Exercise 6

Programming SS 2019 - Problem Set 4

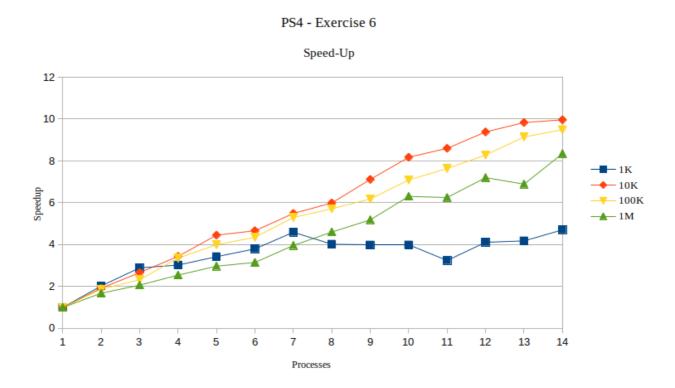
Author: Elena Pfefferlé, Pascal Schenk, Àlvaro Morales

We are asked to check the speed-up for combinations of MPI processes and sample points using one node on *Alphacruncher*.

Speed-up in latency is calculated as follow:

$$S = \frac{t_{old}}{t_{new}}$$

In our case, t_{old} is the runtime with **one** thread.



Note1: The exercise asks to try combination of MPI processes between 1 & 20. However, we noticed that jobs submitted with more that 14 processes would not start;

• status PD (pending) and node reason Ressources.

Note2: Execution outputs are stored in *Exercise6/output/*.