



# CINT2000 Result

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Advanced Micro Devices  
TYAN S2895 Thunder K8WE, AMD Opteron (TM) 275

SPECint\_rate2000 = 68.1  
SPECint\_rate\_base2000 = 64.2

SPEC license #: 49 Tested by: AMD, Austin, TX Test date: Apr-2005 Hardware Avail: May-2005 Software Avail: Mar-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	116	55.8	4	116	55.8
175.vpr	4	120	54.3	4	116	56.1
176.gcc	4	69.1	73.8	4	68.6	74.4
181.mcf	4	220	38.0	4	175	47.7
186.crafty	4	70.5	65.8	4	63.5	73.0
197.parser	4	130	64.0	4	130	64.1
252.eon	4	63.8	94.5	4	55.8	108
253.perlbnk	4	123	68.2	4	123	68.2
254.gap	4	74.6	68.5	4	74.6	68.5
255.vortex	4	89.5	98.5	4	94.1	93.7
256.bzip2	4	154	45.2	4	141	49.2
300.twolf	4	201	69.3	4	170	82.0

### Hardware

CPU: AMD Opteron (TM) 275  
CPU MHz: 2200  
FPU: Integrated  
CPU(s) enabled: 4 cores, 2 chips, 2 cores/chips  
CPU(s) orderable: 1-2  
Parallel: No  
Primary Cache: 64KBI + 64KBD/core  
Secondary Cache: 1024KB(I+D)/core  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 8x512 MB PC3200 CL2.5 ECC Reg  
Disk Subsystem: SATA, Western Digital WD740GD, 10000 RPM  
Other Hardware: None

### Software

Operating System: Microsoft Windows Server 2003 Enterprise Edition SP1  
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

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
Bios Rev 1.00.2895
The start /b /wait /affinity command is used to bind CPU(s) to processes.
The tested system can be assembled using the SSI EEB v3.5 footprint, an
Antec True 550 EPS12V 550W power supply, and a PCI-e graphics card.
```