SPEC® MPIM2007 Result

Huawei
Huawei 2488H V5

SPECmpiM_peak2007 = Not Run

SPECmpiM_base2007 = NC

MPI2007 license:	27	**Test date:**	Jun-2017
Test sponsor:	Huawei	**Hardware Availability:**	Jul-2017
Tested by:	Huawei	**Software Availability:**	Apr-2017

SPEC has determined that this result is not in compliance with the SPEC MPI2007 run and reporting rules. Specifically, the result does not meet the 90 day general availability requirement as the system was not available within 90 days of result publication.

Results Table

Benchmark	Base							Peak						
	Ranks	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Ranks	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
104.milc	112	NC	NC	NC	NC	NC	NC							
107.leslie3d	112	NC	NC	NC	NC	NC	NC							
113.GemsFDTD	112	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
115.fds4	112	NC	NC	NC	NC	NC	NC							
121.pop2	112	NC	NC	NC	NC	NC	NC							
122.tachyon	112	NC	NC	NC	NC	NC	NC							
126.lammps	112	NC	NC	NC	NC	NC	NC							
127.wrf2	112	NC	NC	NC	NC	NC	NC							
128.GAPgeofem	112	NC	NC	NC	NC	NC	NC							
129.tera_tf	112	NC	NC	NC	NC	NC	NC							
130.socorro	112	NC	NC	NC	NC	NC	NC							
132.zeusmp2	112	NC	NC	NC	NC	NC	NC							
137.lu	112	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:	Homogeneous
Compute Node:	2488H V5 Node
File Server Node:	2488H V5 Node
Head Node:	2488H V5 Node
Total Compute Nodes:	1
Total Chips:	4
Total Cores:	112
Total Threads:	112
Total Memory:	768 GB
Base Ranks Run:	112
Minimum Peak Ranks:	--
Maximum Peak Ranks:	--

Software Summary

C Compiler:	Intel C++ Composer XE 2017 for Linux, Version 17.0.4.196 Build 20170411
C++ Compiler:	Intel C++ Composer XE 2017 for Linux, Version 17.0.4.196 Build 20170411
Fortran Compiler:	Intel Fortran Composer XE 2017 for Linux, Version 17.0.4.196 Build 20170411
Base Pointers:	64-bit
Peak Pointers:	64-bit
MPI Library:	Intel MPI Library for Linux, Version 2017 Update 3 Build 20170405
Other MPI Info:	None
Pre-processors:	No
Other Software:	None

Node Description: 2488H V5 Node

Hardware

Number of nodes:	1
Uses of the node:	head, compute, fileserver

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Software

Adapter:	0
Adapter Driver:	0

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Node Description: 2488H V5 Node

Vendor:	Huawei
Model:	Huawei 2488H V5
CPU Name:	Intel Xeon Platinum 8180 CPU
CPU(s) orderable:	2, 4 chip
Chips enabled:	4
Cores enabled:	112
Cores per chip:	28
Threads per core:	1
CPU Characteristics:	Intel Turbo Boost Technology on, Hyper-Threading Technology (SMT) disable
CPU MHz:	2500
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	1 MB I+D on chip per core
L3 Cache:	38.5 MB I+D on chip per chip
Other Cache:	None
Memory:	768 GB (24 x 32 GB 2Rx4 PC4-2666V, running at 2666 MHz)
Disk Subsystem:	2 x 600 GB 10K RPM SAS
Other Hardware:	None
Adapter:	0
Number of Adapters:	0
Slot Type:	0
Data Rate:	0
Ports Used:	0
Interconnect Type:	0

Adapter Firmware:	--
Operating System:	Red Hat Enterprise Linux Server 7.3 (Maipo) Linux kernel 3.10.0-514.el7.x86_64
Local File System:	xfs
Shared File System:	None
System State:	Multi-User
Other Software:	None

Submit Notes

```
The config file option 'submit' was used.
```

General Notes

```
MPI startup command:
  mpiexec.hydra command was used to start MPI jobs.

BIOS settings:
  Intel Hyper-Threading Technology (SMT):Disable
  Intel Turbo Boost Technology (Turbo):Enabled (default is Enabled)
```

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Base Compiler Invocation

C benchmarks:
`mpiicc`

C++ benchmarks:

126.lammps: `mpiicpc`

Fortran benchmarks:
`mpiifort`

Benchmarks using both Fortran and C:
`mpiicc mpiifort`

Base Portability Flags

121.pop2: `-DSPEC_MPI_CASE_FLAG`
126.lammps: `-DMPICH_IGNORE_CXX_SEEK`
127.wrf2: `-DSPEC_MPI_CASE_FLAG -DSPEC_MPI_LINUX`

Base Optimization Flags

C benchmarks:
`-O3 -xCORE-AVX2 -no-prec-div`

C++ benchmarks:

126.lammps: `-O3 -xCORE-AVX2 -no-prec-div`

Fortran benchmarks:
`-O3 -xCORE-AVX2 -no-prec-div`

Benchmarks using both Fortran and C:
`-O3 -xCORE-AVX2 -no-prec-div`

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The flags file that was used to format this result can be browsed at
`http://www.spec.org/mpi2007/flags/Huawei_x86_64_Intel_linux.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/mpi2007/flags/Huawei_x86_64_Intel_linux.xml`

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

Tested with SPEC MPI2007 v2.0.1.
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