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- Parallel algorithms on distributed memory machines will require that we decompose the original matrix into blocks which reside in each processor (similar to HW1) - Parallel algorithms will require that we minimize the surface-to volume ratio of our decompositions, and blocking becomes the natural approach.

CS 770G - Parallel Algorithms in Scientific Computing

Parallel computing involved the processing of multiple tasks simultaneously on multiple processors by

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dividing the task into subtasks by divide and conquer technique in other to improve parallel scientific computing in the area of Computational requirement , Sequential architecture , Hardware improvement, Vector processing and Network technology.

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Numerical algorithms, modern programming techniques, and parallel computing are often taught serially across different courses and different textbooks. The need to integrate concepts and tools usually comes only in employment or in research - after the courses are concluded - forcing the student to synthesise what is perceived to be three independent subfields into one.

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