MPI Programming exercise: timing

Start with the `time_avg` program, which computes the average time taken for a computation. Compile the program with `make time_avg` and run it in an `idev` session.

Now do the following experiments.

1   Timer accuracy

The first thing you have to wonder about when you're doing timings is: how much does the timer disturb the measurements. Find a way to measure how much time the timer itself takes.

2   Collecting results

Instead of just computing the average time for a computation, gather all the timings on the root process and print them all.