



SPEC[®] CINT2006 Result

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Fujitsu

SPECint[®]2006 = 24.5

PRIMERGY TX100 S2, Intel Pentium G6950, 2.80 GHz

SPECint_base2006 = 22.5

CPU2006 license: 19

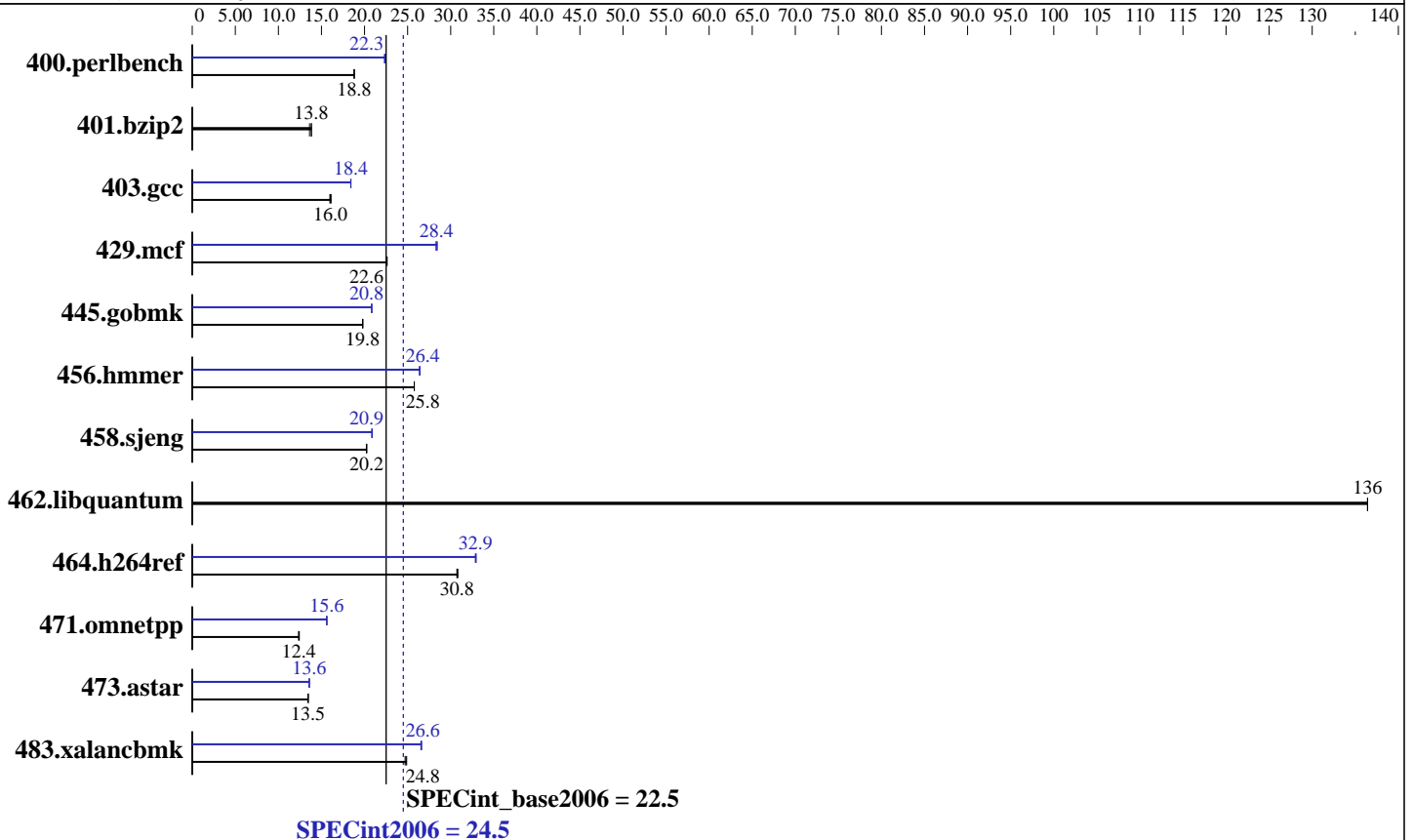
Test date: Jul-2010

Test sponsor: Fujitsu

Hardware Availability: Jul-2010

Tested by: Fujitsu

Software Availability: Jan-2010



Hardware

CPU Name: Intel Pentium G6950
 CPU Characteristics:
 CPU MHz: 2800
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
 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: 3 MB I+D on chip per chip
 Other Cache: None
 Memory: 16 GB (4x4 GB PC3-10600E, 2 rank, CL9-9-9, ECC, see add'l detail in notes)
 Disk Subsystem: 1 x SATA, 160 GB, 5400 RPM
 Other Hardware: None

Software

Operating System: SUSE Linux Enterprise Server 11 (x86_64) with SP1, Kernel 2.6.32.12-0.7-default
 Compiler: Intel C++ Professional Compiler for IA32 and Intel 64, Version 11.1 Build 20091130 Package ID: l_cproc_p_11.1.064
 Auto Parallel: Yes
 File System: ext3
 System State: Run level 3 (multi-user)
 Base Pointers: 64-bit
 Peak Pointers: 32/64-bit
 Other Software: Microquill SmartHeap V8.1



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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	519	18.8	<u>520</u>	<u>18.8</u>	520	18.8	<u>437</u>	<u>22.3</u>	437	22.4	438	22.3
401.bzip2	697	13.8	<u>698</u>	<u>13.8</u>	709	13.6	697	13.8	<u>698</u>	<u>13.8</u>	709	13.6
403.gcc	499	16.1	<u>502</u>	<u>16.0</u>	504	16.0	437	18.4	<u>437</u>	<u>18.4</u>	437	18.4
429.mcf	403	22.6	<u>403</u>	<u>22.6</u>	405	22.5	<u>322</u>	<u>28.4</u>	321	28.4	322	28.3
445.gobmk	530	19.8	<u>530</u>	<u>19.8</u>	530	19.8	<u>503</u>	<u>20.8</u>	504	20.8	503	20.8
456.hammer	362	25.8	362	25.8	<u>362</u>	<u>25.8</u>	353	26.4	353	26.4	<u>353</u>	<u>26.4</u>
458.sjeng	<u>598</u>	<u>20.2</u>	599	20.2	597	20.3	579	20.9	581	20.8	<u>579</u>	<u>20.9</u>
462.libquantum	<u>152</u>	<u>136</u>	152	136	152	136	<u>152</u>	<u>136</u>	152	136	152	136
464.h264ref	<u>720</u>	<u>30.8</u>	718	30.8	720	30.7	<u>673</u>	<u>32.9</u>	673	32.9	671	33.0
471.omnetpp	503	12.4	<u>505</u>	<u>12.4</u>	506	12.3	<u>400</u>	<u>15.6</u>	400	15.6	400	15.6
473.astar	<u>522</u>	<u>13.5</u>	522	13.4	522	13.5	517	13.6	516	13.6	<u>517</u>	<u>13.6</u>
483.xalancbmk	<u>278</u>	<u>24.8</u>	277	24.9	279	24.7	260	26.5	<u>260</u>	<u>26.6</u>	259	26.6

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

Platform Notes

The system automatically configures the memory to run at 1067 MHz.

General Notes

OMP_NUM_THREADS set to number of cores
KMP_AFFINITY set to granularity=fine,scatter
For information about Fujitsu please visit: <http://www.fujitsu.com>
Binaries were compiled on SLES 10 with Binutils 2.18.50.0.7.20080502

Base Compiler Invocation

C benchmarks:
icc -m64

C++ benchmarks:
icpc -m64



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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.hmmmer: -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:

```
-xSSSE3 -ipo -O3 -no-prec-div -static -parallel -opt-prefetch
```

C++ benchmarks:

```
-xSSSE3 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs
-L/home/cmplr/usr3/alrahate/cpu2006.1.1.icl11.1/libic11.1-64bit -lsmartheap64
```

Base Other Flags

C benchmarks:

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

Peak Compiler Invocation

C benchmarks (except as noted below):

```
icc -m64
```

```
429.mcf: icc -m32
```

C++ benchmarks (except as noted below):

```
icpc -m32
```

```
473.astar: icpc -m64
```



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Peak Portability Flags

```

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
401.bzip2: -DSPEC_CPU_LP64
403.gcc: -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
473.astar: -DSPEC_CPU_LP64
483.xalancbmk: -DSPEC_CPU_LINUX

```

Peak Optimization Flags

C benchmarks:

```

400.perlbench: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3
               -no-prec-div -static -ansi-alias -opt-prefetch

```

401.bzip2: basepeak = yes

```

403.gcc: -xSSSE3 -ipo -O3 -no-prec-div -static -inline-alloc
         -opt-malloc-options=3

```

429.mcf: -xSSSE3 -ipo -O3 -no-prec-div -static -opt-prefetch

```

445.gobmk: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -O2 -ipo
           -no-prec-div -ansi-alias

```

```

456.hmmer: -xSSSE3 -ipo -O3 -no-prec-div -static -unroll2
           -ansi-alias -auto-ilp32

```

```

458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3
           -no-prec-div -static -unroll4

```

462.libquantum: basepeak = yes

```

464.h264ref: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3
             -no-prec-div -static -unroll2 -ansi-alias

```

C++ benchmarks:

```

471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3
             -no-prec-div -ansi-alias -opt-ra-region-strategy=block
             -Wl,-z,muldefs
             -L/home/cmplr/usr3/alrahate/cpu2006.1.1.ic11.1/libic11.1-32bit -lsmarthearp

```

```

473.astar: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3
           -no-prec-div -ansi-alias -opt-ra-region-strategy=routine
           -Wl,-z,muldefs

```

Continued on next page



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Peak Optimization Flags (Continued)

473.astar (continued):

`-L/home/cmplr/usr3/alrahate/cpu2006.1.1.ic11.1/libic11.1-64bit -lsmartheap64`

483.xalancbmk: `-xSSSE3 -ipo -O3 -no-prec-div -opt-prefetch`

`-Wl,-z,muldefs`

`-L/home/cmplr/usr3/alrahate/cpu2006.1.1.ic11.1/libic11.1-32bit -lsmartheap`

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-ic11.1-linux64-revE.20100708.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.1-linux64-revE.20100708.xml>

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

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