SPEC® CINT2006 Result
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Fujitsu Siemens Computers

CELSIUS V830, Opteron 256, Linux 64-bit

SPECint®2006 =   13.3

SPECint_base2006 =   11.9
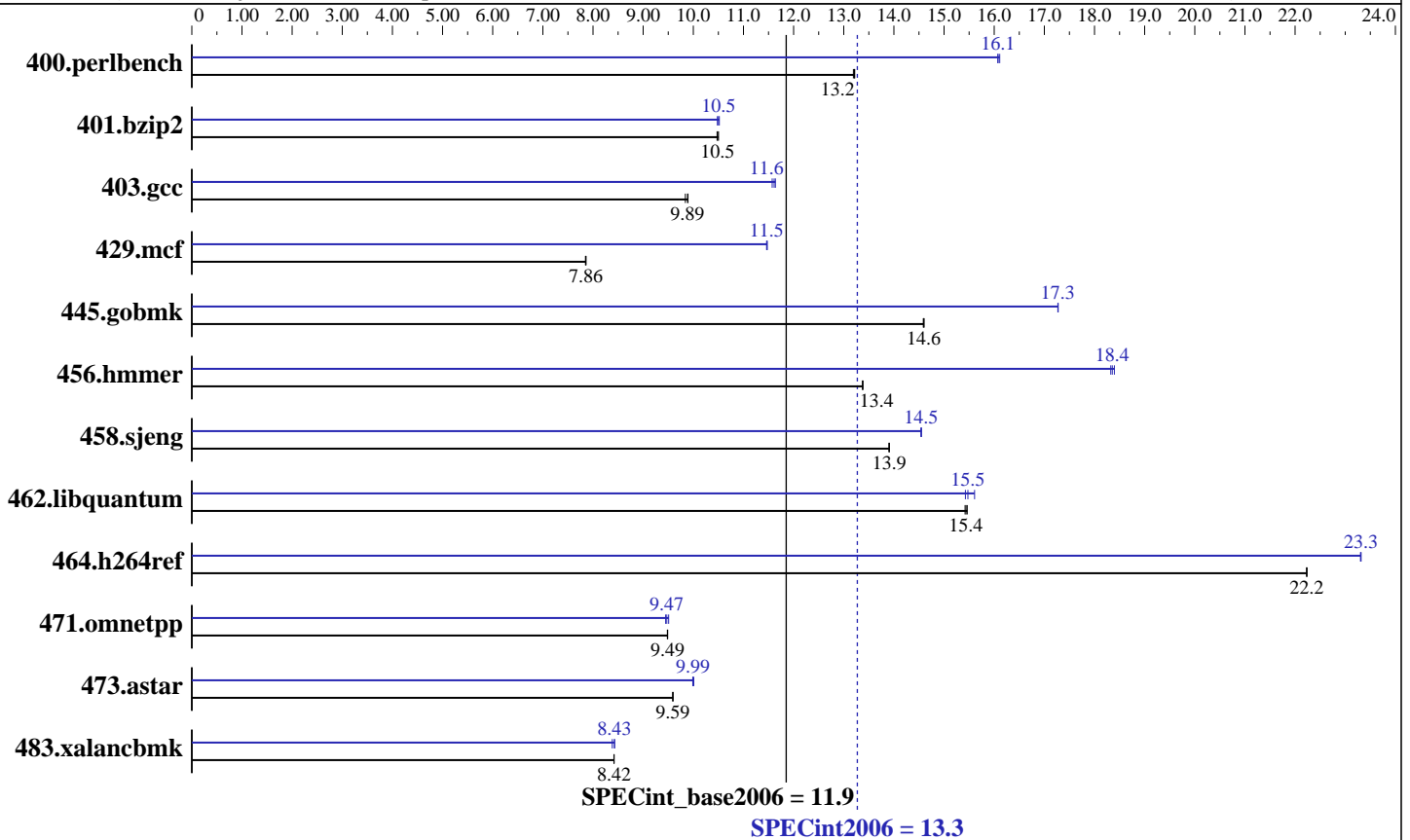
CPU2006 license: 22
Test sponsor: Fujitsu Siemens Computers
Tested by: Fujitsu Siemens Computers

Test date: Apr-2006
Hardware Availability: Sep-2005
Software Availability: Mar-2006

400.perlbench   16.1 / 13.2
401.bzip2   10.5 / 10.5
403.gcc   11.6 / 9.89
429.mcf   11.5 / 7.86
445.gobmk   17.3 / 14.6
456.hmmer   18.4 / 13.4
458.sjeng   14.5 / 13.9
462.libquantum   15.5 / 15.4
464.h264ref   23.3 / 22.2
471.omnetpp   9.47 / 9.49
473.astar   9.99 / 9.59
483.xalancbmk   8.43 / 8.42

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Hardware

CPU Name:	AMD Opteron 256
CPU Characteristics:	Opteron 256
CPU MHz:	3000
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	64 KB I + 64 KB D on chip per chip
Secondary Cache:	1 MB I+D on chip per chip
L3 Cache:	None
Other Cache:	None
Memory:	2 GB (4 x 512 MB PC3200 CL3-3-3 DDR SDRAM)
Disk Subsystem:	SCSI U320
Other Hardware:	None

Software

Operating System:	SuSE Linux Enterprise Server 9 (x86_64) + SP3
Compiler:	QLogic Pathscale Compiler Suite 2.4
Auto Parallel:	No
File System:	ReiserFS
System State:	Multi-User SuSE Run Level 3
Base Pointers:	32/64-bit
Peak Pointers:	32/64-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	741	13.2	739	13.2	**739**	**13.2**	608	16.1	606	16.1	**608**	**16.1**
401.bzip2	919	10.5	921	10.5	**920**	**10.5**	921	10.5	917	10.5	**919**	**10.5**
403.gcc	**814**	**9.89**	818	9.84	814	9.89	692	11.6	**693**	**11.6**	696	11.6
429.mcf	1162	7.85	1160	7.86	**1161**	**7.86**	795	11.5	**795**	**11.5**	796	11.5
445.gobmk	719	14.6	718	14.6	**719**	**14.6**	607	17.3	**607**	**17.3**	607	17.3
456.hmmer	**697**	**13.4**	697	13.4	698	13.4	**508**	**18.4**	507	18.4	509	18.3
458.sjeng	**870**	**13.9**	870	13.9	870	13.9	**832**	**14.5**	832	14.5	832	14.5
462.libquantum	1340	15.5	1344	15.4	**1342**	**15.4**	1343	15.4	1327	15.6	**1339**	**15.5**
464.h264ref	995	22.2	**995**	**22.2**	995	22.2	949	23.3	**949**	**23.3**	950	23.3
471.omnetpp	659	9.49	659	9.48	**659**	**9.49**	657	9.51	**660**	**9.47**	662	9.45
473.astar	**732**	**9.59**	732	9.60	732	9.59	701	10.0	**703**	**9.99**	703	9.99
483.xalancbmk	**820**	**8.42**	820	8.42	819	8.42	818	8.43	823	8.38	**819**	**8.43**

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

General Notes

```
BIOS default settings with
Node memory interleave disabled, SRAT enabled

For information about Fujitsu Siemens Computers in your country please see:
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
```

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Base Portability Flags (Continued)

```
      456.hmmer: -DSPEC_CPU_LP64
      458.sjeng: -DSPEC_CPU_LP64
  462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
     464.h264ref: -DSPEC_CPU_LP64
   483.xalancbmk: -DSPEC_CPU_LINUX
```

Base Optimization Flags

C benchmarks:
```
     -Ofast
```

C++ benchmarks:
```
     -Ofast -m32
```

Peak Compiler Invocation

C benchmarks:
```
     pathcc
```

C++ benchmarks:
```
     pathCC
```

Peak Portability Flags

```
   400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
       401.bzip2: -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
   483.xalancbmk: -DSPEC_CPU_LINUX
```

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
```

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Peak Optimization Flags (Continued)

```
      401.bzip2: -O3 -LNO:ou_prod_max=10

       403.gcc: -m32 -O3 -OPT:Ofast

       429.mcf: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -m32 -O2
                -ipa

     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

      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
```

C++ benchmarks:

```
     471.omnetpp: -Ofast -IPA:pu_reorder=2 -CG:gcm=off -m32

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

   483.xalancbmk: -Ofast -m32
```

The flags file that was used to format this result can be browsed at
`http://www.spec.org/cpu2006/flags/CPU2006_flags.20090715.03.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/CPU2006_flags.20090715.03.xml`

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

Tested with SPEC CPU2006 v91.
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