



# CINT2000 Result

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## Advanced Micro Devices

TYAN Thunder K8SD Pro (S2882-D), AMD Opteron (TM) 256

SPECint\_rate2000 = 47.5

SPECint\_rate\_base2000 = 41.3

SPEC license #: 49 | Tested by: AMD Austin, Texas | Test date: Mar-2006 | Hardware Avail: Apr-2006 | Software Avail: Sep-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	97.5	33.3	2	85.9	37.8
175.vpr	2	109	29.8	2	87.3	37.2
176.gcc	2	73.4	34.8	2	51.5	49.5
181.mcf	2	154	27.1	2	118	35.4
186.crafty	2	49.8	46.6	2	47.5	48.9
197.parser	2	99.5	42.0	2	100.0	41.8
252.eon	2	47.3	63.8	2	42.5	71.0
253.perlbnk	2	83.0	50.3	2	81.4	51.3
254.gap	2	58.0	44.0	2	58.0	44.0
255.vortex	2	69.3	63.6	2	55.4	79.5
256.bzip2	2	97.0	35.9	2	94.7	36.7
300.twolf	2	166	42.0	2	126	55.3

### Hardware

CPU: AMD Opteron (TM) 256  
 CPU MHz: 3000  
 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: 4x512MB, DDR400 CL2 ECC Reg  
 Disk Subsystem: SATA, 250 GB  
 Other Hardware: None

### Software

Operating System: Windows Server 2003 Enterprise edition SP1 (32-bit)  
 Compiler: Intel C++ 9.0 build 20050912Z 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: -O3 -Qipo -Op +FDO

Baseline C++: -O3 -Qipo -Qcxx-features +FDO

Peak Tuning:

164.gzip: -O3 -Qipo -QxW +FDO

175.vpr: -O3 -Qipo -QxW +FDO

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

176.gcc: -O3 -Qipo -QxW -Oi- -Qunroll3 +FDO

181.mcf: -O3 -Qipo -QaxN +FDO

186.crafty: -O3 -Qipo -QxW +FDO

197.parser: -QxW +FDO -Oi- -Qipo

252.eon: -O3 -Qipo -QxW +FDO -Qansi\_alias

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

253.perlbnk: -O3 -Qipo -QxW +FDO

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<http://www.spec.org>



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## Notes/Tuning Information (Continued)

```
254.gap:          basepeak = yes
255.vortex:       -O3 -Qipo -arch:SSE +FDO -Oi- shlW32M.lib
                  -Qoption,c,-ip_ninl_max_stats=2000,-ip_ninl_max_total_stats=4500
256.bzip2:        -O3 -Qipo -Qunroll2
300.twolf:        -O3 -Qipo -QxW +FDO -Qunroll3 shlW32M.lib -Qansi_alias
Corsair CMX512RE-3200LL (XMS3200REv2.1) memory used in Dual Channel configuration.
BIOS rev 3.06
The tested system can be assembled using a standard ATX case and an Antec True 550
watt EPS12V Power Supply.
'start /b /wait /affinity' command is used to bind CPU(s) to processes
```