



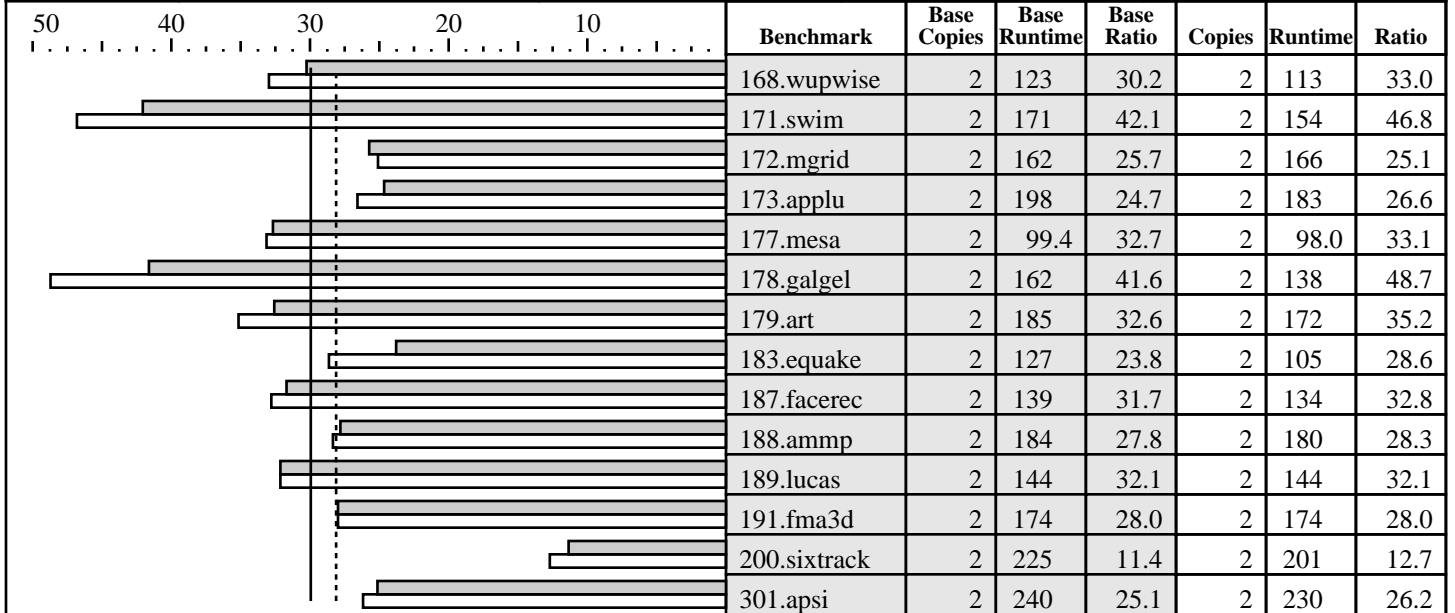
# CFP2000 Result

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Advanced Micro Devices  
Rioworks HDAMA Motherboard, AMD Opteron 246

SPECfp\_rate2000 = 29.9  
SPECfp\_rate\_base2000 = 28.1

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



**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 and Intel Fortran 7.0 build 20021212Z  
 Compaq Visual Fortran Compiler Version 6.6 (Update B)  
 Microsoft Visual Studio .NET 7.0.9466 (libraries)  
 MicroQuill SmartHeap Library 6.0  
 File System: NTFS  
 System State: Default

## Notes/Tuning Information

+FDO: PASS1=-Qprof\_gen PASS2=-Qprof\_use  
 icl and ifl are the Intel C/C++ and Fortran compilers  
 f90 is the Compaq Fortran compiler  
 shlw32M6.lib is the SmartHeap library V6.0 from MicroQuill [www.microquill.com](http://www.microquill.com)

Portability:  
 178.galgel: -FI -Fe\$@ -link -stack:32000000

Baseline: C icl +FDO -O3 -QxW -Qipo  
 Baseline: Fortran ifl +FDO -O3 -QxW -Qipo

Peak tuning:  
 168.wupwise: ifl +FDO -QxK -Qipo -Ow  
 171.swim: f90 -Optimize:5 -alignment:dcommons -alignment:records  
 -alignment:sequence -architecture:k7  
 -assume:noaccuracy\_sensitive -math\_library:fast -tune:k7

172.mgrid: ifl +FDO -O3 -QaxW -Qipo -Oa -Qprefetch-  
 173.applu: ifl +FDO -O3 -QxK -Qipo -Qscalar\_rep- -Zp8  
 177.mesa: icl +FDO -O3 -QxW -Qipo -Oa -Qscalar\_rep-  
 178.galgel: f90 -Optimize:5 -fast



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## Notes/Tuning Information (Continued)

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179.art:          icl          -Qipo -Oa          -Qunroll14 -Zp4
183.equake:      icl          -O3 -QxK  -Qipo -Oa  shlw32M6.lib -Zp4
187.facerec:    ifl +FDO -O3 -QaxW -Qipo          -Qscalar_rep- -Qunroll11
188.ampp:       icl          -QxW          -Oa
189.lucas:      ifl +FDO -O3 -QxW  -Qipo          -Qprefetch-
191.fma3d:      ifl basepeak=1
200.sixtrack:   ifl          -Qipo -Oa          -Zp4
301.apsi:       f90 -Optimize:5 -fast

```

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.