SPEC® CINT2006 Result
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Fujitsu Siemens Computers

CELSIUS V840, AMD Opteron 2218

SPECint®2006 =   11.3

SPECint_base2006 =   10.7

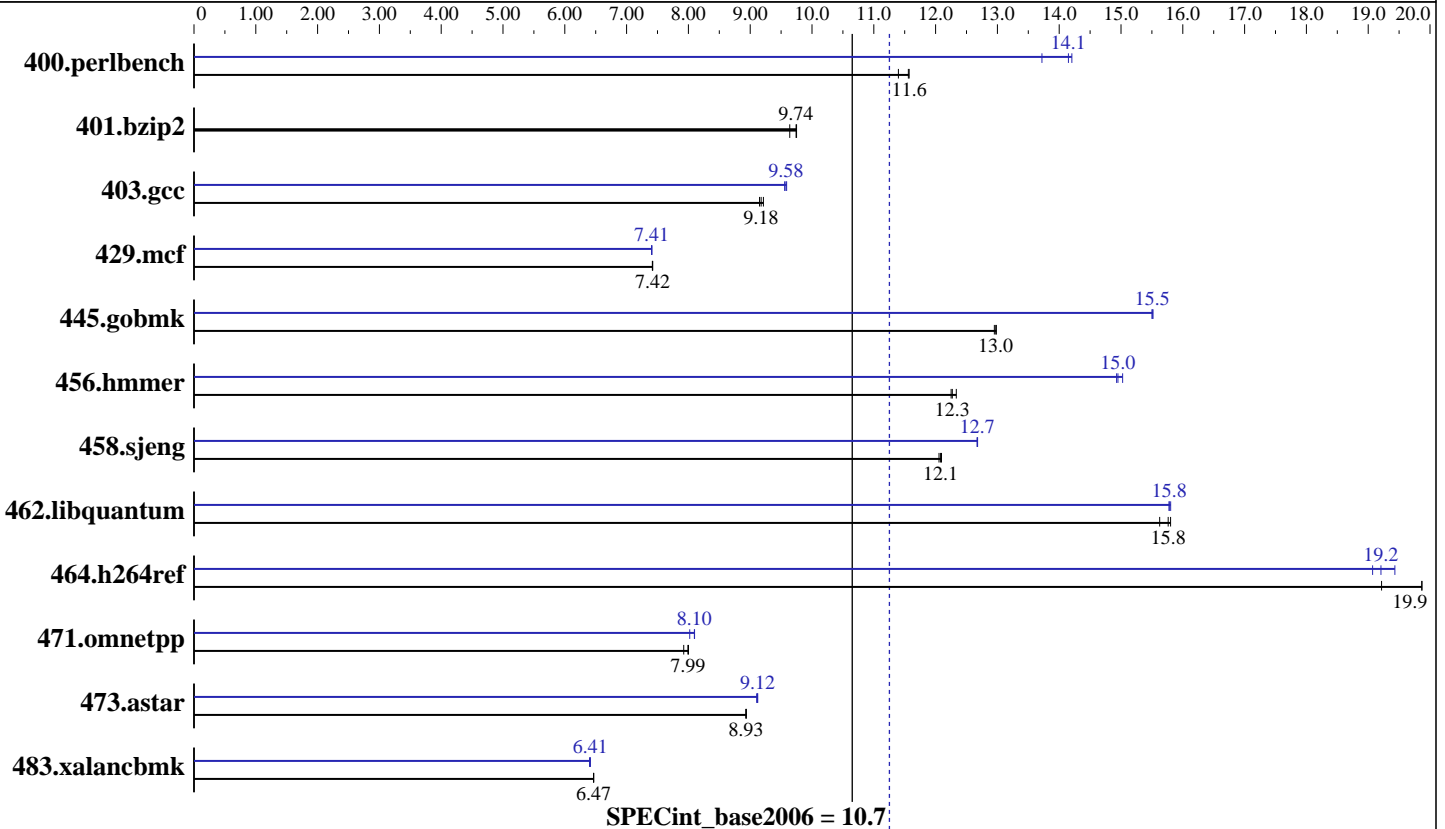**CPU2006 license:** 22
Test sponsor: Fujitsu Siemens Computers
Tested by: Fujitsu Siemens Computers

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

Benchmark		
400.perlbench	14.1	11.6
401.bzip2	9.74	
403.gcc	9.58	9.18
429.mcf	7.41	7.42
445.gobmk	15.5	13.0
456.hmmer	15.0	12.3
458.sjeng	12.7	12.1
462.libquantum	15.8	15.8
464.h264ref	19.2	19.9
471.omnetpp	8.10	7.99
473.astar	9.12	8.93
483.xalancbmk	6.41	6.47

SPECint_base2006 = 10.7

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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
```

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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
```

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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

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

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 10:22:34 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 20 February 2007.