



SPEC® CINT2006 Result

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FORMAT

Format P5600LX (Intel Xeon E5520, 2.26 GHz)

SPECint_rate2006 = 189

CPU2006 license: 9015

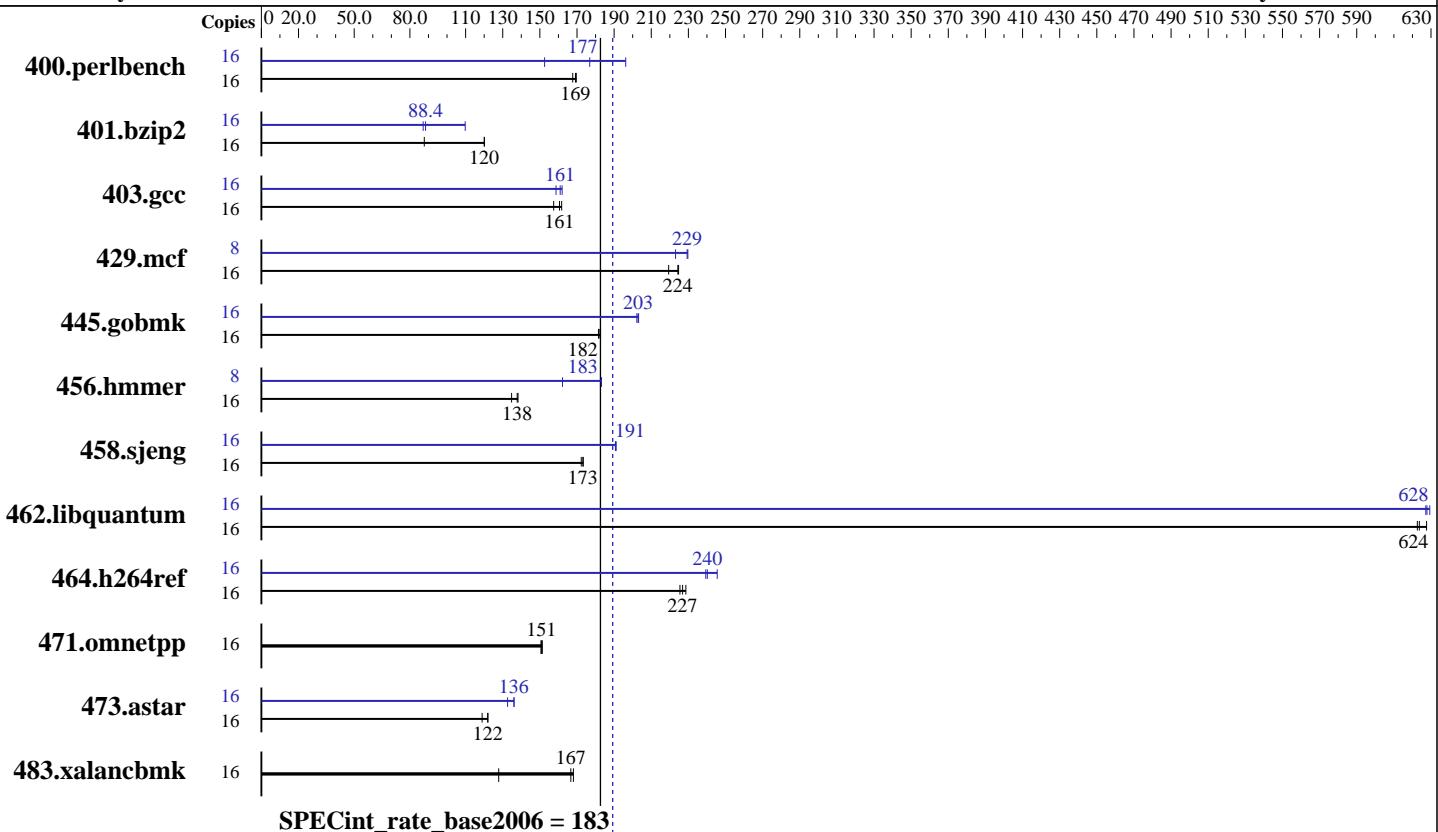
Test date: Jun-2009

Test sponsor: FORMAT

Hardware Availability: Mar-2009

Tested by: FORMAT

Software Availability: Feb-2009



Hardware

CPU Name: Intel Xeon E5520
CPU Characteristics: Intel Turbo Boost Technology up to 2.53 GHz
CPU MHz: 2267
FPU: Integrated
CPU(s) enabled: 8 cores, 2 chips, 4 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: 8 MB I+D on chip per chip
Other Cache: None
Memory: 24 GB (6 x 4 GB DDR3-1066 QR RDIMM)
Disk Subsystem: 1 x 250 GB 7200 RPM SATA
Other Hardware: None

Software

Operating System: Scientific Linux 5.3 (SLC53)
Compiler: Kernel 2.6.18-128.1.10.el5 x86_64
Auto Parallel: Intel C++ Compiler Professional 11.0 for Linux
File System: Build 20090318 Package ID: l_cproc_p_11.0.083
System State: No
Base Pointers: ext3
Peak Pointers: Run level 3 (multi-user)
Other Software: 32-bit
32/64-bit
Microquill SmartHeap V8.1 (32-bit)
Microquill SmartHeap V9.1 (64-bit)
binutils-2.17.50.0.6-9.el5



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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	16	932	168	922	170	924	169	16	1025	153	884	177	797	196
401.bzip2	16	1760	87.7	1286	120	1285	120	16	1772	87.1	1746	88.4	1406	110
403.gcc	16	818	157	796	162	802	161	16	812	159	800	161	795	162
429.mcf	16	665	219	649	225	650	224	8	327	223	318	229	318	230
445.gobmk	16	919	183	924	182	923	182	16	826	203	827	203	830	202
456.hammer	16	1108	135	1080	138	1083	138	8	460	162	408	183	407	183
458.sjeng	16	1124	172	1118	173	1117	173	16	1015	191	1015	191	1013	191
462.libquantum	16	532	623	532	624	528	628	16	529	627	527	629	528	628
464.h264ref	16	1561	227	1549	229	1571	225	16	1479	239	1442	246	1474	240
471.omnetpp	16	664	151	663	151	661	151	16	664	151	663	151	661	151
473.astar	16	945	119	921	122	920	122	16	847	133	826	136	825	136
483.xalancbmk	16	864	128	662	167	657	168	16	864	128	662	167	657	168

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.
numactl was used to bind copies to the cores

Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run

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



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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  
-L/home/azeh/spec/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/Compiler/11.0/083/bin/intel64/icc
```

```
456.hmmr: /opt/intel/Compiler/11.0/083/bin/intel64/icc
```

```
458.sjeng: /opt/intel/Compiler/11.0/083/bin/intel64/icc
```

C++ benchmarks (except as noted below):

```
icpc
```

```
473.astar: /opt/intel/Compiler/11.0/083/bin/intel64/icpc
```

Peak Portability Flags

```
400.perlbench: -DSPEC_CPU_LINUX_IA32
```

```
401.bzip2: -DSPEC_CPU_LP64
```

```
456.hmmr: -DSPEC_CPU_LP64
```

```
458.sjeng: -DSPEC_CPU_LP64
```

```
462.libquantum: -DSPEC_CPU_LINUX
```

```
473.astar: -DSPEC_CPU_LP64
```

```
483.xalancbmk: -DSPEC_CPU_LINUX
```



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Peak Optimization Flags

C benchmarks:

400.perlbench: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-O3(pass 2) -no-prec-div(pass 2) -static(pass 2)
-prof-use(pass 2) -ansi-alias -opt-prefetch

401.bzip2: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-O3(pass 2) -no-prec-div(pass 2) -static(pass 2)
-prof-use(pass 2) -opt-prefetch -ansi-alias -auto-ilp32

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

429.mcf: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-O3(pass 2) -no-prec-div(pass 2) -static(pass 2)
-prof-use(pass 2) -opt-prefetch

445.gobmk: -xSSE4.2(pass 2) -prof-gen(pass 1) -prof-use(pass 2) -O2
-ipo -no-prec-div -ansi-alias

456.hmmr: -xSSE4.2 -ipo -O3 -no-prec-div -static -unroll2
-ansi-alias -auto-ilp32

458.sjeng: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-O3(pass 2) -no-prec-div(pass 2) -static(pass 2)
-prof-use(pass 2) -unroll4 -auto-ilp32

462.libquantum: -xSSE4.2 -ipo -O3 -no-prec-div -static
-opt-malloc-options=3 -opt-prefetch

464.h264ref: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-O3(pass 2) -no-prec-div(pass 2) -static(pass 2)
-prof-use(pass 2) -unroll2 -ansi-alias

C++ benchmarks:

471.omnetpp: basepeak = yes

473.astar: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)
-ansi-alias -opt-ra-region-strategy=routine -auto-ilp32
-Wl,-z,muldefs -L/home/azeh/spec/lib -lsmartheap64

483.xalancbmk: basepeak = yes



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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-ic11.0-int-linux64-revF.20090710.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-int-linux64-revF.20090710.xml>

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

Tested with SPEC CPU2006 v1.1.

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