

**what is purpose of r2**

r2 holds the byte count argument to the write system call, i.e., the number of bytes from the buffer at r1 that Linux should send to the file descriptor in r0.[[1]](#fn1)[[2]](#fn2)[[3]](#fn3)

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1. <https://succurity.com/post/offsec/arm-base64-encoder-pt2/>

1. <https://wiki.cdot.senecapolytechnic.ca/wiki/AArch64_Register_and_Instruction_Quick_Start>

1. <https://docs.zephyrproject.org/latest/kernel/usermode/syscalls.html>

1. <https://duetorun.com/blog/20230604/a64-svc/>

1. <https://ahmedgouda.hashnode.dev/system-calls-and-command-line-arguments>

1. <http://embeddedvenkatpari.blogspot.com/2020/07/how-system-calls-are-executed-on-arm.html>

1. <https://learn.microsoft.com/en-us/cpp/build/overview-of-arm-abi-conventions?view=msvc-170>

1. <https://notes.secretsauce.net/notes/2014/04/16_argument-alignment-in-linux-system-calls.html>

1. <https://developer.arm.com/documentation/dui0056/latest/using-the-procedure-call-standard/register-roles-and-names/register-names>

1. [https://lsi.vc.ehu.eus/pablogn/docencia/ISO/2 Llamadas al Sistema, Kernel/X86 Linux Syscall.pdf](https://lsi.vc.ehu.eus/pablogn/docencia/ISO/2%20Llamadas%20al%20Sistema,%20Kernel/X86%20Linux%20Syscall.pdf)

1. <https://johannst.github.io/notes/arch/armv7.html>

1. <https://man7.org/linux/man-pages/man2/syscall.2.html>

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1. <https://azeria-labs.com/arm-data-types-and-registers-part-2/>

1. <https://embeddedsecurity.io/sec-arm-abi>

1. <https://lnxblog.github.io/2019/07/06/swi-routine-arm.html>

1. <https://stackoverflow.com/questions/53735886/how-to-pass-parameters-to-linux-system-call>