SPEC® CINT2006 Result
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NEC Corporation

Express5800/120Rg-1
(Intel Xeon processor 5160)

SPECint®2006 = 17.9

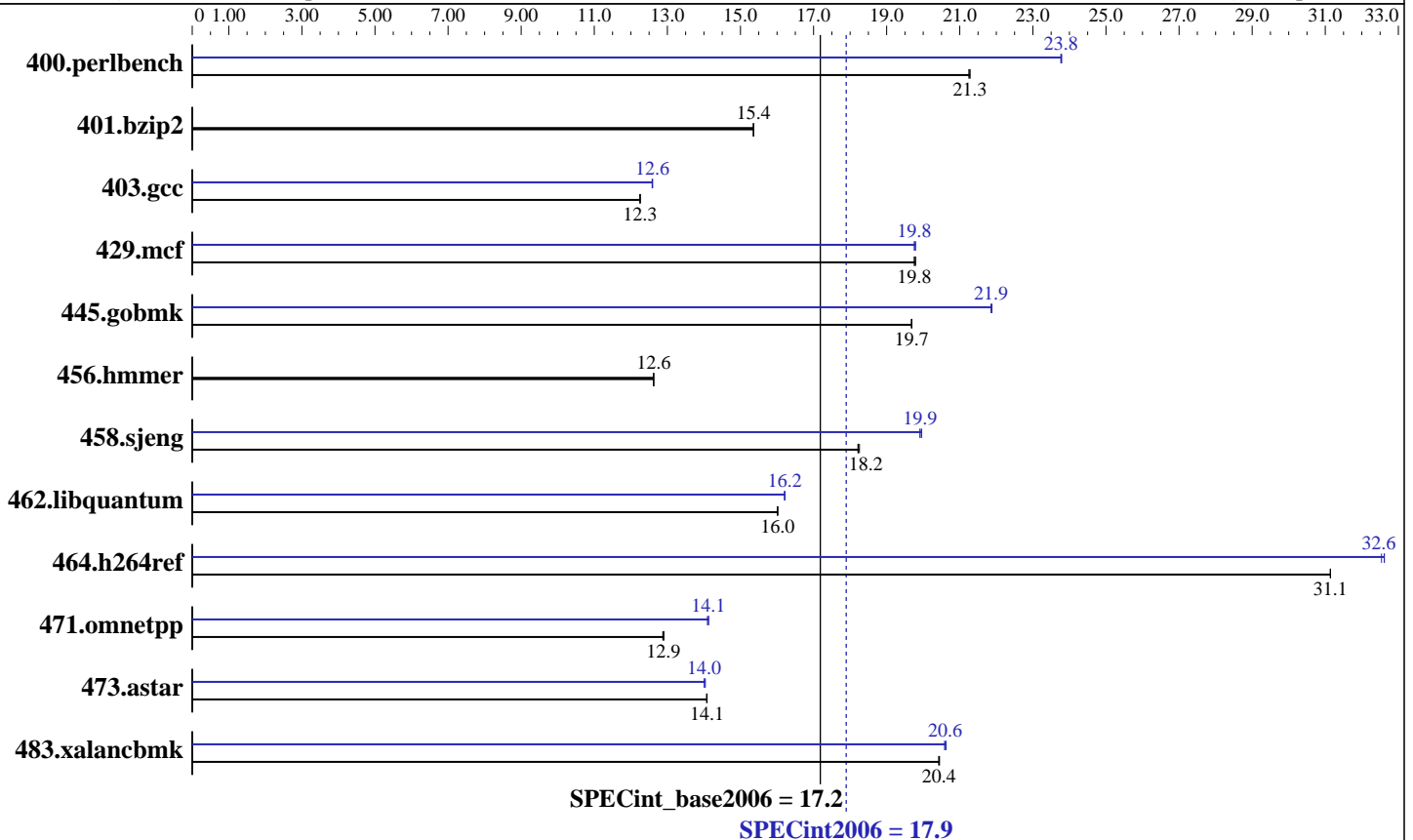SPECint_base2006 = 17.2

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

Test date: May-2007
Hardware Availability: May-2007
Software Availability: Apr-2007

Benchmark	base	peak
400.perlbench	21.3	23.8
401.bzip2	15.4	
403.gcc	12.3	12.6
429.mcf	19.8	19.8
445.gobmk	19.7	21.9
456.hmmer	12.6	
458.sjeng	18.2	19.9
462.libquantum	16.0	16.2
464.h264ref	31.1	32.6
471.omnetpp	12.9	14.1
473.astar	14.1	14.0
483.xalancbmk	20.4	20.6

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Hardware

CPU Name:	Intel Xeon 5160
CPU Characteristics:	3.00 GHz, 4MB L2, 1333MHz bus
CPU MHz:	3000
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1,2 chips
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:	8 GB (8x1 GB DDR2 5300F, 2 rank, CL5-5-5, ECC)
Disk Subsystem:	1x73.2 GB SAS, 15000RPM
Other Hardware:	None

Software

Operating System:	Windows Server 2003, Standard x64 Edition
Compiler:	Intel C++ Compiler for 32bit version 9.1 Build 20070109, Package-ID W_CC_C_9.1.034 Microsoft Visual Studio 2005 (libr. & linker)
Auto Parallel:	No
File System:	NTFS
System State:	Default
Base Pointers:	32-bit
Peak Pointers:	32-bit
Other Software:	MicroQuill SmartHeap Library 8.1

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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	459	21.3	460	21.2	**459**	**21.3**	411	23.8	411	23.8	**411**	**23.8**
401.bzip2	628	15.4	**628**	**15.4**	629	15.4	628	15.4	**628**	**15.4**	629	15.4
403.gcc	657	12.2	657	12.3	**657**	**12.3**	640	12.6	639	12.6	**639**	**12.6**
429.mcf	462	19.8	**462**	**19.8**	461	19.8	**462**	**19.8**	461	19.8	462	19.8
445.gobmk	533	19.7	**533**	**19.7**	533	19.7	**480**	**21.9**	479	21.9	480	21.9
456.hmmer	739	12.6	739	12.6	**739**	**12.6**	739	12.6	739	12.6	**739**	**12.6**
458.sjeng	663	18.3	664	18.2	**664**	**18.2**	**608**	**19.9**	608	19.9	606	20.0
462.libquantum	1293	16.0	**1293**	**16.0**	1294	16.0	1279	16.2	**1278**	**16.2**	1278	16.2
464.h264ref	711	31.1	**711**	**31.1**	711	31.1	**679**	**32.6**	680	32.5	679	32.6
471.omnetpp	485	12.9	**485**	**12.9**	485	12.9	**442**	**14.1**	442	14.1	443	14.1
473.astar	498	14.1	**498**	**14.1**	499	14.1	**501**	**14.0**	500	14.0	501	14.0
483.xalancbmk	337	20.4	**338**	**20.4**	338	20.4	335	20.6	**335**	**20.6**	335	20.6

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

    The Express5800/120Rg-1 and the Express5800/120Ri-2 models are
    electronically equivalent.
    The results have been measured on a Express5800/120Ri-2 model.

Base Compiler Invocation

C benchmarks:
      icl -Qc99

C++ benchmarks:
      icl

Base Portability Flags

          403.gcc: -DSPEC_CPU_WIN32
      464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32
    483.xalancbmk: -Qoption,cpp,--no_wchar_t_keyword

Base Optimization Flags

C benchmarks:
      -fast -F512000000 shlW32M.lib   -link -FORCE:MULTIPLE

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Base Optimization Flags (Continued)

C++ benchmarks:
```
-fast -Qcxx-features -F512000000 shlW32M.lib
        -link -FORCE:MULTIPLE
```

Base Other Flags

C benchmarks:

> 403.gcc: `-Dalloca=_alloca`

Peak Compiler Invocation

C benchmarks:
`icl -Qc99`

C++ benchmarks:
`icl`

Peak Portability Flags

403.gcc: `-DSPEC_CPU_WIN32`
464.h264ref: `-DSPEC_CPU_NO_INTTYPES -DWIN32`
483.xalancbmk: `-Qoption,cpp,--no_wchar_t_keyword`

Peak Optimization Flags

C benchmarks:

400.perlbench: `ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast`
`-F512000000 shlW32M.lib          -link -FORCE:MULTIPLE`

401.bzip2: `basepeak = yes`

403.gcc: Same as 400.perlbench

429.mcf: `ONESTEP -fast -F512000000 shlW32M.lib`
`-link -FORCE:MULTIPLE`

445.gobmk: `-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F512000000`
`shlW32M.lib          -link -FORCE:MULTIPLE`

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Peak Optimization Flags (Continued)

456.hmmer: basepeak = yes

458.sjeng: Same as 400.perlbench

462.libquantum: Same as 400.perlbench

464.h264ref: Same as 400.perlbench

C++ benchmarks:

471.omnetpp: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
             -Qcxx-features -F512000000 shlW32M.lib
                        -link -FORCE:MULTIPLE

473.astar: Same as 471.omnetpp

483.xalancbmk: ONESTEP -fast -Qcxx-features -F512000000 shlW32M.lib
                        -link -FORCE:MULTIPLE

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-cpu2006-ic91-flags.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/NEC-cpu2006-ic91-flags.xml

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

Tested with SPEC CPU2006 v1.0.
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