SPEC® CINT2006 Result
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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

Copies

Benchmark	Copies	Result
400.perlbench	24	349
401.bzip2	24	228
403.gcc	24	283
429.mcf	24	295
445.gobmk	24	352
456.hmmer	24	506
458.sjeng	24	313
462.libquantum	24	1120
464.h264ref	24	513
471.omnetpp	24	225
473.astar	24	221
483.xalancbmk	24	370

SPECint_rate_base2006 = 354

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

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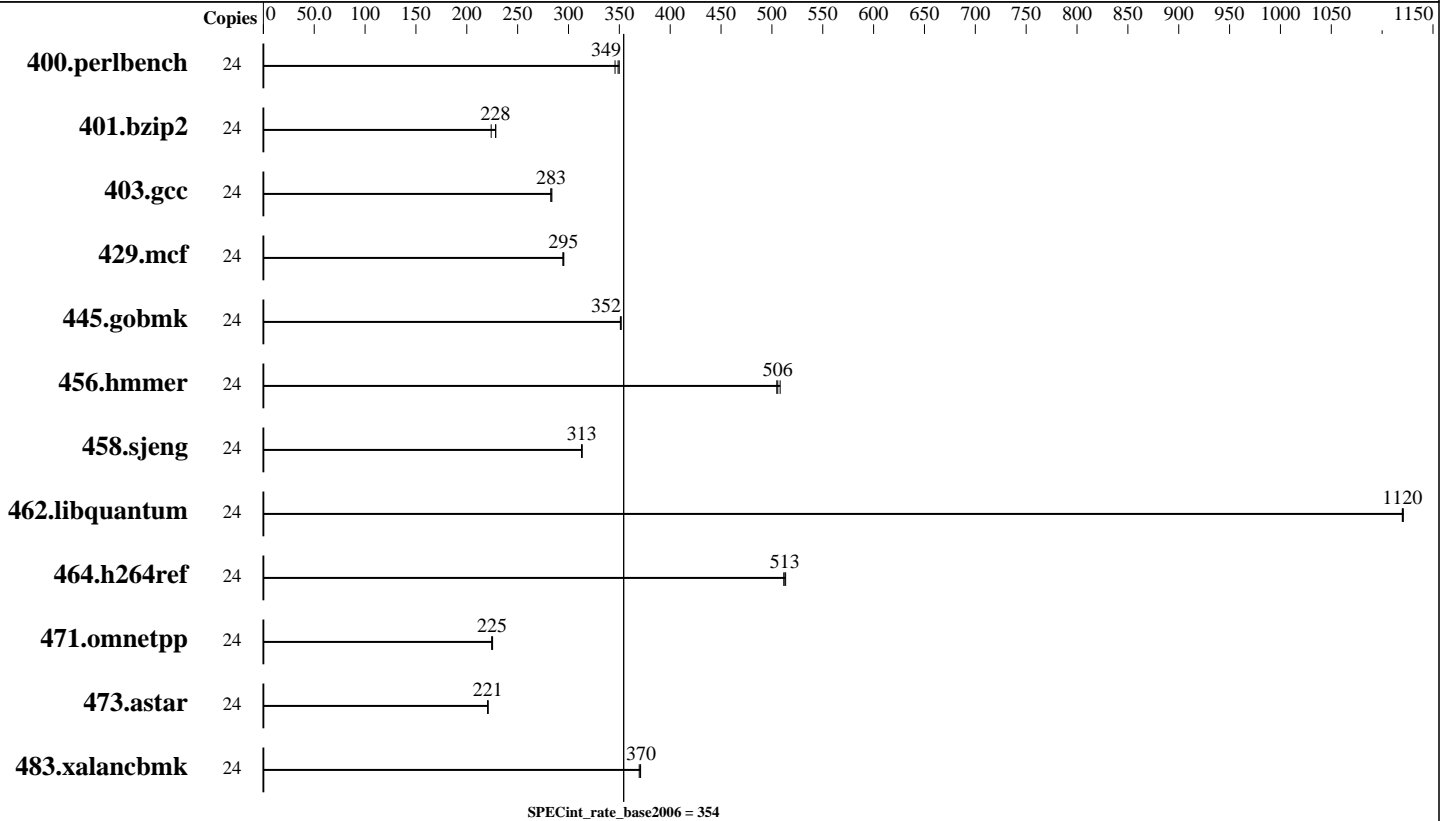SPECint_rate_base2006 =   354

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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	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
```

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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

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

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