SPEC® CINT2006 Result
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NEC Corporation

Express5800/110Rh-1
(Intel Xeon processor 3060)

$SPECint^®\_rate2006 =$ 30.6
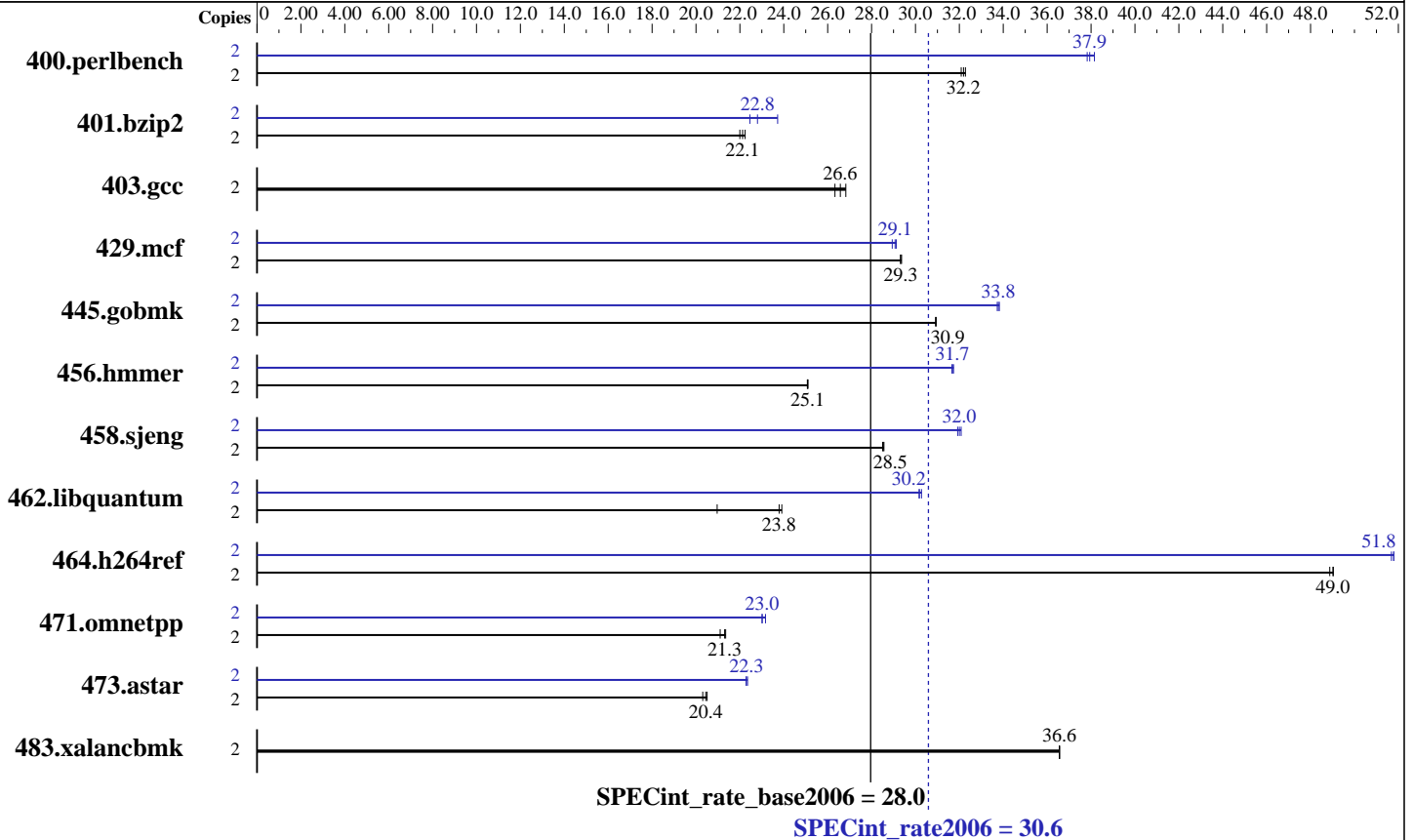
SPECint_rate_base2006 = 28.0

CPU2006 license: 9006
Test sponsor: NEC Corporation
Tested by: NEC Corporation

Test date: Nov-2007
Hardware Availability: Nov-2006
Software Availability: Jun-2007

Copies	value
400.perlbench 2	37.9
2	32.2
401.bzip2 2	22.8
2	22.1
403.gcc 2	26.6
429.mcf 2	29.1
2	29.3
445.gobmk 2	33.8
2	30.9
456.hmmer 2	31.7
2	25.1
458.sjeng 2	32.0
2	28.5
462.libquantum 2	30.2
2	23.8
464.h264ref 2	51.8
2	49.0
471.omnetpp 2	23.0
2	21.3
473.astar 2	22.3
2	20.4
483.xalancbmk 2	36.6

SPECint_rate_base2006 = 28.0

SPECint_rate2006 = 30.6

Hardware

CPU Name: Intel Xeon 3060
CPU Characteristics: 2.40 GHz, 4 MB L2, 1066 MHz bus
CPU MHz: 2400
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: 4 MB I+D on chip per chip
L3 Cache: None
Other Cache: None
Memory: 4 GB (4x1 GB PC2-5300E, 2 rank, CL5-5-5, ECC)
Disk Subsystem: 1x80 GB SATAII, 7200RPM
Other Hardware: None

Software

Operating System: SUSE Linux Enterprise Server 10 (x86_64), Kernel 2.6.16.21-0.8-smp
Compiler: Intel C++ Compiler for Linux32 and Linux64 version 10.0 Build 20070426 Package ID: l_cc_p_10.0.023
Auto Parallel: No
File System: ext2
System State: Multiuser, Runlevel 3
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	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
			Base								**Peak**			
400.perlbench	2	**607**	**32.2**	605	32.3	609	32.1	2	517	37.8	512	38.2	**515**	**37.9**
401.bzip2	2	**872**	**22.1**	877	22.0	868	22.2	2	**846**	**22.8**	814	23.7	859	22.5
403.gcc	2	611	26.3	**606**	**26.6**	600	26.8	2	611	26.3	**606**	**26.6**	600	26.8
429.mcf	2	622	29.3	621	29.4	**622**	**29.3**	2	**627**	**29.1**	630	28.9	626	29.1
445.gobmk	2	678	30.9	**678**	**30.9**	678	30.9	2	**621**	**33.8**	622	33.7	620	33.8
456.hmmer	2	744	25.1	743	25.1	**744**	**25.1**	2	588	31.7	**589**	**31.7**	589	31.7
458.sjeng	2	**848**	**28.5**	849	28.5	847	28.6	2	754	32.1	758	31.9	**756**	**32.0**
462.libquantum	2	1977	21.0	1733	23.9	**1742**	**23.8**	2	1369	30.3	**1373**	**30.2**	1374	30.2
464.h264ref	2	906	48.9	**903**	**49.0**	903	49.0	2	856	51.7	**855**	**51.8**	855	51.8
471.omnetpp	2	592	21.1	585	21.4	**587**	**21.3**	2	540	23.2	543	23.0	**543**	**23.0**
473.astar	2	691	20.3	685	20.5	**687**	**20.4**	2	628	22.3	**630**	**22.3**	630	22.3
483.xalancbmk	2	377	36.6	378	36.6	**378**	**36.6**	2	377	36.6	378	36.6	**378**	**36.6**

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
'/usr/bin/taskset' used to bind processes to CPUs

General Notes

All benchmarks compiled in 32-bit mode except 401.bzip2 and 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
```

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/10.0.023/bin/icc
           -L/opt/intel/cce/10.0.023/lib
           -I/opt/intel/cce/10.0.023/include
```

```
456.hmmer: /opt/intel/cce/10.0.023/bin/icc
           -L/opt/intel/cce/10.0.023/lib
           -I/opt/intel/cce/10.0.023/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:

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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

      403.gcc: basepeak = yes

      429.mcf: -fast -prefetch

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

    456.hmmer: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
               -ansi-alias

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

462.libquantum: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4 -Ob0
               -prefetch -opt-streaming-stores always

   464.h264ref: Same as 456.hmmer
```

C++ benchmarks:

```
   471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo
               -no-prec_div -ansi-alias -Wl,-z,muldefs
               -L/opt/SmartHeap_8.1/lib -lsmartheap

     473.astar: Same as 471.omnetpp

 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-ic10-INT-ia32-intel64-linux-flags.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/NEC-ic10-INT-ia32-intel64-linux-flags.xml

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