

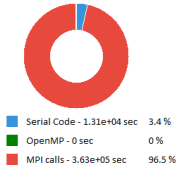
Summary: itac_cp.stf

Total time: 3.76e+05 sec. Resources: 512 processes, 4 nodes.

Continue >

Ratio

This section represents a ratio of all MPI calls to the rest of your code in the application.



Top MPI functions

This section lists the most active MPI functions from all MPI calls in the application.

MPI_Alltoall	3.52e+05 sec (93.7 %)
MPI_Barrier	4.43e+03 sec (1.18 %)
MPI_Allreduce	2.3e+03 sec (0.611 %)
MPI_Bcast	1.03e+03 sec (0.274 %)
MPI_Reduce	1.02e+03 sec (0.271 %)

Where to start with analysis

For deep analysis of the MPI-bound application click "Continue >" to open the tracefile View and leverage the Intel® Trace Analyzer functionality:

- Performance Assistant - to identify possible performance problems
- Imbalance Diagram - for detailed imbalance overview
- Tagging/Filtering - for thorough customizable analysis

To optimize node-level performance use:

- Intel® VTune™ Profiler for:
 - algorithmic level tuning with hpc-performance and threading efficiency analysis;
 - microarchitecture level tuning with general exploration and bandwidth analysis;
- Intel® Advisor for:
 - vectorization optimization and thread prototyping.

