



SPEC® OMPG2012 Result

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Dell

(Test Sponsor: University of Delaware)

SPECompG_peak2012 = Not Run

Dell M630 Blade (Intel Xeon E5-2680 v3)

SPECompG_base2012 = 7.04

OMP2012 license:056A

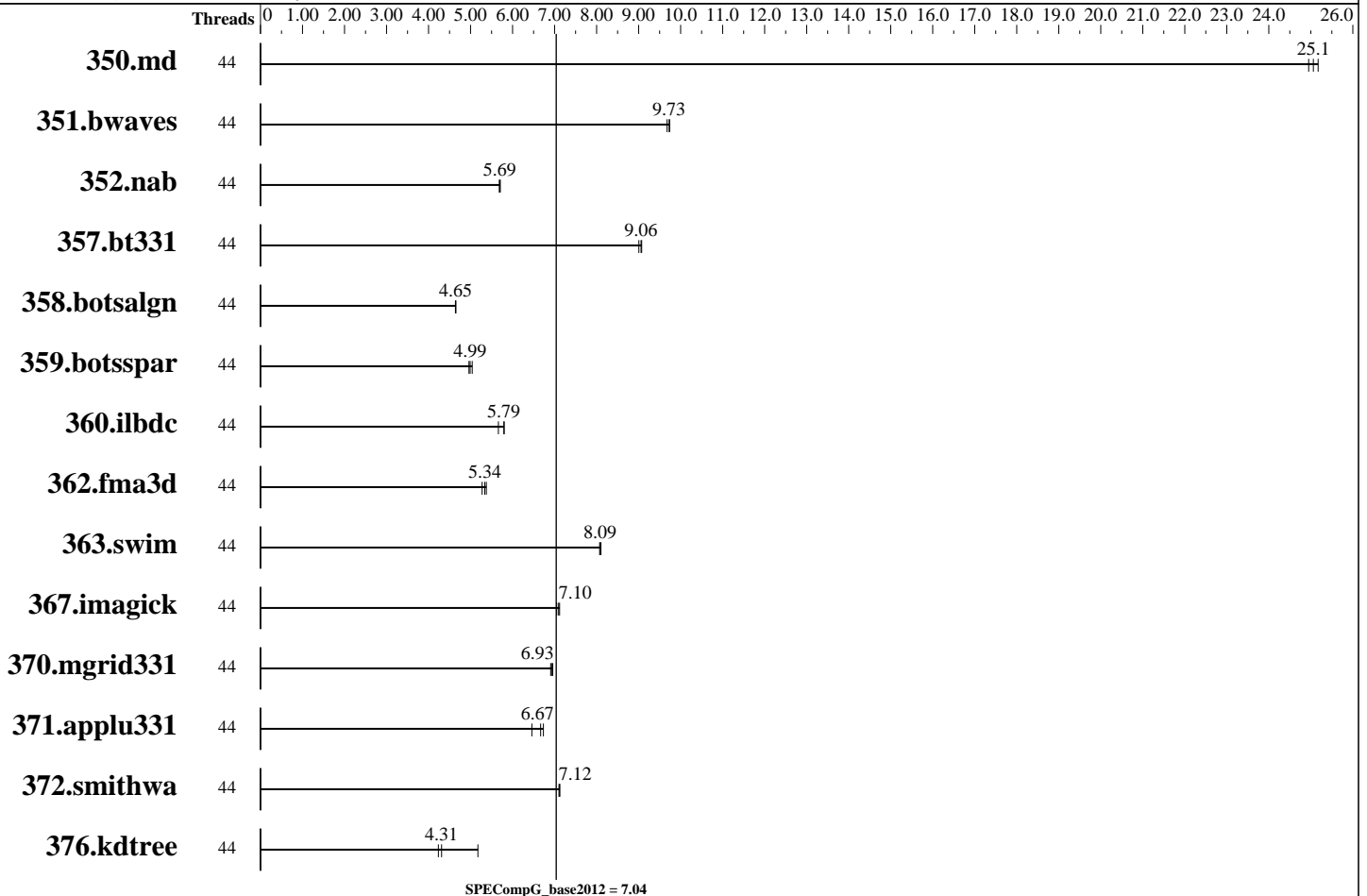
Test sponsor: University of Delaware

Tested by: University of Delaware

Test date: Sep-2018

Hardware Availability: Jun-2018

Software Availability: Jun-2018



Hardware

CPU Name: Dual Intel Xeon E5-2680 v3
 CPU Characteristics: Intel Turbo Boost Technology off, Hyper-Threading on
 CPU MHz: 2500
 CPU MHz Maximum: 3300
 FPU: Integrated
 CPU(s) enabled: 24 cores, 2 chips, 12 cores/chip, 2 threads/core
 CPU(s) orderable: 1-2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 256 KB I+D on chip per core
 L3 Cache: 30 MB I+D on chip per chip
 Other Cache: None
 Memory: 128 GB (16 x 8 GB 2Rx4 PC4-2133-R)
 Disk Subsystem: 400GB (SATA Mix Use MLC 6Gbps 2.5in Hot-plug Drive, 13G (400-AEIX) dual SSDs, RAID-1)
 Other Hardware: None

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Software

Operating System: CentOS Linux release 7.5.1804 (Core) 3.10.0-862.11.6.el7.x86_64
 Compiler: C/C++/Fortran: Version 18.4 of PGI Community Edition
 Auto Parallel: No
 File System: XFS
 System State: Run level 3 (multi-user)
 Base Pointers: 64-bit
 Peak Pointers: Not Applicable
 Other Software: None



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Base Threads Run: 44

Minimum Peak Threads: --

Maximum Peak Threads: --

Results Table

Benchmark	Base						Peak							
	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
350.md	44	<u>185</u>	<u>25.1</u>	186	24.9	184	25.2							
351.bwaves	44	<u>466</u>	<u>9.73</u>	465	9.74	468	9.68							
352.nab	44	<u>683</u>	<u>5.69</u>	684	5.69	682	5.71							
357.bt331	44	526	9.01	522	9.07	<u>523</u>	<u>9.06</u>							
358.botsalgn	44	936	4.65	<u>936</u>	<u>4.65</u>	938	4.64							
359.botsspar	44	<u>1052</u>	<u>4.99</u>	1042	5.04	1058	4.96							
360.ilbdc	44	<u>615</u>	<u>5.79</u>	629	5.66	614	5.80							
362.fma3d	44	720	5.27	<u>712</u>	<u>5.34</u>	707	5.38							
363.swim	44	561	8.07	<u>560</u>	<u>8.09</u>	559	8.10							
367.imagick	44	997	7.05	987	7.12	<u>991</u>	<u>7.10</u>							
370.mgrid331	44	<u>638</u>	<u>6.93</u>	640	6.91	635	6.96							
371.applu331	44	900	6.73	938	6.46	<u>909</u>	<u>6.67</u>							
372.smithwa	44	752	7.12	<u>753</u>	<u>7.12</u>	754	7.10							
376.kdtree	44	<u>1044</u>	<u>4.31</u>	1063	4.23	870	5.18							

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

Platform Notes

Sysinfo program /home/huberth/SPEC_OMP2012v1.1/Docs/sysinfo
Revision 563 of 2016-06-10 (097295389cf6073d8c3b03fa376740a5)
running on r01c2b04 Fri Sep 14 16:57:00 2018

This section contains SUT (System Under Test) info as seen by some common utilities. To remove or add to this section, see:
<http://www.spec.org/omp2012/Docs/config.html#sysinfo>

```
From /proc/cpuinfo
model name : Intel(R) Xeon(R) CPU E5-2680 v3 @ 2.50GHz
 2 "physical id"s (chips)
 48 "processors"
cores, siblings (Caution: counting these is hw and system dependent. The
following excerpts from /proc/cpuinfo might not be reliable. Use with
caution.)
cpu cores : 12
siblings : 24
physical 0: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 1: cores 0 1 2 3 4 5 8 9 10 11 12 13
cache size : 30720 KB
```

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Platform Notes (Continued)

From /proc/meminfo

MemTotal: 131612388 kB

HugePages_Total: 0

Hugepagesize: 2048 kB

/usr/bin/lsb_release -d

CentOS Linux release 7.5.1804 (Core)

From /etc/*release* /etc/*version*

centos-release: CentOS Linux release 7.5.1804 (Core)

centos-release-upstream: Derived from Red Hat Enterprise Linux 7.5 (Source)

os-release:

NAME="CentOS Linux"

VERSION="7 (Core)"

ID="centos"

ID_LIKE="rhel fedora"

VERSION_ID="7"

PRETTY_NAME="CentOS Linux 7 (Core)"

ANSI_COLOR="0;31"

CPE_NAME="cpe:/o:centos:centos:7"

redhat-release: CentOS Linux release 7.5.1804 (Core)

system-release: CentOS Linux release 7.5.1804 (Core)

system-release-cpe: cpe:/o:centos:centos:7

uname -a:

Linux r01c2b04 3.10.0-862.11.6.el7.x86_64 #1 SMP Tue Aug 14 21:49:04 UTC 2018
x86_64 x86_64 x86_64 GNU/Linux

run-level 3 Sep 14 16:12

SPEC is set to: /home/huberth/SPEC_OMP2012v1.1

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
/dev/mapper/centos_r01c2b04-root	xf	926G	43G	884G	5%	/

Additional information from dmidecode:

Warning: Use caution when you interpret this section. The 'dmidecode' program reads system data which is "intended to allow hardware to be accurately determined", but the intent may not be met, as there are frequent changes to hardware, firmware, and the "DMTF SMBIOS" standard.

(End of data from sysinfo program)

General Notes

Environment Variables:

OMP_STACKSIZE=1G

ulimit -s unlimited

KMP_AFFINITY=compact

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Standard Performance Evaluation Corporation

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General Notes (Continued)

Yes: The test sponsor attests, as of date of publication, that CVE-2017-5754 (Meltdown)

Yes: The test sponsor attests, as of date of publication, that CVE-2017-5753 (Spectre variant 1)

Yes: The test sponsor attests, as of date of publication, that CVE-2017-5715 (Spectre variant 2)

Base Compiler Invocation

C benchmarks:

pgcc

C++ benchmarks:

pgc++

Fortran benchmarks:

pgf90

Base Portability Flags

350.md: -Mfree
357.bt331: -mcmmodel=medium
363.swim: -mcmmodel=medium

Base Optimization Flags

C benchmarks:

-fast -Mfprelaxed -mp -Mipa=fast -Mipa=inline

C++ benchmarks:

-fast -Mfprelaxed -mp -Mipa=fast -Mipa=inline

Fortran benchmarks:

-fast -Mfprelaxed -mp -Mipa=fast -Mipa=inline

The flags file that was used to format this result can be browsed at

http://www.spec.org/omp2012/flags/pgi17_linux_flags.html

You can also download the XML flags source by saving the following link:

http://www.spec.org/omp2012/flags/pgi17_linux_flags.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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