Bob Gerath

OS Assignment 01

'Explore' Documentation

In preparation for this experiment, I used the 'dd' program to generate three random files: test10m, test1m, test500k. Respectively, these files were generated to hold 10 MB, 1 MB, 500 KB of random information.

I then set the buffer size of 'simple-cp' to increasingly large numbers of bytes, remaking the program each time and using it to copy each test file to a new file. In each case I measured the CPU usage time with the 'time' program.

The buffer sizes I tested for each file were 1, 10, 100, 1000, 5000, 10000, 50000 and 100000.

500KB

1MB

10MB (Buffers of more than 10 bytes)

Chart with x-axis "Buffer Size (bytes)" and y-axis "Time (seconds)". Legend: 10MB.