



# SPEC® CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

## SGI

SGI Altix ICE 8200EX (Intel Xeon E5472, 3.00 GHz)

SPECint®2006 = 26.7

SPECint\_base2006 = 23.3

CPU2006 license: 4

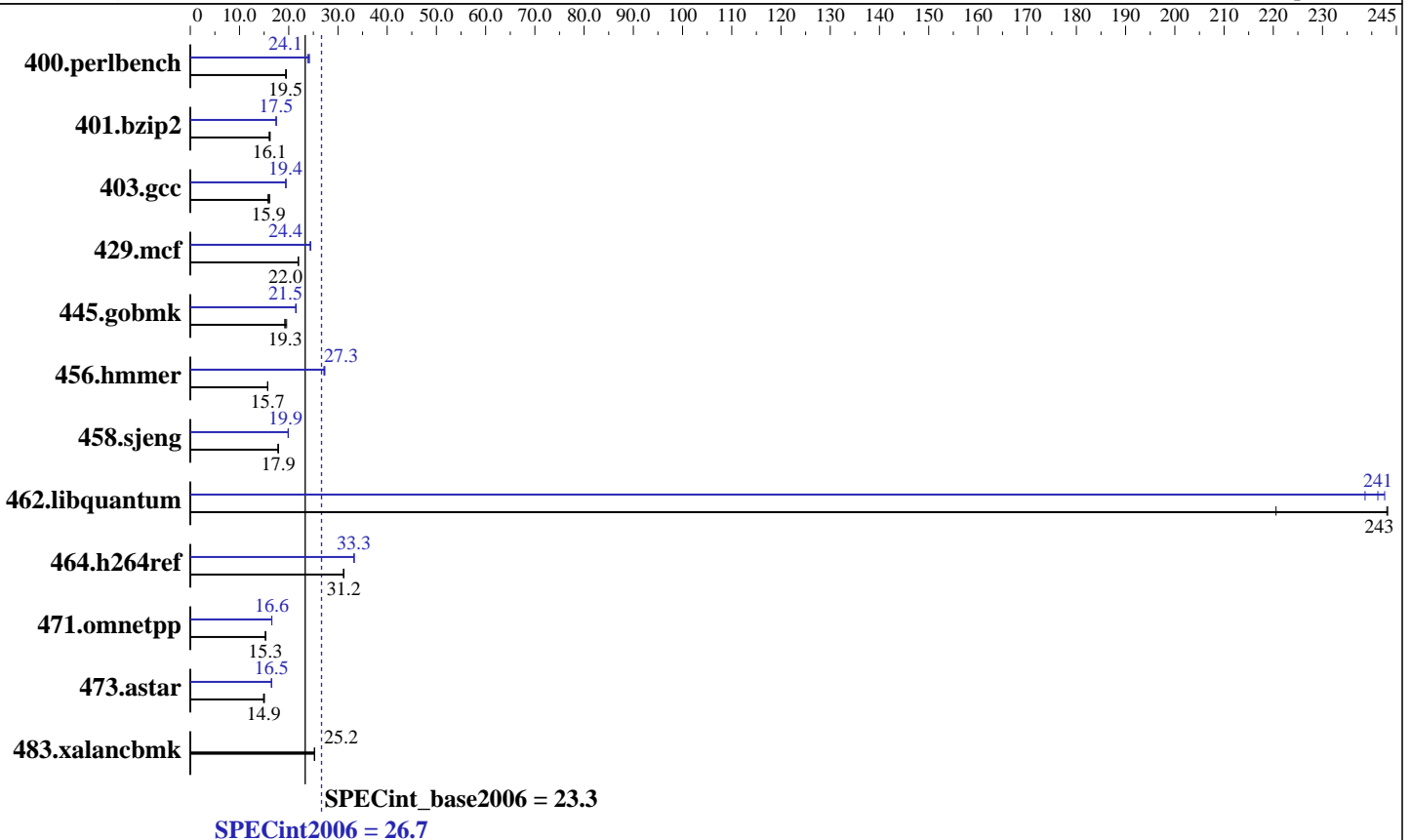
Test sponsor: SGI

Tested by: SGI

Test date: May-2008

Hardware Availability: Mar-2008

Software Availability: Apr-2008



### Hardware

CPU Name: Intel Xeon E5472  
 CPU Characteristics: Quad Core, 3.0 GHz  
 CPU MHz: 2992  
 FPU: Integrated  
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip  
 CPU(s) orderable: 1,2 chips  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 12 MB I+D on chip per chip, 6 MB shared / 2 cores  
 L3 Cache: None  
 Other Cache: None  
 Memory: 16 GB (8\*2GB PC2-6400 CL5-5-5 FB-DIMMs)  
 Disk Subsystem: 16 TB RAID 6+1  
 32 x 500 GB SATA (Seagate Barracuda 7200 rpm)  
 Other Hardware: None

### Software

Operating System: SUSE Linux Enterprise Server 10 (x86\_64) SP1  
 Kernel 2.6.16.46-0.12-smp  
 Compiler: Intel C++ and Fortran Compiler for Linux  
 Version 10.1, Build 20070913  
 Auto Parallel: Yes  
 File System: NFSv3 IPoIB  
 System State: Multi-user, run level 3  
 Base Pointers: 32-bit  
 Peak Pointers: 32/64-bit  
 Other Software: SGI ProPack 5 for Linux Service Pack 5  
 Binutils 2.17  
 SmartHeap library V8.1



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

## SGI

SGI Altix ICE 8200EX (Intel Xeon E5472, 3.00 GHz)

SPECint2006 = **26.7**

SPECint\_base2006 = **23.3**

CPU2006 license: 4  
Test sponsor: SGI  
Tested by: SGI

Test date: May-2008  
Hardware Availability: Mar-2008  
Software Availability: Apr-2008

## Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	<b>502</b>	<b>19.5</b>	500	19.5	504	19.4	<b>405</b>	<b>24.1</b>	404	24.2	410	23.8
401.bzip2	<b>598</b>	<b>16.1</b>	594	16.2	603	16.0	<b>553</b>	<b>17.5</b>	552	17.5	553	17.4
403.gcc	<b>505</b>	<b>15.9</b>	499	16.1	510	15.8	416	19.4	414	19.4	<b>414</b>	<b>19.4</b>
429.mcf	<b>415</b>	<b>22.0</b>	415	22.0	416	21.9	374	24.4	373	24.5	<b>374</b>	<b>24.4</b>
445.gobmk	546	19.2	536	19.6	<b>544</b>	<b>19.3</b>	490	21.4	487	21.5	<b>488</b>	<b>21.5</b>
456.hmmer	593	15.7	<b>593</b>	<b>15.7</b>	594	15.7	344	27.1	342	27.3	<b>342</b>	<b>27.3</b>
458.sjeng	<b>675</b>	<b>17.9</b>	675	17.9	680	17.8	<b>608</b>	<b>19.9</b>	609	19.9	607	19.9
462.libquantum	85.2	243	93.9	221	<b>85.2</b>	<b>243</b>	85.4	243	<b>85.9</b>	<b>241</b>	86.8	239
464.h264ref	711	31.1	709	31.2	<b>710</b>	<b>31.2</b>	665	33.3	<b>665</b>	<b>33.3</b>	665	33.3
471.omnetpp	409	15.3	<b>409</b>	<b>15.3</b>	409	15.3	377	16.6	<b>378</b>	<b>16.6</b>	378	16.6
473.astar	466	15.1	471	14.9	<b>470</b>	<b>14.9</b>	425	16.5	425	16.5	<b>425</b>	<b>16.5</b>
483.xalancbmk	<b>273</b>	<b>25.2</b>	273	25.2	273	25.2	<b>273</b>	<b>25.2</b>	273	25.2	273	25.2

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

## General Notes

BIOS settings:

Snoop Filter: Enabled

Hardware Prefetcher: Enabled

Adjacent Sector Prefetch: Disabled

All benchmarks compiled in 32-bit mode except 401.bzip2 and 456.hmmer, for peak, are compiled in 64-bit mode

Benchmarks compiled with automatic parallelization use the following environment settings:

OMP\_NUM\_THREADS = 8

KMP\_AFFINITY = physical,0

KMP\_STACKSIZE = 64M

## Base Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc

## Base Portability Flags

400.perlbench: -DSPEC\_CPU\_LINUX\_IA32

Continued on next page



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

## SGI

SGI Altix ICE 8200EX (Intel Xeon E5472,  
3.00 GHz)

SPECint2006 = 26.7

SPECint\_base2006 = 23.3

CPU2006 license: 4

Test sponsor: SGI

Tested by: SGI

Test date: May-2008

Hardware Availability: Mar-2008

Software Availability: Apr-2008

## Base Portability Flags (Continued)

462.libquantum: -DSPEC\_CPU\_LINUX  
483.xalancbmk: -DSPEC\_CPU\_LINUX

## Base Optimization Flags

C benchmarks:

-fast -vec-guard-write -parallel -par-runtime-control

C++ benchmarks:

-xT -ipo -O3 -no-prec-div -Wl,-z,muldefs  
-L/home/cmplr/usr3/alrahate/cpu2006.1.0/lib -lsmartheap

## Base Other Flags

C benchmarks:

403.gcc: -Dalloca=\_alloca

## Peak Compiler Invocation

C benchmarks (except as noted below):

icc

401.bzip2: /home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070824/Linux64/bin/icc  
-L/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070824/Linux64/lib  
-I/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070824/Linux64/include

456.hmmer: /home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070824/Linux64/bin/icc  
-L/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070824/Linux64/lib  
-I/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070824/Linux64/include

C++ benchmarks:

icpc

## Peak Portability Flags

400.perlbench: -DSPEC\_CPU\_LINUX\_IA32  
401.bzip2: -DSPEC\_CPU\_LP64  
456.hmmer: -DSPEC\_CPU\_LP64  
462.libquantum: -DSPEC\_CPU\_LINUX  
483.xalancbmk: -DSPEC\_CPU\_LINUX



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

## SGI

SGI Altix ICE 8200EX (Intel Xeon E5472, 3.00 GHz)

**SPECint2006 = 26.7**

**SPECint\_base2006 = 23.3**

**CPU2006 license:** 4  
**Test sponsor:** SGI  
**Tested by:** SGI

**Test date:** May-2008  
**Hardware Availability:** Mar-2008  
**Software Availability:** Apr-2008

## Peak Optimization Flags

C benchmarks:

400.perlbench: -prof-gen(pass 1) -prof-use(pass 2) -fast -ansi-alias -prefetch

401.bzip2: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch -auto-ilp32

403.gcc: -fast -inline-calloc -opt-malloc-options=3

429.mcf: -fast -prefetch

445.gobmk: -prof-gen(pass 1) -prof-use(pass 2) -xT -O2 -ipo -no-prec-div -ansi-alias

456.hmmcr: -fast -unroll2 -ansi-alias -opt-multi-version-aggressive -auto-ilp32

458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4

462.libquantum: -fast -unroll4 -Ob0 -prefetch -opt-streaming-stores always -vec-guard-write -opt-malloc-options=3 -parallel -par-runtime-control

464.h264ref: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2 -ansi-alias

C++ benchmarks:

471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo -no-prec-div -ansi-alias -opt-ra-region-strategy=block -Wl,-z,muldefs -L/home/cmplr/usr3/alrahate/cpu2006.1.0/lib -lsmartheap

473.astar: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo -no-prec-div -ansi-alias -opt-ra-region-strategy=routine -Wl,-z,muldefs -L/home/cmplr/usr3/alrahate/cpu2006.1.0/lib -lsmartheap

483.xalancbmk: basepeak = yes

## Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=\_alloca



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

## SGI

SGI Altix ICE 8200EX (Intel Xeon E5472,  
3.00 GHz)

**SPECint2006 = 26.7**

**SPECint\_base2006 = 23.3**

**CPU2006 license:** 4

**Test sponsor:** SGI

**Tested by:** SGI

**Test date:** May-2008

**Hardware Availability:** Mar-2008

**Software Availability:** Apr-2008

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

<http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.05.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.05.xml>

SPEC and SPECint are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

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

Tested with SPEC CPU2006 v1.0.  
Report generated on Tue Jul 22 17:36:05 2014 by SPEC CPU2006 PS/PDF formatter v6932.  
Originally published on 11 June 2008.