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Introduction to Parallel Computing. Anshul Gupta, IBM T.J. Watson Research Center, Yorktown Heights, NY 10598 (anshul@watson.ibm.com) George Karypis, University of Minnesota, Minneapolis, MN 55455 (karypis@cs.umn.edu) Vipin Kumar, University of Minnesota, Minneapolis, MN 55455 (kumar@cs.umn.edu)

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i Preface This instructors guide to accompany the text " Introduction to Parallel Computing " contains solutions to selected problems. For some problems the solution has been sketched, and the details have been left out. When solutions to problems are available directly in publications, references have been provided. Where necessary, the solutions are supplemented by figures.

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Solution (1) Since each column contains n elements, this operation takes (n log p) time on a hypercube-connected parallel computer. Therefore, the parallel run time is TP = n3 p + (n2 log p). The isoefficiency function due to communication is ((p log p)3), which is the overall isoefficiency function.

Solution(1) - SlideShare

The total problem size is proportional to the number of processors used. Goal is to run larger problem in same amount of time. Perfect scaling means problem Px runs in same time as single processor run. The ability of a parallel program's performance to scale is a result of a number of interrelated factors.

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"Introduction to Parallel Computing", Pearson Education, 2003. • Jack Dongarra, Ian Foster, Geoffrey Fox, William Gropp, Ken Kennedy, Linda Torczon, Andy White "Sourcebook of Parallel Computing", Morgan Kaufmann Publishers, 2003. • Michael J. Quinn: "Parallel Programming in C with MPI and OpenMP", McGrawHill, 2004.

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