



# CINT2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

**Supermicro**  
H8DA8 Motherboard (AMD Opteron (TM) 280)

SPECint\_rate2000 = **75.6**  
SPECint\_rate\_base2000 = **65.3**

SPEC license #01176 | Tested by: Supermicro | Test date: May-2006 | Hardware Avail: Feb-2006 | Software Avail: Apr-2004

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	122	53.2	4	107	60.5
175.vpr	4	139	46.9	4	110	59.2
176.gcc	4	91.5	55.8	4	64.1	79.7
181.mcf	4	228	36.6	4	163	51.2
186.crafty	4	62.0	74.8	4	59.6	77.9
197.parser	4	124	67.6	4	124	67.5
252.eon	4	59.2	102	4	52.9	114
253.perlbnk	4	104	80.5	4	101	82.5
254.gap	4	72.7	70.2	4	72.7	70.2
255.vortex	4	85.6	103	4	68.0	130
256.bzip2	4	122	56.9	4	117	59.3
300.twolf	4	204	68.4	4	157	88.9

### Hardware

CPU: AMD Opteron (TM) 280  
 CPU MHz: 2400  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip  
 CPU(s) orderable: 1-2  
 Parallel: no  
 Primary Cache: 64KBI + 64KBD on chip per core  
 Secondary Cache: 1024KB (I+D) on chip per core  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 8x2048MB, DDR400 CL3  
 Disk Subsystem: Seagate Barracuda 7200.9 IDE, 120 GB, 7200 RPM  
 Other Hardware: None

### Software

Operating System: Windows server 2003 Enterprise Edition w/Service Pack1  
 Compiler: Intel C++ 9.0 build 20050912Z for IA32  
 Microsoft Visual Studio .NET 7.0.9466 (libraries)  
 MicroQuill Smartheap Library 7.0  
 File System: NTFS  
 System State: default

## Notes/Tuning Information

shlw32M.lib is the SmartHeap library V7.0 from MicroQuill ([www.microquill.com](http://www.microquill.com))

+FDO: PASS1=-Qprof\_gen PASS2=-Qprof\_use

Portability:

176.gcc: -Dalloca=\_alloca /F10000000  
 186.crafty: -DNT\_i386  
 253.perlbnk: -DSPEC\_CPU2000\_NTOS -DPERLDLL /MT  
 254.gap: -DSYS\_HAS\_CALLOC\_PROTO -DSYS\_HAS\_MALLOC\_PROTO

Baseline C: -O3 -Qipo -Op +FDO

Baseline C++: -O3 -Qipo -Qcxx-features +FDO

Peak Tuning:

164.gzip: -O3 -Qipo -QxW +FDO  
 175.vpr: -O3 -Qipo -QxW +FDO  
 -Qoption,c,-ip\_ninl\_max\_stats=2000,-ip\_ninl\_max\_total\_stats=4500  
 176.gcc: -O3 -Qipo -QxW -Oi- -Qunroll13 +FDO  
 181.mcf: -O3 -Qipo -QaxN +FDO  
 186.crafty: -O3 -Qipo -QxW +FDO  
 197.parser: -QxW +FDO -Oi- -Qipo  
 252.eon: -O3 -Qipo -QxW +FDO -Qansi\_alias  
 -Qoption,c,-ip\_ninl\_max\_stats=2000,-ip\_ninl\_max\_total\_stats=4500  
 253.perlbnk: -O3 -Qipo -QxW +FDO



# CINT2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

Supermicro  
H8DA8 Motherboard (AMD Opteron (TM) 280)

SPECint\_rate2000 = 75.6  
SPECint\_rate\_base2000 = 65.3

SPEC license #01176 | Tested by: Supermicro | Test date: May-2006 | Hardware Avail: Feb-2006 | Software Avail: Apr-2004

## Notes/Tuning Information (Continued)

254.gap: basepeak=yes  
255.vortex: -O3 -Qipo -arch:SSE +FDO -Oi- shlw32M.lib  
-Qoption,c,-ip\_ninl\_max\_stats=2000,-ip\_ninl\_max\_total\_stats=4500  
256.bzip2: -O3 -Qipo -Qunroll2  
300.twolf: -O3 -Qipo -QxW +FDO -Qunroll3 shlw32M.lib -Qansi\_alias  
Tested system can be used with a 420W (minimum) ATX power supply  
Product description located as of:  
<http://www.supermicro.com/Aplus/motherboard/Opteron/8131/H8DA8.cfm>  
Other Configuration Notes The start /b /wait /affinity command is used to bind CPU(s) to processes.