



PHYSICS 573: NUMERICAL METHODS

PHYSICS 643: COMPUTATIONAL PHYSICS

HOMEWORK ASSIGNMENT 6

Due: Mar. 8, 2022

- Study the Open MPI master/slave summation example at \$CLASSDIR/kfread/home6. First, run the example from your own account as described in Lecture 12 (posted in Canvas). Save the output from the batch job.
- Modify the Open MPI farm.cpp example program to perform a very simple *physics*-related calculation. As in the example, the master should process (for instance, simply add) the results from the slaves and report the result.
- Provide a README file that briefly describes this *physics*-related calculation and the key calculations done by the master and slave, respectively.
- Save your input source code, program, qsub commands, README file, and a copy of the batch output at ~/p643/outbox/home6.
- (As usual, follow the general guidelines from the end of Assignment 3.)

Assignments are posted at our Instructure Canvas course site <https://utk.instructure.com>. Other information concerning this class is available at <http://sites.google.com/site/utkp643>.



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