SPEC® CINT2006 Result
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Fujitsu

CELSIUS W410, Intel Core i7-2600

$SPECint^{®}\_rate2006 =$ 164

$SPECint\_rate\_base2006 =$ 158

CPU2006 license: 19	**Test date:** Jun-2011
Test sponsor: Fujitsu	**Hardware Availability:** Mar-2011
Tested by: Fujitsu	**Software Availability:** Jan-2011

Copies — axis: 0 30.0 60.0 90.0 120 150 180 210 240 270 300 330 360 390 420 450 480 510 540 570 600 630 660 690 720 750 780 830

Benchmark	Copies	Peak	Base
400.perlbench	8	159	134
401.bzip2	8	96.9	91.2
403.gcc	8	133	134
429.mcf	4 / 8	176	152
445.gobmk	8	138	136
456.hmmer	4 / 8	205	203
458.sjeng	8	135	130
462.libquantum	8		826
464.h264ref	8	234	232
471.omnetpp	8	96.0	93.1
473.astar	8	94.2	
483.xalancbmk	8	157	

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Hardware

CPU Name:	Intel Core i7-2600
CPU Characteristics:	Intel Turbo Boost Technology up to 3.8 GHz
CPU MHz:	3400
FPU:	Integrated
CPU(s) enabled:	4 cores, 1 chip, 4 cores/chip, 2 threads/core
CPU(s) orderable:	1 chip
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:	8 GB (2 x 4 GB 2Rx8 PC3-10600U-9)
Disk Subsystem:	1 x SATA II, 400 GB, 7200 rpm
Other Hardware:	None

Software

Operating System:	SUSE Linux Enterprise Server 11 (x86_64) SP1, kernel 2.6.32.12-0.6-default
Compiler:	Intel C++ Compiler XE for applications running on Intel 64 Version 12.0.2.137 Build 20110112
Auto Parallel:	No
File System:	ext3
System State:	Run Level 3 (multi-user)
Base Pointers:	32-bit
Peak Pointers:	32/64-bit
Other Software:	Microquill SmartHeap V9.01

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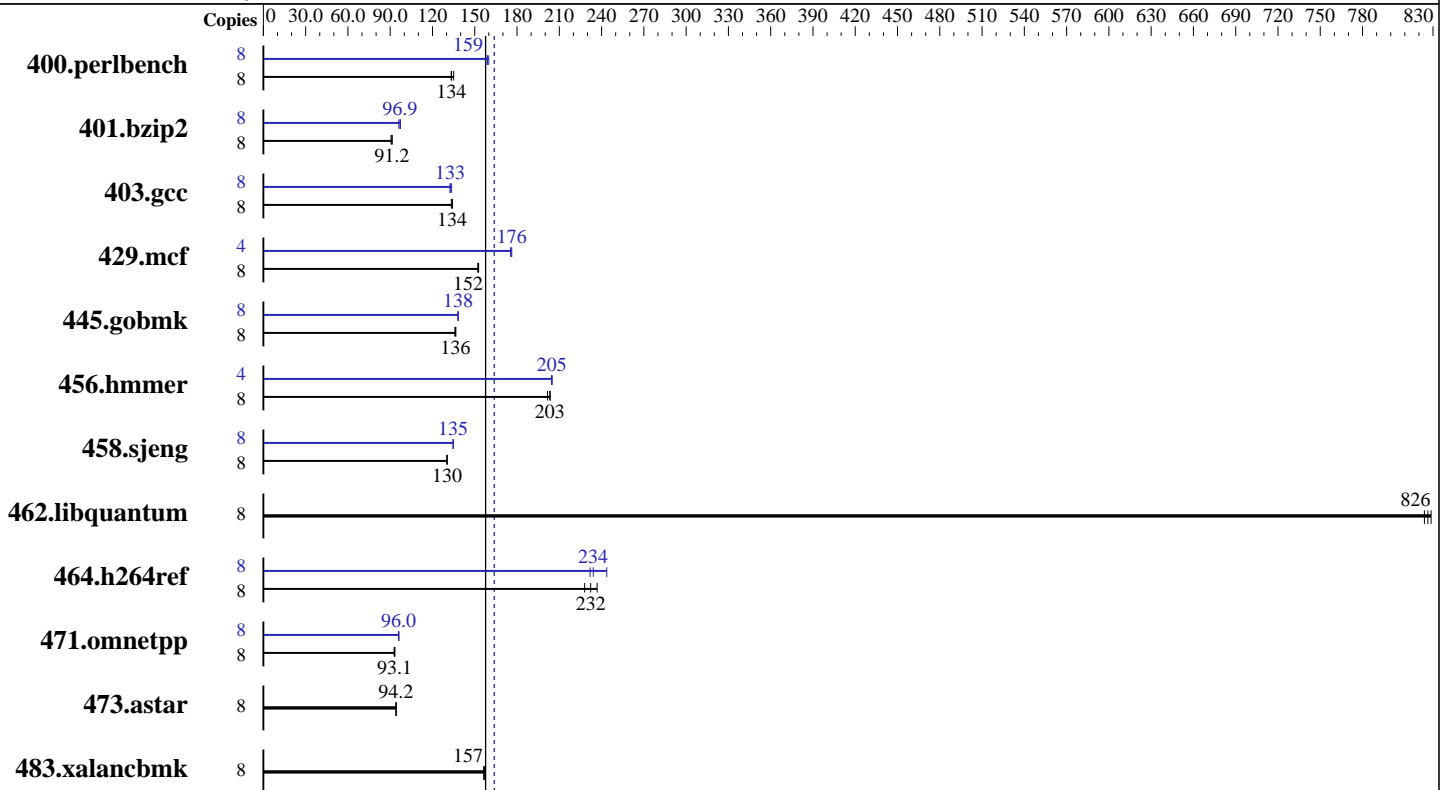
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Results Table

Benchmark	Copies	Base Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Peak Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	8	579	135	587	133	**585**	**134**	8	**492**	**159**	492	159	489	160
401.bzip2	8	**847**	**91.2**	845	91.4	852	90.6	8	794	97.3	**796**	**96.9**	803	96.1
403.gcc	8	**481**	**134**	483	133	480	134	8	482	134	**486**	**133**	486	132
429.mcf	8	479	152	**479**	**152**	478	153	4	207	176	**208**	**176**	208	175
445.gobmk	8	618	136	**615**	**136**	615	137	8	**607**	**138**	607	138	607	138
456.hmmer	8	370	202	367	204	**367**	**203**	4	**182**	**205**	182	205	183	204
458.sjeng	8	743	130	742	130	**743**	**130**	8	718	135	719	135	**719**	**135**
462.libquantum	8	200	829	201	824	**201**	**826**	8	200	829	201	824	**201**	**826**
464.h264ref	8	**762**	**232**	748	237	777	228	8	**756**	**234**	726	244	764	232
471.omnetpp	8	536	93.3	**537**	**93.1**	539	92.8	8	521	95.9	520	96.2	**521**	**96.0**
473.astar	8	596	94.2	**596**	**94.2**	597	94.1	8	596	94.2	**596**	**94.2**	597	94.1
483.xalancbmk	8	352	157	353	156	**353**	**157**	8	352	157	353	156	**353**	**157**

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 stack size to unlimited prior to run
     Huge pages were not configured for this run
```

Base Compiler Invocation

C benchmarks:
```
     icc  -m32
```

C++ benchmarks:
```
     icpc -m32
```

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:

```
-xAVX -ipo -O3 -no-prec-div -opt-prefetch
-B /usr/share/libhugetlbfs/ -Wl,-hugetlbfs-link=BDT
```

C++ benchmarks:

```
-xAVX -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs
-L/opt/smartheap/ia32 -lsmartheap
-B /usr/share/libhugetlbfs/ -Wl,-hugetlbfs-link=BDT
```

Base Other Flags

C benchmarks:

```
403.gcc: -Dalloca=_alloca
```

Peak Compiler Invocation

C benchmarks (except as noted below):
```
icc  -m32
```

```
400.perlbench: icc -m64
```

```
401.bzip2: icc -m64
```

```
456.hmmer: icc -m64
```

```
458.sjeng: icc -m64
```

C++ benchmarks:
```
icpc -m32
```

Peak Portability Flags

```
400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
   401.bzip2: -DSPEC_CPU_LP64
   456.hmmer: -DSPEC_CPU_LP64
   458.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX
```

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Peak Optimization Flags

C benchmarks:

```
 400.perlbench: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
                -no-prec-div(pass 2) -prof-use(pass 2)
                -B /usr/share/libhugetlbfs/ -Wl,-melf_x86_64 -Wl,-hugetlbfs-link=BDT

     401.bzip2: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
                -no-prec-div(pass 2) -prof-use(pass 2) -opt-prefetch
                -auto-ilp32 -ansi-alias
                -B /usr/share/libhugetlbfs/ -Wl,-melf_x86_64 -Wl,-hugetlbfs-link=BDT

       403.gcc: -xAVX -ipo -O3 -no-prec-div
                -B /usr/share/libhugetlbfs/ -Wl,-hugetlbfs-link=BDT

       429.mcf: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
                -no-prec-div(pass 2) -prof-use(pass 2) -ansi-alias
                -auto-ilp32

     445.gobmk: -xAVX(pass 2) -prof-gen(pass 1) -prof-use(pass 2)
                -ansi-alias -auto-ilp32

     456.hmmer: -xAVX -ipo -O3 -no-prec-div -unroll2 -auto-ilp32
                -B /usr/share/libhugetlbfs/ -Wl,-melf_x86_64 -Wl,-hugetlbfs-link=BDT

     458.sjeng: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
                -no-prec-div(pass 2) -prof-use(pass 2) -unroll4
                -auto-ilp32
                -B /usr/share/libhugetlbfs/ -Wl,-melf_x86_64 -Wl,-hugetlbfs-link=BDT

 462.libquantum: basepeak = yes

    464.h264ref: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
                -no-prec-div(pass 2) -prof-use(pass 2) -unroll2
                -ansi-alias
```

C++ benchmarks:

```
    471.omnetpp: -xAVX(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=block -Wl,-z,muldefs
                -L/opt/smartheap/ia32 -lsmartheap

      473.astar: basepeak = yes

  483.xalancbmk: basepeak = yes
```

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Peak Other Flags

C benchmarks:

> 403.gcc: `-Dalloca=_alloca`

The flags files that were used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Intel-ic12.0-linux64-revB.html
http://www.spec.org/cpu2006/flags/Fujitsu_CELSIUS_Platform.html

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2006/flags/Intel-ic12.0-linux64-revB.xml
http://www.spec.org/cpu2006/flags/Fujitsu_CELSIUS_Platform.xml

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

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