SPEC® CINT2006 Result

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Fujitsu Siemens Computers

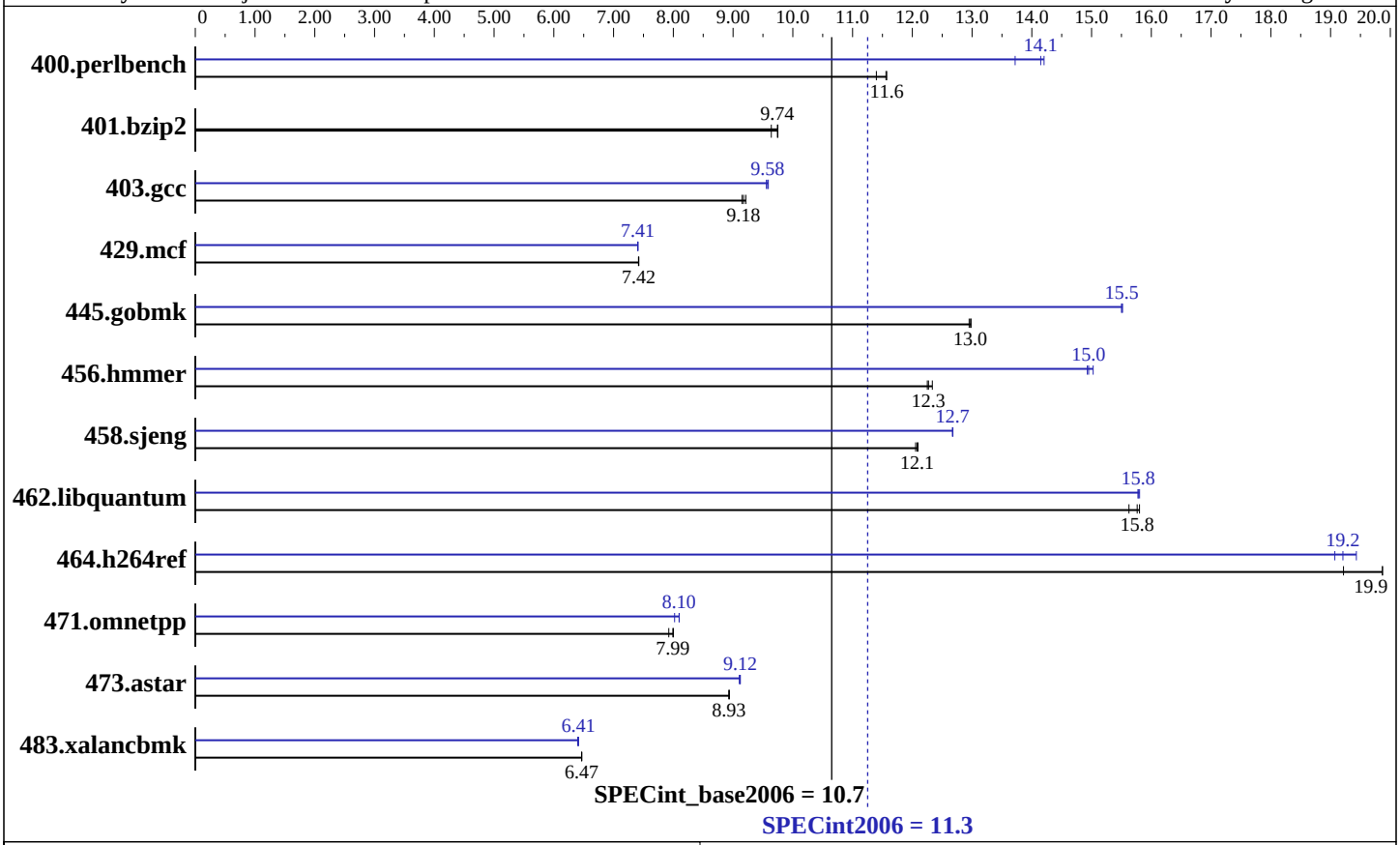
CELSIUS V840, AMD Opteron 2218

SPECint®2006 = 11.3

SPECint_base2006 = 10.7

CPU2006 license: 22
Test sponsor: Fujitsu Siemens Computers
Tested by: Fujitsu Siemens Computers

Test date: Jan-2007
Hardware Availability: Nov-2006
Software Availability: Aug-2006



Hardware

CPU Name:	AMD Opteron 2218
CPU Characteristics:	Dual Core, 2.6 GHz, 2 MB L2-cache
CPU MHz:	2600
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	64 KB I + 64 KB D on chip per core
Secondary Cache:	1 MB I+D on chip per core
L3 Cache:	None
Other Cache:	None
Memory:	16 GB (8x2GB DDR2-667 CL5 dual rank ECC DIMMs registered)
Disk Subsystem:	SATA II, 80 GB
Other Hardware:	None

Software

Operating System:	SLES 10 for AMD64/EM64T
Compiler:	QLogic Pathscale Compiler Suite 2.5
Auto Parallel:	Yes
File System:	ext3
System State:	Multi-User SuSE Run Level 3
Base Pointers:	64-bit
Peak Pointers:	64-bit
Other Software:	--

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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	**845**	**11.6**	844	11.6	857	11.4	712	13.7	688	14.2	**690**	**14.1**
401.bzip2	1001	9.64	**991**	**9.74**	990	9.75	1001	9.64	**991**	**9.74**	990	9.75
403.gcc	**877**	**9.18**	880	9.15	874	9.21	839	9.59	**841**	**9.58**	842	9.56
429.mcf	1229	7.42	**1229**	**7.42**	1230	7.42	**1231**	**7.41**	1231	7.41	1232	7.40
445.gobmk	**809**	**13.0**	810	13.0	808	13.0	676	15.5	677	15.5	**677**	**15.5**
456.hmmer	756	12.3	**760**	**12.3**	762	12.3	625	14.9	621	15.0	**624**	**15.0**
458.sjeng	1004	12.1	**1002**	**12.1**	1000	12.1	**955**	**12.7**	954	12.7	955	12.7
462.libquantum	1311	15.8	**1314**	**15.8**	1326	15.6	1311	15.8	**1313**	**15.8**	1313	15.8
464.h264ref	1114	19.9	**1114**	**19.9**	1152	19.2	1139	19.4	1160	19.1	**1152**	**19.2**
471.omnetpp	**782**	**7.99**	789	7.92	781	8.00	**772**	**8.10**	772	8.10	779	8.02
473.astar	785	8.94	**786**	**8.93**	786	8.93	770	9.12	771	9.10	**770**	**9.12**
483.xalancbmk	**1067**	**6.47**	1067	6.47	1067	6.47	1076	6.41	**1076**	**6.41**	1078	6.40

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

Operating System Notes

```
powersave -f is applied to set CPU to maximum frequency prior to run
stacksize is set to unlimited prior to run
```

General Notes

```
Binaries are generated on an Opteron-based system
         running Suse 9.3.

BIOS default settings with
Node memory interleave disabled, SRAT enabled

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http://www.fujitsu-siemens.com/countries
```

Base Compiler Invocation

C benchmarks:
`pathcc`

C++ benchmarks:
`pathCC`

Base Portability Flags

400.perlbench: `-DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64`
401.bzip2: `-DSPEC_CPU_LP64`
403.gcc: `-DSPEC_CPU_LP64`
429.mcf: `-DSPEC_CPU_LP64`
445.gobmk: `-DSPEC_CPU_LP64`
456.hmmer: `-DSPEC_CPU_LP64`
458.sjeng: `-DSPEC_CPU_LP64`
462.libquantum: `-DSPEC_CPU_LP64 -DSPEC_CPU_LINUX`
464.h264ref: `-DSPEC_CPU_LP64`
471.omnetpp: `-DSPEC_CPU_LP64`
473.astar: `-DSPEC_CPU_LP64`
483.xalancbmk: `-DSPEC_CPU_LP64 -DSPEC_CPU_LINUX`

Base Optimization Flags

C benchmarks:
`-Ofast`

C++ benchmarks:
`-Ofast`

Peak Compiler Invocation

C benchmarks:
`pathcc`

C++ benchmarks:
`pathCC`

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

400.perlbench: `-fb_create fbdata`(pass 1) `-fb_opt fbdata`(pass 2) `-Ofast -IPA:plimit=525 -IPA:pu_reorder=1`

401.bzip2: `basepeak = yes`

Continued on next page

Peak Optimization Flags (Continued)

403.gcc: `-Ofast -apo`

429.mcf: `Same as 403.gcc`

445.gobmk: `-fb_create fbdata`(pass 1) `-fb_opt fbdata`(pass 2) `-O3 -OPT:alias=disjoint -LNO:simd=0 -LNO:minvariant=off`

456.hmmer: `-O2 -OPT:alias=disjoint -WOPT:aggstr=0 -CG:cflow=0 -apo`

458.sjeng: `-fb_create fbdata`(pass 1) `-fb_opt fbdata`(pass 2) `-O3 -IPA:callee_limit=5000 -IPA:linear=on`

462.libquantum: `-O3 -ipa -CG:local_fwd_sched=on -IPA:space=1000`

464.h264ref: `-fb_create fbdata`(pass 1) `-fb_opt fbdata`(pass 2) `-O3 -IPA:plimit=20000 -OPT:alias=disjoint -LNO:prefetch=0 -apo`

C++ benchmarks:

471.omnetpp: `-Ofast -IPA:pu_reorder=2 -CG:gcm=off`

473.astar: `-fb_create fbdata`(pass 1) `-fb_opt fbdata`(pass 2) `-Ofast`

483.xalancbmk: `-Ofast -apo`

The flags file that was used to format this result can be browsed at
`http://www.spec.org/cpu2006/flags/CPU2006_flags.20090715.14.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/CPU2006_flags.20090715.14.xml`

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