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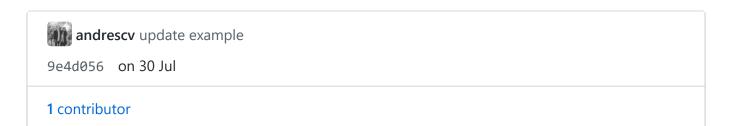
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Tree: 9e4d056ef7 ▼

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Jupiter / examples / fibonacci.s



```
Raw
        Blame
                 History
57 lines (52 sloc)
                      820 Bytes
  1
       ########################
  2
       # Fibonnaci Example #
       #######################
  4
       .globl __start
  5
  6
  7
       .rodata
         msg1: .string "Please enter a number: "
  8
         msg2: .string "The "
  9
         msg3: .string " fibonnaci number is: "
 10
 11
       .text
 12
 13
 14
       start:
         li t0, 0
```

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