



# CFP2000 Result

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Einix  
A4800

SPECfp\_rate2000 = 26.7

SPECfp\_rate\_base2000 = 24.7

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	143	25.9	2	129	28.9
171.swim	2	227	31.7	2	175	41.0
172.mgrid	2	181	23.0	2	172	24.3
173.applu	2	243	20.0	2	216	22.6
177.mesa	2	113	28.7	2	111	29.2
178.galgel	2	193	34.8	2	150	44.8
179.art	2	197	30.7	2	248	24.3
183.quake	2	152	19.9	2	113	26.6
187.facerec	2	159	27.8	2	153	28.8
188.amp	2	198	25.7	2	194	26.2
189.lucas	2	152	30.5	2	145	32.1
191.fma3d	2	203	24.0	2	203	24.0
200.sixtrack	2	246	10.4	2	225	11.3
301.apsi	2	248	24.3	2	231	26.1

### Hardware

CPU: AMD Opteron 244, 1.8 GHz  
CPU MHz: 1800  
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-
  177.mesa:      icl +FDO -O3 -QxW  -Qipo -Oa -Qscalar_rep-
  178.galgel:    f90 -Optimize:5 -fast -Zp8
```



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## 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

```