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andrescv update example

9e4d056 on 30 Jul

[1 contributor](#)

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History



57 lines (52 sloc) 820 Bytes

```
1 #####
2 # Fibonacci Example #
3 #####
4
5 .globl __start
6
7 .rodata
8     msg1: .string "Please enter a number: "
9     msg2: .string "The "
10    msg3: .string " fibonacci number is: "
11
12 .text
13
14 __start:
15     li t0, 0
```

```
16     li t1, 1
17     # prints msg1
18     li a0, 4
19     la a1, msg1
20     ecall
21     # reads an int and moves it to register t3
22     li a0, 5
23     ecall
24     mv t3, a0
25     # prints a newline
26     li a0, 11
27     li a1, '\n'
28     ecall
29     # prints msg2
30     li a0, 4
31     la a1, msg2
32     ecall
33     # prints the int value in t3
34     li a0, 1
35     mv a1, t3
36     ecall
37     # fibonacci program
38     fib:
39     beq t3, zero, finish
40     add t2, t1, t0
41     mv t0, t1
42     mv t1, t2
43     addi t3, t3, -1
44     j fib
45     finish:
46     # prints msg3
47     li a0, 4
48     la a1, msg3
49     ecall
50     # prints the result in t0
51     li a0, 1
52     mv a1, t0
53     ecall
54     # ends the program with status code 0
55     li a0, 10
56     ecall
```