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COEN 177L

08 March 2022

Lab 9 report

Step2

Text

Description automatically generatedText

Description automatically generated

File system performance gets slower linearly as the number of bytes that need to process increases.

Step3

A picture containing text

Description automatically generatedCalendar

Description automatically generated with low confidence

Increase buffer size decreases the total time needed to read and write a file as less read-write cycles are needed to be called.

Step 4

Text

Description automatically generated with low confidenceText

Description automatically generated

While total file size affects the time finishing negatively, the change in buffer size actually mitigate that a little.

Step 5

A picture containing graphical user interface

Description automatically generatedGraphical user interface, text

Description automatically generated with medium confidence

File system does not guarantee thread wake up speed, writing and reading speed, and finishing time. Threads have different efficiency, but the overall time requires for each thread is similar to single-thread program.

Concurrent programming allows copying files to be much faster. It seems like the system allows multiple readers but would only allow one writer at one time.

Text

Description automatically generatedGraphical user interface, text

Description automatically generated with medium confidenceA picture containing text

Description automatically generatedText

Description automatically generated with low confidence