



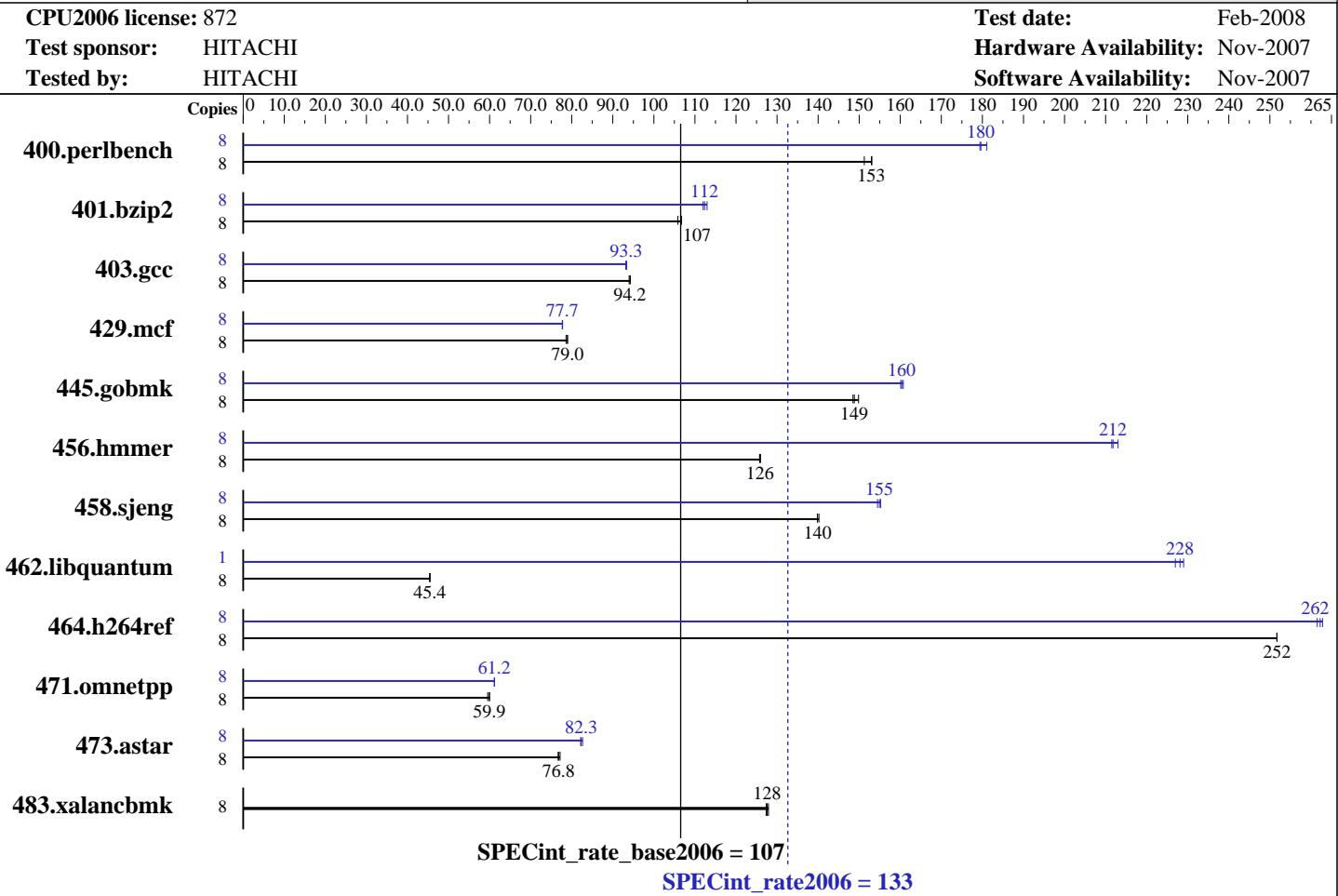
SPEC® CINT2006 Result

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HITACHI

BladeSymphony BS320 (Intel Xeon E5450)

SPECint®_rate2006 = 133



Hardware

CPU Name:	Intel Xeon E5450
CPU Characteristics:	1333MHz system bus
CPU MHz:	3000
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(4 x 4 GB PC2-5300F CAS 5-5-5)
Disk Subsystem:	1 x 147 GB 10000 rpm SAS
Other Hardware:	None

Software

Operating System:	Red Hat Enterprise Linux Server release 5.1 (Tikanga)
Compiler:	Kernel 2.6.18-53.el5 on an x86_64
Auto Parallel:	Intel C++ Compiler 10.1 for Linux
File System:	Build 20070913 Package ID: l_cc_p_10.1.008
System State:	Yes
Base Pointers:	ext3
Peak Pointers:	Multi-user run level 3
Other Software:	32-bit
	32/64-bit
	SmartHeap library V8.1



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Hardware Availability: Nov-2007

Tested by: HITACHI

Software Availability: Nov-2007

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	8	517	151	511	153	511	153	8	432	181	435	180	436	179
401.bzip2	8	724	107	729	106	724	107	8	687	112	689	112	683	113
403.gcc	8	684	94.2	685	94.0	683	94.3	8	690	93.4	691	93.2	690	93.3
429.mcf	8	924	79.0	924	79.0	928	78.6	8	939	77.7	939	77.7	938	77.8
445.gobmk	8	564	149	560	150	565	148	8	523	160	524	160	522	161
456.hammer	8	594	126	593	126	593	126	8	352	212	353	211	350	213
458.sjeng	8	692	140	692	140	690	140	8	627	154	625	155	624	155
462.libquantum	8	3647	45.4	3644	45.5	3649	45.4	1	91.3	227	90.8	228	90.5	229
464.h264ref	8	703	252	703	252	703	252	8	677	262	675	262	674	263
471.omnetpp	8	834	59.9	833	60.0	840	59.5	8	817	61.2	817	61.2	818	61.1
473.astar	8	728	77.2	732	76.7	731	76.8	8	683	82.3	680	82.6	683	82.2
483.xalancbmk	8	432	128	433	128	433	127	8	432	128	433	128	433	127

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

General Notes

'/bin/taskset' used to bind processes to CPUs
 OMP_NUM_THREADS set to number of cores
 KMP_AFFINITY set to physical,0

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

Continued on next page



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Base Optimization Flags (Continued)

C++ benchmarks:

```
-xT -ipo -O3 -no-prec-div -Wl,-z,muldefs  
-L/home/bsc/smartheap/lib -lsmartheap
```

Base Other Flags

C benchmarks:

```
403.gcc: -Dalloca=_alloca
```

Peak Compiler Invocation

C benchmarks (except as noted below):

icc

```
401.bzip2: /opt/intel/cce/10.1.008/bin/icc  
          -L/opt/intel/cce/10.1.008/lib  
          -I/opt/intel/cce/10.1.008/include
```

```
456.hmmr: /opt/intel/cce/10.1.008/bin/icc  
          -L/opt/intel/cce/10.1.008/lib  
          -I/opt/intel/cce/10.1.008/include
```

C++ benchmarks:

icpc

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32

401.bzip2: -DSPEC_CPU_LP64

456.hmmr: -DSPEC_CPU_LP64

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
```

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Peak Optimization Flags (Continued)

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

458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll14

462.libquantum: -fast -unroll14 -O0 -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 -L/home/bsc/smartheap/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/bsc/smartheap/lib -lsmartheap

483.xalancbmk: basepeak = yes

Peak 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-ic10.1-INT-ia32-linux-flags.20090713.01.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-INT-ia32-linux-flags.20090713.01.xml>



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SPECint_rate2006 = 133

SPECint_rate_base2006 = 107

CPU2006 license: 872

Test sponsor: HITACHI

Tested by: HITACHI

Test date: Feb-2008

Hardware Availability: Nov-2007

Software Availability: Nov-2007

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