

Module 3.13 Student Activity:

- 1) Compile the `mpi_pi_area.c` using your system's MPI compiler. The provided Makefile should be helpful with this process. It should create an exe file.
- 2) Submit the code to the scheduler selecting a series of cores (2, 4, 6, 8, 10, 12, 14, 16). When finished plot calculation time (provided in the output file) as a function of number of cores. Discuss how speed-up is affected by the number of resources requested.
- 3) Submit the code to the scheduler selecting a series of wallclock times (2 minutes, 4 minutes, 6 minutes, and 8 minutes). For this exercise select a fixed number of cores. Students should then plot calculation time as a function of wallclock times and discuss how speed-up is affected by wallclock time.