SPEC® CINT2006 Result
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Fujitsu

CELSIUS R570, Intel Xeon E5540

SPECint®_rate2006 = 215

SPECint_rate_base2006 = 200

Benchmark results (Copies):

Benchmark	Copies	Peak	Base
400.perlbench	16	216	185
401.bzip2	16	137	129
403.gcc	16	169	171
429.mcf	8 / 16	221	216
445.gobmk	16	225	205
456.hmmer	8 / 16	202	154
458.sjeng	16	212	192
462.libquantum	16	635	636
464.h264ref	16	281	268
471.omnetpp	16		153
473.astar	16	145	132
483.xalancbmk	16		230

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Hardware

CPU Name: Intel Xeon E5540

CPU Characteristics: Intel Turbo Boost Technology up to 2.8 GHz

CPU MHz: 2533

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 (6x4 GB PC3-10600R, 2 rank, ECC, running at 1066 MHz)

Disk Subsystem: 1 x SATA II, 400 GB, 7200 rpm

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 11.0 Professional for Linux Build 20090131 Package ID: l_cproc_p_11.0.080

Auto Parallel: No

File System: ext3

System State: Multi-User Run Level 3

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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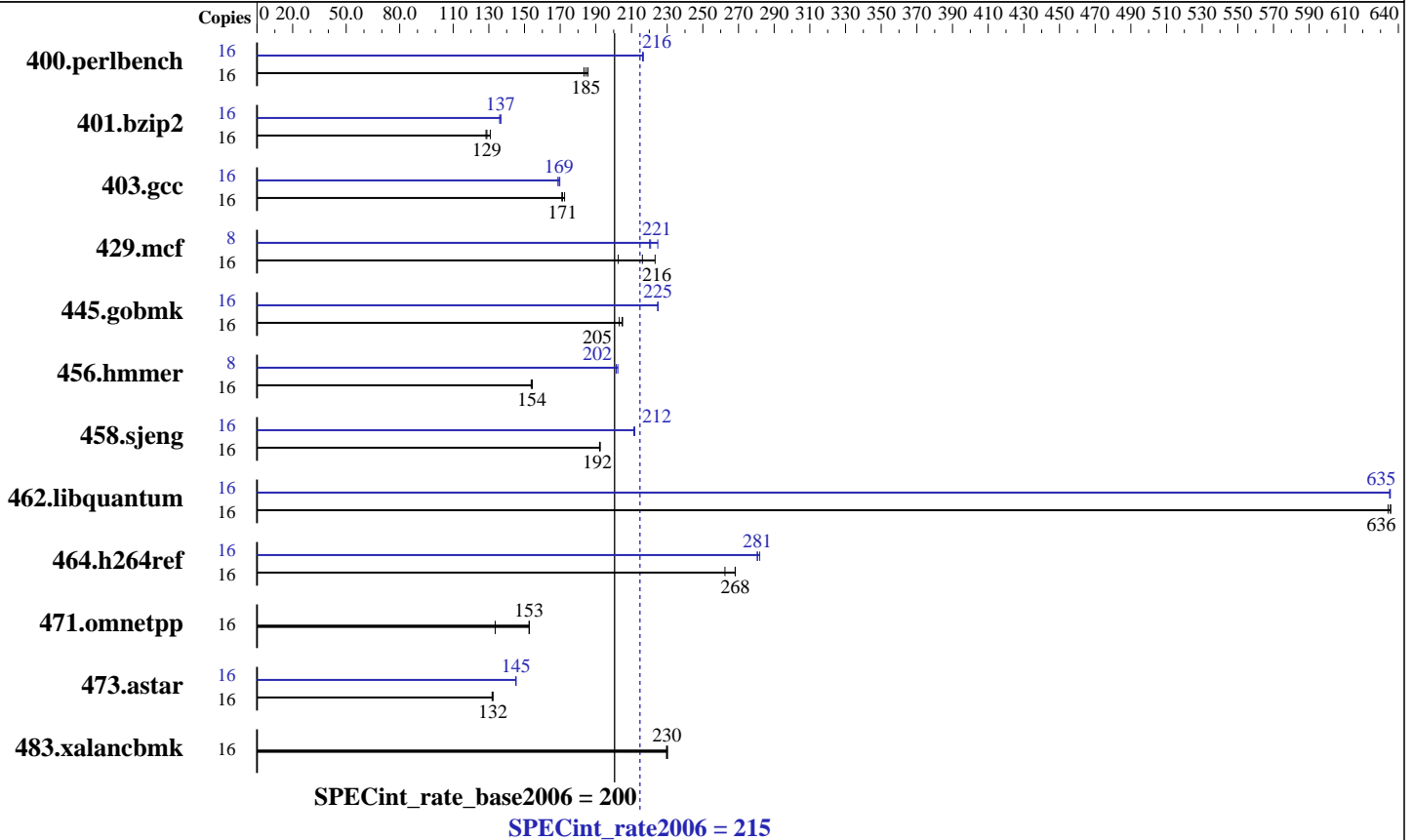SPECint_rate_base2006 = 200

CPU2006 license: 19
Test sponsor: Fujitsu
Tested by: Fujitsu

Test date: Apr-2009
Hardware Availability: Apr-2009
Software Availability: Feb-2009

Results Table

Benchmark	Base						Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	16	852	183	**847**	**185**	842	186	16	**723**	**216**	723	216	722	217
401.bzip2	16	1202	128	1180	131	**1198**	**129**	16	**1130**	**137**	1135	136	1129	137
403.gcc	16	747	172	753	171	**752**	**171**	16	763	169	**760**	**169**	759	170
429.mcf	16	720	203	**675**	**216**	654	223	8	331	220	**331**	**221**	325	225
445.gobmk	16	819	205	**820**	**205**	826	203	16	747	225	747	225	**747**	**225**
456.hmmer	16	967	154	971	154	**968**	**154**	8	371	201	**370**	**202**	369	202
458.sjeng	16	1006	192	**1007**	**192**	1008	192	16	914	212	**915**	**212**	916	211
462.libquantum	16	523	634	**522**	**636**	522	636	16	**522**	**635**	522	635	522	636
464.h264ref	16	**1321**	**268**	1320	268	1349	262	16	**1262**	**281**	1256	282	1262	280
471.omnetpp	16	749	134	**656**	**153**	655	153	16	749	134	**656**	**153**	655	153
473.astar	16	852	132	**849**	**132**	849	132	16	774	145	**774**	**145**	773	145
483.xalancbmk	16	481	230	**480**	**230**	480	230	16	481	230	**480**	**230**	480	230

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

Operating System Notes

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

General Notes

For information about Fujitsu please visit:
http://www.fujitsu.com

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: `-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.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`

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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-revA.20090710.06.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.20090710.06.xml`

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