

Example 2.

Find absolute value of value in reg. 1, store it in reg. 1, and return.

MIPS Machine code:

binary	hex	location meaning
00000000 00100000 00010000 00101010	0020102a	; compare \$1 < 0 00000000 slt \$2, \$1, \$0
00010000 01000000 00000000 00000001	10400001	; if false, skip next instr. 00000004 beq \$2, \$0, 1
00000000 00000001 00001000 00100010	00010822	; \$1 = 0 - \$1 00000008 sub \$1, \$0, \$1
00000011 11100000 00000000 00001000	03e00008	; return to OS 0000000c jr \$31