**MPI & OpenMP Application Benchmarks for High-Performance Computing**

Developed by the SPEC High-Performance Group


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**SPEC MPI2007™**

Benchmark suite for performance testing of distributed memory processor systems

- **MPI2007 medium**
  - Target: 4 to 128 MPI rank systems (tested to 512 ranks)
  - 158 published results at [www.spec.org/mpi2007](http://www.spec.org/mpi2007)

- **MPI2007 large**
  - Target: 64 to 2048 MPI rank systems (tested to 4096 ranks)
  - Will be released on February 1, 2010

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**SPEC OMP2001™**

Benchmark suite for performance testing of shared memory processor systems

- **OMP2001 medium**
  - Target: 4 to 16-way systems
  - 236 published results at [www.spec.org/omp2001](http://www.spec.org/omp2001)

- **OMP2001 large**
  - Target: 32-way and larger systems
  - 77 published results at [www.spec.org/omp2001](http://www.spec.org/omp2001)

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The price of the benchmarks for non-members is:

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<th>Benchmark</th>
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**Selected SPEC HPG Publications**

**SPEC MPI2007** – an application benchmark suite for parallel systems using MPI


**SPEC HPG Benchmarks for High-Performance Systems**


**Large Systems Performance of SPEC OMP2001 Benchmarks**