



CFP2000 Result

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Einix
A4800

SPECfp_rate2000 = 13.0

SPECfp_rate_base2000 = 11.9

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	1	152	12.2	1	137	13.6
171.swim	1	196	18.4	1	169	21.3
172.mgrid	1	186	11.2	1	183	11.4
173.applu	1	242	10.1	1	218	11.2
177.mesa	1	126	12.9	1	123	13.2
178.galgel	1	201	16.8	1	158	21.2
179.art	1	199	15.1	1	187	16.1
183.equake	1	153	9.87	1	119	12.6
187.facerec	1	162	13.6	1	155	14.3
188.amp	1	219	11.7	1	214	11.9
189.lucas	1	151	15.4	1	150	15.5
191.fma3d	1	208	11.7	1	208	11.7
200.sixtrack	1	275	4.63	1	252	5.05
301.apsi	1	272	11.1	1	254	11.9

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-
  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

```