



# CINT2000 Result

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Advanced Micro Devices  
TYAN S2895 Thunder K8WE, AMD Opteron (TM) 270

SPECint\_rate2000 = 31.9  
SPECint\_rate\_base2000 = 30.3

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	2	126	25.8	2	126	25.8
175.vpr	2	129	25.2	2	124	26.1
176.gcc	2	74.3	34.3	2	74.0	34.5
181.mcf	2	220	18.9	2	176	23.7
186.crafty	2	77.4	30.0	2	70.2	33.0
197.parser	2	141	29.6	2	141	29.6
252.eon	2	69.1	43.7	2	61.0	49.4
253.perlbnk	2	133	31.3	2	133	31.3
254.gap	2	79.5	32.1	2	79.5	32.1
255.vortex	2	96.3	45.8	2	102	43.4
256.bzip2	2	139	25.0	2	137	25.5
300.twolf	2	219	31.7	2	187	37.2

### Hardware

CPU: AMD Opteron (TM) 270  
 CPU MHz: 2000  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
 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: 4x512 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.
```