# SPEC® OMPG2012 Result

**Dell**

(Test Sponsor: University of Delaware)

**Dell M630 Blade (Intel Xeon E5-2680 v3)**

**SPECompG_peak2012 = Not Run**

**SPECompG_base2012 = 7.03**

## 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 PC4-2133P-R)
- **Disk Subsystem:** 400GB (SATA Mix Use ML C 6Gb/s 2.5in Hot-plug Drive, 13G (400-ALIX) dual SSDs, RAID-1)
- **Other Hardware:** None

## Software

- **Operating System:** CentOS Linux release 7.5.1804 (Core) 3.10.0-862.3.3.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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### OMP2012 license: 056A

**Test date:** Sep-2018

**Hardware Availability:** Jun-2018

**Software Availability:** Jun-2018

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SPECompG_base2012 = 7.03

Continued on next page
SPEC OMPG2012 Result

Dell M630 Blade (Intel Xeon E5-2680 v3)

SPECompG_peak2012 = Not Run
SPECompG_base2012 = 7.03

OMP2012 license: 056A
Test sponsor: University of Delaware
Tested by: University of Delaware

Base Threads Run: 44
Minimum Peak Threads: --
Maximum Peak Threads: --

Results Table

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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 Mon Jul  2 13:05:55 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

Continued on next page
P SPEC OMPG2012 Result

Dell
(Test Sponsor: University of Delaware)

Dell M630 Blade (Intel Xeon E5-2680 v3)

SPECompG_peak2012 = Not Run
SPECompG_base2012 = 7.03

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<th>Test date: Sep-2018</th>
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<td>Hardware Availability: Jun-2018</td>
</tr>
<tr>
<td>Tested by: University of Delaware</td>
<td>Software Availability: Jun-2018</td>
</tr>
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Platform Notes (Continued)

From /proc/meminfo
MemTotal: 131612404 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 3.10.0-862.3.3.el7.x86_64 #1 SMP Fri Jun 15 04:15:27 UTC 2018
x86_64 x86_64 x86_64 GNU/Linux

run-level 3 Jul 2 11:49

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

Filesystem Type Size Used Avail Use% Mounted on
/devmapper/centos_r01c2b04-root xfs 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

Yes: The test sponsor attests, as of date of publication, that CVE-2017-5754 (Meltdown) Continued on next page
## SPEC OMPG2012 Result

**Dell**  
(Test Sponsor: University of Delaware)  

**Dell M630 Blade (Intel Xeon E5-2680 v3)**  

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### General Notes (Continued)

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: -mcmodel=medium
- 363.swim: -mcmodel=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.

Tested with SPEC OMP2012 v1.1.
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