SPEC® MPIM2007 Result

Dell Inc.
PowerEdge 1955

SPECmpiM_peak2007 = Not Run

SPECmpiM_base2007 = NC

MPI2007 license: 021
Test sponsor: Scali, Inc.
Tested by: Scali, Inc.

Test date: Nov-2007
Hardware Availability: Dec-2006
Software Availability: Aug-2007

Results Table

	Base							Peak						
Benchmark	**Ranks**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Ranks**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**
104.milc	8	NC	NC	NC	NC	NC	NC							
107.leslie3d	8	NC	NC	NC	NC	NC	NC							
113.GemsFDTD	8	NC	NC	NC	NC	NC	NC							
115.fds4	8	NC	NC	NC	NC	NC	NC							
121.pop2	8	NC	NC	NC	NC	NC	NC							
122.tachyon	8	NC	NC	NC	NC	NC	NC							
126.lammps	8	NC	NC	NC	NC	NC	NC							
127.wrf2	8	NC	NC	NC	NC	NC	NC							
128.GAPgeofem	8	NC	NC	NC	NC	NC	NC							

Table continues on next page. Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

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Results Table (Continued)

Benchmark	Base							Peak						
	Ranks	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Ranks	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
129.tera_tf	8	NC	NC	NC	NC	NC	NC							
130.socorro	8	NC	NC	NC	NC	NC	NC							
132.zeusmp2	8	NC	NC	NC	NC	NC	NC							
137.lu	8	NC	NC	NC	NC	NC	NC							

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Hardware Summary

Type of System:	SMP
Compute Node:	Dell PowerEdge 1955
File Server Node:	Dell PowerEdge 1955
Total Compute Nodes:	1
Total Chips:	2
Total Cores:	8
Total Threads:	8
Total Memory:	16 GB
Base Ranks Run:	8
Minimum Peak Ranks:	--
Maximum Peak Ranks:	--

Software Summary

C Compiler:	Intel C++ Compiler 10.0.027
C++ Compiler:	Intel C++ Compiler 10.0.027
Fortran Compiler:	Intel Fortran Compiler 10.0.027
Base Pointers:	64-bit
Peak Pointers:	Not Applicable
MPI Library:	Scali MPI Connect 5.5
Other MPI Info:	None
Pre-processors:	None
Other Software:	None

Node Description: Dell PowerEdge 1955

Hardware

Number of nodes:	1
Uses of the node:	compute, file server
Vendor:	Dell Inc.
Model:	PowerEdge 1955 (Xeon X5355 2.66GHz)
CPU Name:	Intel Xeon X5355
CPU(s) orderable:	1-2 chips
Chips enabled:	2
Cores enabled:	8
Cores per chip:	4
Threads per core:	1
CPU Characteristics:	1333 MHz FSB
CPU MHz:	2660
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	8 MB I+D on chip per chip, 4 MB shared / 2 cores
L3 Cache:	None
Other Cache:	None
Memory:	16 GB (4 x 4GB DIMMs)
Disk Subsystem:	Dell SAS5 RAID 0 with 2 x 73BG Fujitsu MAY2073RC 10k RPM
Other Hardware:	None
Adapter:	None
Number of Adapters:	0
Slot Type:	Not Applicable

Software

Adapter:	None
Adapter Driver:	Not Applicable
Adapter Firmware:	Not Applicable
Operating System:	Microsoft Windows Server 2003 R2 Enterprise X64 Edition Service Pack 2
Local File System:	NTFS
Shared File System:	Not Applicable
System State:	multi-user
Other Software:	None

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Node Description: Dell PowerEdge 1955

Data Rate:	Not Applicable
Ports Used:	0
Interconnect Type:	None

Base Compiler Invocation

C benchmarks:
`icl`

C++ benchmarks:

126.lammps: `icl`

Fortran benchmarks:
`ifort`

Benchmarks using both Fortran and C:
`icl ifort`

Base Portability Flags

115.fds4: `/DSPEC_MPI_UC_NO_TRAILING_UNDERSCORE`
121.pop2: `/DSPEC_MPI_WINDOWS_ICL`
127.wrf2: `/DSPEC_MPI_CASE_FLAG /us /Qlowercase`
129.tera_tf: `/fpscomp:general`
130.socorro: `/DSPEC_NO_UNDERSCORE /Qlowercase`
132.zeusmp2: `/DSPEC_MPI_WINDOWS_ICL /fpscomp:general`

Base Optimization Flags

C benchmarks:
`/O3 /Qprec-div- /QxP /F3950000000`

C++ benchmarks:

126.lammps: `/O3 /Qprec-div- /QxP /F3950000000`

Fortran benchmarks:
`/O3 /Qprec-div- /QxP /F3950000000`

Benchmarks using both Fortran and C:
`/O3 /Qprec-div- /QxP /F3950000000`

Base Other Flags

C benchmarks:
`/I"C:\Program Files\Scali\Scali MPI Connect\\include"`

C++ benchmarks:

126.lammps: `/I"C:\Program Files\Scali\Scali MPI Connect\\include"`

Fortran benchmarks:
`/I"C:\Program Files\Scali\Scali MPI Connect\\include"`

Benchmarks using both Fortran and C:
`/I"C:\Program Files\Scali\Scali MPI Connect\\include"`

The flags file that was used to format this result can be browsed at
http://www.spec.org/mpi2007/flags/dell.ic10.windows.flags.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/mpi2007/flags/dell.ic10.windows.flags.xml

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

Tested with SPEC MPI2007 v1.0.
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