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Thread: [Need Assembler help please](#)

superMatas2 - December 15, 2016, 5:50 am

Hi,

I know i have little chance to get free help in here you all gold diggers but it's worth a try.

So I need some help in assembly coding for MIPS-32.

I need to write 2 "programs":

One that exchanges the values from s0 and s1, for example if s0=4 and s1=3 then the "program" should exchange them so the result would be s0=3 and s1=4.

This is my try but i think it's too easy to be true.(apparently i needed to use \$zero. somewhere)

```
lw $t0, $s1
lw $t1, $s2
sw $t0, $s2
sw $t1, $s1
```

The other "program" need to take the absolute value from t0 to put it in t1, so t1 should be a positive number or zero equal to t0 norm.(apparently i need to use something like bltz reg, addr commands)

It's probably not the best description of what i need to do but i needed to translate it and it wasn't the easiest part, let me know if you can help me please!?

TouchMyMalware - December 15, 2016, 6:16 am

I haven't touched MIPS but I just looked at the instruction set,

So this should work.

Code lw \$s0, 4

lw \$s1, 3

mflo \$t1,\$s0

mflo \$s0,s1

mflo \$s1,\$t1

As for your second problem.

Code bltz \$s0, negative

j positive

negative:

lw \$s1,-1

mult \$s0,\$s1

mflo \$s0,\$lo

positive:

#Should be now positive

Here is the instruction set.

<http://www.mrc.uidaho.edu/mrc/people/jff/digital/MIPSir.html>

Edit: mflo not mflw

superMatas2 - December 15, 2016, 8:08 am

Hey Thanks a lot, just one question tho.. I never seen the mflw command :(

