



# CINT2000 Result

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## Advanced Micro Devices

### TYAN Thunder K8S Pro S2882, AMD Opteron (TM) 252

SPECint\_rate2000 = 40.5

SPECint\_rate\_base2000 = 38.5

SPEC license #: 49 | Tested by: AMD, Austin, TX | Test date: Feb-2005 | Hardware Avail: Feb-2005 | Software Avail: Oct-2004

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	98.3	33.0	2	98.3	33.0
175.vpr	2	103	31.7	2	99.5	32.6
176.gcc	2	59.2	43.1	2	58.6	43.5
181.mcf	2	171	24.4	2	140	29.9
186.crafty	2	60.2	38.6	2	54.0	43.0
197.parser	2	113	36.9	2	113	37.0
252.eon	2	52.9	57.0	2	46.7	64.6
253.perlbnk	2	107	39.1	2	107	39.1
254.gap	2	61.0	41.8	2	61.0	41.8
255.vortex	2	75.5	58.4	2	81.1	54.4
256.bzip2	2	112	31.1	2	111	31.5
300.twolf	2	174	39.9	2	144	48.5

#### Hardware

CPU: AMD Opteron (TM) 252  
 CPU MHz: 2600  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 2 chips, 1 core/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: 8x512 MB PC3200 (Kingston) CL2.5 ECC Reg  
 Disk Subsystem: IDE, Western Digital WD2000JB, 7200 rpm  
 Other Hardware: None

#### Software

Operating System: Microsoft Windows Server 2003, Enterprise Edition  
 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 v3.E
ANTEC True 550Watt EPS12V power supply
The tested system can be assembled using an Extended ATX footprint
Physical Address Extension (PAE) enabled
```