

Project 6

System Call*

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April 28, 2013

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I. OBJECTIVE

Learn to make a system call in Linux, and also how can a user program call a system call by the interface.

II. ALGORITHM

II.1 Configure Ubuntu

With the steps in <http://www.cnblogs.com/kenjones/archive/2011/03/09/1978611.html> and http://blog.sina.com.cn/s/blog_79edb2a90100wpzb.html, I finish the configuration, not very smoothly, but quite helpful.

II.2 SysCall

The system call has to take *asm linkage* to be the header of the system function. And to print something, we have to use *printk()* to print messages to a kernel log file.

To use the new defined system call in the user program, we have to use *syscall()* or *_syscall0()*.

III. RESULTS AND CONCLUSIONS

III.1 Environment

- Ubuntu 12.10

III.2 Thoughts

This is the first lab that I have access to the bottom of the OS. It is quite an interesting try.

*Designed by L^AT_EX