SPEC® CINT2006 Result
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NEC Corporation

Express5800/120Bb-m6
(Intel Xeon X5260)

SPECint®_rate2006 =   42.4

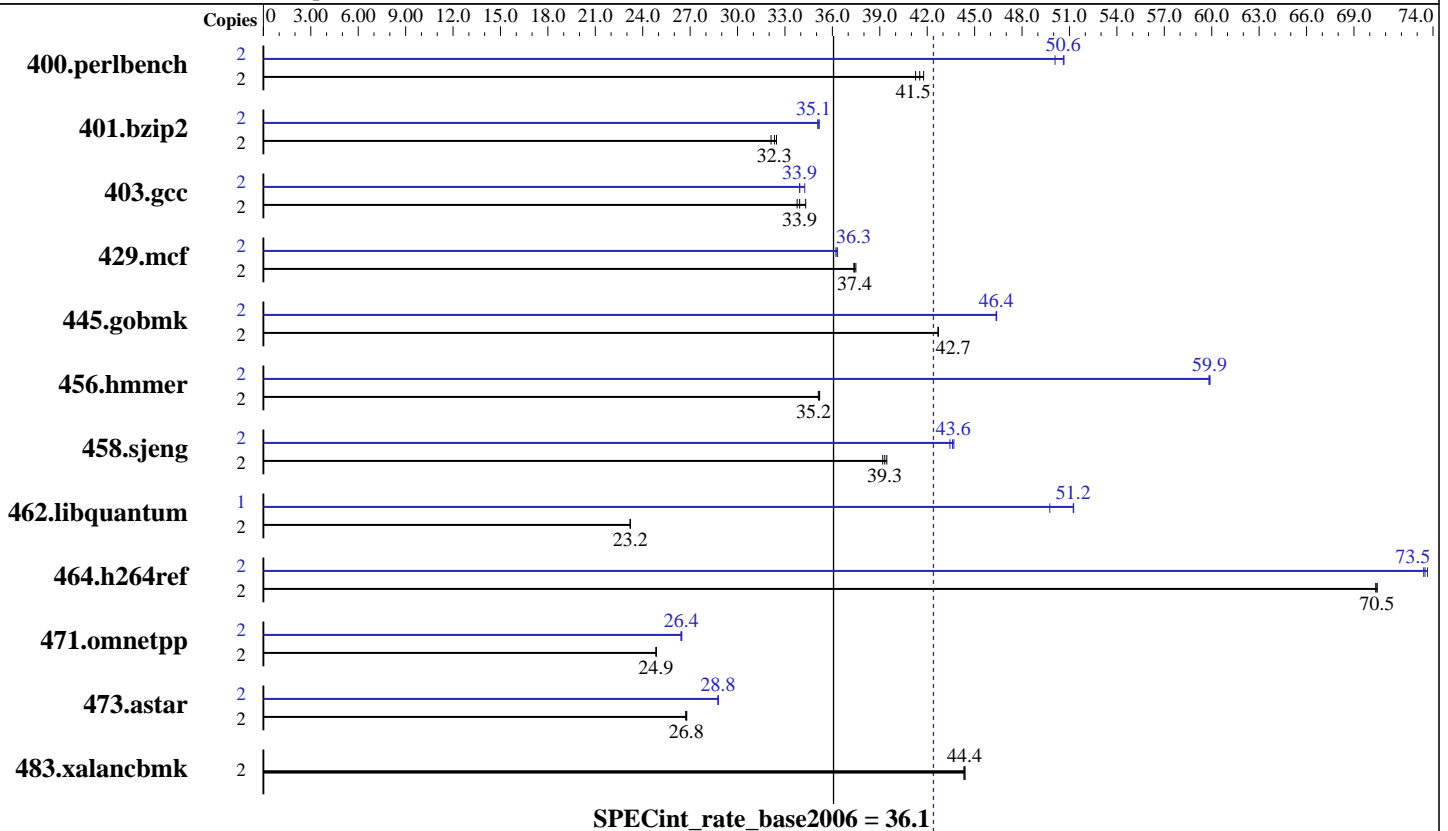SPECint_rate_base2006 = 36.1

CPU2006 license: 9006

Test sponsor: NEC Corporation

Tested by: NEC Corporation

Test date: May-2008

Hardware Availability: Feb-2008

Software Availability: Nov-2007

Benchmark	Copies	base	peak
400.perlbench	2 / 2	41.5	50.6
401.bzip2	2 / 2	32.3	35.1
403.gcc	2 / 2	33.9	33.9
429.mcf	2 / 2	37.4	36.3
445.gobmk	2 / 2	42.7	46.4
456.hmmer	2 / 2	35.2	59.9
458.sjeng	2 / 2	39.3	43.6
462.libquantum	1 / 2	23.2	51.2
464.h264ref	2 / 2	70.5	73.5
471.omnetpp	2 / 2	24.9	26.4
473.astar	2 / 2	26.8	28.8
483.xalancbmk	2	44.4	

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Hardware

CPU Name: Intel Xeon X5260

CPU Characteristics: 3.33 GHz, 6 MB L2, 1333 MHz bus

CPU MHz: 3333

FPU: Integrated

CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip

CPU(s) orderable: 1,2 chips

Primary Cache: 32 KB I + 32 KB D on chip per core

Secondary Cache: 6 MB I+D on chip per chip

L3 Cache: None

Other Cache: None

Memory: 8 GB (8x1 GB PC2-5300F, 2 rank, CL5-5-5, ECC)

Disk Subsystem: 1x73.2 GB SAS, 15000RPM

Other Hardware: None

Software

Operating System: SUSE Linux Enterprise Server 10 (x86_64) SP1, Kernel 2.6.16.46-0.12-smp

Compiler: Intel C++ Compiler for Linux32 and Linux64 version 10.1 Build 20070913 Package ID: l_cc_p_10.1.008

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-2.17.tar.gz, Version 2.17

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Results Table

Benchmark	Base						Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	2	474	41.3	468	41.8	**471**	**41.5**	2	390	50.1	386	50.7	**386**	**50.6**
401.bzip2	2	595	32.5	601	32.1	**597**	**32.3**	2	550	35.1	**550**	**35.1**	549	35.2
403.gcc	2	477	33.8	469	34.3	**474**	**33.9**	2	470	34.3	475	33.9	**474**	**33.9**
429.mcf	2	488	37.4	487	37.5	**488**	**37.4**	2	504	36.2	502	36.3	**502**	**36.3**
445.gobmk	2	491	42.7	**491**	**42.7**	491	42.7	2	452	46.4	452	46.4	**452**	**46.4**
456.hmmer	2	531	35.1	530	35.2	**531**	**35.2**	2	312	59.9	312	59.8	**312**	**59.9**
458.sjeng	2	614	39.4	**616**	**39.3**	618	39.2	2	554	43.7	**555**	**43.6**	557	43.4
462.libquantum	2	1785	23.2	1786	23.2	**1785**	**23.2**	1	416	49.8	404	51.3	**404**	**51.2**
464.h264ref	2	**628**	**70.5**	629	70.4	628	70.5	2	601	73.7	**602**	**73.5**	603	73.4
471.omnetpp	2	503	24.9	503	24.8	**503**	**24.9**	2	472	26.5	**473**	**26.4**	473	26.4
473.astar	2	**525**	**26.8**	524	26.8	525	26.7	2	**488**	**28.8**	488	28.8	488	28.8
483.xalancbmk	2	311	44.3	311	44.4	**311**	**44.4**	2	311	44.3	311	44.4	**311**	**44.4**

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

General Notes

All benchmarks compiled in 32-bit mode except 401.bzip2,
456.hmmer, for peak, are compiled in 64-bit mode

Base Compiler Invocation

C benchmarks:
    icc

C++ benchmarks:
    icpc

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:
```
-fast -inline-calloc -opt-malloc-options=3
```

C++ benchmarks:
```
-xT -ipo -O3 -no-prec-div -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/cce/10.1.008/bin/icc
           -L/opt/intel/cce/10.1.008/lib
           -I/opt/intel/cce/10.1.008/include

456.hmmer: /opt/intel/cce/10.1.008/bin/icc
           -L/opt/intel/cce/10.1.008/lib
           -I/opt/intel/cce/10.1.008/include
```

C++ benchmarks:
```
icpc
```

Peak Portability Flags

```
  400.perlbench: -DSPEC_CPU_LINUX_IA32
     401.bzip2: -DSPEC_CPU_LP64
     456.hmmer: -DSPEC_CPU_LP64
 462.libquantum: -DSPEC_CPU_LINUX
 483.xalancbmk: -DSPEC_CPU_LINUX
```

Peak Optimization Flags

C benchmarks:

Continued on next page

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Peak Optimization Flags (Continued)

400.perlbench: `-prof-gen`(pass 1) `-prof-use`(pass 2) `-fast -ansi-alias`
`-prefetch`

401.bzip2: `-prof-gen`(pass 1) `-prof-use`(pass 2) `-fast -prefetch`

403.gcc: `-fast -inline-calloc -opt-malloc-options=3`

429.mcf: `-fast -prefetch`

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

456.hmmer: `-fast -unroll2 -ansi-alias -opt-multi-version-aggressive`

458.sjeng: `-prof-gen`(pass 1) `-prof-use`(pass 2) `-fast -unroll4`

462.libquantum: `-fast -unroll4 -Ob0 -prefetch`
`-opt-streaming-stores always -vec-guard-write`
`-opt-malloc-options=3 -parallel -par-runtime-control`

464.h264ref: `-prof-gen`(pass 1) `-prof-use`(pass 2) `-fast -unroll2`
`-ansi-alias`

C++ benchmarks:

471.omnetpp: `-prof-gen`(pass 1) `-prof-use`(pass 2) `-xT -O3 -ipo`
`-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) `-xT -O3 -ipo`
`-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`

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/NEC-Intel-ic10.1-INT-ia32-linux-flags.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/NEC-Intel-ic10.1-INT-ia32-linux-flags.xml

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

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