

# Print character in RiscV assembly

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1 Source code	1
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### Abstract

Print a character in assembly RISC-V-64

## 1 Source code

```
1
2 .section .data
3     char_to_print: .byte 'A' # Character to print
4
5 .section .text
6     .globl _start
7
8
9 delay:
10     li t1, 1000000000          # Adjust this value based on your processor
11 delay_loop:
12     addi t1, t1, -1
13     bnez t1, delay_loop
14     ret
15
16 _start:
17     li a0, 1                   # File descriptor: STDOUT
18     li a2, 1                   # length of print-out
19     la a1, char_to_print       # Pointer to the character to print
20
21     # Loop to print the character 10 times
22     li t0, 1000                # Number of characters to print
23 print_loop:
24     li a7, 64                  # System call number for write
```

```

25     ecall
26     call delay
27         # Decrease the counter and check if it's greater than 0
28     addi t0, t0, -1
29     bnez t0, print_loop
30
31     # Exit program
32     li a0, 0                # Exit code 0
33     li a7, 93              # System call number for exit
34     ecall

```