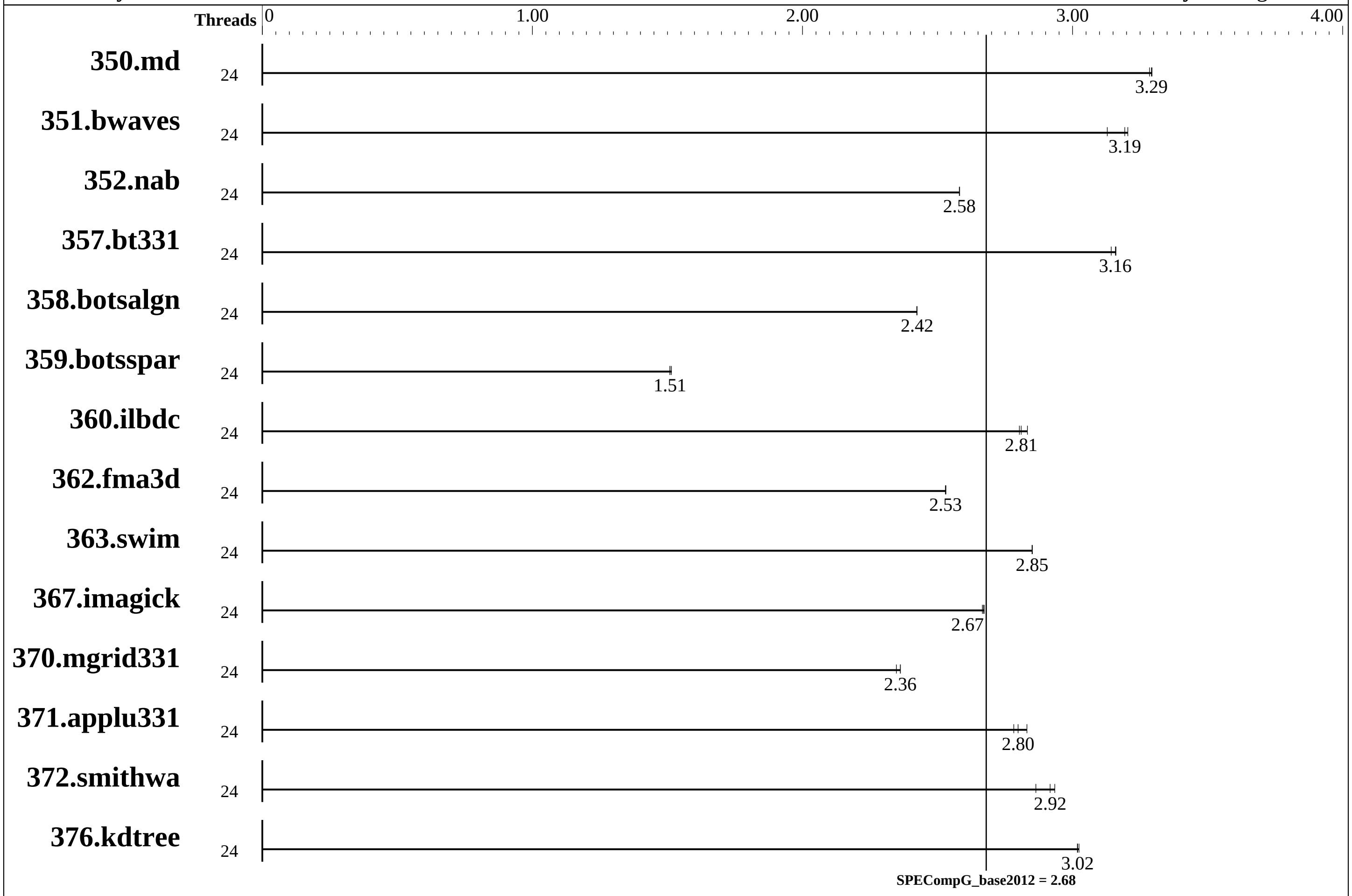
SPEC® OMPG2012 Result

Intel
SR1600UR

SPECompG_peak2012 = Not Run

SPECompG_base2012 = 2.68

OMP2012 license:	13	**Test date:**	Oct-2012
Test sponsor:	Intel	**Hardware Availability:**	Mar-2010
Tested by:	Intel	**Software Availability:**	Aug-2012



Hardware

CPU Name:	Intel Xeon X5670
CPU Characteristics:	
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	**1406**	**3.29**							
351.bwaves	24	1414	3.20	1448	3.13	**1419**	**3.19**							
352.nab	24	1507	2.58	**1507**	**2.58**	1507	2.58							
357.bt331	24	1500	3.16	1508	3.14	**1501**	**3.16**							
358.botsalgn	24	1794	2.42	1795	2.42	**1794**	**2.42**							
359.botsspar	24	3478	1.51	3465	1.51	**3477**	**1.51**							
360.ilbdc	24	1270	2.80	**1267**	**2.81**	1257	2.83							
362.fma3d	24	**1502**	**2.53**	1501	2.53	1502	2.53							
363.swim	24	**1589**	**2.85**	1590	2.85	1589	2.85							
367.imagick	24	2630	2.67	**2633**	**2.67**	2637	2.67							
370.mgrid331	24	**1871**	**2.36**	1871	2.36	1883	2.35							
371.applu331	24	2141	2.83	2178	2.78	**2166**	**2.80**							
372.smithwa	24	1827	2.93	**1838**	**2.92**	1871	2.86							
376.kdtree	24	1488	3.02	1491	3.02	**1491**	**3.02**							

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

Platform Notes

```
Sysinfo program /panfs/panfs2/home2/aknyaze1/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/aknyaze1/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: `-mcmodel=medium`
363.swim: `-mcmodel=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

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

Tested with SPEC OMP2012 v21.
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