

Práctica 1: Implementación de factorial (x!) en assembler

Sistemas Operativos NRC 18149

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C:\Users\user\Documents\Sistemas operativos\ejercicio1.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	0x24080008	addiu \$8,\$0,8	4: main: li \$t0, 8
	0x00400004	0x24090008	addiu \$9,\$0,8	5: li \$t1, 8
	0x00400008	0x240a0001	addiu \$10,\$0,1	6: li \$t2, 1
	0x0040000c	0x11480003	beq \$10,\$8,3	8: loop: beq \$t2, \$t0, end
	0x00400010	0x010a4022	sub \$8,\$8,\$10	9: sub \$t0, \$t0, \$t2
	0x00400014	0x71284802	mul \$9,\$9,\$8	10: mul \$t1, \$t1, \$t0
	0x00400018	0x08100003	j 0x0040000c	11: j loop
	0x0040001c	0x00097821	addu \$15,\$0,\$9	14: end: move \$t7, \$t1

Data Segment

Address	Value (+0)	Value (+4)	Value (+8)	Value (+c)	Value (+10)	Value (+14)	Value (+18)	Value (+1c)
0x10010000	0	0	0	0	0	0	0	0
0x10010020	0	0	0	0	0	0	0	0
0x10010040	0	0	0	0	0	0	0	0
0x10010060	0	0	0	0	0	0	0	0
0x10010080	0	0	0	0	0	0	0	0
0x100100a0	0	0	0	0	0	0	0	0
0x100100c0	0	0	0	0	0	0	0	0
0x100100e0	0	0	0	0	0	0	0	0
0x10010100	0	0	0	0	0	0	0	0
0x10010120	0	0	0	0	0	0	0	0
0x10010140	0	0	0	0	0	0	0	0
0x10010160	0	0	0	0	0	0	0	0
0x10010180	0	0	0	0	0	0	0	0
0x100101a0	0	0	0	0	0	0	0	0

Registers

Name	Number	Value
\$zero	0	0
\$at	1	0
\$v0	2	0
\$v1	3	0
\$a0	4	0
\$a1	5	0
\$a2	6	0
\$a3	7	0
\$t0	8	1
\$t1	9	40320
\$t2	10	1
\$t3	11	0
\$t4	12	0
\$t5	13	0
\$t6	14	0
\$t7	15	40320
\$s0	16	0
\$s1	17	0
\$s2	18	0
\$s3	19	0
\$s4	20	0
\$s5	21	0
\$s6	22	0
\$s7	23	0
\$s8	24	0
\$s9	25	0
\$k0	26	0
\$k1	27	0
\$gp	28	268468224
\$sp	29	2147479548
\$fp	30	0
\$ra	31	0
pc		4194336
hi		0
lo		40320

Mars Messages Run I/O

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

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

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

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

Clear