

CS F422 Parallel Computing Project

Design and Implementation of a Template for Parallel Programming (to solve a class of problems) on a *hybrid system* (i.e. a commodity cluster supporting message passing at the top level and shared memory access within each node).

Team : 2 or 3 students per team; *form your own team*
Marks : **30**

Exercise: *Choose one of the exercises I, II, or III.*

Process and Evaluation:

· Phase I: Design

- Present your design between 9th April (Saturday) and 12th April (Tuesday).
[Schedule to be announced].
- Wrap up the design and upload a design document by 15th April

· Phase II: Implementation

- Interact with the instructor between 19th April and 23rd April.
 - This is not for evaluation but for validating your implementation ideas.
 - This is optional – so don't show up just for the sake of it unless you have done something and want this to be validated.
 - Time for discussion after 23rd will be very limited and you will not be able to finish your implementation during the last week – *therefore start implementing early* – as soon as you have a preliminary design.
- Demonstrate your implementation along with performance evaluation between 29th April and 1st May.
 - Performance evaluation of your implementation will carry a significant weight!!

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