



MARIST COLLEGE

LAB REPORT

Lab 01

Course Information

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Course Name - OPERATING SYSTEM
Course Code - CMPT424N 620 20F

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1 Questions

1. How is your console like the ancient TTY subsystem in Unix as described in www.linusakesson.net?

The console in THaNatOS is quite similar to the TTY subsystem in Unix as described by the provided article. For instance, the subsystem in Unix uses a keyboard interrupt process that writes to a buffer. This buffer is written to the screen on a CPU clock cycle and is deleted in a similar fashion to the backspace that I implemented. Additionally, these interrupts are essentially a mechanism for the user to communicate asynchronously with a process through the kernel. The buffer in the THaNatOS system acts as the "pseudo terminal" described in the article. In the Unix subsystem, there is a "frame buffer" that writes to a VGA display; however, in my system, the system buffer is written to an HTML canvas.