Operating Systems – EX1 – Answers

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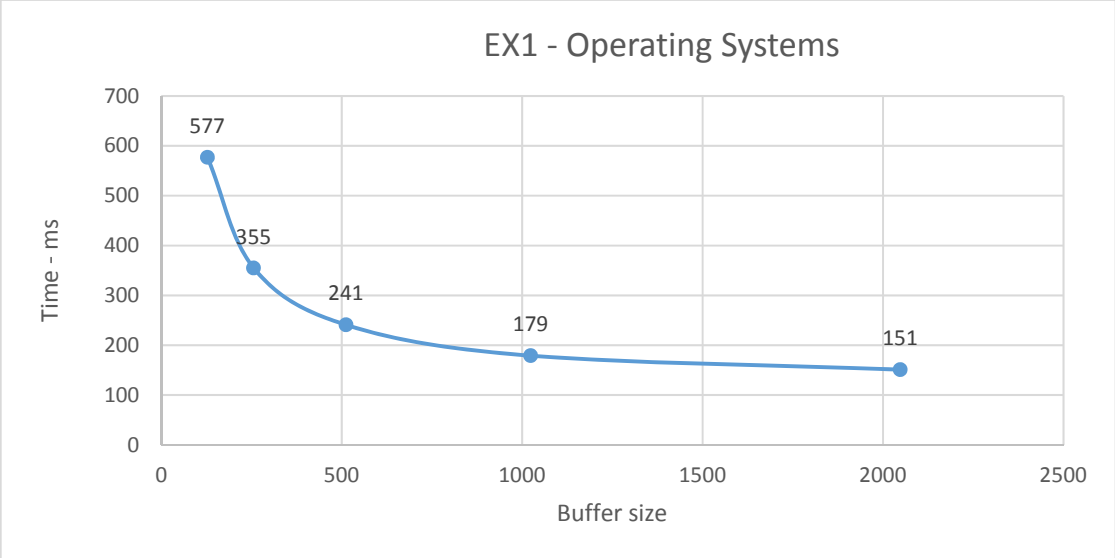
Part 2:

1:



2:

The graph isn't a straight line because as you increase the size of the buffer, less calls are made to the system. Less system calls lead to a faster run time of the code.

3:

Yes. The run time will increase because printing is a system call.

Part 3:

1:

False. Printing is a system call.

2:

False. External devices can't make system calls.

3:

False. Interrupts are caused by external devices, not by the CPU.

4:

False. Application in user mode use system calls to access system services.

5:

False. Installed programs run in user mode, not in kernel mode.

6:

True. The OS may delay the handling and execution of interrupts.

7:

False. When a program is run in a VM it lowers the throughput and is slower.

8:

False. Applications can access the CDROM in user mode using system calls.

9:

False. System calls make a program run slower.

10:

False. External devices can’t use system calls.