SPEC® CINT2006 Result

Supermicro

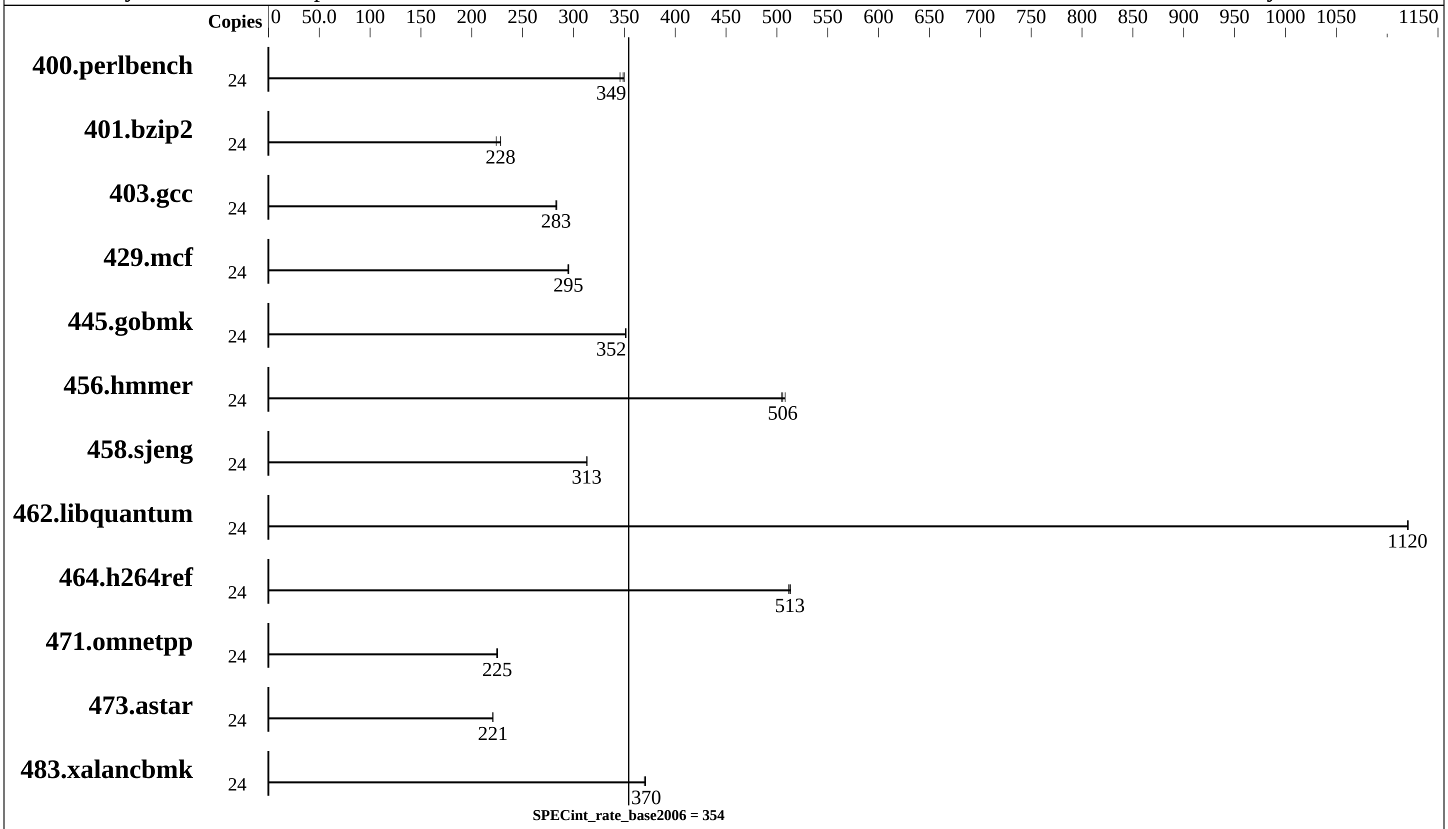
(Test Sponsor: Intel Corporation)

Motherboard H8DGU-F, AMD Opteron 6174

SPECint®_rate2006 = Not Run

SPECint_rate_base2006 = 354

CPU2006 license: 13		**Test date:**	Nov-2010
Test sponsor:	Intel Corporation	**Hardware Availability:**	Mar-2010
Tested by:	Intel Corporation	**Software Availability:**	Nov-2010



Hardware

CPU Name:	AMD Opteron 6174
CPU Characteristics:	
CPU MHz:	2200
FPU:	Integrated
CPU(s) enabled:	24 cores, 2 chips, 12 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	64 KB I + 64 KB D on chip per core
Secondary Cache:	512 KB I+D on chip per core
L3 Cache:	12 MB I+D on chip per chip, 6 MB shared / 6 cores
Other Cache:	None
Memory:	64 GB (16 x 4 GB 2Rx4 PC3-10600R-9, ECC)
Disk Subsystem:	1 x 750 GB SATA, 7200 RPM
Other Hardware:	None

Software

Operating System:	64-Bit CentOS release 5.5 (Final) Kernel 2.6.18-194.17.1.el5-default
Compiler:	Intel Composer XE 2011 for Linux Build 20101116 Package ID: l_cproc_p_12.0.1.107
Auto Parallel:	No
File System:	ext3
System State:	Run level 3 (Full multiuser with network)
Base Pointers:	32-bit
Peak Pointers:	Not Applicable
Other Software:	Microquill SmartHeap V9.01

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	24	670	350	678	346	**672**	**349**							
401.bzip2	24	1014	228	**1014**	**228**	1034	224							
403.gcc	24	684	283	**683**	**283**	681	284							
429.mcf	24	**742**	**295**	741	295	743	294							
445.gobmk	24	716	352	**716**	**352**	717	351							
456.hmmer	24	444	505	441	508	**443**	**506**							
458.sjeng	24	928	313	926	313	**928**	**313**							
462.libquantum	24	444	1120	444	1120	**444**	**1120**							
464.h264ref	24	1034	514	**1036**	**513**	1038	512							
471.omnetpp	24	668	224	**667**	**225**	666	225							
473.astar	24	764	220	**763**	**221**	763	221							
483.xalancbmk	24	**447**	**370**	446	371	448	370							

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.
 numactl was used to bind copies to the cores
```

Operating System Notes

```
'ulimit -s unlimited' was used to set the stack size to unlimited prior to run
```

Platform Notes

```
Fan speed set to Full Speed in BIOS Setup.
As tested, the system used a Supermicro A+ Server 1022G-NTF enclosure.
```

General Notes

```
Binaries were compiled on CentOS release 5.5 with Binutils 2.17.50.0.6-14.el5
```

Base Compiler Invocation

C benchmarks:
```
icc  -m32
```

C++ benchmarks:
```
icpc -m32
```

Base Portability Flags

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

Base Optimization Flags

C benchmarks:
-msse3 -ipo -O3 -no-prec-div -static

C++ benchmarks:
-msse3 -ipo -O3 -no-prec-div -Wl,-z,muldefs
-L/tmp/smartheap_9_01/lib -lsmartheap

Base 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-ic12.0-linux64-revE.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Intel-ic12.0-linux64-revE.xml

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.1.
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