



SPEC® CINT2006 Result

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SGI

SGI Altix XE 250 (Intel Xeon X5272
3.4GHz)

SPECint_rate2006 = 87.1

SPECint_rate_base2006 = 74.7

CPU2006 license: 4

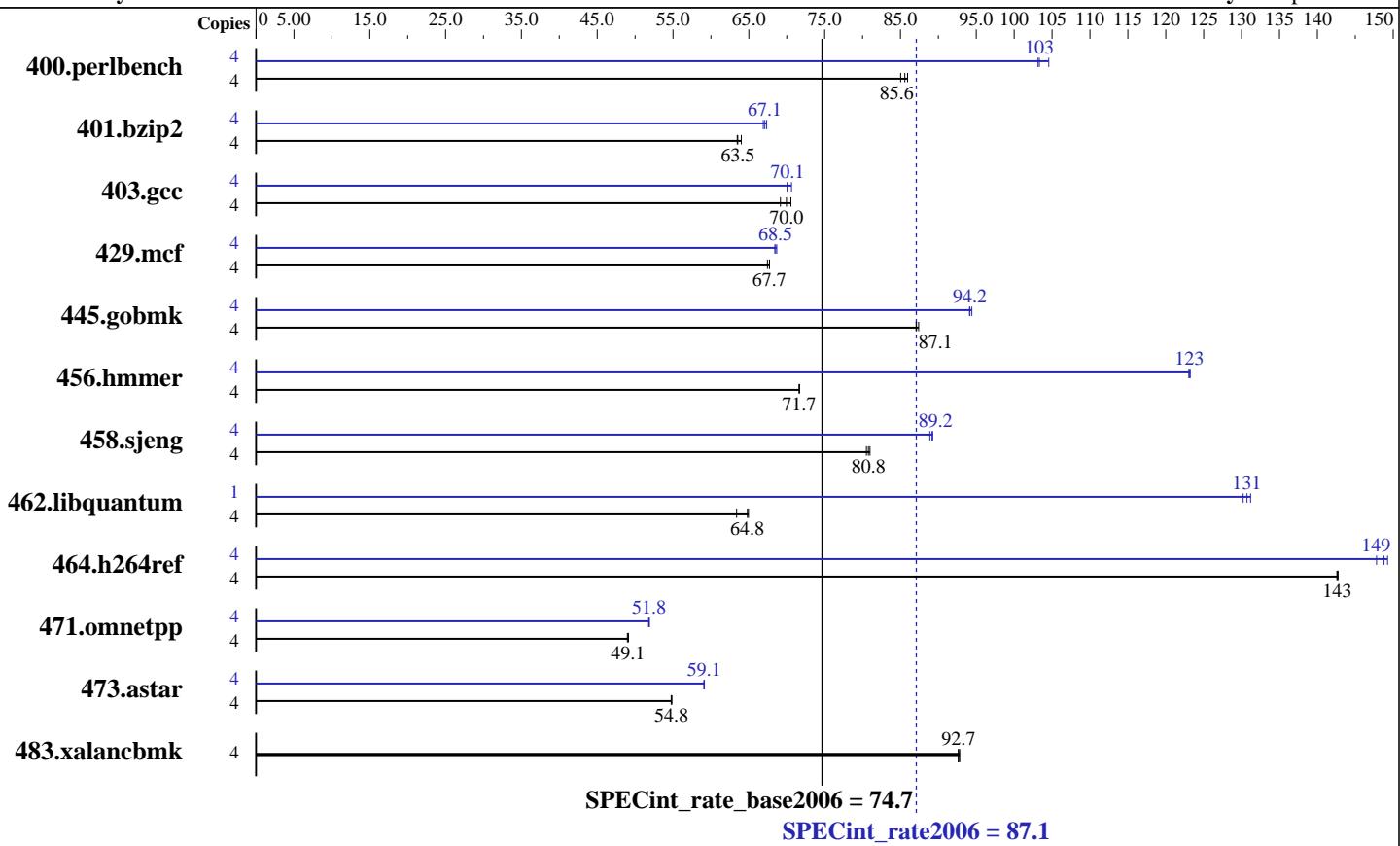
Test sponsor: SGI

Tested by: SGI

Test date: May-2008

Hardware Availability: Feb-2008

Software Availability: Apr-2008



Hardware

CPU Name:	Intel Xeon X5272
CPU Characteristics:	Dual Core, 3.4 GHz
CPU MHz:	3391
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	6 MB I+D on chip per chip
L3 Cache:	None
Other Cache:	None
Memory:	8 GB (4*2GB PC2-6400 CL5-5-5 FB-DIMMs)
Disk Subsystem:	1 x 300 GB SAS (Seagate Cheetah 15000rpm)
Other Hardware:	None

Software

Operating System:	SUSE Linux Enterprise Server 10 (x86_64) SP1
Compiler:	Kernel 2.6.16.46-0.12-smp
Auto Parallel:	Intel C++ and Fortran Compiler for Linux
File System:	Version 10.1, Build 20070913
System State:	Yes
Base Pointers:	xfs
Peak Pointers:	Multi-user, run level 3
Other Software:	32-bit
	32/64-bit
	SGI ProPack 5 for Linux Service Pack 5
	Binutils 2.17
	SmartHeap library V8.1



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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	4	457	85.6	455	85.9	460	85.0	4	378	103	379	103	374	105
401.bzip2	4	608	63.5	607	63.5	603	64.0	4	573	67.4	577	66.9	575	67.1
403.gcc	4	460	70.0	466	69.2	456	70.6	4	456	70.6	460	70.1	459	70.1
429.mcf	4	539	67.7	539	67.7	541	67.5	4	533	68.4	531	68.7	532	68.5
445.gobmk	4	482	87.1	480	87.4	482	87.1	4	444	94.4	446	94.2	446	94.1
456.hammer	4	521	71.6	521	71.7	521	71.7	4	303	123	303	123	303	123
458.sjeng	4	599	80.8	598	81.0	601	80.5	4	545	88.9	543	89.2	542	89.3
462.libquantum	4	1307	63.4	1276	65.0	1279	64.8	1	159	131	159	130	158	131
464.h264ref	4	620	143	621	143	621	143	4	595	149	593	149	599	148
471.omnetpp	4	510	49.0	509	49.1	509	49.1	4	482	51.8	483	51.8	482	51.9
473.astar	4	512	54.8	513	54.8	512	54.8	4	475	59.1	475	59.1	475	59.1
483.xalancbmk	4	297	92.8	298	92.6	298	92.7	4	297	92.8	298	92.6	298	92.7

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: Enabled

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

The taskset utility was used to bind processes to cores

Parallel settings for 462.libquantum peak:

OMP_NUM_THREADS = 4
KMP_AFFINITY = physical,0
KMP_STACKSIZE = 64M

Base Compiler Invocation

C benchmarks:

```
/opt/intel/cc/10.1.008/bin/icc -L/opt/intel/cc/10.1.008/lib
-I/opt/intel/cc/10.1.008/include
```

C++ benchmarks:

```
/opt/intel/cc/10.1.008/bin/icpc -L/opt/intel/cc/10.1.008/lib
-I/opt/intel/cc/10.1.008/include
```



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Base Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
462.libquantum: -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:

-fast -inline-calloc -opt-malloc-options=3

C++ benchmarks:

-xT -ipo -O3 -no-prec-div -Wl,-z,muldefs -lsmartheap

Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):

/opt/intel/cc/10.1.008/bin/icc -L/opt/intel/cc/10.1.008/lib
-I/opt/intel/cc/10.1.008/include

401.bzip2: /sw/sdev/intel-cc/x86_64/10.1.008/bin/icc
-L/sw/sdev/intel-cc/x86_64/10.1.008/lib
-I/sw/sdev/intel-cc/x86_64/10.1.008/include

456.hmmr: /sw/sdev/intel-cc/x86_64/10.1.008/bin/icc
-L/sw/sdev/intel-cc/x86_64/10.1.008/lib
-I/sw/sdev/intel-cc/x86_64/10.1.008/include

C++ benchmarks:

/opt/intel/cc/10.1.008/bin/icpc -L/opt/intel/cc/10.1.008/lib
-I/opt/intel/cc/10.1.008/include

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
401.bzip2: -DSPEC_CPU_LP64
456.hmmr: -DSPEC_CPU_LP64

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Peak Portability Flags (Continued)

462.libquantum: -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX

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

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.hmmr: -fast -unroll12 -ansi-alias -opt-multi-version-aggressive

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

462.libquantum: -fast -unroll14 -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 -unroll12
               -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 -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 -lsmartheap

483.xalancbmk: basepeak = yes
```

Peak Other Flags

C benchmarks:

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Peak Other Flags (Continued)

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-ic10-ia32-intel64-linux-flags.20090714.04.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.20090714.04.xml>

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For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.0.

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