SPEC® CINT2006 Result

Dell Inc.

SPECint®_rate2006 = 254

PowerEdge T710 (Intel Xeon X5570, 2.93 GHz)

SPECint_rate_base2006 = 236

CPU2006 license: 55

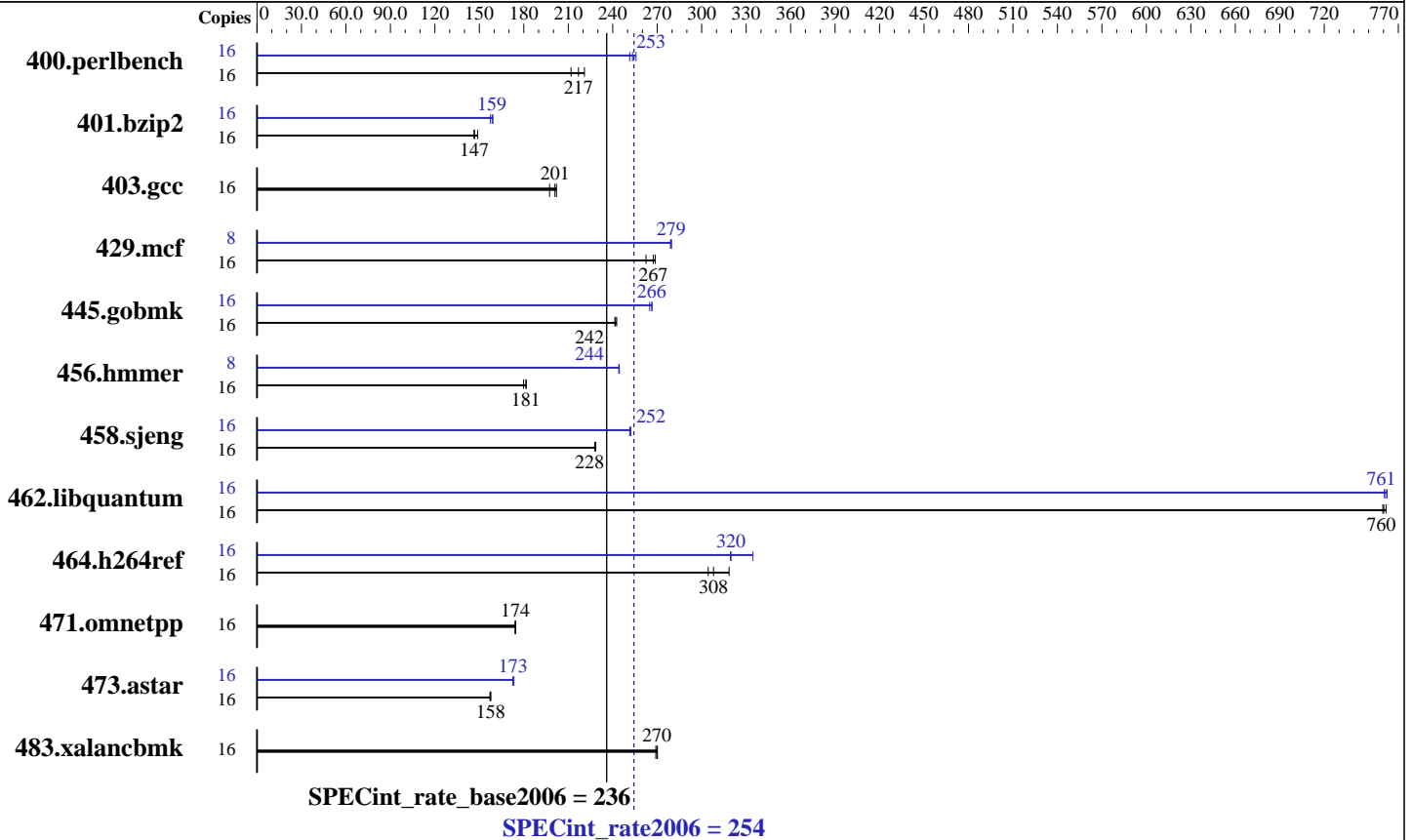**Test sponsor:** Dell Inc.

Tested by: Dell Inc.

Test date: Apr-2009

Hardware Availability: Jun-2009

Software Availability: Feb-2009

Copies

Benchmark	Copies	Base	Peak
400.perlbench	16 / 16	217	253
401.bzip2	16 / 16	147	159
403.gcc	16	201	
429.mcf	8 / 16	267	279
445.gobmk	16 / 16	242	266
456.hmmer	8 / 16	181	244
458.sjeng	16 / 16	228	252
462.libquantum	16 / 16	760	761
464.h264ref	16 / 16	308	320
471.omnetpp	16	174	
473.astar	16 / 16	158	173
483.xalancbmk	16	270	

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Hardware

CPU Name: Intel Xeon X5570

CPU Characteristics: Intel Turbo Boost Technology up to 3.33 GHz

CPU MHz: 2933

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 DDR3-1333 DR RDIMM)

Disk Subsystem: 1 x 73 GB 15000 RPM SAS

Other Hardware: None

Software

Operating System: SUSE Linux Enterprise Server 10 (x86_64) SP2, Kernel 2.6.16.60-0.21-smp

Compiler: Intel C++ Compiler Professional 11.0 for Linux Build 20090131 Package ID: l_cproc_p_11.0.080

Auto Parallel: No

File System: ReiserFS

System State: Run level 3 (multi-user)

Base Pointers: 32-bit

Peak Pointers: 32/64-bit

Other Software: Microquill SmartHeap V8.1 Binutils 2.18.50.0.7.20080502

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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	738	212	708	221	**721**	**217**	16	611	256	**617**	**253**	622	251
401.bzip2	16	1055	146	**1052**	**147**	1037	149	16	981	157	**973**	**159**	970	159
403.gcc	16	653	197	638	202	**641**	**201**	16	653	197	638	202	**641**	**201**
429.mcf	16	556	262	**546**	**267**	543	269	8	262	279	**261**	**279**	261	280
445.gobmk	16	695	241	692	243	**694**	**242**	16	634	265	630	267	**630**	**266**
456.hmmer	16	822	182	830	180	**823**	**181**	8	**306**	**244**	306	244	305	244
458.sjeng	16	847	229	**848**	**228**	850	228	16	768	252	770	251	**768**	**252**
462.libquantum	16	436	760	**436**	**760**	435	762	16	436	761	**435**	**761**	435	762
464.h264ref	16	1112	318	**1150**	**308**	1163	304	16	1109	319	1058	335	**1107**	**320**
471.omnetpp	16	574	174	**574**	**174**	573	175	16	574	174	**574**	**174**	573	175
473.astar	16	**713**	**158**	712	158	715	157	16	648	173	**650**	**173**	651	173
483.xalancbmk	16	410	269	409	270	**409**	**270**	16	410	269	409	270	**409**	**270**

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/spec/cpu2006.1.1/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/11.0/080/bin/intel64/icc`

> 456.hmmer: `/opt/intel/Compiler/11.0/080/bin/intel64/icc`

> 458.sjeng: `/opt/intel/Compiler/11.0/080/bin/intel64/icc`

C++ benchmarks (except as noted below):
   `icpc`

> 473.astar: `/opt/intel/Compiler/11.0/080/bin/intel64/icpc`

Peak Portability Flags

400.perlbench: `-DSPEC_CPU_LINUX_IA32`
401.bzip2: `-DSPEC_CPU_LP64`
456.hmmer: `-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: `basepeak = yes`

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.hmmer: `-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/spec/cpu2006.1.1/lib -lsmartheap64`

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-ic11.0-int-linux64-revA.20090805.01.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-revA.20090805.01.xml`

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.1.
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