

# *How are System Calls Implemented*

Devdatta Gangal 00D05006

Manish Mirchandani 00D05005

`devdatta@cse.iitb.ac.in`

`manishm@cse.iitb.ac.in`

Computer Science and Engineering Department

Indian Institute of Technology, Bombay

# *What are System Calls*

---

- Low Level Operations
- Location in the kernel a process can jump to
- Bridge between user application and system hardware
- Only way to access kernel facilities

- Unique identifying number for each system call
- Behavior similar to interrupts and exceptions
- Registers and the number of the system call pushed onto stack
- Context switch if required
- After completion back to calling procedure

## References

- <http://www.linux-tutorial.info/cgi-bin/display.pl>
- <http://www.linux.it/kerneldocs/ksys/>