SPEC® CINT2006 Result

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Dell Inc.

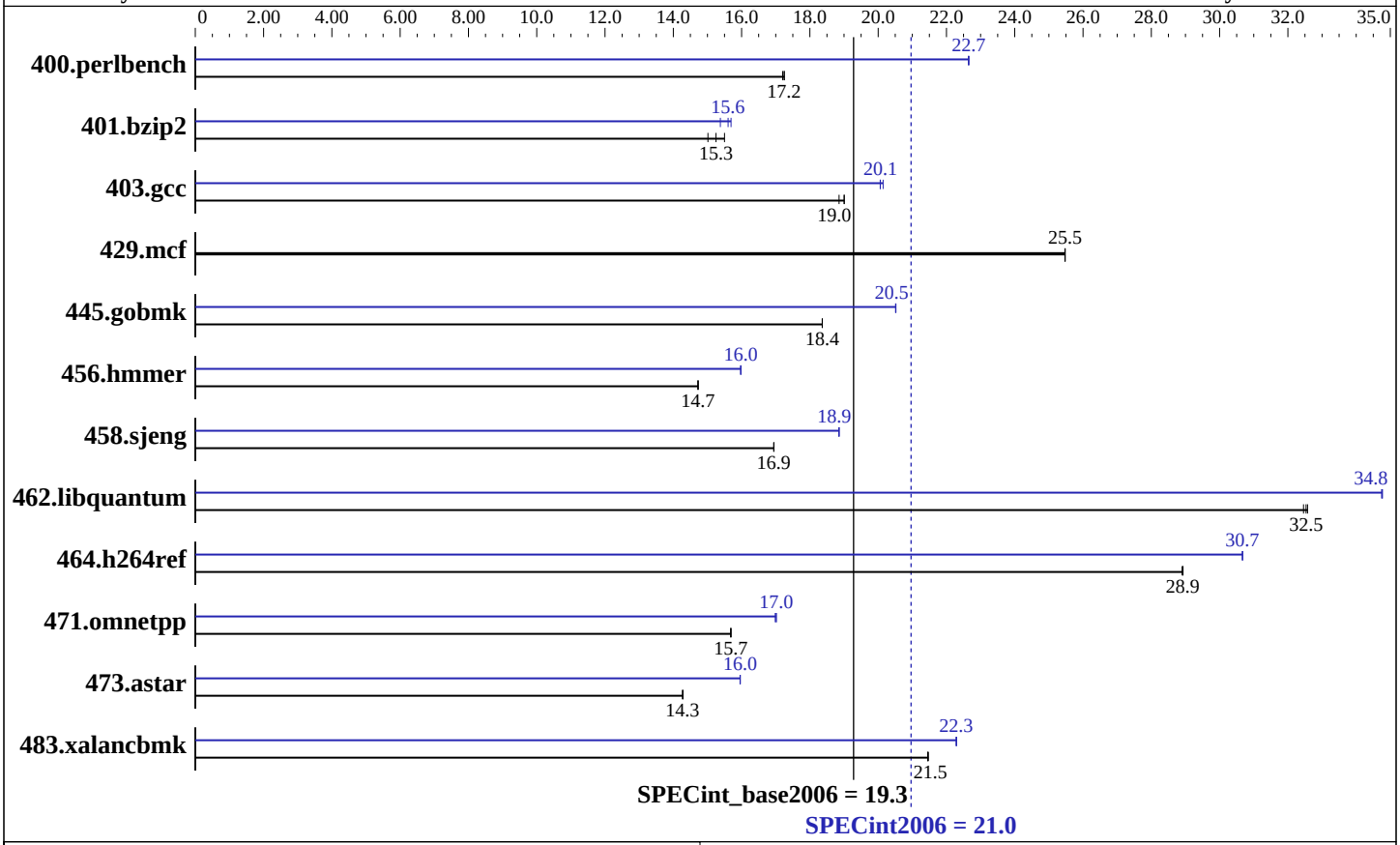
Dell Precision M6300 (Intel X9000, 2.80 GHz)

SPECint®2006 = 21.0

SPECint_base2006 = 19.3

CPU2006 license: 55
Test sponsor: Dell Inc.
Tested by: Dell Inc.

Test date: Apr-2008
Hardware Availability: Mar-2008
Software Availability: Mar-2008



Hardware

CPU Name:	Intel Core 2 Extreme X9000
CPU Characteristics:	800 MHz Bus Speed
CPU MHz:	2800
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:	6 MB I+D on chip per chip
L3 Cache:	None
Other Cache:	None
Memory:	4 GB (2x2 GB 667 MHz CL5 DDR2)
Disk Subsystem:	1 x 120GB SATA 7200 RPM
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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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	568	17.2	**567**	**17.2**	566	17.3	431	22.7	**431**	**22.7**	431	22.6
401.bzip2	623	15.5	643	15.0	**633**	**15.3**	628	15.4	615	15.7	**618**	**15.6**
403.gcc	**424**	**19.0**	423	19.0	427	18.9	**401**	**20.1**	401	20.1	400	20.1
429.mcf	358	25.5	**358**	**25.5**	358	25.5	358	25.5	**358**	**25.5**	358	25.5
445.gobmk	571	18.4	571	18.4	**571**	**18.4**	**511**	**20.5**	511	20.5	511	20.5
456.hmmer	634	14.7	634	14.7	**634**	**14.7**	584	16.0	**584**	**16.0**	584	16.0
458.sjeng	**714**	**16.9**	714	16.9	714	16.9	642	18.9	642	18.9	**642**	**18.9**
462.libquantum	636	32.6	638	32.5	**637**	**32.5**	**596**	**34.8**	596	34.7	596	34.8
464.h264ref	766	28.9	**765**	**28.9**	765	28.9	722	30.7	**722**	**30.7**	722	30.7
471.omnetpp	399	15.7	398	15.7	**398**	**15.7**	**367**	**17.0**	368	17.0	367	17.0
473.astar	492	14.3	**492**	**14.3**	492	14.3	440	16.0	**440**	**16.0**	440	16.0
483.xalancbmk	**322**	**21.5**	322	21.5	321	21.5	310	22.3	309	22.3	**310**	**22.3**

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

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
```

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`

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`

Continued on next page

Peak Optimization Flags (Continued)

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.20090714.00.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.20090714.00.xml`

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