SPEC® CINT2006 Result

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Acer Incorporated

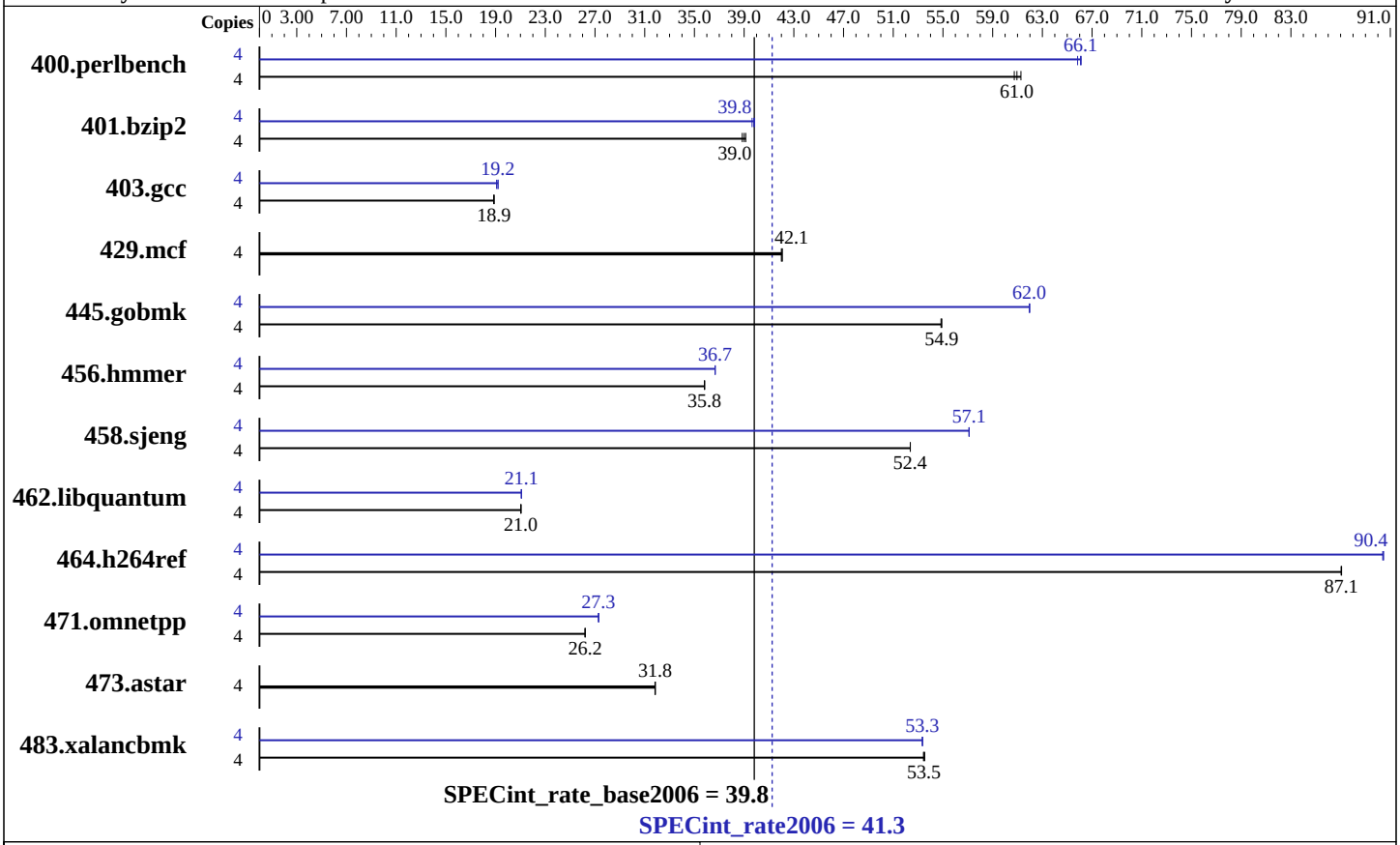
Acer Altos G330 (Intel Xeon X3210, 2.13 GHz)

SPECint®_rate2006 = 41.3

SPECint_rate_base2006 = 39.8

CPU2006 license: 97
Test sponsor: Acer Incorporated
Tested by: Acer Incorporated

Test date: Mar-2007
Hardware Availability: Nov-2006
Software Availability: Jul-2006



Hardware

CPU Name:	Intel Xeon X3210
CPU Characteristics:	1066MHz system bus
CPU MHz:	2133
FPU:	Integrated
CPU(s) enabled:	4 cores, 1 chip, 4 cores/chip
CPU(s) orderable:	1 chip
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	8 MB I+D on chip per chip, 4 MB shared / 2 cores
L3 Cache:	None
Other Cache:	None
Memory:	4 GB (4 x 1024MB ECC DDR2-667 CL5-5-5)
Disk Subsystem:	1 x 80GB 10000RPM SATA HDD
Other Hardware:	None

Software

Operating System:	Microsoft Windows Server 2003 Enterprise Edition (Build 3790), Service Pack 1
Compiler:	Intel C++ Compiler for IA32 version 9.1 Package ID W_CC_C_9.1.028 Build 20060706Z Microsoft Visual Studio 2003 .Net (libr. & linker)
Auto Parallel:	No
File System:	NTFS
System State:	Default
Base Pointers:	32-bit
Peak Pointers:	32-bit
Other Software:	MicroQuill Smart Heap Library, Version 7.4

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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	4	638	61.3	643	60.7	**641**	**61.0**	4	594	65.8	591	66.1	**592**	**66.1**
401.bzip2	4	994	38.8	**990**	**39.0**	986	39.1	4	969	39.8	974	39.6	**970**	**39.8**
403.gcc	4	**1706**	**18.9**	1708	18.8	1706	18.9	4	**1678**	**19.2**	1677	19.2	1688	19.1
429.mcf	4	**867**	**42.1**	869	42.0	867	42.1	4	**867**	**42.1**	869	42.0	867	42.1
445.gobmk	4	764	54.9	**764**	**54.9**	765	54.8	4	677	62.0	**677**	**62.0**	677	62.0
456.hmmer	4	**1042**	**35.8**	1042	35.8	1042	35.8	4	1018	36.7	1017	36.7	**1018**	**36.7**
458.sjeng	4	**924**	**52.4**	924	52.4	924	52.4	4	848	57.1	**848**	**57.1**	848	57.1
462.libquantum	4	3936	21.1	**3941**	**21.0**	3943	21.0	4	3933	21.1	3931	21.1	**3933**	**21.1**
464.h264ref	4	**1017**	**87.1**	1017	87.0	1017	87.1	4	979	90.5	**979**	**90.4**	979	90.4
471.omnetpp	4	954	26.2	953	26.2	**954**	**26.2**	4	915	27.3	**916**	**27.3**	917	27.3
473.astar	4	881	31.9	882	31.8	**882**	**31.8**	4	881	31.9	882	31.8	**882**	**31.8**
483.xalancbmk	4	517	53.4	**516**	**53.5**	516	53.5	4	517	53.4	517	53.3	**517**	**53.3**

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

General Notes

Base Compiler Invocation

C benchmarks:

```
icl -Qvc7.1 -Qc99
```

C++ benchmarks:

```
icl -Qvc7.1
```

Base Portability Flags

403.gcc: `-DSPEC_CPU_WIN32`
464.h264ref: `-DSPEC_CPU_NO_INTTYPES -DWIN32`

Base Optimization Flags

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

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

Base Other Flags

C benchmarks:

403.gcc: `-Dalloca=_alloca`

Peak Compiler Invocation

C benchmarks:
```
icl -Qvc7.1 -Qc99
```

C++ benchmarks:
```
icl -Qvc7.1
```

Peak Portability Flags

403.gcc: `-DSPEC_CPU_WIN32`
464.h264ref: `-DSPEC_CPU_NO_INTTYPES -DWIN32`

Peak Optimization Flags

C benchmarks:

400.perlbench: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast /F512000000 shlw32m.lib -link /FORCE:MULTIPLE`

401.bzip2: Same as 400.perlbench

403.gcc: Same as 400.perlbench

429.mcf: basepeak = yes

445.gobmk: Same as 400.perlbench

Continued on next page

Peak Optimization Flags (Continued)

456.hmmer: Same as 400.perlbench

458.sjeng: Same as 400.perlbench

462.libquantum: Same as 400.perlbench

464.h264ref: Same as 400.perlbench

C++ benchmarks:

471.omnetpp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx_features /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

473.astar: basepeak = yes

483.xalancbmk: Same as 471.omnetpp

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/Acer-CPU2006-ic91-flags.20090714.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Acer-CPU2006-ic91-flags.20090714.xml

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