

Maschinensprache

0x00400024 0x23BDFFFC
001000 11101 11101 11111 11111 111100
8 29 29 -4

0x00400028 0xAFBE0000
101011 11101 11110 00000 00000 000000
43 29 30

0x0040002C 0x23BE0004
001000 11101 11110 00000 00000 000100
8 29 30 4

0x00400030 0x20820000
001000 00100 00010 00000 00000 000000
8 4 2 0

0x20080000

ADDI \$sp, \$sp, -4
SW \$fp, 0(\$sp)
ADDI \$s8, \$sp, 4
ADDI \$v0, \$a0, 0
ADDI \$t0, \$zero, 0
ADDI \$t1, \$zero, 1
ADDI \$t2, \$a0, -1
BLEZ \$t2, 5
ADD \$v0, \$t0, \$t1
ORI \$t0, \$t1, 0
XORI \$t1, \$v0, 0
ADDI \$t2, \$t2, -1
J 0x0100010
LW \$fp, 0(\$sp)
ADDI \$sp, \$sp, 4
JR \$ra

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```
void a(int b){  
    int result = b;  
    int tmp0 = 0;  
    int tmp1 = 1;  
    int tmp2 = b - 1;  
  
    while(tmp2 > 0){  
        result = tmp0 + tmp1;  
        tmp0 = tmp1;  
        tmp1 = result;  
        tmp2 = tmp2 - 1;  
    }  
  
    return result;  
}
```