



# CFP2000 Result

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Einix  
A4800

SPECfp2000 = 1219  
SPECfp\_base2000 = 1122

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	138	1156	125	1284	[Bar chart showing ratio bars for 168.wupwise]			
171.swim	3100	183	1691	163	1907	[Bar chart showing ratio bars for 171.swim]			
172.mgrid	1800	170	1062	165	1088	[Bar chart showing ratio bars for 172.mgrid]			
173.applu	2100	228	921	204	1031	[Bar chart showing ratio bars for 173.applu]			
177.mesa	1400	112	1247	110	1275	[Bar chart showing ratio bars for 177.mesa]			
178.galgel	2900	187	1552	145	1999	[Bar chart showing ratio bars for 178.galgel]			
179.art	2600	187	1394	176	1477	[Bar chart showing ratio bars for 179.art]			
183.quake	1300	142	913	110	1183	[Bar chart showing ratio bars for 183.quake]			
187.facerec	1900	149	1279	143	1326	[Bar chart showing ratio bars for 187.facerec]			
188.amp	2200	197	1117	193	1141	[Bar chart showing ratio bars for 188.amp]			
189.lucas	2000	141	1415	141	1414	[Bar chart showing ratio bars for 189.lucas]			
191.fma3d	2100	190	1108	190	1108	[Bar chart showing ratio bars for 191.fma3d]			
200.sixtrack	1100	245	449	225	489	[Bar chart showing ratio bars for 200.sixtrack]			
301.apsi	2600	246	1058	230	1131	[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: 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

```