SPEC® CINT2006 Result

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NEC Corporation

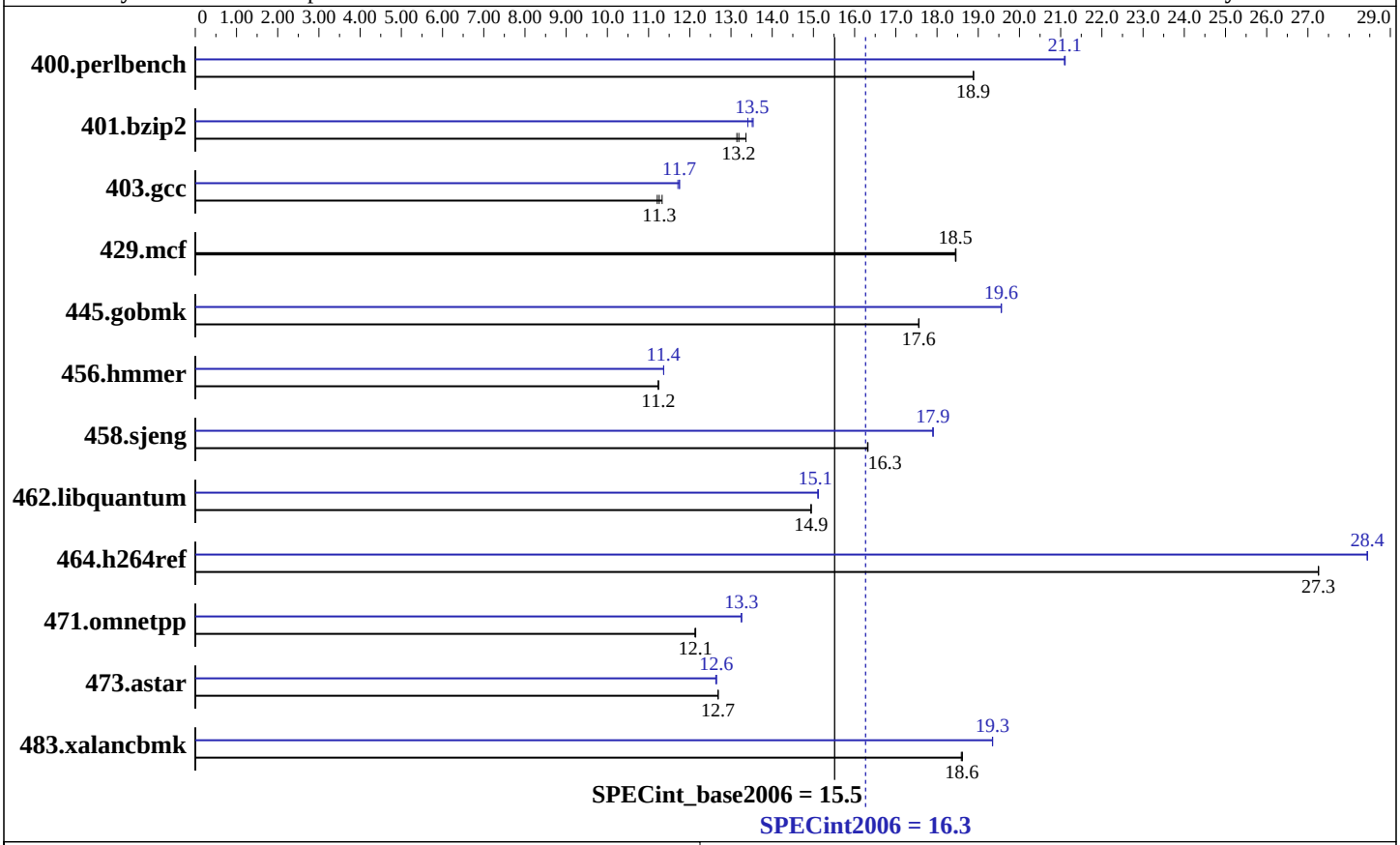
Express5800/120Rg-1
(Intel Xeon processor X5355)

SPECint®2006 = 16.3

SPECint_base2006 = 15.5

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

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



Hardware

CPU Name:	Intel Xeon X5355
CPU Characteristics:	2.66 GHz, 2x4 MB L2 shared, 1333 MHz bus
CPU MHz:	2666
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	8 MB I+D on chip per chip, 4 MB shared / 2 cores
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, Enterprise 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	**517**	**18.9**	517	18.9	517	18.9	**463**	**21.1**	463	21.1	463	21.1
401.bzip2	**732**	**13.2**	734	13.1	722	13.4	720	13.4	**714**	**13.5**	713	13.5
403.gcc	**715**	**11.3**	718	11.2	711	11.3	**685**	**11.7**	685	11.8	687	11.7
429.mcf	494	18.5	494	18.4	**494**	**18.5**	494	18.5	494	18.4	**494**	**18.5**
445.gobmk	598	17.6	597	17.6	**597**	**17.6**	**536**	**19.6**	536	19.6	536	19.6
456.hmmer	**830**	**11.2**	830	11.2	831	11.2	**821**	**11.4**	821	11.4	821	11.4
458.sjeng	742	16.3	741	16.3	**741**	**16.3**	676	17.9	676	17.9	**676**	**17.9**
462.libquantum	1386	14.9	**1387**	**14.9**	1387	14.9	1371	15.1	1372	15.1	**1371**	**15.1**
464.h264ref	812	27.3	812	27.3	**812**	**27.3**	778	28.4	**778**	**28.4**	778	28.4
471.omnetpp	**515**	**12.1**	515	12.1	515	12.1	472	13.3	472	13.3	**472**	**13.3**
473.astar	553	12.7	553	12.7	**553**	**12.7**	555	12.6	**555**	**12.6**	556	12.6
483.xalancbmk	**371**	**18.6**	371	18.6	371	18.6	357	19.3	**357**	**19.3**	357	19.3

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 -Qvc8 -Qc99
```

C++ benchmarks:
```
icl -Qvc8
```

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
```

Continued on next page

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 -Qvc8 -Qc99

C++ benchmarks:
icl -Qvc8

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

401.bzip2: Same as 400.perlbench

403.gcc: Same as 400.perlbench

429.mcf: basepeak = yes

445.gobmk: Same as 400.perlbench

456.hmmer: Same as 400.perlbench

Continued on next page

Peak Optimization Flags (Continued)

458.sjeng: `Same as 400.perlbench`

462.libquantum: `Same as 400.perlbench`

464.h264ref: `Same as 400.perlbench`

C++ benchmarks:
`-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-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`

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