



# CINT2000 Result

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Advanced Micro Devices  
ASUS M2N-LR/SATA, AMD Opteron (TM) 1218

SPECint\_rate2000 = 40.3  
SPECint\_rate\_base2000 = 35.5

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	112	29.1	2	97.8	33.2
175.vpr	2	127	25.5	2	103	31.6
176.gcc	2	87.5	29.2	2	62.6	40.8
181.mcf	2	197	21.2	2	148	28.2
186.crafty	2	57.1	40.7	2	54.4	42.6
197.parser	2	114	36.7	2	114	36.5
252.eon	2	54.3	55.5	2	48.7	61.9
253.perlbnk	2	94.7	44.1	2	92.6	45.1
254.gap	2	65.9	38.7	2	65.9	38.7
255.vortex	2	79.9	55.2	2	74.5	59.2
256.bzip2	2	113	30.7	2	110	31.5
300.twolf	2	192	36.3	2	144	48.4

### Hardware

CPU: AMD Opteron (TM) 1218  
 CPU MHz: 2600  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
 CPU(s) orderable: 1  
 Parallel: no  
 Primary Cache: 64KBI + 64KBD on chip per core  
 Secondary Cache: 1024KB (I+D) on chip per core  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 2x1024MB, DDR2-800 CL3  
 Disk Subsystem: IDE, 120GB  
 Other Hardware: None

### Software

Operating System: Windows Server 2003 Enterprise edition SP1 (64-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- -Qunroll13 +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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## 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
The tested system can be assembled using a standard ATX case and an Antec True 550
watt EPS12V Power Supply.
Half memory slots populated in dual channel configuration.
'start /b /wait /affinity' command is used to bind CPU(s) to processes
```