



# CINT2000 Result

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## Supermicro H8DSP-8 Motherboard

SPECint2000 = 1885  
SPECint\_base2000 = 1789

SPEC license #01176 Tested by: Supermicro Test date: Oct-2005 Hardware Avail: Oct-2005 Software Avail: Apr-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	91.6	1529	91.6	1529	
175.vpr	1400	96.2	1455	93.5	1498	
176.gcc	1100	54.5	2018	54.0	2036	
181.mcf	1800	158	1137	131	1379	
186.crafty	1000	55.2	1811	50.1	1995	
197.parser	1800	105	1715	105	1718	
252.eon	1300	50.1	2597	43.3	3000	
253.perlbnk	1800	96.5	1866	96.5	1866	
254.gap	1100	57.0	1931	57.0	1931	
255.vortex	1900	68.9	2756	72.8	2612	
256.bzip2	1500	105	1425	104	1449	
300.twolf	3000	163	1843	134	2237	

### Hardware

CPU: AMD Opteron (TM) 254  
 CPU MHz: 2800  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
 CPU(s) orderable: 1  
 Parallel: no  
 Primary Cache: 64KBI + 64KBD on chip  
 Secondary Cache: 1024KB (I+D) on chip  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 4x Kingston 1GB, Registered, ECC, DDR400, CL3  
 Disk Subsystem: 1X Hitachi SATA 400 GB 7200RPM  
 Other Hardware: None

### Software

Operating System: Windows Server 2003 Enterprise Edition w/ SP1  
 Compiler: Intel C++ 8.0 build 20040415Z 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: -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 -Oi- -Qunroll3 +FDO

181.mcf: -fast -QaxN +FDO

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

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

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

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

253.perlbnk: basepeak=yes

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H8DSP-8 Motherboard

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## Notes/Tuning Information (Continued)

```
254.gap:      basepeak=yes
255.vortex:   -fast -arch:SSE -Oi- +FDO shlW32M.lib
              -Qoption,c,-ip_ninl_max_stats=2000,-ip_ninl_max_total_stats=4500
256.bzip2:    -fast -Qunroll2
300.twolf:    -fast -arch:SSE2 -Qunroll3 -Qansi_alias +FDO shlW32M.lib
The system under test can be built with an ATX 450W power supply.
```