SPEC® CINT2006 Result

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Fujitsu

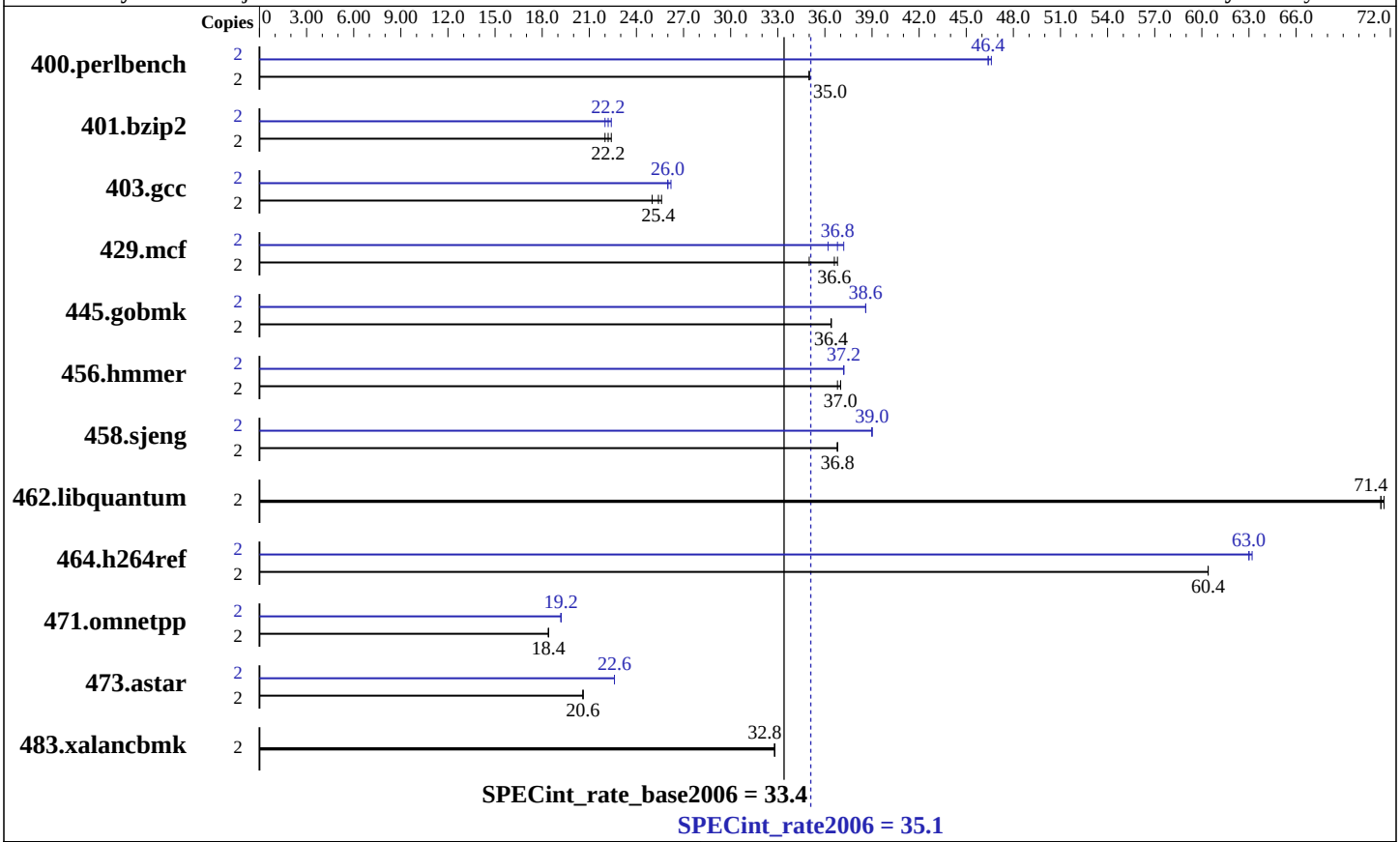
ESPRIMO E3520, Intel Core 2 Duo E7400

SPECint®_rate2006 = 35.1

SPECint_rate_base2006 = 33.4

CPU2006 license: 19
Test sponsor: Fujitsu
Tested by: Fujitsu

Test date: Jul-2009
Hardware Availability: Apr-2009
Software Availability: May-2009



Hardware

CPU Name:	Intel Core 2 Duo E7400
CPU Characteristics:	
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:	3 MB I+D on chip per chip
L3 Cache:	None
Other Cache:	None
Memory:	2 GB (1x2 GB PC2-6400U-666-12 SDRAM)
Disk Subsystem:	1 x 250 GB SATA 7200 RPM
Other Hardware:	None

Software

Operating System:	Windows Vista Business w/ SP1 (64-bit)
Compiler:	Intel C++ Compiler Professional 11.1 for IA32 Build 20090511 Package ID: w_cproc_p_11.1.035 Microsoft Visual Studio 2008 w/ SP1 (for libraries)
Auto Parallel:	No
File System:	NTFS
System State:	Default
Base Pointers:	32-bit
Peak Pointers:	32-bit
Other Software:	SmartHeap Library Version 9.01 from http://www.microquill.com/

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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	2	558	35.0	559	35.0	**558**	**35.0**	2	420	46.6	421	46.4	**421**	**46.4**
401.bzip2	2	861	22.4	**868**	**22.2**	877	22.0	2	878	22.0	862	22.4	**868**	**22.2**
403.gcc	2	630	25.6	646	25.0	**636**	**25.4**	2	617	26.2	620	26.0	**617**	**26.0**
429.mcf	2	497	36.8	520	35.0	**499**	**36.6**	2	503	36.2	490	37.2	**496**	**36.8**
445.gobmk	2	575	36.4	**575**	**36.4**	575	36.4	2	544	38.6	544	38.6	**544**	**38.6**
456.hmmer	2	506	36.8	**505**	**37.0**	505	37.0	2	**501**	**37.2**	500	37.2	501	37.2
458.sjeng	2	656	36.8	**656**	**36.8**	657	36.8	2	620	39.0	621	39.0	**620**	**39.0**
462.libquantum	2	**580**	**71.4**	581	71.4	578	71.6	2	**580**	**71.4**	581	71.4	578	71.6
464.h264ref	2	733	60.4	**734**	**60.4**	734	60.4	2	701	63.2	703	63.0	**703**	**63.0**
471.omnetpp	2	**677**	**18.4**	676	18.4	677	18.4	2	650	19.2	650	19.2	**650**	**19.2**
473.astar	2	681	20.6	680	20.6	**680**	**20.6**	2	624	22.6	623	22.6	**623**	**22.6**
483.xalancbmk	2	420	32.8	421	32.8	**421**	**32.8**	2	420	32.8	421	32.8	**421**	**32.8**

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

Submit Notes

```
The config file option 'submit' was used.
'start /b /wait /affinity' command is used to bind CPU(s) to processors.
```

Operating System Notes

```
Screen Saver was disabled
Power scheme was modified to Always On; Turn off monitor: Never; Turn off hard disks: Never
```

Platform Notes

```
BIOS default settings have been used.
```

Base Compiler Invocation

C benchmarks:

```
icl -Qvc9 -Qc99
```

C++ benchmarks:

```
icl -Qvc9
```

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:
`-QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch /F512000000`

C++ benchmarks:
`-QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qcxx-features /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

Base Other Flags

C benchmarks:

403.gcc: `-Dalloca=_alloca`

Peak Compiler Invocation

C benchmarks:
`icl -Qvc9 -Qc99`

C++ benchmarks:
`icl -Qvc9`

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: `-QxSSE4.1`(pass 2) `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-Qipo -O3 -Qprec-div- -Qansi-alias -Qopt-prefetch /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

Continued on next page

Peak Optimization Flags (Continued)

401.bzip2: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qansi-alias /F512000000

403.gcc: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qopt-prefetch /F512000000

429.mcf: -QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch /F512000000

445.gobmk: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo -O2 -Qprec-div- -Qansi-alias /F512000000

456.hmmer: -QxSSE4.1 -Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias /F512000000

458.sjeng: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qunroll4 /F512000000

462.libquantum: basepeak = yes

464.h264ref: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias /F512000000

C++ benchmarks:

471.omnetpp: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qansi-alias -Qopt-ra-region-strategy=block /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

473.astar: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qansi-alias -Qopt-ra-region-strategy=routine /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

483.xalancbmk: basepeak = yes

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-ic11.0-win32-revA.20090901.html

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/Intel-ic11.0-win32-revA.20090901.xml`

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For other inquiries, please contact webmaster@spec.org.

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