

CMPT 300 Coding Project 4 Marking Guide

Assignment must be done individually or in pairs.
(no difference in marking)

Total = [100] marks.

[40] Array Statistics Sys-Call

- Correctly fills the *stats struct.
- Correctly returns 0 when successful
- Correctly returns -EINVAL and -EFAULT appropriately.
- Does not use a huge amount of kernel memory.
- Extensive testing may be done by automated tests.

[50] Process Ancestors Sys-call

- Correctly fill array of structures with proces information.
- Correctly calculate number of children and siblings.
- Correctly returns 0 when successful
- Correctly returns -EINVAL and -EFAULT appropriately.
- Does not use a huge amount of kernel memory.
- Extensive testing may be done by automated tests.

[5] Ancestors User-Mode Testing

- Correctly builds via Makefile, transfers to QEMU via "transfer" target.
- Reasonable test program to exercise the syscall.
- Must at least test some error conditions (bad pointers, ...)

[5] Good code quality

- Kernel patch must correctly apply otherwise significant mark penalty is possible (>5 penalty)
- Near perfect indentation and great code structure.
- Code which does not compile will receive 0 marks total.
- Reasonable names for variables and functions.

Forward to Dr. Fraser if...

- Material is suspiciously similar to another submission or code posted online.

Marking Note:

- Updates to the syscall_64.tbl file trigger full kernel rebuild.
Copy out "golden" copy, and copy back in with: "cp -p ..." to preserve the timestamp.