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.

Ranks

104.milc

107.leslie3d

113.GemsFDTD

115.fds4

121.pop2

122.tachyon

126.lammps

127.wrf2

128.GAPgeofem

129.tera_tf

130.socorro

132.zeusmp2

Non-Compliant

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	Ranks	Base Seconds	Base Ratio	Base Seconds	Base Ratio	Base Seconds	Base Ratio	Peak Ranks	Peak Seconds	Peak Ratio	Peak Seconds	Peak Ratio	Peak Seconds	Peak 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: 56
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

Software

Adapter: 0
Adapter Driver: 0

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Node Description: 2488H V5 Node

Vendor:	Huawei	Adapter Firmware:	--
Model:	Huawei 2488H V5	Operating System:	Red Hat Enterprise Linux Server 7.3
CPU Name:	Intel Xeon Platinum 8180 CPU		(Maipo)
CPU(s) orderable:	2, 4 chip		Linux kernel 3.10.0-514.el7.x86_64
Chips enabled:	4	Local File System:	xfs
Cores enabled:	112	Shared File System:	None
Cores per chip:	28	System State:	Multi-User
Threads per core:	1	Other Software:	None
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		

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

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

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