



CFP2000 Result

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Einix A4800

SPECfp2000 = 1168
SPECfp_base2000 = 1093

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	500 1000 1500 2000			
168.wupwise	1600	158	1010	120	1338	[Bar chart showing ratio bars for 168.wupwise]			
171.swim	3100	178	1745	178	1744	[Bar chart showing ratio bars for 171.swim]			
172.mgrid	1800	177	1017	178	1014	[Bar chart showing ratio bars for 172.mgrid]			
173.applu	2100	220	953	207	1015	[Bar chart showing ratio bars for 173.applu]			
177.mesa	1400	105	1339	97.2	1440	[Bar chart showing ratio bars for 177.mesa]			
178.galgel	2900	185	1567	187	1548	[Bar chart showing ratio bars for 178.galgel]			
179.art	2600	206	1260	180	1443	[Bar chart showing ratio bars for 179.art]			
183.quake	1300	125	1042	112	1160	[Bar chart showing ratio bars for 183.quake]			
187.facerec	1900	152	1253	149	1271	[Bar chart showing ratio bars for 187.facerec]			
188.amp	2200	228	963	213	1033	[Bar chart showing ratio bars for 188.amp]			
189.lucas	2000	158	1269	150	1333	[Bar chart showing ratio bars for 189.lucas]			
191.fma3d	2100	194	1081	190	1107	[Bar chart showing ratio bars for 191.fma3d]			
200.sixtrack	1100	247	445	224	492	[Bar chart showing ratio bars for 200.sixtrack]			
301.apsi	2600	259	1005	253	1027	[Bar chart showing ratio bars for 301.apsi]			

Hardware

CPU: AMD Opteron 144, 1.8 GHz
CPU MHz: 1800
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 Registered SDRAM CL2.5
Disk Subsystem: IDE 7200 RPM
Other Hardware: None

Software

Operating System: SuSE Linux Enterprise Server 8 for AMD64
Compiler: Intel C/C++ 7.0 build 20021212Z and Intel Fortran 7.0 build 20021212Z
File System: ext2
System State: Run level 3

Notes/Tuning Information

The binaries were built on SuSE Linux Professional 8.1 running on an Opteron system

+FDO: PASS1=-prof_gen PASS2=-prof_use

icc and ifc are the Intel C/C++ and Fortran compilers

Portability:

178.galgel: -FI

Baseline: C icc +FDO -O3 -xW -ipo

Baseline: Fortran ifc +FDO -O3 -xW -ipo

Peak tuning:

168.wupwise: ifc -xK -axW -ipo -fno-alias -Qoption,f,-ip_ninl_max_stats=2000,
-Qoption,f,-ip_ninl_max_total_stats=4500

171.swim: ifc +FDO -O3 -xK -ipo -unroll2 -prefetch-

172.mgrid: ifc +FDO -O3 -axW -ipo -fno-alias

173.applu: ifc +FDO -O3 -xK -ipo -scalar_rep-

177.mesa: icc +FDO -O3 -xW -ipo -fno-alias -Qoption,c,-ip_ninl_max_stats=1500
-Qoption,c,-ip_ninl_max_total_stats=3500 -static

178.galgel: ifc +FDO -O3 -xW -ipo -unroll1

179.art: icc -xW -ipo -fno-alias -nolib_inline

Standard Performance Evaluation Corporation

info@spec.org

http://www.spec.org



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Notes/Tuning Information (Continued)

```
183.equake:      icc      -O3  -xK      -ipo -fno-alias
187.facerec:    ifc +FDO -O3      -axW -ipo -unroll1
188.ammp:       icc      -O3  -xW      -fno-alias -prefetch-
189.lucas:      ifc +FDO -xW      -ipo -static -auto
191.fma3d:      ifc +FDO -O3 -xW      -ipo -static -Zp8
200.sixtrack:   ifc      -ipo -fno-alias -align
301.apsi:       ifc +FDO -xW      -ipo -fno-alias -ansi_alias-
ONESTEP is used for all base and peak runs
```