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CSCE 313

Section 598

Programming Assignment 1

In this lab, we used a server to request ECG data points. There were 15 patients and 15 files. To request data points from the server we used a cread and cwrite command. We also created a buffer to use as the request container. We then used the fork function to create a child process so that the server didn’t need to be run on two terminals. If fork was not 0 then we ran an execvp function which in return ran server.cpp. We then created new channels, using a flag. This flag was -c and told us whether or not we should create another channel. Using a new request to ask the server to create a new channel, we can accomplish a secondary task. We once again used a buffer variable to send the request. Lastly, we wanted to request entire files from the server. For this, we used a window size and an offset to break any given file into byte-size chunks. We then wrote the file to a given directory on our local machine. This lab introduced the concepts of servers and pipelines to communicate data. This data can be visualized below in the graphs.

YOUTUBE LINK: http://youtu.be/6spLyRe-eq8?hd=1