Part 1: System Call Tracing

System Calls

- •Standard interface to allow the kernel to safely handle user requests
- •Examples:
 - Read from hardware
 - Spawn a new process
 - Get current time
 - Create shared memory

Strace

- Linux system call tracer
 - -Monitors interaction between processes and kernel
- Lots of options available for diagnostics and debugging
 - -"-o outfile" saves output to outfile
 - -man strace

Part 1

- •Create an empty c program called "empty.c"
- strace -o empty.trace empty.x
- •Create a new c program with 4 additional system calls called "part1.c"
- strace -o part1.trace part1.x
- •part1.trace should have 4 more syscall entries than empty.trace
 - Syscall entries are of the form:
 - call_name(arguments if applicable) = return_value

Deliverables

•Turn in emtpy.c, empty.trace, part1.c, and part1.trace