## Submit response?

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SWITCH ACCOUNT SUBMIT

# Assignment 04: Analyze File I/O System Activity

Work alone or with a partner. If you work with a partner, then indicate their name below AND make sure that your partner also submits this form so that they get credit.

The name, username and photo associated with your Google account will be recorded when you upload files and submit this form. Not **hermann@pdx.edu**? Switch account

* Required

Your Name *

Hermann Yepdjio

Partner's Name (if you worked with a partner).

N/A

## trace your system calls

In the very first lab assignment for this class you used "strace" to trace system call activity. Now use it again to demonstrate the difference between traditional I/O and memory mapped I/O.

Run the following commands:

```
strace filecreator ${CWD}/data 100 100 2 2>filecreator.trc
strace filesorter ${CWD}/data 2 2>filesorter.trc
strace filechecker ${CWD}/data 2 3> filechecker.trc
```

Then examine each of the new .trc files and

Create a spreadsheet (use google sheets) showing (a) every system call called by each program and (b) the count of calls to each system call by each program. Upload your spreadsheet here. *

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Based on the measured strace data, what can you say about the relative system call behavior between the read()/write() style of I/O and memory mapped I/O? *

based on my strace data, I can that pretty much the same system calls are made no matter if memory mapped I/O or read()/write() I/O is used. And those system calls are called approximately the same amount of time

Submit