

library function vs system calls

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Dear all,

I was going through peter van der linden's book expert C programming there i found the following:-

Library call

- * call to a routine in a library
- * linked with user program
- * executes in user address space
- * counts as a part of user time
- * has the lower head overhead of procedure call.

system call

- * call to the kernel for a service
- * is an entry point to the OS
- * executes in the kernel address space
- * has high overhead switch to kernel and back

then the author says that , remember many routines in the C library do their work by making system calls and system() call is actually a library call.

then how valid is the above explanation on the differences between library call versus system call ?

why system() call is treated as a library call ?

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