SYSTEM CALL

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The Project mainly divided into three parts.

1. Download and initialization subversion repository with a copy of recent stable version of the Linux kernel source code and then compilation and installation of kernel.

The stable version of kernel is version with even last digit. Subversion repository is repository where you store the latest version of kernel.

Basically the latest stable version of linux kernel available is 3.18.7

1. Creation of new branch in that repository within that branch and then write a system call and register it with kernel

System call: A system call is how a program requests a service from operating system’s kernel.

There are 3 steps to create a system call

1. Modification of architecture specific sources to point to a system code.
2. Modification of generic source files to point to a system code.
3. Creation of code for system call and compilation of that code
4. This part is testing part. In this part we compile and install our modified kernel and then write a simple C code to invoke system call.

This part is divided into 2 subparts

1. Compilation of modified kernel which includes system call created by us.
2. Testing of our system call by using simple C code (driver code).

We are still deciding on a functionality which we are going to implement as a system call.

# Reference

http://www.csee.umbc.edu/~chettri/421/projects/hello\_syscall.html