CFP2000 Result

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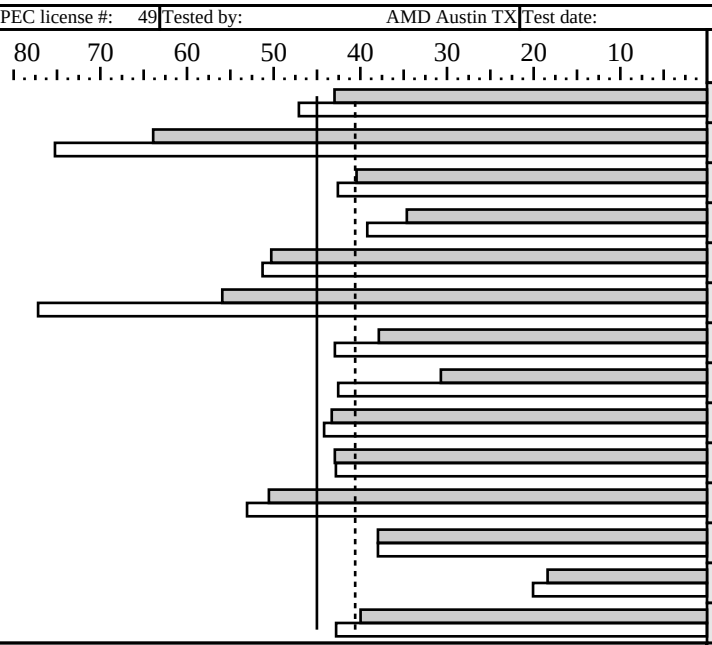
Einux
A4800

SPECfp_rate2000 = 45.0

SPECfp_rate_base2000 = 40.6

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	173	43.0	4	158	47.1
171.swim	4	225	63.9	4	191	75.2
172.mgrid	4	207	40.4	4	196	42.6
173.applu	4	281	34.6	4	249	39.2
177.mesa	4	129	50.3	4	127	51.3
178.galgel	4	241	55.9	4	174	77.2
179.art	4	319	37.9	4	281	42.9
183.equake	4	196	30.7	4	142	42.6
187.facerec	4	204	43.3	4	200	44.2
188.ammp	4	238	42.9	4	238	42.8
189.lucas	4	184	50.6	4	175	53.1
191.fma3d	4	257	38.0	4	257	38.0
200.sixtrack	4	277	18.4	4	254	20.1
301.apsi	4	302	40.0	4	282	42.8

Hardware

CPU:	AMD Opteron 842, 1.6 GHz
CPU MHz:	1600
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 +FD0 -O3 -QxW  -Qipo
Baseline: Fortran ifl +FDO -O3 -QxW  -Qipo
Peak tuning:
  168.wupwise:    ifl +FD0     -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 +FD0 -O3 -QaxW -Qipo -Oa -Qprefetch-
  173.applu:      ifl +FD0 -O3 -QxK  -Qipo     -Qscalar_rep-           -Zp8
  177.mesa:       icl +FD0 -O3 -QxW  -Qipo -Oa -Qscalar_rep-
  178.galgel:     f90 -Optimize:5 -fast
```

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Notes/Tuning Information (Continued)

```
  179.art:        icl                -Qipo -Oa                -Qunroll4 -Zp4
  183.equake:     icl      -O3 -QxK  -Qipo -Oa shlW32M6.lib             -Zp4
  187.facerec:    ifl +FD0 -O3 -QaxW -Qipo     -Qscalar_rep- -Qunroll1
  188.ammp:       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
```