\$s4	20	0x00000000
\$s5	21	0x00000000
\$s6	22	0x00000000
\$s7	23	0x00000000
\$t8	24	0x00000000
\$t9	25	0x00000000
\$k0	26	0x00000000
\$k1	27	0x00000000
\$gp	28	0x10008000
\$sp	29	0x7ffffcfc
\$fp	30	0x00000000
\$ra	31	0x00000000
pc		0x00400000
hi		0x00000000
lo		0x00000000

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File Edit Run Settings Tools Help

Run speed at max (no interaction)

Edit Execute

Text Segment

Bkpt	Address	Code	Basic	Source
	0x00400000	0x24080006	addiu \$8,\$0,0x00000006	2: li \$t0, 6 # \$t0 register'ına 6 (binary: 110) yükle
	0x00400004	0x24090005	addiu \$9,\$0,0x00000005	3: li \$t1, 5 # \$t1 register'ına 5 (binary: 101) yükle
	0x00400008	0x01095024	and \$10,\$8,\$9	5: and \$t2, \$t0, \$t1 # \$t0 AND \$t1 işlemi, sonuç \$t2'de saklanır (binary: 100...
	0x0040000c	0x24020001	addiu \$2,\$0,0x00000001	7: li \$v0, 1 # print integer sistem çağırısı
	0x00400010	0x000a2021	addu \$4,\$0,\$10	8: move \$a0, \$t2 # \$t2'deki sonucu \$a0'a kopyala
	0x00400014	0x0000000c	syscall	9: syscall # sonucu yazdır
	0x00400018	0x2402000a	addiu \$2,\$0,0x0000000a	11: li \$v0, 10 # programı sonlandır
	0x0040001c	0x0000000c	syscall	12: syscall

Data Segment

Address	Value (+0)	Value (+4)	Value (+8)	Value (+c)	Value (+10)	Value (+14)	Value (+18)	Value (+1c)
0x10010000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010020	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010040	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010060	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010080	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100a0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100c0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100e0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000

0x10010000 (.data) Hexadecimal Addresses Hexadecimal Values ASCII

Registers

Name	Number	Value
\$zero	0	0x00000000
\$at	1	0x00000000
\$v0	2	0x00000000
\$v1	3	0x00000000
\$a0	4	0x00000000
\$a1	5	0x00000000
\$a2	6	0x00000000
\$a3	7	0x00000000
\$t0	8	0x00000006
\$t1	9	0x00000000
\$t2	10	0x00000000
\$t3	11	0x00000000
\$t4	12	0x00000000
\$t5	13	0x00000000
\$t6	14	0x00000000
\$t7	15	0x00000000
\$s0	16	0x00000000
\$s1	17	0x00000000
\$s2	18	0x00000000
\$s3	19	0x00000000
\$s4	20	0x00000000
\$s5	21	0x00000000
\$s6	22	0x00000000
\$s7	23	0x00000000
\$t8	24	0x00000000
\$t9	25	0x00000000
\$k0	26	0x00000000
\$k1	27	0x00000000
\$gp	28	0x10008000
\$sp	29	0x7fffffc
\$fp	30	0x00000000
\$ra	31	0x00000000
pc		0x00400004
hi		0x00000000
lo		0x00000000

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Run speed at max (no interaction)

Edit Execute

Text Segment

Bkpt	Address	Code	Basic	Source
	0x00400000	0x24080006	addiu \$8,\$0,0x00000006	2: li \$t0, 6 # \$t0 register'ına 6 (binary: 110) yükle
	0x00400004	0x24090005	addiu \$9,\$0,0x00000005	3: li \$t1, 5 # \$t1 register'ına 5 (binary: 101) yükle
	0x00400008	0x01095024	and \$t0,\$8,\$9	5: and \$t2, \$t0, \$t1 # \$t0 AND \$t1 işlemi, sonuç \$t2'de saklanır (binary: 100...
	0x0040000c	0x24020001	addiu \$2,\$0,0x00000001	7: li \$v0, 1 # print integer sistem çağırısı
	0x00400010	0x000a2021	addu \$4,\$0,\$t0	8: move \$a0, \$t2 # \$t2'deki sonucu \$a0'a kopyala
	0x00400014	0x0000000c	syscall	9: syscall # sonucu yazdır
	0x00400018	0x2402000a	addiu \$2,\$0,0x0000000a	11: li \$v0, 10 # programı sonlandır
	0x0040001c	0x0000000c	syscall	12: syscall

Data Segment

Address	Value (+0)	Value (+4)	Value (+8)	Value (+c)	Value (+10)	Value (+14)	Value (+18)	Value (+1c)
0x10010000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010020	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010040	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010060	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010080	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100a0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100c0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100e0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000

0x10010000 (.data) Hexadecimal Addresses Hexadecimal Values ASCII

Registers

Name	Number	Value
\$zero	0	0x00000000
\$at	1	0x00000000
\$v0	2	0x00000000
\$v1	3	0x00000000
\$a0	4	0x00000000
\$a1	5	0x00000000
\$a2	6	0x00000000
\$a3	7	0x00000000
\$t0	8	0x00000006
\$t1	9	0x00000005
\$t2	10	0x00000000
\$t3	11	0x00000000
\$t4	12	0x00000000
\$t5	13	0x00000000
\$t6	14	0x00000000
\$t7	15	0x00000000
\$s0	16	0x00000000
\$s1	17	0x00000000
\$s2	18	0x00000000
\$s3	19	0x00000000
\$s4	20	0x00000000
\$s5	21	0x00000000
\$s6	22	0x00000000
\$s7	23	0x00000000
\$t8	24	0x00000000
\$t9	25	0x00000000
\$k0	26	0x00000000
\$k1	27	0x00000000
\$gp	28	0x10008000
\$sp	29	0x7ffffc
\$fp	30	0x00000000
\$ra	31	0x00000000
pc		0x00400008
hi		0x00000000
lo		0x00000000

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Run speed at max (no interaction)

Edit Execute

Text Segment

Bkpt	Address	Code	Basic	Source
	0x00400000	0x24080006	addiu \$8,\$0,0x00000006	2: li \$t0, 6 # \$t0 register'ına 6 (binary: 110) yükle
	0x00400004	0x24090005	addiu \$9,\$0,0x00000005	3: li \$t1, 5 # \$t1 register'ına 5 (binary: 101) yükle
	0x00400008	0x01095024	and \$10,\$8,\$9	5: and \$t2, \$t0, \$t1 # \$t0 AND \$t1 işlemi, sonuç \$t2'de saklanır (binary: 100...
	0x0040000c	0x24020001	addiu \$2,\$0,0x00000001	7: li \$v0, 1 # print integer sistem çağırısı
	0x00400010	0x000a2021	addu \$4,\$0,\$10	8: move \$a0, \$t2 # \$t2'deki sonucu \$a0'a kopyala
	0x00400014	0x0000000c	syscall	9: syscall # sonucu yazdır
	0x00400018	0x2402000a	addiu \$2,\$0,0x0000000a	11: li \$v0, 10 # programı sonlandır
	0x0040001c	0x0000000c	syscall	12: syscall

Data Segment

Address	Value (+0)	Value (+4)	Value (+8)	Value (+c)	Value (+10)	Value (+14)	Value (+18)	Value (+1c)
0x10010000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010020	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010040	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010060	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010080	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100a0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100c0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100e0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000

Registers Coproc 1 Coproc 0

Name	Number	Value
\$zero	0	0x00000000
\$at	1	0x00000000
\$v0	2	0x00000000
\$v1	3	0x00000000
\$a0	4	0x00000000
\$a1	5	0x00000000
\$a2	6	0x00000000
\$a3	7	0x00000000
\$t0	8	0x00000006
\$t1	9	0x00000005
\$t2	10	0x00000004
\$t3	11	0x00000000
\$t4	12	0x00000000
\$t5	13	0x00000000
\$t6	14	0x00000000
\$t7	15	0x00000000
\$s0	16	0x00000000
\$s1	17	0x00000000
\$s2	18	0x00000000
\$s3	19	0x00000000
\$s4	20	0x00000000
\$s5	21	0x00000000
\$s6	22	0x00000000
\$s7	23	0x00000000
\$t8	24	0x00000000
\$t9	25	0x00000000
\$k0	26	0x00000000
\$k1	27	0x00000000
\$gp	28	0x10008000
\$sp	29	0x7ffffc
\$fp	30	0x00000000
\$ra	31	0x00000000
pc		0x0040000c
hi		0x00000000
lo		0x00000000

0x10010000 (.data) Hexadecimal Addresses Hexadecimal Values ASCII

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File Edit Run Settings Tools Help

Run speed at max (no interaction)

Edit Execute

Text Segment

Bkpt	Address	Code	Basic	Source
	0x00400000	0x24080006	addiu \$8,\$0,0x00000006	2: li \$t0, 6 # \$t0 register'ına 6 (binary: 110) yükle
	0x00400004	0x24090005	addiu \$9,\$0,0x00000005	3: li \$t1, 5 # \$t1 register'ına 5 (binary: 101) yükle
	0x00400008	0x01095024	and \$10,\$8,\$9	5: and \$t2, \$t0, \$t1 # \$t0 AND \$t1 işlemi, sonuç \$t2'de saklanır (binary: 100...
	0x0040000c	0x24020001	addiu \$2,\$0,0x00000001	7: li \$v0, 1 # print integer sistem çağrısı
	0x00400010	0x000a2021	addu \$4,\$0,\$10	8: move \$a0, \$t2 # \$t2'deki sonucu \$a0'a kopyala
	0x00400014	0x0000000c	syscall	9: syscall # sonucu yazdır
	0x00400018	0x2402000a	addiu \$2,\$0,0x0000000a	11: li \$v0, 10 # programı sonlandır
	0x0040001c	0x0000000c	syscall	12: syscall

Data Segment

Address	Value (+0)	Value (+4)	Value (+8)	Value (+c)	Value (+10)	Value (+14)	Value (+18)	Value (+1c)
0x10010000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010020	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010040	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010060	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010080	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100a0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100c0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100e0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000

0x10010000 (.data) Hexadecimal Addresses Hexadecimal Values ASCII

Registers Coproc 1 Coproc 0

Name	Number	Value
\$zero	0	0x00000000
\$at	1	0x00000000
\$v0	2	0x00000001
\$v1	3	0x00000000
\$a0	4	0x00000000
\$a1	5	0x00000000
\$a2	6	0x00000000
\$a3	7	0x00000000
\$t0	8	0x00000006
\$t1	9	0x00000005
\$t2	10	0x00000004
\$t3	11	0x00000000
\$t4	12	0x00000000
\$t5	13	0x00000000
\$t6	14	0x00000000
\$t7	15	0x00000000
\$s0	16	0x00000000
\$s1	17	0x00000000
\$s2	18	0x00000000
\$s3	19	0x00000000
\$s4	20	0x00000000
\$s5	21	0x00000000
\$s6	22	0x00000000
\$s7	23	0x00000000
\$t8	24	0x00000000
\$t9	25	0x00000000
\$k0	26	0x00000000
\$k1	27	0x00000000
\$gp	28	0x10008000
\$sp	29	0x7ffffc
\$fp	30	0x00000000
\$ra	31	0x00000000
pc		0x00400010
hi		0x00000000
lo		0x00000000

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File Edit Run Settings Tools Help

Run speed at max (no interaction)

Edit Execute

Text Segment

Bkpt	Address	Code	Basic	Source
	0x00400000	0x24080006	addiu \$8,\$0,0x00000006	2: li \$t0, 6 # \$t0 register'ına 6 (binary: 110) yükle
	0x00400004	0x24090005	addiu \$9,\$0,0x00000005	3: li \$t1, 5 # \$t1 register'ına 5 (binary: 101) yükle
	0x00400008	0x01095024	and \$10,\$8,\$9	5: and \$t2, \$t0, \$t1 # \$t0 AND \$t1 işlemi, sonuç \$t2'de saklanır (binary: 100...
	0x0040000c	0x24020001	addiu \$2,\$0,0x00000001	7: li \$v0, 1 # print integer sistem çağrısı
	0x00400010	0x000a2021	addu \$4,\$0,\$10	8: move \$a0, \$t2 # \$t2'deki sonucu \$a0'a kopyala
	0x00400014	0x0000000c	syscall	9: syscall # sonucu yazdır
	0x00400018	0x2402000a	addiu \$2,\$0,0x0000000a	11: li \$v0, 10 # programı sonlandır
	0x0040001c	0x0000000c	syscall	12: syscall

Data Segment

Address	Value (+0)	Value (+4)	Value (+8)	Value (+c)	Value (+10)	Value (+14)	Value (+18)	Value (+1c)
0x10010000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010020	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010040	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010060	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010080	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100a0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100c0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100e0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000

0x10010000 (.data) Hexadecimal Addresses Hexadecimal Values ASCII

Registers Coproc 1 Coproc 0

Name	Number	Value
\$zero	0	0x00000000
\$at	1	0x00000000
\$v0	2	0x00000001
\$v1	3	0x00000000
\$a0	4	0x00000004
\$a1	5	0x00000000
\$a2	6	0x00000000
\$a3	7	0x00000000
\$t0	8	0x00000006
\$t1	9	0x00000005
\$t2	10	0x00000004
\$t3	11	0x00000000
\$t4	12	0x00000000
\$t5	13	0x00000000
\$t6	14	0x00000000
\$t7	15	0x00000000
\$s0	16	0x00000000
\$s1	17	0x00000000
\$s2	18	0x00000000
\$s3	19	0x00000000
\$s4	20	0x00000000
\$s5	21	0x00000000
\$s6	22	0x00000000
\$s7	23	0x00000000
\$t8	24	0x00000000
\$t9	25	0x00000000
\$k0	26	0x00000000
\$k1	27	0x00000000
\$gp	28	0x10008000
\$sp	29	0x7ffffc
\$fp	30	0x00000000
\$ra	31	0x00000000
pc		0x00400014
hi		0x00000000
lo		0x00000000

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Text Segment

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	0x00400004	0x24090005	addiu \$9,\$0,0x00000005	3: li \$t1, 5 # \$t1 register'ına 5 (binary: 101) yükle
	0x00400008	0x01095024	and \$10,\$8,\$9	5: and \$t2, \$t0, \$t1 # \$t0 AND \$t1 işlemi, sonuç \$t2'de saklanır (binary: 100...
	0x0040000c	0x24020001	addiu \$2,\$0,0x00000001	7: li \$v0, 1 # print integer sistem çağırısı
	0x00400010	0x000a2021	addu \$4,\$0,\$10	8: move \$a0, \$t2 # \$t2'deki sonucu \$a0'a kopyala
	0x00400014	0x0000000c	syscall	9: syscall # sonucu yazdır
	0x00400018	0x2402000a	addiu \$2,\$0,0x0000000a	11: li \$v0, 10 # programı sonlandır
	0x0040001c	0x0000000c	syscall	12: syscall

Data Segment

Address	Value (+0)	Value (+4)	Value (+8)	Value (+c)	Value (+10)	Value (+14)	Value (+18)	Value (+1c)
0x10010000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010020	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010040	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010060	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010080	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100a0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100c0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100e0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000

0x10010000 (.data) Hexadecimal Addresses Hexadecimal Values ASCII

Registers Coproc 1 Coproc 0

Name	Number	Value
\$zero	0	0x00000000
\$at	1	0x00000000
\$v0	2	0x00000001
\$v1	3	0x00000000
\$a0	4	0x00000004
\$a1	5	0x00000000
\$a2	6	0x00000000
\$a3	7	0x00000000
\$t0	8	0x00000006
\$t1	9	0x00000005
\$t2	10	0x00000004
\$t3	11	0x00000000
\$t4	12	0x00000000
\$t5	13	0x00000000
\$t6	14	0x00000000
\$t7	15	0x00000000
\$a0	16	0x00000000
\$s1	17	0x00000000
\$s2	18	0x00000000
\$s3	19	0x00000000
\$s4	20	0x00000000
\$s5	21	0x00000000
\$s6	22	0x00000000
\$s7	23	0x00000000
\$s8	24	0x00000000
\$s9	25	0x00000000
\$k0	26	0x00000000
\$k1	27	0x00000000
\$gp	28	0x10008000
\$sp	29	0x7ffffc00
\$fp	30	0x00000000
\$ra	31	0x00000000
pc		0x00400018
hi		0x00000000
lo		0x00000000

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Text Segment

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	0x00400008	0x01095024	and \$10,\$8,\$9	5: and \$t2, \$t0, \$t1 # \$t0 AND \$t1 işlemi, sonuç \$t2'de saklanır (binary: 100...
	0x0040000c	0x24020001	addiu \$2,\$0,0x00000001	7: li \$v0, 1 # print integer sistem çağırısı
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Data Segment

Address	Value (+0)	Value (+4)	Value (+8)	Value (+c)	Value (+10)	Value (+14)	Value (+18)	Value (+1c)
0x10010000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010020	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010040	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010060	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x10010080	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100a0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100c0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000
0x100100e0	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000	0x00000000

0x10010000 (.data) Hexadecimal Addresses Hexadecimal Values ASCII

Registers Coproc 1 Coproc 0

Name	Number	Value
\$zero	0	0x00000000
\$at	1	0x00000000
\$v0	2	0x0000000a
\$v1	3	0x00000000
\$a0	4	0x00000004
\$a1	5	0x00000000
\$a2	6	0x00000000
\$a3	7	0x00000000
\$t0	8	0x00000006
\$t1	9	0x00000005
\$t2	10	0x00000004
\$t3	11	0x00000000
\$t4	12	0x00000000
\$t5	13	0x00000000
\$t6	14	0x00000000
\$t7	15	0x00000000
\$s0	16	0x00000000
\$s1	17	0x00000000
\$s2	18	0x00000000
\$s3	19	0x00000000
\$s4	20	0x00000000
\$s5	21	0x00000000
\$s6	22	0x00000000
\$s7	23	0x00000000
\$s8	24	0x00000000
\$s9	25	0x00000000
\$k0	26	0x00000000
\$k1	27	0x00000000
\$gp	28	0x10008000
\$sp	29	0x7ffffc
\$fp	30	0x00000000
\$ra	31	0x00000000
pc		0x0040001c
hi		0x00000000
lo		0x00000000