Contacts details

Dr. Ligang He

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Office hours: Room 205

Monday: 1:30pm-2:30pm

Wednesday: 1:30-2:30pm
Course Administration

Course Format

main lectures (30 hours): Ligang He

foundation seminars (one hour from week 1-5): Simon Hammond

Coursework seminars (one hour from week 6-9)

Assessment:

15 CATs

70% examined, 30% coursework

Coursework details announced in week 5

Coursework deadline in week 10
Learning Objectives

By the end of the course, you should understand:

- The role of HPC in various areas
- Commonly used parallel programming models and HPC platforms
- The means by which to measure, analyse and assess the performance of HPC applications and their supporting HPC platforms.
- The role of administration, scheduling, and data management in an HPC management system, with particular reference to cluster/grid computing
- The potential benefits and pitfalls of Grid Computing
Materials

The slides will be made available on-line after each lecture.

Relevant reference books, papers and on-line resources will be announced throughout the course.
Coursework

Coursework will involve the development of a parallel application using the Message Passing Interface (MPI).

It will involve performance analysis and modelling.

Your coursework will be assessed by the demo of your program and performance model, and a written report about how you construct the performance model.

Please attend the foundation seminars!