



CFP2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Einix
A4800

SPECfp2000 = 1120

SPECfp_base2000 = 1029

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	152	1053	137	1170
171.swim	3100	196	1583	169	1833
172.mgrid	1800	186	968	183	985
173.applu	2100	242	868	218	964
177.mesa	1400	126	1111	123	1137
178.galgel	2900	201	1446	158	1831
179.art	2600	199	1304	187	1391
183.quake	1300	153	851	119	1089
187.facerec	1900	162	1170	155	1229
188.amp	2200	219	1006	214	1027
189.lucas	2000	151	1327	150	1335
191.fma3d	2100	208	1008	208	1008
200.sixtrack	1100	275	400	252	436
301.apsi	2600	272	956	254	1024

Hardware

CPU: AMD Opteron 142, 1.6 GHz
 CPU MHz: 1600
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 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: 4x512MB PC2700 DDR ECC Reg 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



CFP2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Einix
A4800

SPECfp2000 = 1120

SPECfp_base2000 = 1029

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

Notes/Tuning Information (Continued)

```

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

```