



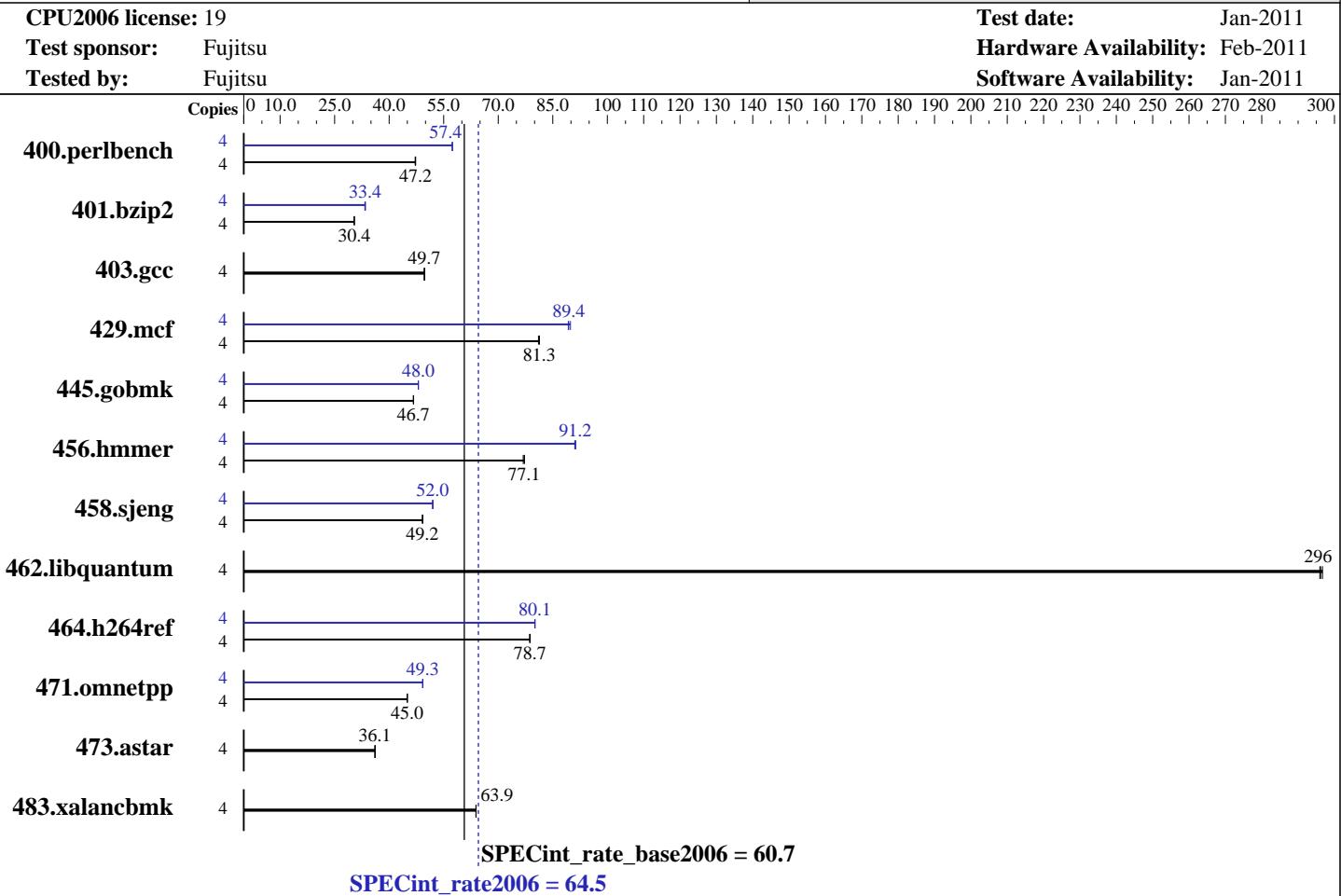
SPEC® CINT2006 Result

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Fujitsu

PRIMERGY BX920 S2, Intel Xeon E5603, 1.60 GHz

SPECint_rate2006 = 64.5



Hardware		Software	
CPU Name:	Intel Xeon E5603	Operating System:	SUSE Linux Enterprise Server 11 (x86_64) with SP1, Kernel 2.6.32.12-0.7-default
CPU Characteristics:		Compiler:	Intel C++ Compiler XE for applications running on IA-32 Version 12.0.1.116 Build 20101116
CPU MHz:	1600	Auto Parallel:	No
FPU:	Integrated	File System:	ext3
CPU(s) enabled:	4 cores, 1 chip, 4 cores/chip	System State:	Run level 3 (multi-user)
CPU(s) orderable:	1,2 chips	Base Pointers:	32-bit
Primary Cache:	32 KB I + 32 KB D on chip per core	Peak Pointers:	32/64-bit
Secondary Cache:	256 KB I+D on chip per core	Other Software:	Microquill SmartHeap V9.01
L3 Cache:	4 MB I+D on chip per chip		
Other Cache:	None		
Memory:	24 GB (3 x 8 GB 2Rx4 PC3-10600R-9, ECC, running at 1067 MHz and CL7)		
Disk Subsystem:	1 x SAS, 300 GB, 10000 RPM		
Other Hardware:	--		



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Test sponsor: Fujitsu

Hardware Availability: Feb-2011

Tested by: Fujitsu

Software Availability: Jan-2011

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	4	829	47.1	826	47.3	828	47.2	4	681	57.4	681	57.4	681	57.4
401.bzip2	4	1270	30.4	1268	30.4	1272	30.3	4	1155	33.4	1159	33.3	1154	33.4
403.gcc	4	648	49.7	647	49.7	649	49.6	4	648	49.7	647	49.7	649	49.6
429.mcf	4	450	81.1	449	81.3	448	81.3	4	406	89.9	408	89.4	409	89.3
445.gobmk	4	898	46.7	899	46.7	899	46.7	4	874	48.0	873	48.0	874	48.0
456.hmmer	4	486	76.9	483	77.2	484	77.1	4	409	91.3	409	91.2	410	91.0
458.sjeng	4	984	49.2	984	49.2	984	49.2	4	932	52.0	931	52.0	931	52.0
462.libquantum	4	280	296	280	296	279	297	4	280	296	280	296	279	297
464.h264ref	4	1125	78.7	1126	78.6	1124	78.8	4	1106	80.1	1106	80.1	1105	80.1
471.omnetpp	4	556	45.0	556	45.0	556	45.0	4	508	49.3	507	49.3	508	49.2
473.astar	4	776	36.2	778	36.1	778	36.1	4	776	36.2	778	36.1	778	36.1
483.xalancbmk	4	432	63.9	432	63.9	432	63.9	4	432	63.9	432	63.9	432	63.9

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 stacksize to unlimited prior to run
Hugepages were not configured on the system

Platform Notes

BIOS configuration:
Data Reuse Optimization = Disable
Performance/Power Setting = Traditional

General Notes

For information about Fujitsu please visit: <http://www.fujitsu.com>
Binaries were compiled on RHEL5.5 with binutils-2.17.50.0.6-14.el5

Base Compiler Invocation

C benchmarks:

```
icc -m32 -B /usr/share/libhugetlbfs/ -Wl,-hugetlbfs-link=BDT
```

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SPECint_rate_base2006 = 60.7

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Base Compiler Invocation (Continued)

C++ benchmarks:

```
icpc -m32 -B /usr/share/libhugetlbfs/ -Wl,-hugetlbfs-link=BDT
```

Base Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32

462.libquantum: -DSPEC_CPU_LINUX

483.xalancbmk: -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:

```
-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch
```

C++ benchmarks:

```
-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs  
-L/smartheap -lsmartheap
```

Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):

```
icc -m64  
-B /usr/share/libhugetlbfs/ -Wl,-melf_x86_64 -Wl,-hugetlbfs-link=BDT
```

403.gcc: icc -m32
-B /usr/share/libhugetlbfs/ -Wl,-hugetlbfs-link=BDT

429.mcf: icc -m32

445.gobmk: icc -m32

462.libquantum: icc -m32
-B /usr/share/libhugetlbfs/ -Wl,-hugetlbfs-link=BDT

464.h264ref: icc -m32

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Peak Compiler Invocation (Continued)

C++ benchmarks (except as noted below):

icpc -m32 -B /usr/share/libhugetlbfsl -Wl,-hugetlbfsl-link=BDT

471.omnetpp: 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

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) -prof-use(pass 2)

401.bzip2: -xSSE4.2(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

403.gcc: basepeak = yes

429.mcf: -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 -auto-ilp32

445.gobmk: -xSSE4.2(pass 2) -prof-gen(pass 1) -prof-use(pass 2)
-ansi-alias -auto-ilp32

456.hmmer: -xSSE4.2 -ipo -O3 -no-prec-div -unroll12 -auto-ilp32

458.sjeng: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)
-unroll14 -auto-ilp32

462.libquantum: basepeak = yes

464.h264ref: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)
-unroll12 -ansi-alias

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Peak Optimization Flags (Continued)

C++ benchmarks:

```
471.omnetpp: -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=block -Wl,-z,muldefs
             -L/smarterheap -lsmarterheap
```

```
473.astar: basepeak = yes
```

```
483.xalancbmk: basepeak = yes
```

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-ic12.0-linux64-revA.20110303.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Intel-ic12.0-linux64-revA.20110303.xml>

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For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.1.

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