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**Should you use granger1 or granger2?**[**https://fxlin.github.io/p2-concurrency/#which-server**](https://fxlin.github.io/p2-concurrency/#which-server) **For p2, this is a soft suggestion, not a hard requirement.**

# Scalability

## 0. Reproduce the benchmarks

Repeat what has been described in the project description.

* Attach a scalability plot (ONLY the one showing all the program versions) you generated. (10)  
  To generate the plot, you can use any tool. There’s a boilerplate script (p2-concurrency/scripts/plot.py) that may help; but you are not required to use it.

A graph with lines and dots

Description automatically generated with medium confidence

* Compare your observation with the given results. What are the same? What are different? (10)
  + The observations are exactly the same as described
* Explain your observation. (10)

## 1. The unfinished scalability quest

How does the program scale to more than 8 cores?

* Attach a scalability plot (ONLY the one showing all the program versions) with core count = {1 2 4 6 8 10 12 16 20}. You may want to tweak run.sh and plot.py (10)
* Describe and explain your observation. (10)
* If there's any scalability bottleneck, profile the execution with VTune (e.g. consider trying VTune's "microarchitecture exploration"). Can you make the program scale better? If so, show your code and profiling results; if not, reason about possible bottlenecks. (5)

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