SPEC® CINT2006 Result

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Dell Inc.

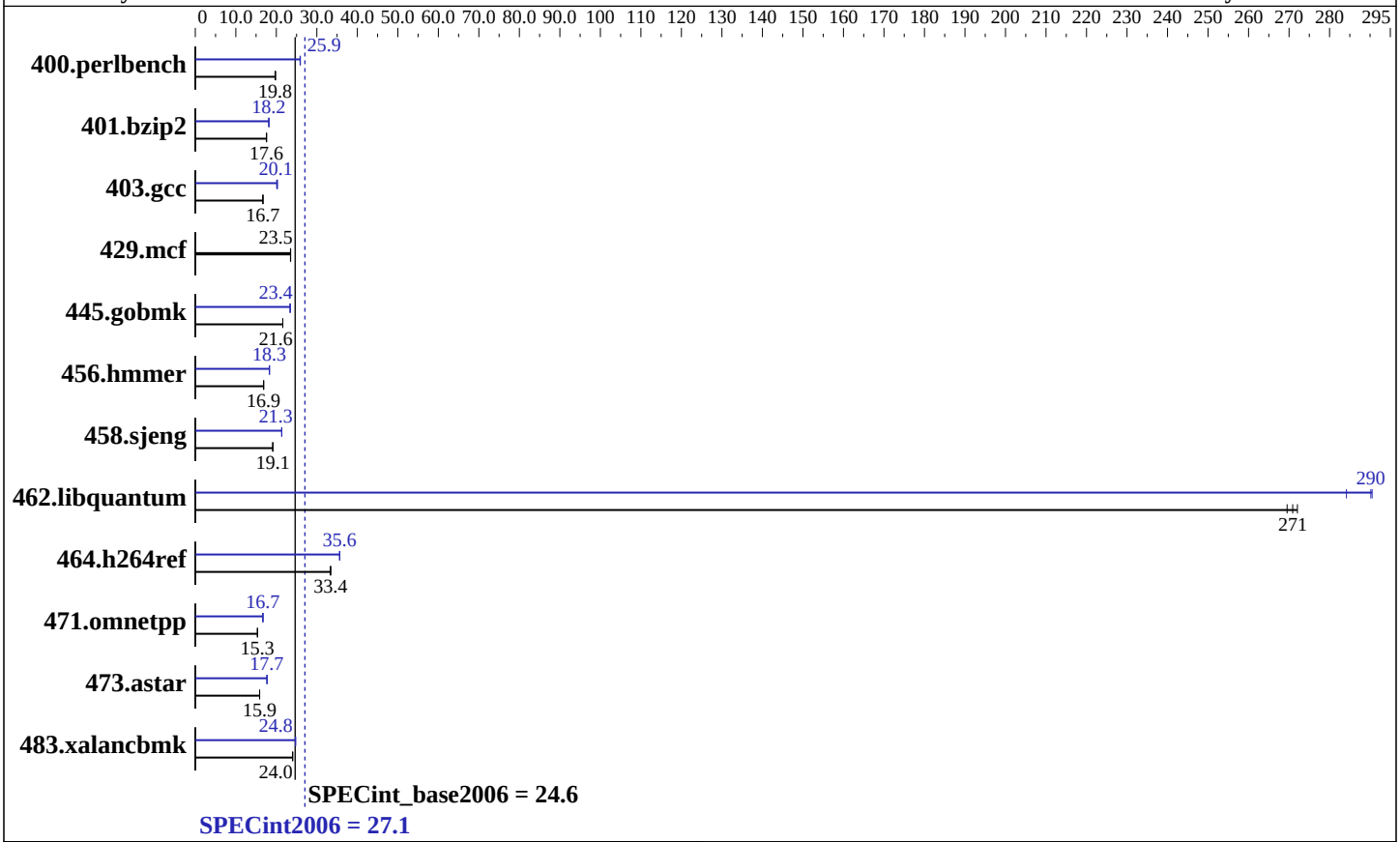
Dell Precision T7400 (Intel Xeon X5482, 3.20 GHz)

SPECint®2006 = 27.1

SPECint_base2006 = 24.6

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

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



Hardware

CPU Name:	Intel Xeon X5482
CPU Characteristics:	1600 MHz Bus Speed
CPU MHz:	3200
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 (8x2 GB 800 MHz CL5 FB-DIMM)
Disk Subsystem:	1 x 160 GB 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	**494**	**19.8**	495	19.8	494	19.8	377	25.9	378	25.9	**377**	**25.9**
401.bzip2	549	17.6	549	17.6	**549**	**17.6**	**531**	**18.2**	531	18.2	531	18.2
403.gcc	482	16.7	**483**	**16.7**	483	16.7	400	20.1	397	20.3	**400**	**20.1**
429.mcf	**388**	**23.5**	387	23.5	388	23.5	**388**	**23.5**	387	23.5	388	23.5
445.gobmk	486	21.6	**486**	**21.6**	486	21.6	**448**	**23.4**	448	23.4	448	23.4
456.hmmer	553	16.9	553	16.9	**553**	**16.9**	510	18.3	510	18.3	**510**	**18.3**
458.sjeng	632	19.1	**632**	**19.1**	632	19.1	567	21.3	567	21.3	**567**	**21.3**
462.libquantum	**76.5**	**271**	76.2	272	76.9	270	**71.4**	**290**	72.9	284	71.3	291
464.h264ref	662	33.4	664	33.3	**662**	**33.4**	621	35.6	**621**	**35.6**	621	35.6
471.omnetpp	408	15.3	**407**	**15.3**	407	15.4	375	16.7	**374**	**16.7**	374	16.7
473.astar	**442**	**15.9**	442	15.9	442	15.9	397	17.7	396	17.7	**397**	**17.7**
483.xalancbmk	**287**	**24.0**	287	24.0	287	24.0	**279**	**24.8**	279	24.7	279	24.8

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.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.xml`

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