



# CINT2000 Result

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## Supermicro H8DA8 (AMD Opteron (TM) 275)

SPECint\_rate2000 = 67.6

SPECint\_rate\_base2000 = 62.0

SPEC license #01176 Tested by: Supermicro Test date: May-2005 Hardware Avail: Mar-2005 Software Avail: Jul-2004

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	116	55.8	4	116	55.8
175.vpr	4	126	51.5	4	118	55.2
176.gcc	4	70.4	72.5	4	70.0	72.9
181.mcf	4	293	28.5	4	199	41.9
186.crafty	4	70.9	65.4	4	63.9	72.6
197.parser	4	142	58.7	4	141	59.2
252.eon	4	64.0	94.3	4	55.1	109
253.perlbnk	4	127	65.9	4	127	65.9
254.gap	4	76.4	66.8	4	76.4	66.8
255.vortex	4	90.3	97.6	4	81.9	108
256.bzip2	4	135	51.6	4	133	52.5
300.twolf	4	204	68.3	4	169	82.2

### Hardware

CPU: AMD Opteron (TM) 275  
 CPU MHz: 2200  
 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  
 Secondary Cache: 1024KB(I+D) on chip  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 8 x 1024MB PC3200 REG ECC CL3 DDR SDRAM  
 Disk Subsystem: 1 X 300GB IDE  
 Other Hardware: None

### Software

Operating System: Windows Enterprise Server 2003  
 Compiler: Intel C++ 8.0 build 20040714Z  
 Microsoft Visual Studio .NET 7.0.9466 (libraries)  
 MicroQuill Smartheap Library 7.0  
 File System: NTFS  
 System State: Default

## Notes/Tuning Information

Tested by Supermicro

shlw32M7.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: -fast -arch:SSE2 -Oi- +FDO

Baseline C++: -fast -arch:SSE2 -GX -GR

Peak Tuning:

164.gzip: basepeak=yes

175.vpr: -fast -arch:SSE2 +FDO

-Qoption,c,-ip\_ninl\_max\_stats=2000,-ip\_ninl\_max\_total\_stats=4500

176.gcc: -fast -arch:SSE2 +FDO -Oi- -Qunroll3

181.mcf: -fast -QaxN +FDO

186.crafty: -fast -arch:SSE2 +FDO

197.parser: -arch:SSE2 +FDO -Oi- -Qipo

252.eon: -fast -arch:SSE2 +FDO -Qansi\_alias

-Qoption,c,-ip\_ninl\_max\_stats=2000,-ip\_ninl\_max\_total\_stats=4500

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<http://www.spec.org>



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## Notes/Tuning Information (Continued)

```
253.perlbnk: basepeak=yes
254.gap:      basepeak=yes
255.vortex:   -fast -arch:SSE +FDO -Oi- shlw32M7.lib
              -Qoption,c,-ip_ninl_max_stats=2000,-ip_ninl_max_total_stats=4500
256.bzip2:   -fast -Qunroll2
300.twolf:   -fast -arch:SSE2 +FDO -Qunroll3 shlw32M7.lib -Qansi_alias
Tested system can be used with a 420W (minimum) ATX power supply
```