



# SPEC<sup>®</sup> CINT2006 Result

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## ScaleMP

SPECint<sup>®</sup>\_rate2006 = Not Run

vSMP Foundation (Intel Xeon X5650, 2.66 GHz)

SPECint\_rate\_base2006 = 13600

CPU2006 license: 2929

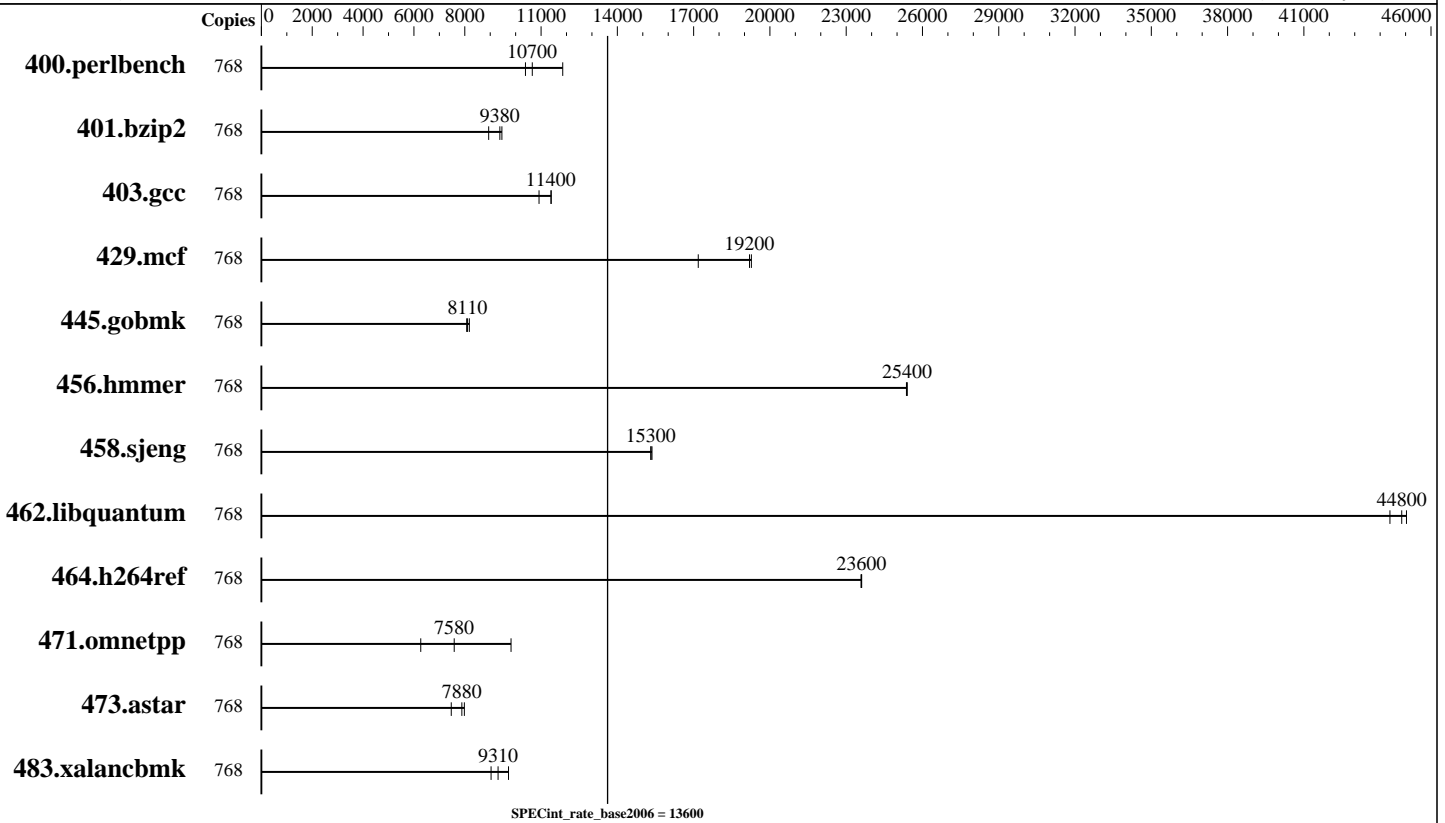
Test sponsor: ScaleMP

Tested by: ScaleMP

Test date: Jun-2011

Hardware Availability: Mar-2010

Software Availability: May-2011



### Hardware

CPU Name: Intel Xeon X5650  
 CPU Characteristics: Intel Turbo Boost Technology is not enabled  
 CPU MHz: 2667  
 FPU: Integrated  
 CPU(s) enabled: 768 cores, 128 chips, 6 cores/chip  
 CPU(s) orderable: 2 to 64 blades with 2 chips per blade  
 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: 540 GB I+D off chip per system  
 Memory: 6 TB (64 x 12 x 8 GB 2Rx4 PC3-10600R-9, ECC)  
 Disk Subsystem: 6 TB ramfs  
 Other Hardware: None

### Software

Operating System: CentOS release 5.5 (Final)  
 Kernel: 2.6.32.19-13.vSMP  
 Compiler: Intel C Compiler for applications running on IA-32, Version 11.1.074  
 Intel Fortran Compiler for applications running on IA-32, Version 11.1.074  
 Auto Parallel: No  
 File System: xfs  
 System State: Multi-user, run level 3  
 Base Pointers: 32-bit  
 Peak Pointers: Not Applicable  
 Other Software: Hoard (libhoard) 3.7.1, released Feb. 08, 2008  
 ScaleMP vSMP Foundation 3.5.175.15, released May. 30, 2011



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## Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	768	<b>704</b>	<b>10700</b>	722	10400	633	11900							
401.bzip2	768	<b>790</b>	<b>9380</b>	783	9460	829	8940							
403.gcc	768	542	11400	<b>543</b>	<b>11400</b>	566	10900							
429.mcf	768	408	17200	363	19300	<b>365</b>	<b>19200</b>							
445.gobmk	768	<b>993</b>	<b>8110</b>	998	8070	985	8180							
456.hammer	768	<b>282</b>	<b>25400</b>	282	25400	282	25400							
458.sjeng	768	<b>607</b>	<b>15300</b>	607	15300	605	15400							
462.libquantum	768	<b>355</b>	<b>44800</b>	359	44400	353	45000							
464.h264ref	768	<b>720</b>	<b>23600</b>	720	23600	721	23600							
471.omnetpp	768	489	9820	<b>633</b>	<b>7580</b>	766	6270							
473.astar	768	675	7980	722	7470	<b>684</b>	<b>7880</b>							
483.xalancbmk	768	<b>569</b>	<b>9310</b>	545	9720	587	9030							

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

## Submit Notes

The config file option 'submit' was used.

## Operating System Notes

```
ramfs file-system setup:
mkdir /ramfs
mount /dev/ram -t ramfs /ramfs -o noatime
```

## Platform Notes

BIOS Settings  
Hyper-Threading Technology set to ON. Disabled by vSMP Foundation.

ScaleMP  
vSMP Foundation: 3.5.175.15, released May. 30, 2011  
See <http://www.scalemp.com>

Hardware Details:  
System was aggregated using 64 X HP BL490c G6 blades.  
The servers were connected with Mellanox InfiniBand QDR and a QDR switch.

CPU Characteristics: Intel Turbo Boost Technology not enabled:  
As the prerequisites listed below for enablement of this technology did not exist.  
- Hardware: Enabling Turbo Boost Technology require BIOS setting.  
- Software: OS needs to be ACPI-aware and set P0 power state.



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## Base Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc

## Base Portability Flags

400.perlbench: -DSPEC\_CPU\_LINUX\_IA32  
462.libquantum: -DSPEC\_CPU\_LINUX  
483.xalancbmk: -DSPEC\_CPU\_LINUX

## Base Optimization Flags

C benchmarks:

-xSSE4.2 -ipo -O3 -no-prec-div -static -inline-calloc  
-opt-malloc-options=3 -opt-prefetch

C++ benchmarks:

-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs  
/ramfs/SPEC2006/cpu2006/libhoard.so

## Base Other Flags

C benchmarks:

403.gcc: -Dalloca=\_alloca

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.1-int-linux64-revH.20110629.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.1-int-linux64-revH.20110629.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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