SPEC® CINT2006 Result
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Intel Corporation

Asus P5E3 Premium (Intel Core 2 Extreme QX9770)

SPECint®_rate2006 =   80.5

SPECint_rate_base2006 = 72.1

CPU2006 license: 13   **Test date:** Nov-2007
Test sponsor: Intel Corporation   **Hardware Availability:** Apr-2008
Tested by: Intel Corporation   **Software Availability:** Nov-2007

Copies		

400.perlbench — 4: 99.1 ; 4: 76.0

401.bzip2 — 4: 67.1 ; 4: 64.8

403.gcc — 4: 66.7 ; 4: 67.6

429.mcf — 4: 77.3 ; 4: 78.4

445.gobmk — 4: 92.3 ; 4: 84.9

456.hmmer — 4: 72.9 ; 4: 67.2

458.sjeng — 4: 86.0 ; 4: 76.1

462.libquantum — 1: 113 ; 4: 64.9

464.h264ref — 4: 140 ; 4: 133

471.omnetpp — 4: 49.3 ; 4: 47.4

473.astar — 4: 56.3 ; 4: 52.1

483.xalancbmk — 4: 84.3 ; 4: 81.7

SPECint_rate_base2006 = 72.1

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Hardware

CPU Name: Intel Core 2 Extreme QX9770
CPU Characteristics: 3.20 GHz 1600 FSB
CPU MHz: 3200
FPU: Integrated
CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip
CPU(s) orderable: 1 chip
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 12 MB I+D on chip per chip, 6 MB shared / 2 cores
L3 Cache: None
Other Cache: None
Memory: 4 GB (4x1GB Corsair TWIN3X2048-1333C9DHX DDR3-1333 CL9)
Disk Subsystem: Seagate 320GB NCQ SATA, 16MB cache, 7200 RPM
Other Hardware: None

Software

Operating System: Windows Vista64 Ultimate
Compiler: Intel C++ Compiler for IA32 version 10.1
Build 20070913 Package ID: w_cc_p_10.1.011
Microsoft Visual Studio 2005 SP1 (for libraries)
Auto Parallel: Yes
File System: NTFS
System State: Default
Base Pointers: 32-bit
Peak Pointers: 32-bit
Other Software: SmartHeap Library Version 8.1 from
http://www.microquill.com/

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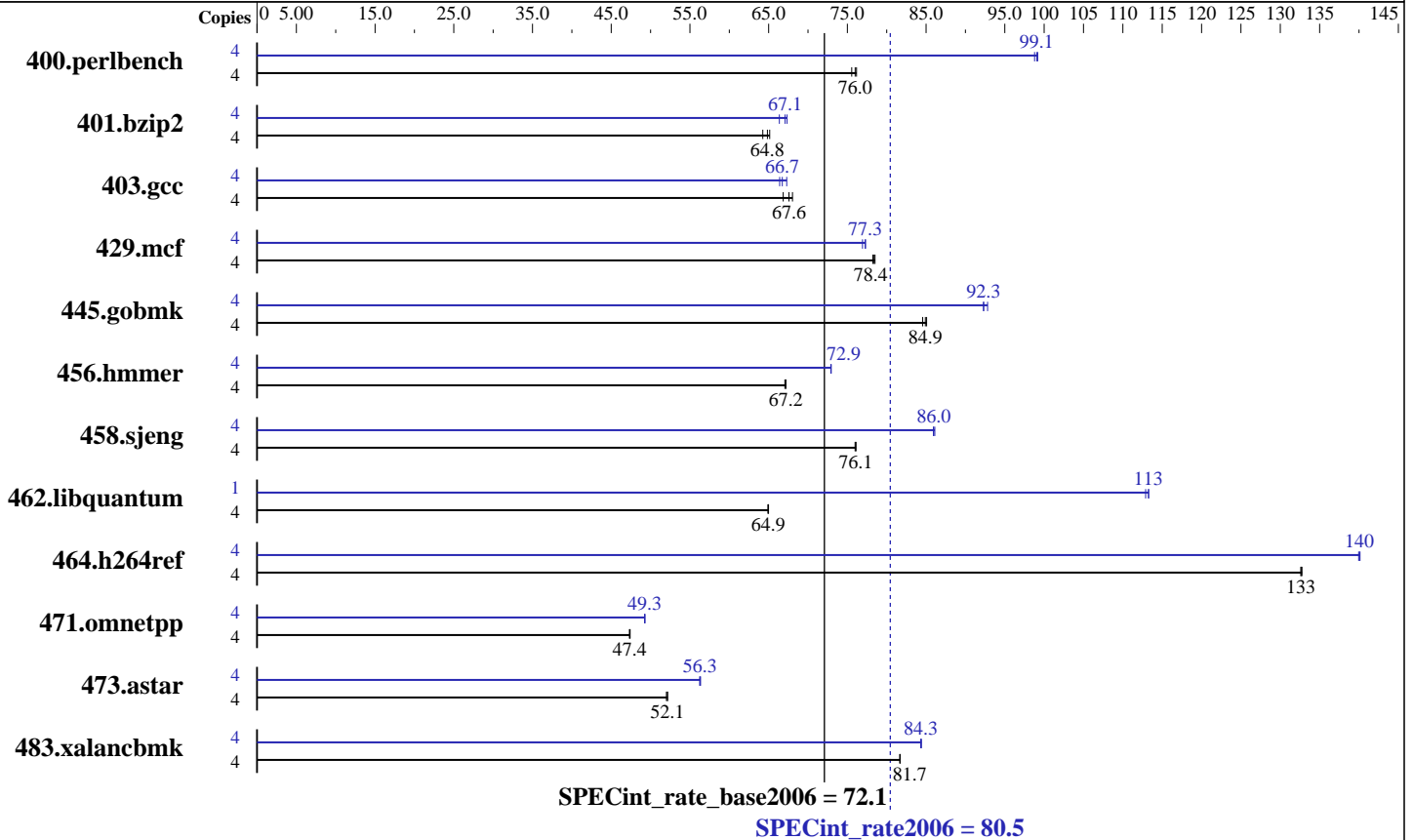SPECint_rate_base2006 = 72.1

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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	4	517	75.6	513	76.2	**514**	**76.0**	4	**395**	**99.1**	394	99.2	396	98.8
401.bzip2	4	**595**	**64.8**	601	64.3	593	65.1	4	582	66.4	**575**	**67.1**	573	67.3
403.gcc	4	473	68.0	482	66.8	**476**	**67.6**	4	485	66.4	**483**	**66.7**	478	67.3
429.mcf	4	465	78.5	**465**	**78.4**	466	78.2	4	474	76.9	**472**	**77.3**	472	77.3
445.gobmk	4	496	84.6	**494**	**84.9**	493	85.1	4	452	92.8	455	92.3	**454**	**92.3**
456.hmmer	4	557	67.1	**556**	**67.2**	556	67.2	4	512	72.9	**512**	**72.9**	512	72.9
458.sjeng	4	636	76.1	637	76.0	**636**	**76.1**	4	562	86.1	563	85.9	**563**	**86.0**
462.libquantum	4	1277	64.9	1275	65.0	**1276**	**64.9**	1	184	113	183	113	**183**	**113**
464.h264ref	4	667	133	**667**	**133**	667	133	4	632	140	632	140	**632**	**140**
471.omnetpp	4	528	47.3	**528**	**47.4**	527	47.4	4	508	49.3	**508**	**49.3**	507	49.3
473.astar	4	540	52.0	538	52.2	**539**	**52.1**	4	498	56.3	499	56.2	**499**	**56.3**
483.xalancbmk	4	338	81.7	**338**	**81.7**	338	81.7	4	**327**	**84.3**	327	84.4	327	84.3

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

General Notes

```
Tested systems can be used with Shin-G ATX case, Antec NeoPower 480W power supply
Product description located as of 9/2008:
http://www.asus.com/products.aspx?modelmenu=1&model=2069&l1=3&l2=11&l3=640&l4=0
The system bus runs at 1600 MHz
System was configured with Asus EN8800GTX discrete graphics card
Binaries were built on Windows Vista32
The following VS 2005 SP1 updates were applied: KB926601 and KB932232
```

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
```

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Base Optimization Flags

C benchmarks:
```
-fast -Qvec-guard-write /F512000000
```

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 -Qansi-alias
        -Qprefetch /F512000000 shlw32m.lib
                -link /FORCE:MULTIPLE

    401.bzip2: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qprefetch
        /F512000000

      403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000

      429.mcf: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qprefetch
        /F512000000 shlw32m.lib               -link /FORCE:MULTIPLE
```

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Peak Optimization Flags (Continued)

445.gobmk: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-QxT -O2 -Qipo`
`-Qprec-div- -Qansi-alias /F512000000`

456.hmmer: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -Qunroll2`
`-Qansi-alias -Qopt-multi-version-aggressive /F512000000`

458.sjeng: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -Qunroll4`
`/F512000000`

462.libquantum: `-fast -Qunroll4 -Ob0 -Qprefetch`
`-Qopt-streaming-stores:always -Qparallel`
`-Qpar-runtime-control /F512000000`

464.h264ref: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -Qunroll2`
`-Qansi-alias /F512000000`

C++ benchmarks:

471.omnetpp: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -Qansi-alias`
`-Qopt-ra-region-strategy=block -Qcxx_features /F512000000`
`shlw32m.lib          -link /FORCE:MULTIPLE`

473.astar: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -Qansi-alias`
`-Qopt-ra-region-strategy=routine -Qcxx_features /F512000000`
`shlw32m.lib          -link /FORCE:MULTIPLE`

483.xalancbmk: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -Qansi-alias`
`-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/Intel-ic10.1-win32-revC.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Intel-ic10.1-win32-revC.xml

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