SPEC® CINT2006 Result

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Acer Incorporated

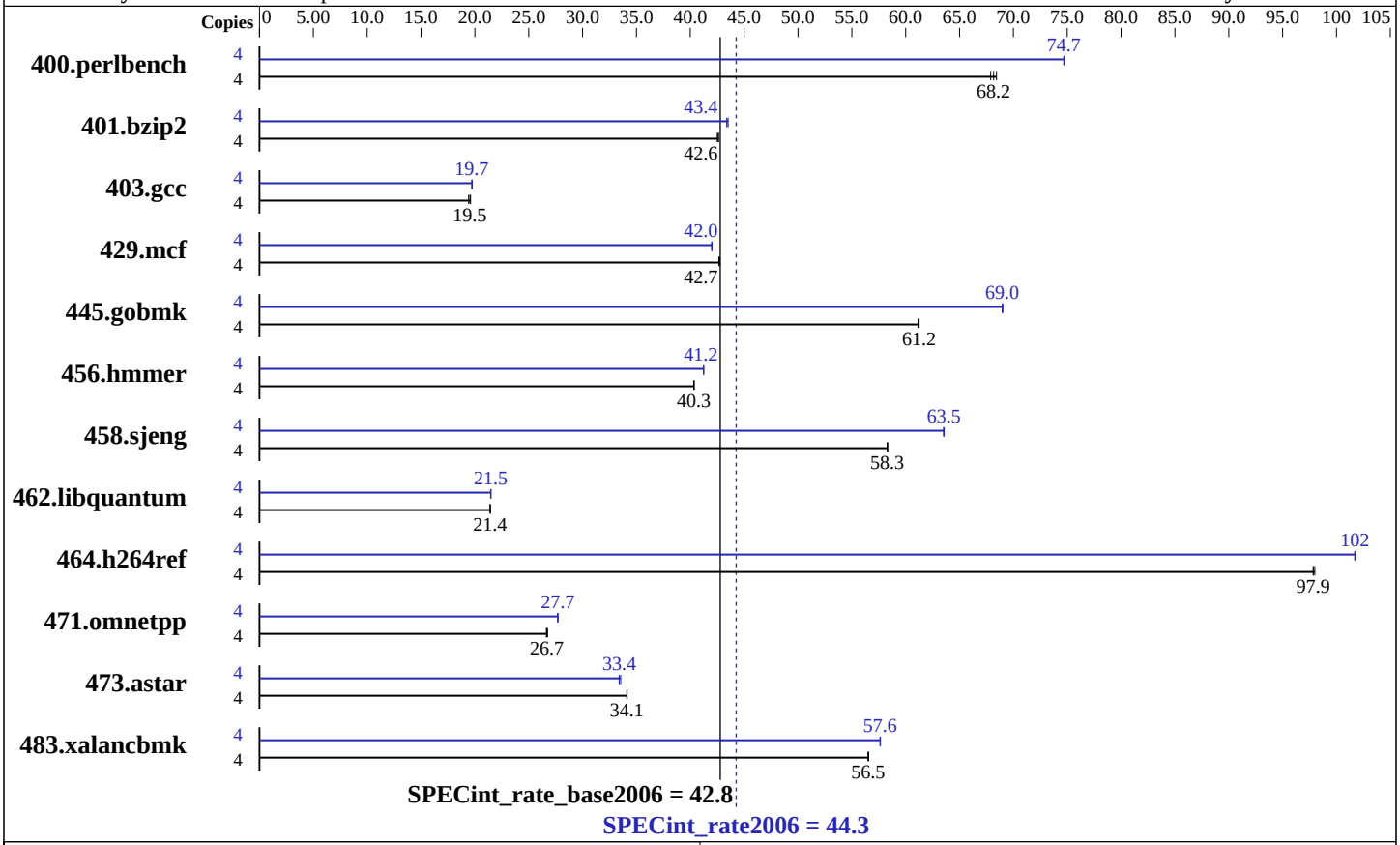
Acer Altos G330 (Intel Xeon X3220, 2.4 GHz)

SPECint®_rate2006 = 44.3

SPECint_rate_base2006 = 42.8

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

Test date: Feb-2007
Hardware Availability: Jan-2006
Software Availability: Jul-2006



Hardware

CPU Name:	Intel Xeon X3220
CPU Characteristics:	1066MHz system bus
CPU MHz:	2400
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	571	68.4	576	67.9	**573**	**68.2**	4	523	74.7	**523**	**74.7**	523	74.7
401.bzip2	4	**906**	**42.6**	906	42.6	908	42.5	4	887	43.5	889	43.4	**889**	**43.4**
403.gcc	4	1643	19.6	**1648**	**19.5**	1658	19.4	4	**1632**	**19.7**	1633	19.7	1630	19.8
429.mcf	4	854	42.7	**855**	**42.7**	855	42.7	4	869	42.0	868	42.0	**869**	**42.0**
445.gobmk	4	**685**	**61.2**	686	61.1	685	61.2	4	608	69.0	**608**	**69.0**	609	69.0
456.hmmer	4	925	40.3	925	40.3	**925**	**40.3**	4	905	41.2	905	41.2	**905**	**41.2**
458.sjeng	4	**830**	**58.3**	830	58.3	830	58.3	4	**762**	**63.5**	761	63.6	762	63.5
462.libquantum	4	**3869**	**21.4**	3869	21.4	3868	21.4	4	3854	21.5	3862	21.5	**3860**	**21.5**
464.h264ref	4	903	98.0	905	97.8	**905**	**97.9**	4	870	102	**870**	**102**	870	102
471.omnetpp	4	938	26.6	935	26.8	**937**	**26.7**	4	903	27.7	902	27.7	**903**	**27.7**
473.astar	4	**823**	**34.1**	823	34.1	823	34.1	4	837	33.5	841	33.4	**840**	**33.4**
483.xalancbmk	4	488	56.5	**488**	**56.5**	488	56.6	4	479	57.6	479	57.7	**479**	**57.6**

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

C++ benchmarks:
```
-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx_features
/F512000000 shlw32m.lib            -link /FORCE:MULTIPLE
```

Peak Other Flags

C benchmarks:

Continued on next page

Peak Other Flags (Continued)

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

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