SPEC® CINT2006 Result
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Acer Incorporated

Acer Altos R520 (Intel Xeon X5470)

SPECint®_rate2006 =   Not Run

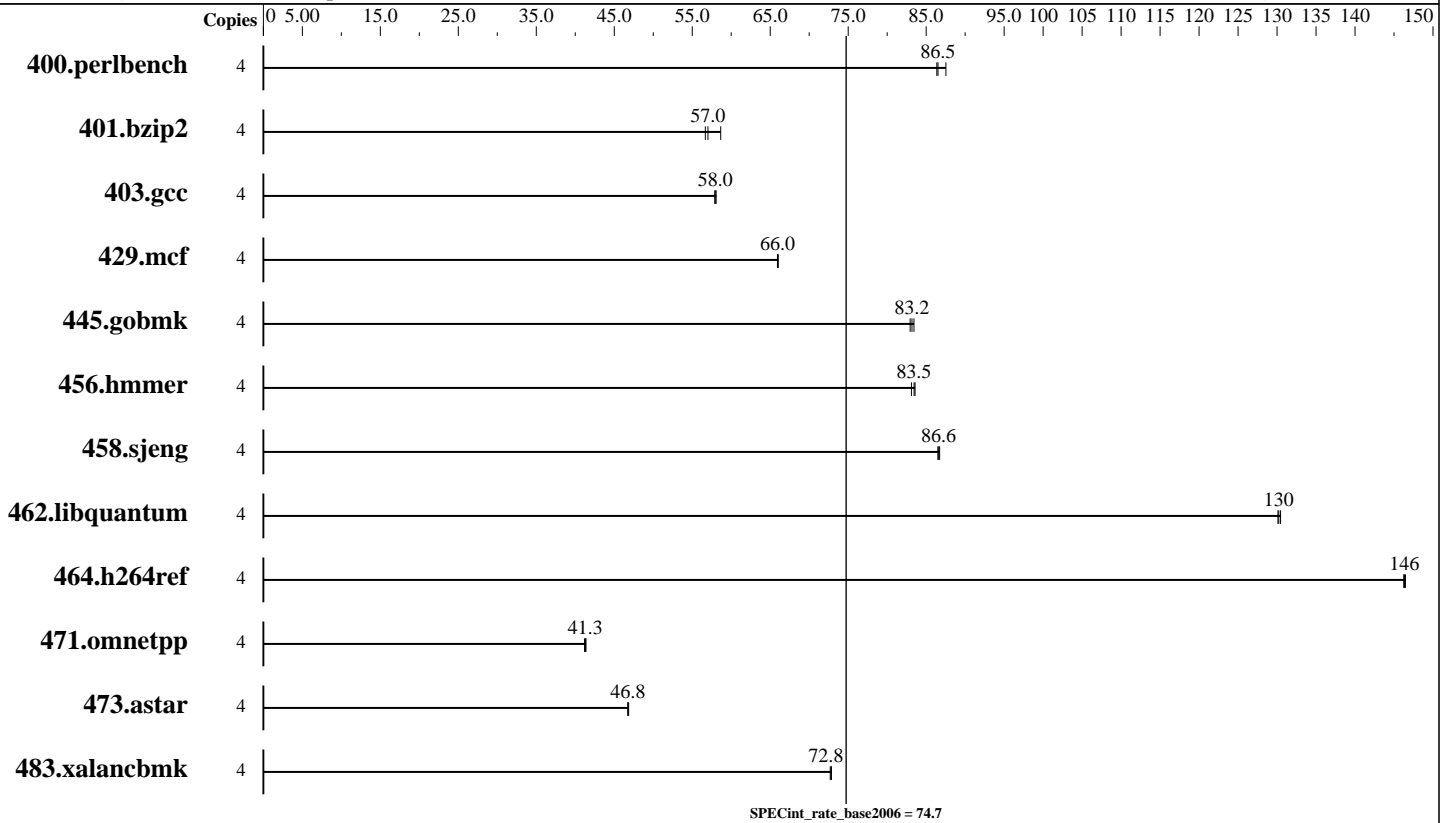SPECint_rate_base2006 = 74.7

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

Test date: Dec-2008
Hardware Availability: Sep-2008
Software Availability: Nov-2008

Benchmark	Copies	Result
400.perlbench	4	86.5
401.bzip2	4	57.0
403.gcc	4	58.0
429.mcf	4	66.0
445.gobmk	4	83.2
456.hmmer	4	83.5
458.sjeng	4	86.6
462.libquantum	4	130
464.h264ref	4	146
471.omnetpp	4	41.3
473.astar	4	46.8
483.xalancbmk	4	72.8

SPECint_rate_base2006 = 74.7

Hardware
CPU Name: Intel Xeon X5470
CPU Characteristics: 1333MHz system bus
CPU MHz: 3333
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: 12 MB I+D on chip per chip, 6 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 10K RPM SAS HDD
Other Hardware: None

Software
Operating System: SUSE Linux Enterprise Server 10 (x86_64) SP1, Kernel 2.6.16.46-0.12-smp
Compiler: Intel C++ Compiler 11.0 for Linux
Build 20080930 Package ID: l_cproc_p_11.0.066
Auto Parallel: No
File System: ReiserFS
System State: Multi-user, level 3
Base Pointers: 32-bit
Peak Pointers: Not Applicable
Other Software: Microquill SmartHeap V8.1
Binutils 2.18.50.0.7.20080502

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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	446	87.5	452	86.4	**452**	**86.5**							
401.bzip2	4	658	58.7	**677**	**57.0**	681	56.7							
403.gcc	4	555	58.1	556	57.9	**556**	**58.0**							
429.mcf	4	552	66.0	**553**	**66.0**	553	65.9							
445.gobmk	4	506	82.9	503	83.4	**504**	**83.2**							
456.hmmer	4	449	83.1	**447**	**83.5**	447	83.6							
458.sjeng	4	**559**	**86.6**	558	86.7	560	86.5							
462.libquantum	4	635	130	**636**	**130**	637	130							
464.h264ref	4	**605**	**146**	605	146	604	146							
471.omnetpp	4	607	41.2	604	41.4	**605**	**41.3**							
473.astar	4	601	46.7	599	46.8	**600**	**46.8**							
483.xalancbmk	4	**379**	**72.8**	380	72.7	379	72.8							

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.
```

Platform Notes

```
BIOS Settings
  Adjacent Cache Line Prefetch disabled
  Hardware Prefetch disabled
```

General Notes

```
taskset was used to bind processes to cores except
for 462.libquantum peak
OMP_NUM_THREADS set to number of processors
KMP_AFFINITY set to "physical,0"
KMP_STACKSIZE set to 64M
'ulimit -s unlimited' was set for stacksize unlimited
This result was measured on the Acer Altos R520.
The Altos R720 and Altos R520 are electronically equivalent.
```

Base Compiler Invocation

C benchmarks:
```
    icc
```

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Base Compiler Invocation (Continued)

C++ benchmarks:
```
icpc
```

Base Portability Flags

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

Base Optimization Flags

C benchmarks:
```
-xSSE4.1 -ipo -O3 -no-prec-div -static -inline-calloc
-opt-malloc-options=3 -opt-prefetch
```

C++ benchmarks:
```
-xSSE4.1 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs
-L/spec/cpu2006.1.1/lib -lsmartheap
```

Base Other Flags

C benchmarks:

```
403.gcc: -Dalloca=_alloca
```

The flags files that were used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Intel-ic11.0-int-linux64-revA.20090710.04.html
http://www.spec.org/cpu2006/flags/Intel-Linux64-Platform.20090710.00.html

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2006/flags/Intel-ic11.0-int-linux64-revA.20090710.04.xml
http://www.spec.org/cpu2006/flags/Intel-Linux64-Platform.20090710.00.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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