

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

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Main Tasks:

- Gain knowledge in the area of parallel processing:
 1. Continue reading information about MPI, OpenMP and NPB – MZ.
 2. Learn how to compile and submit OpenMP and NPB – MZ codes to DataStar in San Diego Supercomputer Center.
 3. Practice running the NAS Parallel Benchmarks with Multi-Zone application on p655.
- Research Plan submitted.
- Visited the Texas A&M Supercomputer Center.
- Get an account with TAMU's supercomputer Hydra.

Main Goals for future:

- Scalability Analysis on up to 1024 processors (with increasing number of processors and problem sizes).
- Write a document about scalability analysis.

Need Help:

- I need some explanation how I am going to develop this scalability analysis.