**CSC 548: Project**

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**Implementing computation timing deltas on the MPI Trace Compression Framework replay engine**

Progress Report 1 (November 11th, 2006)

Progress made so far:

1. Getting familiar with existing work
   a. Successfully copied, compiled and ran the record engine and got traces.
   b. Compiled the replay engine code --- this required a few minor changes here and there.
   c. Changed a few debug switches to obtain different traces.

2. Ran the replay engine with the traces generated by record engine
   a. Record engine does not recognize the traces properly --- changes required are in progress

3. Discussed timing trace format with Aditya. We’ve discussed the timing trace format and decided on the following
   a. Timing trace will be stored separately so that we can replay with or without the timing
   b. The trace will have a mpi call index and min/max/avg time information
   c. Since timing info will have a pattern similar to the calls, we can use a similar compression method

**Plan of Work**

**Deadline**

11/13/2006  Get the replay engine to work. If not, it should be in a state where the problems are identified.
Concretely define the data structure for the timing trace.

11/20/2006  Replay engine should be running properly. The timing trace implementation should be near completion

Final project ready