

# Assignment 1 - OpenMP

- Use OpenMP to parallelize the deqn code
  - The overall objective is to achieve good speedup by inserting OpenMP directives in the deqn code
  - You also need to
  - benchmark the runtime of each relevant loop and the runtime of the whole parallel program against the number of threads
  - Analyze the overhead of OpenMP

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- Write a report
  - Explain in detail what you did with the sequential code
  - benchmark the runtime of each relevant loop and the runtime of the whole parallel program against the number of threads; present the runtimes in graph or table; analyze the results
  - Discuss the iteration scheduling in your program
  - Analyze the overhead of OpenMP
  - Presentation skills, spelling, punctuation and grammar
  - Up to four A4 pages

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# Submission

- Put all the codes and the report (pdf file) in a package and submit the package through Tabula
- Deadline: 12 noon, Feb 5<sup>th</sup> Monday, 2018

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