



# SPEC® OMPG2012 Result

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## Intel SR1600UR

SPECompG\_peak2012 = Not Run

SPECompG\_base2012 = 2.68

OMP2012 license:13

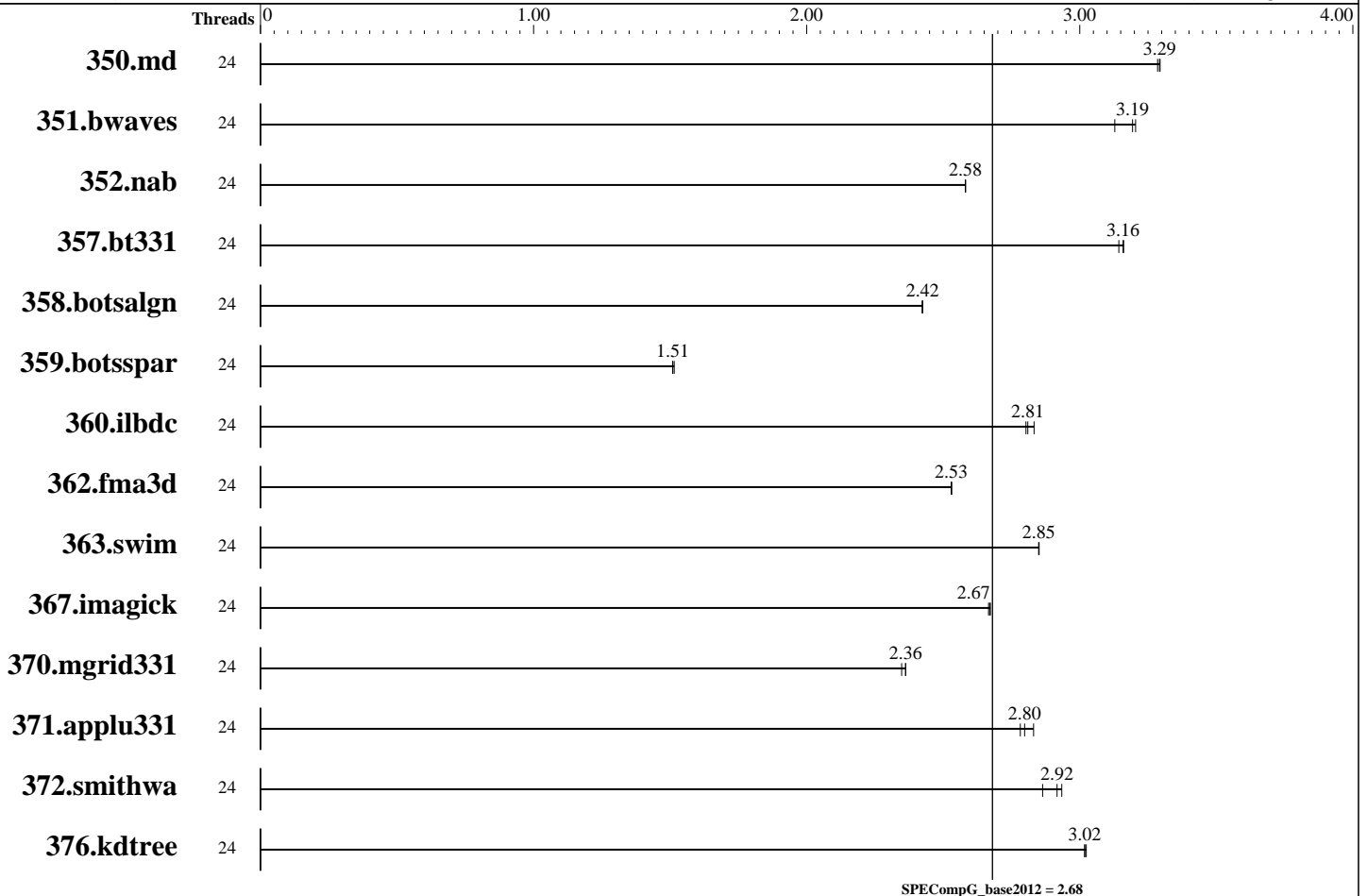
Test sponsor: Intel

Tested by: Intel

Test date: Oct-2012

Hardware Availability: Mar-2010

Software Availability: Aug-2012



### Hardware

CPU Name: Intel Xeon X5670  
 CPU Characteristics: 2930  
 CPU MHz: 2930  
 CPU MHz Maximum: 2930  
 FPU: Integrated  
 CPU(s) enabled: 12 cores, 2 chips, 6 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: 12 MB I+D on chip per chip  
 Other Cache: None  
 Memory: 48 GB (6 x 8 GB 2Rx4 PC3-10600R-9, ECC)  
 Disk Subsystem: Panasas ActiveStor 3050 Fileserver 64 disks, 250GB/disk, 16TB total, 4 Shelves connected via 1Gbps Ethernet  
 Other Hardware: --

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### Software

Operating System: Red Hat Enterprise Linux Server release 6.1 (Santiago)  
 Compiler: C/C++: Version 13.0.0.079 of Intel Composer XE for Linux Build 20120731  
 Fortran: Version 13.0.0.079 of Intel Composer XE for Linux Build 20120731  
 Auto Parallel: No  
 File System: Linux ext3  
 System State: Default  
 Base Pointers: 64-bit  
 Peak Pointers: Not Applicable  
 Other Software: None



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Base Threads Run: 24  
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	24	1409	3.29	1406	3.29	<b>1406</b>	<b>3.29</b>							
351.bwaves	24	1414	3.20	1448	3.13	<b>1419</b>	<b>3.19</b>							
352.nab	24	1507	2.58	<b>1507</b>	<b>2.58</b>	1507	2.58							
357.bt331	24	1500	3.16	1508	3.14	<b>1501</b>	<b>3.16</b>							
358.botsalgn	24	1794	2.42	1795	2.42	<b>1794</b>	<b>2.42</b>							
359.botsspar	24	3478	1.51	3465	1.51	<b>3477</b>	<b>1.51</b>							
360.ilbdc	24	1270	2.80	<b>1267</b>	<b>2.81</b>	1257	2.83							
362.fma3d	24	<b>1502</b>	<b>2.53</b>	1501	2.53	1502	2.53							
363.swim	24	<b>1589</b>	<b>2.85</b>	1590	2.85	1589	2.85							
367.imagick	24	2630	2.67	<b>2633</b>	<b>2.67</b>	2637	2.67							
370.mgrid331	24	<b>1871</b>	<b>2.36</b>	1871	2.36	1883	2.35							
371.applu331	24	2141	2.83	2178	2.78	<b>2166</b>	<b>2.80</b>							
372.smithwa	24	1827	2.93	<b>1838</b>	<b>2.92</b>	1871	2.86							
376.kdtree	24	1488	3.02	1491	3.02	<b>1491</b>	<b>3.02</b>							

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

## Platform Notes

```
Sysinfo program /panfs/panfs2/home2/aknyazel/OMP2012/K21/Docs/sysinfo
$Rev: 395 $ $Date:: 2012-07-25 #$ 8f8c0fe9e19c658963a1e67685e50647
running on en340 Wed Oct 10 02:31:52 2012
```

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 X5670 @ 2.93GHz
 2 "physical id"s (chips)
 24 "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 : 6
siblings : 12
physical 0: cores 0 1 2 8 9 10
physical 1: cores 0 1 2 8 9 10
cache size : 12288 KB
```

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## Platform Notes (Continued)

```

From /proc/meminfo
MemTotal:      49498196 kB
HugePages_Total:    0
Hugepagesize:   2048 kB

From /etc/*release* /etc/*version*
redhat-release: Red Hat Enterprise Linux Server release 6.1 (Santiago)
system-release: Red Hat Enterprise Linux Server release 6.1 (Santiago)
system-release-cpe: cpe:/o:redhat:enterprise_linux:6server:ga:server

uname -a:
Linux en340 2.6.32-131.0.15.el6.x86_64.crt.1 #3 SMP Fri May 20 16:57:43 PDT
2011 x86_64 x86_64 x86_64 GNU/Linux

run-level 3 Oct 8 10:21

SPEC is set to: /panfs/panfs2/home2/aknyazel/OMP2012/K21
Filesystem      Type      Size  Used Avail Use% Mounted on
panfs://36.107.212.1/home2
                panfs    14T   11T  3.4T  76% /panfs/panfs2/home2

Cannot run dmidecode; consider saying 'chmod +s /usr/sbin/dmidecode'

(End of data from sysinfo program)

```

## General Notes

```

=====
BIOS settings notes:
  Intel Turbo Boost Technology (Turbo) : Disabled

=====
General Notes and Environment variables
export KMP_LIBRARY=turnaround
export KMP_STACKSIZE=31M
export KMP_BLOCKTIME=infinite
export OMP_DYNAMIC=FALSE

=====
gross:
export KMP_AFFINITY=compact,0

```

## Base Compiler Invocation

C benchmarks:  
icc

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## Base Compiler Invocation (Continued)

C++ benchmarks:  
icpc

Fortran benchmarks:  
ifort

## Base Portability Flags

350.md: -FR  
357.bt331: -mmodel=medium  
363.swim: -mmodel=medium  
367.imagick: -std=c99

## Base Optimization Flags

C benchmarks:  
-O3 -xSSE4.2 -ipo -openmp -ansi-alias

C++ benchmarks:  
-O3 -xSSE4.2 -ipo -openmp

Fortran benchmarks:  
-O3 -xSSE4.2 -ipo -openmp

The flags file that was used to format this result can be browsed at  
<http://www.spec.org/omp2012/flags/Intel-ic13.0-linux64.20121016.html>

You can also download the XML flags source by saving the following link:  
<http://www.spec.org/omp2012/flags/Intel-ic13.0-linux64.20121016.xml>

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For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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