SPEC® CINT2006 Result
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Acer Incorporated

Acer Altos R720 (Intel Xeon E5335)

SPECint®_rate2006 =   45.0

SPECint_rate_base2006 = 41.4
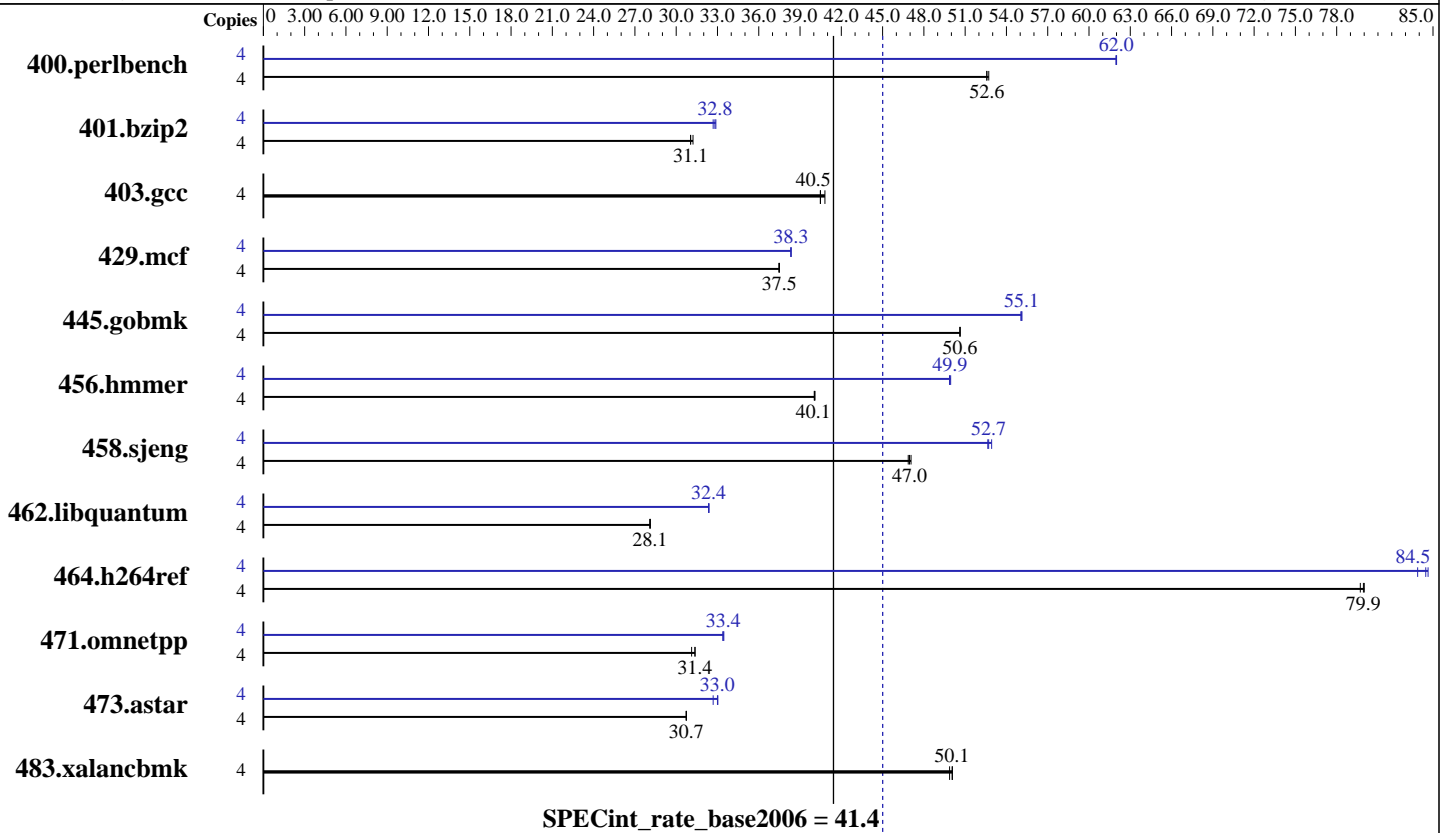
CPU2006 license: 97

Test sponsor: Acer Incorporated

Tested by: Acer Incorporated

Test date: Jul-2007

Hardware Availability: Nov-2006

Software Availability: Jun-2007

Copies 0 3.00 6.00 9.00 12.0 15.0 18.0 21.0 24.0 27.0 30.0 33.0 36.0 39.0 42.0 45.0 48.0 51.0 54.0 57.0 60.0 63.0 66.0 69.0 72.0 75.0 78.0 85.0

Benchmark	Copies	Peak	Base
400.perlbench	4 / 4	62.0	52.6
401.bzip2	4 / 4	32.8	31.1
403.gcc	4		40.5
429.mcf	4 / 4	38.3	37.5
445.gobmk	4 / 4	55.1	50.6
456.hmmer	4 / 4	49.9	40.1
458.sjeng	4 / 4	52.7	47.0
462.libquantum	4 / 4	32.4	28.1
464.h264ref	4 / 4	84.5	79.9
471.omnetpp	4 / 4	33.4	31.4
473.astar	4 / 4	33.0	30.7
483.xalancbmk	4		50.1

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Hardware

CPU Name: Intel Xeon E5335

CPU Characteristics: 1333MHz system bus

CPU MHz: 2000

FPU: Integrated

CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip

CPU(s) orderable: 1, 2 chips

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: 16 GB (8 x 2048MB ECC FB-DIMM DDR2-667 CL5-5-5)

Disk Subsystem: 1 x 73GB 10000RPM SAS HDD

Other Hardware: None

Software

Operating System: SuSE Linux Enterprise Server 10 EM64T (kernel 2.6.16.21-0.8-smp)

Compiler: Intel C++ Compiler for Linux32 version 10.0 Build 20070426 Package ID: l_cc_p_10.0.023

Auto Parallel: No

File System: ReiserFS

System State: Default

Base Pointers: 32-bit

Peak Pointers: 32-bit

Other Software: None

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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	741	52.7	**743**	**52.6**	743	52.6	4	630	62.0	**630**	**62.0**	631	62.0
401.bzip2	4	1243	31.0	1236	31.2	**1243**	**31.1**	4	1174	32.9	1181	32.7	**1176**	**32.8**
403.gcc	4	796	40.5	789	40.8	**795**	**40.5**	4	796	40.5	789	40.8	**795**	**40.5**
429.mcf	4	974	37.5	973	37.5	**973**	**37.5**	4	951	38.3	952	38.3	**951**	**38.3**
445.gobmk	4	829	50.6	829	50.6	**829**	**50.6**	4	762	55.0	761	55.1	**761**	**55.1**
456.hmmer	4	931	40.1	932	40.0	**932**	**40.1**	4	748	49.9	747	49.9	**748**	**49.9**
458.sjeng	4	**1031**	**47.0**	1028	47.1	1033	46.9	4	914	52.9	**918**	**52.7**	919	52.6
462.libquantum	4	2947	28.1	**2950**	**28.1**	2951	28.1	4	2560	32.4	2561	32.4	**2561**	**32.4**
464.h264ref	4	1106	80.0	**1107**	**79.9**	1110	79.7	4	**1048**	**84.5**	1046	84.6	1055	83.9
471.omnetpp	4	803	31.1	**797**	**31.4**	797	31.4	4	747	33.5	749	33.4	**748**	**33.4**
473.astar	4	**914**	**30.7**	914	30.7	914	30.7	4	859	32.7	850	33.0	**851**	**33.0**
483.xalancbmk	4	**551**	**50.1**	551	50.1	553	49.9	4	**551**	**50.1**	551	50.1	553	49.9

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

General Notes

This result was measured on the Acer Altos R520
The Altos R720 and Altos R520 are electronically equivalent.

taskset was used to bind copies to cores

Base Compiler Invocation

C benchmarks:
        icc

C++ benchmarks:
        icpc

Base Portability Flags

        400.perlbench: -DSPEC_CPU_LINUX_IA32
        462.libquantum: -DSPEC_CPU_LINUX
        483.xalancbmk: -DSPEC_CPU_LINUX

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Base Optimization Flags

C benchmarks:
    -fast

C++ benchmarks:
    -xT -ipo -O3 -no-prec-div -Wl,-z,muldefs
    -L/spec/cpu2006.1.0/lib -lsmartheap

Base Other Flags

C benchmarks:

        403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):
    icc

    401.bzip2: /opt/intel/cce/10.0.023/bin/icc
            -L/opt/intel/cce/10.0.023/lib
            -I/opt/intel/cce/10.0.023/include

    456.hmmer: /opt/intel/cce/10.0.023/bin/icc
            -L/opt/intel/cce/10.0.023/lib
            -I/opt/intel/cce/10.0.023/include

C++ benchmarks:
    icpc

Peak Portability Flags

    400.perlbench: -DSPEC_CPU_LINUX_IA32
       401.bzip2: -DSPEC_CPU_LP64
       456.hmmer: -DSPEC_CPU_LP64
    462.libquantum: -DSPEC_CPU_LINUX
    483.xalancbmk: -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

Continued on next page

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Peak Optimization Flags (Continued)

400.perlbench: `-prof-gen`(pass 1) `-prof-use`(pass 2) `-fast -ansi-alias`
`-prefetch`

401.bzip2: `-prof-gen`(pass 1) `-prof-use`(pass 2) `-fast`

403.gcc: `basepeak = yes`

429.mcf: `-fast -prefetch`

445.gobmk: `-prof-gen`(pass 1) `-prof-use`(pass 2) `-xT -O2 -ipo`
`-no-prec_div -ansi-alias`

456.hmmer: `-prof-gen`(pass 1) `-prof-use`(pass 2) `-fast -unroll2`
`-ansi-alias`

458.sjeng: `-prof-gen`(pass 1) `-prof-use`(pass 2) `-fast -unroll4`

462.libquantum: `-prof-gen`(pass 1) `-prof-use`(pass 2) `-fast -unroll4 -Ob0`
`-prefetch -opt-streaming-stores always`

464.h264ref: `Same as 456.hmmer`

C++ benchmarks:

471.omnetpp: `-prof-gen`(pass 1) `-prof-use`(pass 2) `-xT -O3 -ipo`
`-no-prec_div -ansi-alias -Wl,-z,muldefs`
`-L/spec/cpu2006.1.0/lib -lsmartheap`

473.astar: `Same as 471.omnetpp`

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-ic10-ia32-intel64-linux-flags.20090714.41.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.41.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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