Performance Analysis and Comparison of MPI, OpenMP and Hybrid NPB – MZ

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Weekly Report (June 14 – June 20)

Main Tasks:

• Developing the Scalability Analysis:
  1. Submitted jobs with different problem classes and different number of processors in MPI to DataStar p655 and Hydra.
  2. Repeated the process three times per case for achieving a more accuracy level.
  3. Organized the output files of the submitted jobs.
  4. Looked at the output files to see differences.

• Initial web page submitted (link: http://students.cs.tamu.edu/hjmachin/).

• Went to a group meeting with Dr. Taylor, Dr. Wu, Sameh, Coker and Timothy where we planned to discuss Yelick’s paper next week.

Main Goals for future:

• Continue with the Scalability Analysis on up to 1024 processors (with increasing number of processors and problem sizes) for OpenMP and Hybrid NPB - MZ.

• Write a document about scalability analysis.

Need Help:

• I need some kind of guidance on how I am going to develop de scalability analysis document with the great amount of data that I am getting from the output files.