



SPEC® CINT2006 Result

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NEC Corporation

Express5800/iR110a-1H
(Intel Core 2 Duo P8400)

SPECint®2006 = 18.5

SPECint_base2006 = 17.1

CPU2006 license: 9006

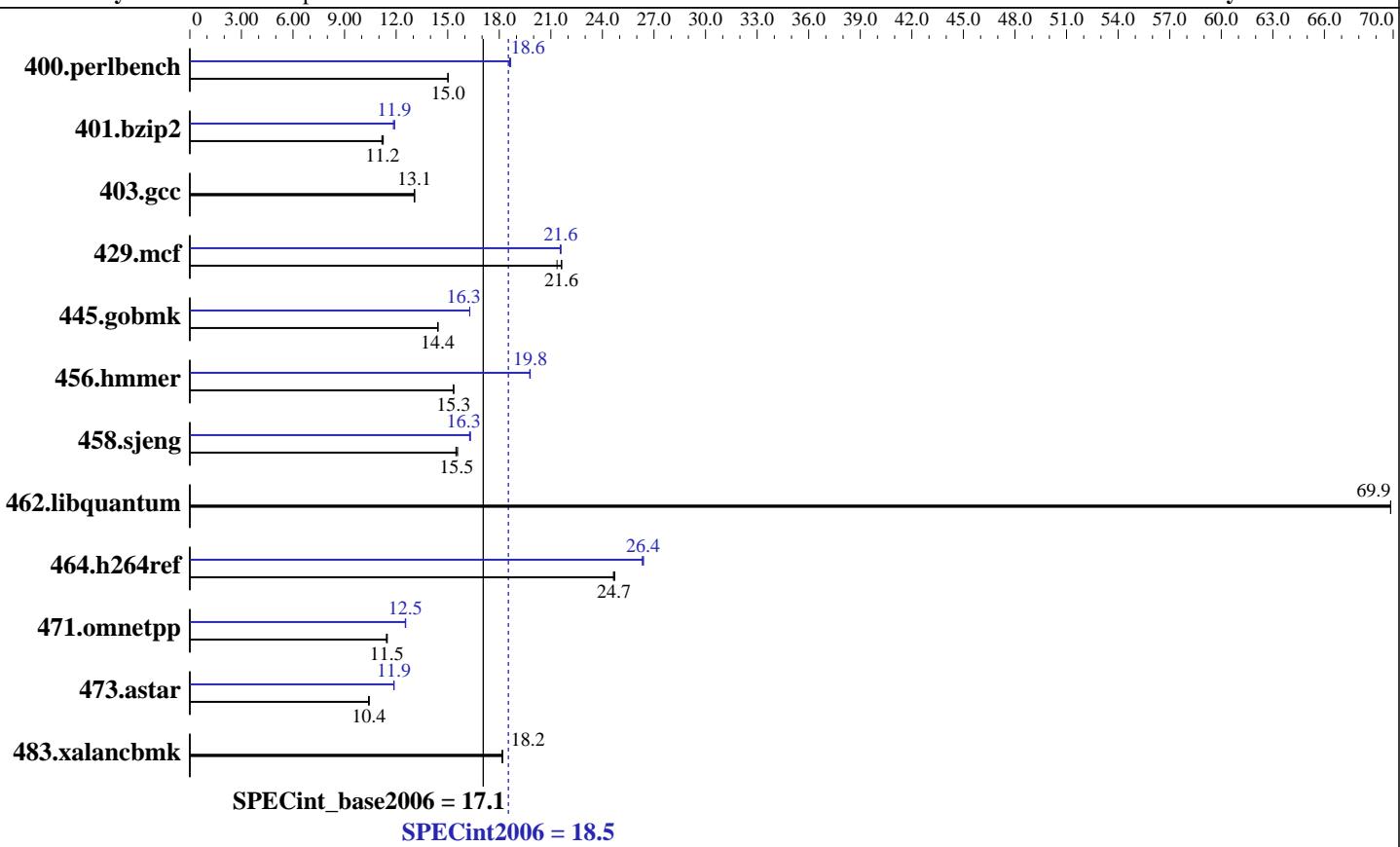
Test sponsor: NEC Corporation

Tested by: NEC Corporation

Test date: Nov-2009

Hardware Availability: Jul-2009

Software Availability: Feb-2009



Hardware

CPU Name:	Intel Core 2 Duo P8400
CPU Characteristics:	1066 MHz system bus
CPU MHz:	2266
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:	3 MB I+D on chip per chip
L3 Cache:	None
Other Cache:	None
Memory:	8 GB (4x2 GB PC2-5300P, 1 rank, CL5-5-5, ECC)
Disk Subsystem:	1x73.2 GB SAS, 15000 RPM
Other Hardware:	None

Software

Operating System:	SUSE Linux Enterprise Server 10 (x86_64) SP2, Kernel 2.6.16.60-0.21-smp
Compiler:	Intel C++ Compiler Professional 11.0 for Linux Build 20090131 Package ID: l_cproc_p_11.0.081
Auto Parallel:	Yes
File System:	ReiserFS
System State:	Run level 3 (multi-user)
Base Pointers:	32-bit
Peak Pointers:	32/64-bit
Other Software:	MicroQuill SmartHeap Library 8.1 Binutils 2.18.50.0.7.20080502



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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio										
400.perlbench	650	15.0	651	15.0	650	15.0	525	18.6	523	18.7	525	18.6
401.bzip2	861	11.2	858	11.3	864	11.2	811	11.9	815	11.8	810	11.9
403.gcc	615	13.1	617	13.1	616	13.1	615	13.1	617	13.1	616	13.1
429.mcf	427	21.4	421	21.6	422	21.6	423	21.6	423	21.5	423	21.6
445.gobmk	727	14.4	727	14.4	727	14.4	644	16.3	644	16.3	644	16.3
456.hmmer	608	15.3	608	15.3	608	15.3	472	19.8	471	19.8	471	19.8
458.sjeng	782	15.5	777	15.6	780	15.5	742	16.3	742	16.3	744	16.3
462.libquantum	297	69.9	297	69.9	297	69.9	297	69.9	297	69.9	297	69.9
464.h264ref	897	24.7	895	24.7	898	24.6	841	26.3	839	26.4	839	26.4
471.omnetpp	547	11.4	544	11.5	545	11.5	498	12.6	498	12.5	499	12.5
473.astar	673	10.4	674	10.4	676	10.4	591	11.9	591	11.9	592	11.9
483.xalancbmk	379	18.2	380	18.2	380	18.2	379	18.2	380	18.2	380	18.2

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
OMP_NUM_THREADS set to number of cores
KMP_AFFINITY set to "physical,0"

Platform Notes

Bios settings:

Hardware Prefetcher:

Enabled

Adjacent Cache Line Prefetch:

Enabled

Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

Base Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32

462.libquantum: -DSPEC_CPU_LINUX

Continued on next page



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Base Portability Flags (Continued)

483.xalancbmk: -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:

```
-xSSE4.1 -ipo -O3 -no-prec-div -static -parallel  
-par-runtime-control -opt-prefetch
```

C++ benchmarks:

```
-xSSE4.1 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs  
-L/opt/SmartHeap_8.1/lib -lsmartheap
```

Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):

icc

```
401.bzip2: /opt/intel/Compiler/11.0/081/bin/intel64/icc  
           -L/opt/intel/Compiler/11.0/081/ipp/em64t/lib  
           -I/opt/intel/Compiler/11.0/081/ipp/em64t/include
```

```
456.hmmr: /opt/intel/Compiler/11.0/081/bin/intel64/icc  
           -L/opt/intel/Compiler/11.0/081/ipp/em64t/lib  
           -I/opt/intel/Compiler/11.0/081/ipp/em64t/include
```

C++ benchmarks:

icpc

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32

401.bzip2: -DSPEC_CPU_LP64

456.hmmr: -DSPEC_CPU_LP64

462.libquantum: -DSPEC_CPU_LINUX

483.xalancbmk: -DSPEC_CPU_LINUX



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Peak Optimization Flags

C benchmarks:

```
400.perlbench: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
               -no-prec-div -static -ansi-alias -opt-prefetch

401.bzip2: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
               -no-prec-div -static -auto-ilp32 -opt-prefetch
               -ansi-alias

403.gcc: basepeak = yes

429.mcf: -xSSE4.1 -ipo -O3 -no-prec-div -static -opt-prefetch

445.gobmk: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -O2 -ipo
               -no-prec-div -ansi-alias

456.hmmer: -xSSE4.1 -ipo -O3 -no-prec-div -static -unroll12
               -ansi-alias -auto-ilp32

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

462.libquantum: basepeak = yes

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

C++ benchmarks:

```
471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
               -no-prec-div -ansi-alias -opt-ra-region-strategy=block
               -Wl,-z,muldefs -L/opt/SmartHeap_8.1/lib -lsmartheap

473.astar: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
               -no-prec-div -ansi-alias -opt-ra-region-strategy=routine
               -Wl,-z,muldefs -L/opt/SmartHeap_8.1/lib -lsmartheap

483.xalancbmk: basepeak = yes
```

Peak Other Flags

C benchmarks:

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



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The flags files that were used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-int-linux64-revG.html>

<http://www.spec.org/cpu2006/flags/NEC-Intel-Linux-Settings-flags-revE.html>

You can also download the XML flags sources by saving the following links:

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-int-linux64-revG.xml>

<http://www.spec.org/cpu2006/flags/NEC-Intel-Linux-Settings-flags-revE.xml>

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

Tested with SPEC CPU2006 v1.1.

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