SPEC® CINT2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

NEC Corporation

Express5800/110Rh-1
(Intel Pentium Dual-Core E2160)

$SPECint®\_rate2006 =$ 21.2

$SPECint\_rate\_base2006 =$ 18.8

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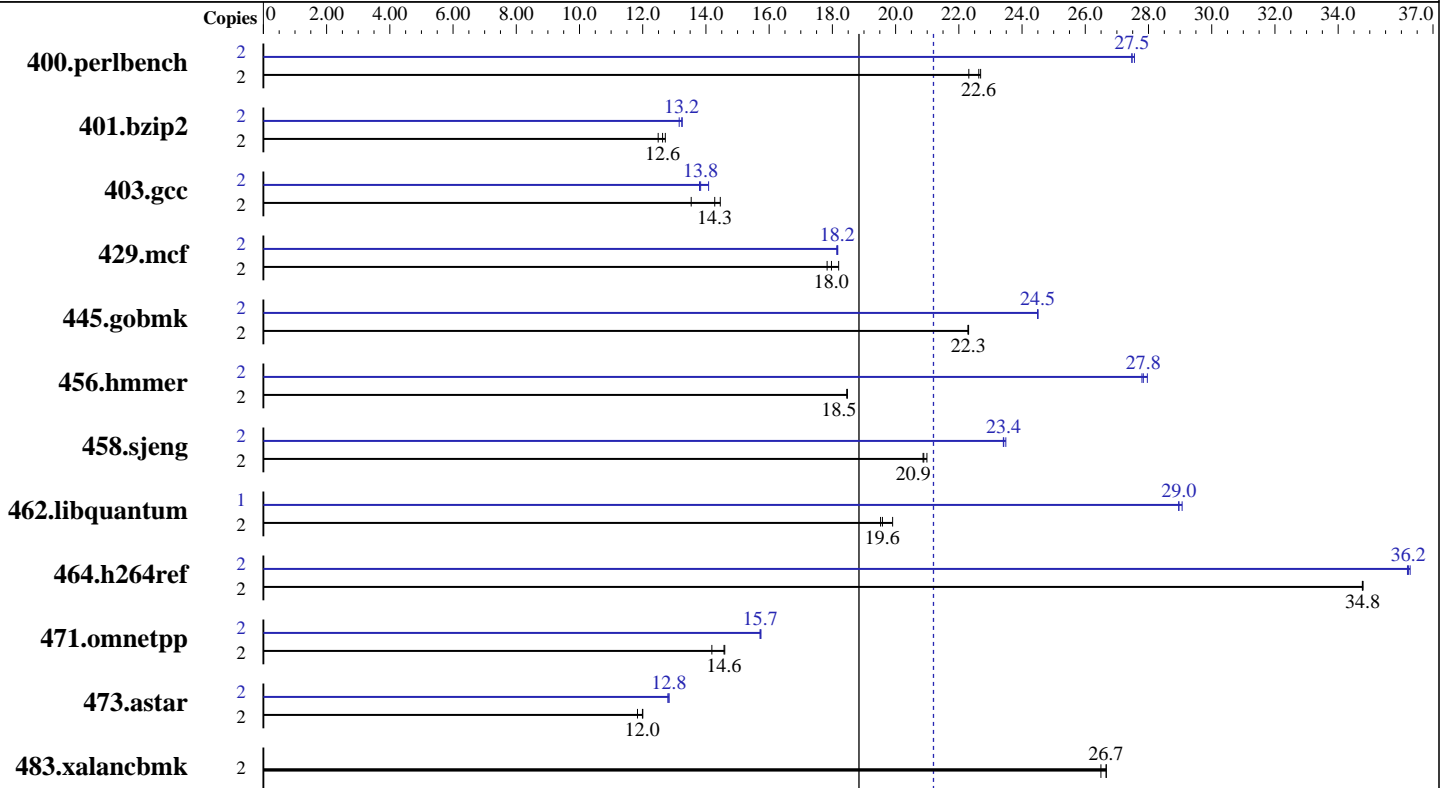**Test sponsor:** NEC Corporation
Tested by: NEC Corporation

Test date: Feb-2008
Hardware Availability: Aug-2007
Software Availability: Nov-2007

SPECint_rate_base2006 = 18.8

SPECint_rate2006 = 21.2

Copies			
400.perlbench	2	27.5	
	2	22.6	
401.bzip2	2	13.2	
	2	12.6	
403.gcc	2	13.8	
	2	14.3	
429.mcf	2	18.2	
	2	18.0	
445.gobmk	2	24.5	
	2	22.3	
456.hmmer	2	27.8	
	2	18.5	
458.sjeng	2	23.4	
	2	20.9	
462.libquantum	1	29.0	
	2	19.6	
464.h264ref	2	36.2	
	2	34.8	
471.omnetpp	2	15.7	
	2	14.6	
473.astar	2	12.8	
	2	12.0	
483.xalancbmk	2	26.7	

Hardware

CPU Name:	Intel Pentium Dual-Core E2160
CPU Characteristics:	1.80 GHz, 1 MB L2, 800 MHz bus
CPU MHz:	1800
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:	1 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) 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:	ext2
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

SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

NEC Corporation

Express5800/110Rh-1
(Intel Pentium Dual-Core E2160)

SPECint_rate2006 = 21.2

SPECint_rate_base2006 = 18.8

CPU2006 license: 9006

Test sponsor: NEC Corporation

Tested by: NEC Corporation

Test date: Feb-2008

Hardware Availability: Aug-2007

Software Availability: Nov-2007

Results Table

Benchmark	Base						Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	2	861	22.7	**863**	**22.6**	876	22.3	2	711	27.5	709	27.6	**711**	**27.5**
401.bzip2	2	1545	12.5	**1528**	**12.6**	1518	12.7	2	**1458**	**13.2**	1457	13.2	1467	13.2
403.gcc	2	1190	13.5	1114	14.5	**1128**	**14.3**	2	1167	13.8	**1164**	**13.8**	1143	14.1
429.mcf	2	**1015**	**18.0**	1023	17.8	1002	18.2	2	1004	18.2	**1004**	**18.2**	1006	18.1
445.gobmk	2	940	22.3	941	22.3	**941**	**22.3**	2	857	24.5	**857**	**24.5**	856	24.5
456.hmmer	2	1011	18.5	1010	18.5	**1010**	**18.5**	2	**670**	**27.8**	667	28.0	671	27.8
458.sjeng	2	1153	21.0	**1158**	**20.9**	1160	20.9	2	1030	23.5	1034	23.4	**1033**	**23.4**
462.libquantum	2	**2116**	**19.6**	2123	19.5	2082	19.9	1	**715**	**29.0**	716	29.0	713	29.1
464.h264ref	2	**1273**	**34.8**	1273	34.8	1272	34.8	2	1220	36.3	**1222**	**36.2**	1223	36.2
471.omnetpp	2	881	14.2	**858**	**14.6**	856	14.6	2	795	15.7	**795**	**15.7**	794	15.7
473.astar	2	1186	11.8	**1171**	**12.0**	1170	12.0	2	1097	12.8	1094	12.8	**1094**	**12.8**
483.xalancbmk	2	521	26.5	**518**	**26.7**	518	26.7	2	521	26.5	**518**	**26.7**	518	26.7

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

SPEC CINT2006 Result

NEC Corporation

Express5800/110Rh-1
(Intel Pentium Dual-Core E2160)

SPECint_rate2006 =　　21.2

SPECint_rate_base2006 =　18.8

CPU2006 license: 9006　　　　　　　　　　　　　　　　　**Test date:**　　　　　Feb-2008
Test sponsor:　NEC Corporation　　　　　　　　　　**Hardware Availability:** Aug-2007
Tested by:　　　NEC Corporation　　　　　　　　　　**Software Availability:** Nov-2007

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

SPEC CINT2006 Result

NEC Corporation

Express5800/110Rh-1
(Intel Pentium Dual-Core E2160)

SPECint_rate2006 =   21.2

SPECint_rate_base2006 = 18.8

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

Test date: Feb-2008
Hardware Availability: Aug-2007
Software Availability: Nov-2007

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.20090714.00.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.20090714.00.xml

SPEC CINT2006 Result
Copyright 2006-2014 Standard Performance Evaluation Corporation

NEC Corporation

Express5800/110Rh-1
(Intel Pentium Dual-Core E2160)

SPECint_rate2006 =   21.2

SPECint_rate_base2006 = 18.8

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

Test date: Feb-2008
Hardware Availability: Aug-2007
Software Availability: Nov-2007

SPEC and SPECint are registered trademarks of the Standard Performance
Evaluation Corporation. All other brand and product names appearing in
this result are trademarks or registered trademarks of their respective
holders.

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

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 15:35:55 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 7 March 2008.