



CFP2000 Result

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Einix
A4800

SPECfp_rate2000 = 40.7
SPECfp_rate_base2000 = 37.3

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	4	192	38.7	4	176	42.3
171.swim	4	234	61.5	4	209	68.8
172.mgrid	4	236	35.4	4	237	35.3
173.applu	4	302	32.3	4	278	35.0
177.mesa	4	147	44.0	4	145	44.9
178.galgel	4	262	51.4	4	196	68.7
179.art	4	317	38.1	4	260	46.4
183.quake	4	213	28.3	4	158	38.3
187.facerec	4	223	39.6	4	217	40.6
188.amp	4	269	37.9	4	264	38.7
189.lucas	4	190	48.7	4	191	48.6
191.fma3d	4	279	34.9	4	279	34.9
200.sixtrack	4	316	16.1	4	290	17.6
301.apsi	4	322	37.4	4	328	36.8

Hardware

CPU: AMD Opteron 840, 1.4 GHz
CPU MHz: 1400
FPU: Integrated
CPU(s) enabled: 4 cores, 4 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: 16x512MB 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.equake:  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

```