

Mar 14, 23 4:39

main.s

Page 1/1

```
/*
 * Test driver for "chrat"
 */
.data
    targ: .asciz "This is a string."
    out:   .asciz "Character at position 3 is - "
    result: .skip 4
    nl:    .asciz "\n"
.text
.global main
main:
    // Get the character at position 3
    ldr x0, =targ
    mov x1, #2
    bl  chrat

    // Convert the character to a string
    ldr x1, =result
    bl  int64asc

    // Print the output text
    ldr x0, =out
    bl  putstring

    // Print the result
    ldr x0, =result
    bl  putstring

    // Print newline
    ldr x0, =nl
    bl  putstring

    // Setup the parameters to exit the program and then call Linux to do it
    .
    mov     x0,     #0      // Sets return code to 0
    mov     x8,     #93     // Service command code 93 terminates
    svc     0           // Call linux to terminate the program
```