



CFP2000 Result

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Einix
A4800

SPECfp_rate2000 = 22.7

SPECfp_rate_base2000 = 21.0

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	175	21.2	2	157	23.6
171.swim	2	208	34.5	2	184	39.0
172.mgrid	2	216	19.3	2	223	18.8
173.applu	2	269	18.1	2	243	20.0
177.mesa	2	144	22.6	2	141	23.0
178.galgel	2	230	29.3	2	179	37.6
179.art	2	225	26.9	2	213	28.3
183.equake	2	177	17.0	2	137	22.0
187.facerec	2	192	23.0	2	186	23.7
188.amp	2	249	20.5	2	245	20.9
189.lucas	2	167	27.8	2	166	28.0
191.fma3d	2	236	20.6	2	236	20.6
200.sixtrack	2	314	8.13	2	290	8.81
301.apsi	2	308	19.6	2	287	21.0

Hardware

CPU: AMD Opteron 240, 1.4 GHz
 CPU MHz: 1400
 FPU: Integrated
 CPU(s) enabled: 2 cores, 2 chips, 1 core/chip
 CPU(s) orderable: 1,2,4
 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 ECC Registered SDRAM CL2.5
 Disk Subsystem: IDE 7200 RPM
 Other Hardware: None

Software

Operating System: Windows Server 2003 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 (libraries)7.0.9466
 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.quake:   icl          -O3 -QxK  -Qipo -Oa  shlw32M6.lib -Zp4
187.facerec: ifl +FD0 -O3 -QaxW -Qipo          -Qscalar_rep- -Qunroll11
188.ampp:    icl          -QxW          -Oa
189.lucas:   ifl +FD0 -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

```