



CFP2000 Result

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Advanced Micro Devices

Rioworks HDAMA, AMD Opteron (TM) Model 240 EE

SPECfp_rate2000 = 23.6

SPECfp_rate_base2000 = 22.3

SPEC license #: 49 | Tested by: AMD, Austin, TX | Test date: Feb-2004 | Hardware Avail: Feb-2004 | Software Avail: May-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	165	22.5	2	149	24.9
171.swim	2	197	36.6	2	193	37.3
172.mgrid	2	218	19.2	2	216	19.3
173.applu	2	238	20.5	2	232	21.0
177.mesa	2	140	23.2	2	138	23.6
178.galgel	2	207	32.5	2	174	38.8
179.art	2	206	29.2	2	191	31.5
183.quake	2	156	19.3	2	138	21.8
187.facerec	2	181	24.3	2	176	25.0
188.amp	2	244	20.9	2	240	21.3
189.lucas	2	151	30.8	2	151	30.8
191.fma3d	2	224	21.7	2	224	21.7
200.sixtrack	2	320	7.97	2	287	8.90
301.apsi	2	294	20.5	2	278	21.7

Hardware

CPU: AMD Opteron (TM) Model 240 EE
 CPU MHz: 1400
 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: 4x512MB PC3200 DDR SDRAM, ECC Registered
 Disk Subsystem: SCSI, Seagate Cheetah ST336753LW, Ultra 320
 Other Hardware: None

Software

Operating System: Microsoft Windows 2003 Enterprise Server
 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 (for 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
 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 such as the SPI Sparkle 460w and an AGP video card
BIOS version: 1.82