



# CINT2000 Result

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## Supermicro H8DAR-8 (AMD Opteron (TM) 275)

SPECint\_rate2000 = 66.6  
SPECint\_rate\_base2000 = 63.0

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	127	51.2	4	118	54.9
176.gcc	4	69.8	73.1	4	69.4	73.6
181.mcf	4	273	30.6	4	219	38.2
186.crafty	4	70.8	65.5	4	63.9	72.7
197.parser	4	135	61.8	4	139	59.9
252.eon	4	64.9	93.0	4	55.8	108
253.perlbnk	4	125	66.9	4	125	66.9
254.gap	4	75.0	68.0	4	75.0	68.0
255.vortex	4	87.9	100	4	94.5	93.3
256.bzip2	4	135	51.6	4	129	53.8
300.twolf	4	202	68.8	4	170	82.1

### 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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## 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
```