SPEC® CINT2006 Result
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Dell Inc.

Dell Precision R5400 (Intel Xeon E5450, 3.00 GHz)

$SPECint®2006 =$ 25.0

$SPECint\_base2006 =$ 22.7

CPU2006 license: 55	**Test date:** Jun-2008
Test sponsor: Dell Inc.	**Hardware Availability:** Jul-2008
Tested by: Dell Inc.	**Software Availability:** Mar-2008

Benchmark results chart (scale 0 to 275):

- 400.perlbench: 24.2 / 18.4
- 401.bzip2: 17.0 / 16.4
- 403.gcc: 18.4 / 14.9
- 429.mcf: 21.3
- 445.gobmk: 21.8 / 20.2
- 456.hmmer: 17.1 / 15.8
- 458.sjeng: 19.7 / 17.8
- 462.libquantum: 271 / 249
- 464.h264ref: 33.1 / 31.3
- 471.omnetpp: 15.1 / 13.8
- 473.astar: 16.5 / 14.7
- 483.xalancbmk: 22.2 / 22.1

SPECint_base2006 = 22.7

SPECint2006 = 25.0

Hardware

CPU Name:	Intel Xeon E5450
CPU Characteristics:	1333 MHz Bus Speed
CPU MHz:	3000
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:	12 MB I+D on chip per chip, 6 MB shared / 2 cores
L3 Cache:	None
Other Cache:	None
Memory:	16 GB (4x4 GB 667 MHz CL5 FB-DIMM)
Disk Subsystem:	2 x 320 GB SATA 7200 RPM, RAID0
Other Hardware:	None

Software

Operating System:	Windows Vista Ultimate (64-bit)
Compiler:	Intel C++ Compiler for IA-32, Version 10.1 Build 20080312 Package ID: w_cc_p_10.1.021 Microsoft Visual Studio 2005 SP1
Auto Parallel:	Yes
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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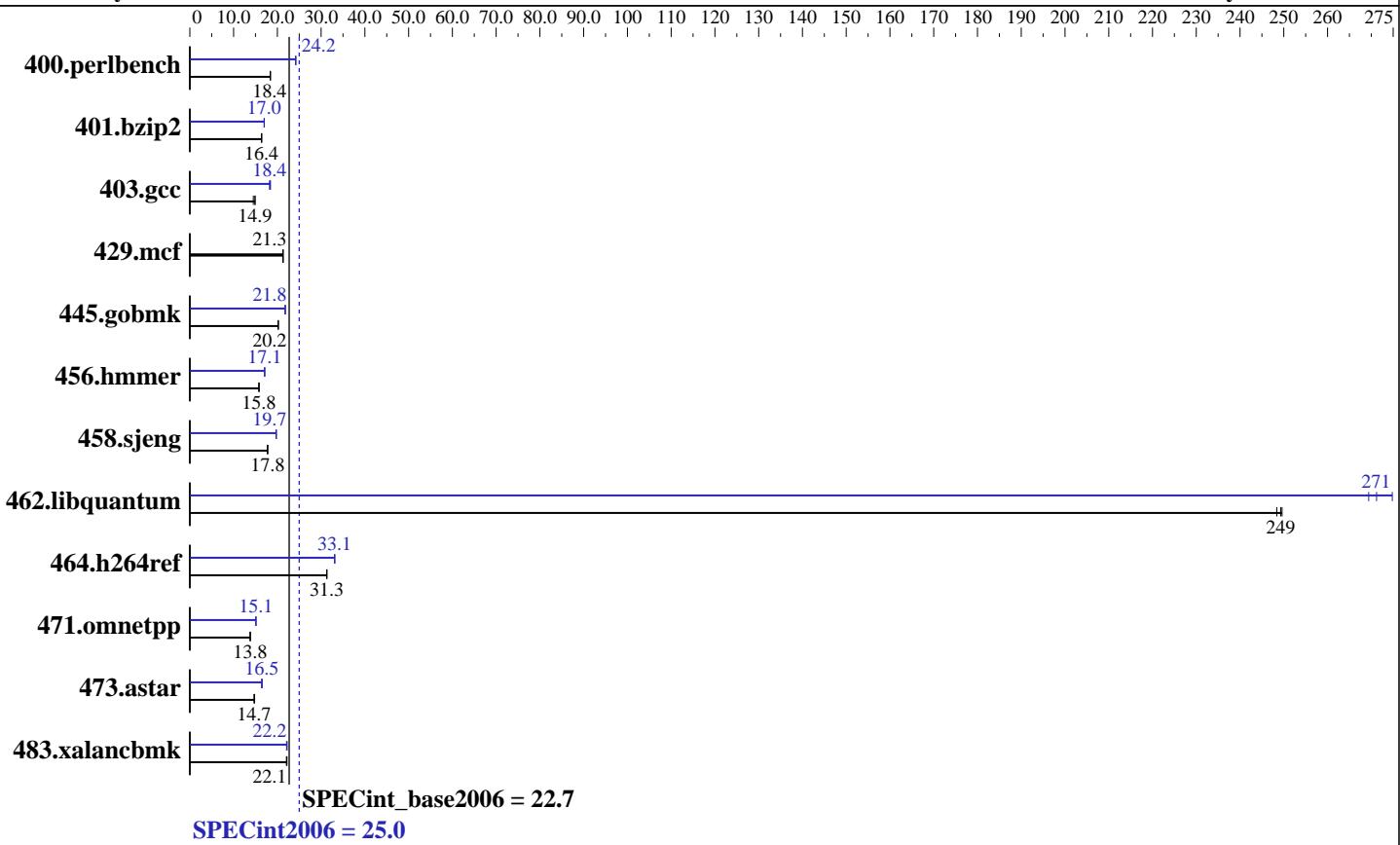SPECint_base2006 = 22.7

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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	531	18.4	**530**	**18.4**	530	18.4	**403**	**24.2**	403	24.2	403	24.2
401.bzip2	588	16.4	**588**	**16.4**	588	16.4	569	17.0	569	17.0	**569**	**17.0**
403.gcc	554	14.5	541	14.9	**541**	**14.9**	**437**	**18.4**	442	18.2	437	18.4
429.mcf	428	21.3	**429**	**21.3**	429	21.3	428	21.3	**429**	**21.3**	429	21.3
445.gobmk	520	20.2	520	20.2	**520**	**20.2**	**482**	**21.8**	482	21.8	481	21.8
456.hmmer	591	15.8	**590**	**15.8**	590	15.8	544	17.1	**544**	**17.1**	545	17.1
458.sjeng	**681**	**17.8**	682	17.7	681	17.8	613	19.7	**613**	**19.7**	612	19.8
462.libquantum	83.4	248	**83.1**	**249**	83.0	250	**76.4**	**271**	76.9	269	75.4	275
464.h264ref	707	31.3	708	31.3	**707**	**31.3**	**668**	**33.1**	668	33.1	668	33.1
471.omnetpp	452	13.8	453	13.8	**452**	**13.8**	413	15.1	414	15.1	**413**	**15.1**
473.astar	475	14.8	**476**	**14.7**	476	14.7	426	16.5	427	16.4	**427**	**16.5**
483.xalancbmk	311	22.2	313	22.1	**312**	**22.1**	**312**	**22.2**	312	22.1	311	22.2

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

General Notes

    Binaries were built on Windows Vista Ultimate (64-bit)

Base Compiler Invocation

C benchmarks:
    icl -Qstd=c99

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 -Qparallel -Qpar-runtime-control -Qvec-guard-write /F512000000
    libguide40.lib

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Base Optimization Flags (Continued)

C++ benchmarks:
```
-fast -Qcxx_features /F512000000 shlw32m.lib libguide40.lib
        -link /FORCE:MULTIPLE
```

Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks:
```
icl -Qstd=c99
```

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: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
          -Qprefetch -Qparallel -Qpar-runtime-control /F512000000
          shlw32m.lib libguide40.lib   -link /FORCE:MULTIPLE

401.bzip2: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qprefetch
          /F512000000 libguide40.lib

403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
          libguide40.lib

429.mcf: basepeak = yes

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

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Peak Optimization Flags (Continued)

456.hmmer: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2
-Qansi-alias -Qopt-multi-version-aggressive /F512000000
libguide40.lib

458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4
/F512000000 libguide40.lib

462.libquantum: -fast -Qunroll4 -Ob0 -Qprefetch
-Qopt-streaming-stores:always -Qparallel
-Qpar-runtime-control /F512000000 libguide40.lib

464.h264ref: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2
-Qansi-alias /F512000000 libguide40.lib

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 libguide40.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 libguide40.lib   -link /FORCE:MULTIPLE

483.xalancbmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qcxx_features /F512000000 shlw32m.lib libguide40.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/dell.ic10.1.windows.flags.20090713.00.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/dell.ic10.1.windows.flags.20090713.00.xml

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