



# CINT2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Advanced Micro Devices  
Rioworks HDAMA Motherboard, AMD Opteron 246

SPECint\_rate2000 = 30.5  
SPECint\_rate\_base2000 = 28.8

SPEC license #: 49 | Tested by: AMD, Austin, TX | Test date: Jul-2003 | Hardware Avail: Aug-2003 | Software Avail: May-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	129	25.3	2	124	26.1
175.vpr	2	132	24.6	2	132	24.6
176.gcc	2	90.5	28.2	2	76.4	33.4
181.mcf	2	204	20.4	2	205	20.4
186.crafty	2	73.0	31.8	2	73.0	31.8
197.parser	2	147	28.4	2	147	28.5
252.eon	2	89.6	33.7	2	76.8	39.3
253.perlbnk	2	138	30.2	2	127	32.8
254.gap	2	78.9	32.4	2	78.8	32.4
255.vortex	2	99.8	44.2	2	99.8	44.2
256.bzip2	2	144	24.1	2	136	25.6
300.twolf	2	243	28.6	2	204	34.2

### Hardware

CPU: AMD Opteron 246  
 CPU MHz: 2000  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 2 chips, 1 core/chip  
 CPU(s) orderable: 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: 8x512MB PC2700 DDR SDRAM CL2.5  
 Disk Subsystem: 120GB 7200 RPM IDE  
 Other Hardware: None

### Software

Operating System: Microsoft Windows 2003 Server, Enterprise Edition  
 Compiler: Intel C/C++ 7.0 build 20021212Z  
 Microsoft Visual Studio .NET 7.0.9466 (libraries)  
 MicroQuill Smartheap Library 6.0  
 File System: NTFS  
 System State: Default

## Notes/Tuning Information

shlw32M6.lib is the SmartHeap library V6.0 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: +FDO -O3 -QxW -Qipo  
 Baseline C++: +FDO -Qipo -GX -GR

Peak tuning:

164.gzip: +FDO -O3 -QaxK -Qipo -Oi-  
 175.vpr: +FDO -O3 -QxW -Qipo  
 176.gcc: +FDO -O3 -QxK -Qipo -Oi-  
 181.mcf: +FDO -Qipo -Oa  
 186.crafty: +FDO -O3 -QxW -Qipo  
 197.parser: +FDO -O3 -QxW -Qipo -Oa  
 252.eon: +FDO -O3 -QaxW -Qipo -Zp4  
 253.perlbnk: +FDO -O3 -Qipo -Oa shlw32M6.lib  
 254.gap: +FDO -O3 -QxW -Qipo  
 255.vortex: basepeak=1



# CINT2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Advanced Micro Devices  
Rioworks HDAMA Motherboard, AMD Opteron 246

SPECint\_rate2000 = 30.5  
SPECint\_rate\_base2000 = 28.8

SPEC license #: 49 | Tested by: AMD, Austin, TX | Test date: Jul-2003 | Hardware Avail: Aug-2003 | Software Avail: May-2003

## Notes/Tuning Information (Continued)

256.bzip2: +FDO -Qipo -Oa -Qunroll1  
300.twolf: +FDO -Qxi -Qipo shlw32M6.lib

ONESTEP is used for all base and peak runs

The tested system can be assembled using an ATX case such as the Antec KS-282,  
a 460W power supply, like a Sparkle FPS460-60PFN.