

Intel Cluster Studio XE Development Tools

SciNet

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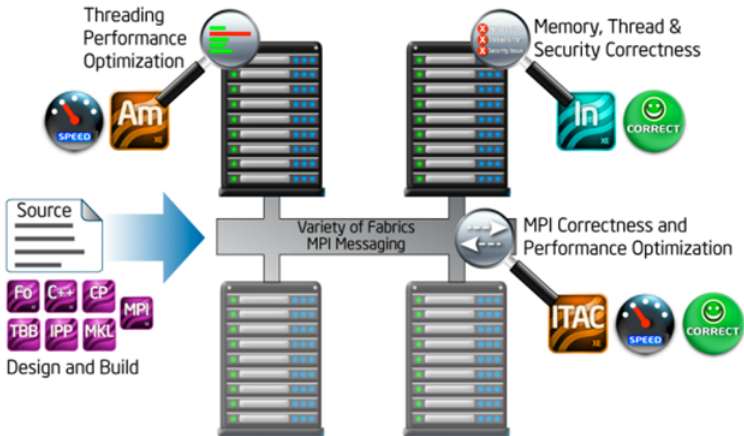
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Intel Cluster Studio XE



Intel® Cluster Studio XE

First comprehensive HPC hybrid parallelism development suite



Applications

- Intel VTune Amplifier XE 2013
- Intel Inspector XE 2013
- Intel Trace Analyzer and Collector (ITAC)
- Intel Advisor XE 2013

Commands

```
module load intel intelmpi inteltools Xlibraries
```

Memory Checker

- Determine memory leaks
- Check for invalid memory access
- Works with threads & MPI

Command

`inspxe-gui`

MPI Stats

- Evaluate communication overhead
- Investigate load balancing
- Collective operation investigations

Commands

- `mpirun -trace -np 4 mycode`
- Generates `mycode.stf`
- `traceanalyzer mycode.stf`

Refs

<http://software.intel.com/en-us/intel-cluster-studio-xe/>