CFP2000 Result

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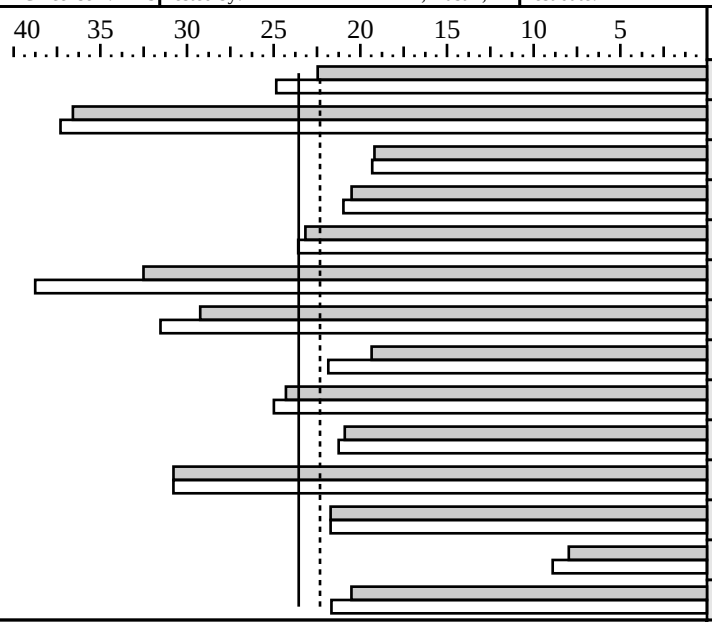
Advanced Micro Devices

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.equake	2	156	19.3	2	138	21.8
187.facerec	2	181	24.3	2	176	25.0
188.ammp	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)

```
   179.art:        icl                -Qipo -Oa                -Qunroll4 -Zp4
   183.equake:     icl      -O3 -QxK  -Qipo -Oa shlW32M6.lib             -Zp4
   187.facerec:    ifl +FDO -O3 -QaxW -Qipo     -Qscalar_rep- -Qunroll1
   188.ammp:       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
```