

CIS300 System Programming

Instructor Information

- Dr. Yuzhe Tang (ytang100@syr.edu)
 - Office: CST 4-193
 - Office hour: Wednesday 3:30pm-4:00pm
- TA: Reyhaneh Abdolazimi (rabdolaz@syr.edu)
 - Location: CST 0-125
 - Office hour: TBA

Texts

- Lecture notes
- References (Optional):
 - "Computer Systems: A Programmer's Perspective," Randal E. Bryant and David R. O'Hallaron
 - Bash Guide for Beginners: [tldp.org/LDP/Bash-Beginners-Guide/html/]
 - Advanced Bash-Scripting Guide: [www.tldp.org/LDP/abs/html/]
 - Using GNU's GDB Debugger: Memory Layout And The Stack: [www.dirac.org/linux/gdb/02a-Memory_Layout_And_The_Stack.php]

Learning Objectives

The learning objective is system programming skills in Linux/Unix environments. The programming skills to learn include bash scripting, C/C++ programming language, C/C++ programming tools in Linux and systems-level programming, etc.

Prerequisites

- ECS102 or an equivalent programming course

Grading

- Class participation (15%), homework (40%), exams (45%)

Schedule (Tentative)

1. Linux/VirtualBox setup
2. Bash scripting
3. C/C++ programming language
4. Linux programming tools %: Gcc, makefile, gdb, linking, assembly, etc
5. Systems-level programming