SPEC® CINT2006 Result
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Intel Corporation
Lenovo Thinkpad T61

SPECint®2006 = 19.3
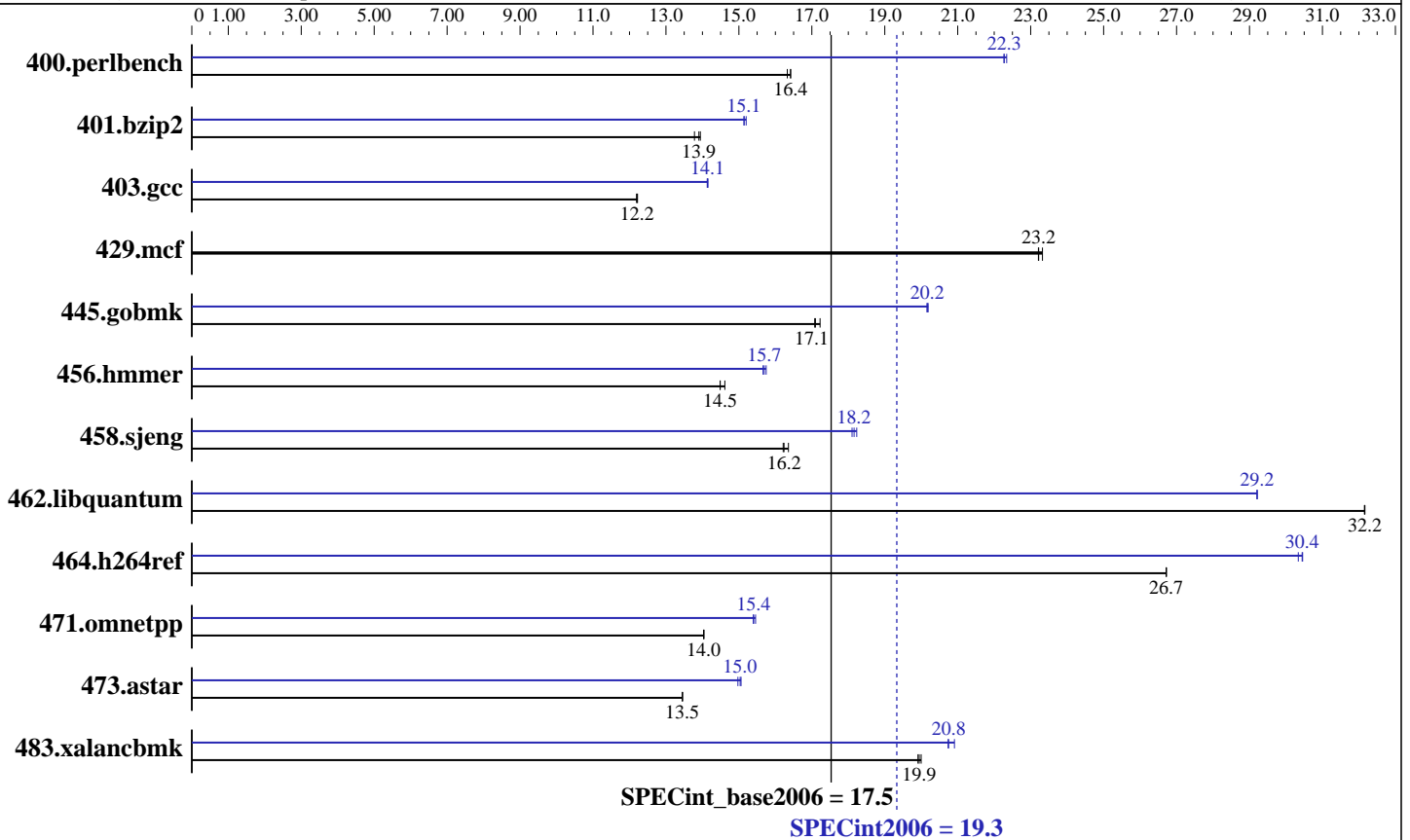
SPECint_base2006 = 17.5

CPU2006 license: 13
Test sponsor: Intel Corporation
Tested by: Intel Corporation

Test date: Aug-2008
Hardware Availability: Sep-2007
Software Availability: Nov-2007

Benchmark	Peak	Base
400.perlbench	22.3	16.4
401.bzip2	15.1	13.9
403.gcc	14.1	12.2
429.mcf	23.2	
445.gobmk	20.2	17.1
456.hmmer	15.7	14.5
458.sjeng	18.2	16.2
462.libquantum	29.2	32.2
464.h264ref	30.4	26.7
471.omnetpp	15.4	14.0
473.astar	15.0	13.5
483.xalancbmk	20.8	19.9

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Hardware

CPU Name:	Intel Core 2 Duo T7800
CPU Characteristics:	
CPU MHz:	2600
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:	4 MB I+D on chip per chip
L3 Cache:	None
Other Cache:	None
Memory:	2 GB (2x1GB Micron PC2-6400 DDR2-800 CL5)
Disk Subsystem:	Hitachi Travelstar HTS721010G9SA00 SATA 100GB 7200RPM
Other Hardware:	None

Software

Operating System:	Windows XP Professional SP2
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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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	595	16.4	598	16.3	**595**	**16.4**	437	22.3	**439**	**22.3**	439	22.3
401.bzip2	700	13.8	692	13.9	**694**	**13.9**	635	15.2	637	15.1	**637**	**15.1**
403.gcc	660	12.2	659	12.2	**659**	**12.2**	569	14.2	570	14.1	**569**	**14.1**
429.mcf	**393**	**23.2**	393	23.2	391	23.3	**393**	**23.2**	393	23.2	391	23.3
445.gobmk	609	17.2	614	17.1	**614**	**17.1**	**520**	**20.2**	520	20.2	520	20.2
456.hmmer	638	14.6	**644**	**14.5**	644	14.5	**594**	**15.7**	596	15.7	592	15.7
458.sjeng	740	16.4	**745**	**16.2**	746	16.2	**666**	**18.2**	664	18.2	668	18.1
462.libquantum	644	32.2	**644**	**32.2**	644	32.2	709	29.2	**709**	**29.2**	709	29.2
464.h264ref	828	26.7	**828**	**26.7**	828	26.7	**727**	**30.4**	727	30.5	729	30.3
471.omnetpp	445	14.0	445	14.0	**445**	**14.0**	406	15.4	**406**	**15.4**	404	15.5
473.astar	**522**	**13.5**	522	13.4	522	13.5	466	15.1	**467**	**15.0**	469	15.0
483.xalancbmk	345	20.0	**346**	**19.9**	347	19.9	333	20.7	**333**	**20.8**	330	20.9

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

General Notes

    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

Base Optimization Flags

C benchmarks:
      -fast -Qparallel -Qpar-runtime-control -Qvec-guard-write /F512000000
      libguide40.lib

Continued on next page

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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 -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 -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/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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For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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