



CFP2000 Result

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Einix
A4800

SPECfp_rate2000 = 21.6

SPECfp_rate_base2000 = 19.0

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	184	20.1	2	136	27.4
171.swim	2	313	23.0	2	260	27.7
172.mgrid	2	248	16.9	2	220	19.0
173.applu	2	306	15.9	2	263	18.5
177.mesa	2	109	29.8	2	102	32.0
178.galgel	2	270	24.9	2	248	27.1
179.art	2	343	17.6	2	276	21.8
183.quake	2	196	15.4	2	166	18.2
187.facerec	2	211	20.9	2	193	22.8
188.amp	2	255	20.0	2	234	21.8
189.lucas	2	243	19.1	2	206	22.6
191.fma3d	2	248	19.7	2	230	21.1
200.sixtrack	2	254	10.1	2	227	11.2
301.apsi	2	305	19.8	2	301	20.1

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 Reg SDRAM CL2.5
 Disk Subsystem: IDE 7200 RPM
 Other Hardware: None

Software

Operating System: SuSE Linux Enterprise Server 8 for x86
 Compiler: Intel C/C++ 7.0 build 20021212Z and Intel Fortran 7.0 build 20021212Z
 File System: ext2
 System State: Run level 3

Notes/Tuning Information

```
+FDO: PASS1=-prof_gen PASS2=-prof_use
icc and ifc are the Intel C/C++ and Fortran compilers
Portability:
  178.galgel: -FI
Baseline: C      icc +FDO -O3 -xW      -ipo
Baseline: Fortran ifc +FDO -O3 -xW      -ipo
Peak tuning:
  168.wupwise:  ifc -xK -axW -ipo -fno-alias -Qoption,f,-ip_ninl_max_stats=2000,
                -Qoption,f,-ip_ninl_max_total_stats=4500
  171.swim:      ifc +FDO -O3 -xK      -ipo -unroll2 -prefetch-
  172.mgrid:     ifc +FDO -O3      -axW -ipo -fno-alias
  173.applu:     ifc +FDO -O3 -xK      -ipo -scalar_rep-
  177.mesa:      icc +FDO -O3 -xW -ipo -fno-alias -Qoption,c,-ip_ninl_max_stats=1500
                -Qoption,c,-ip_ninl_max_total_stats=3500 -static
  178.galgel:    ifc +FDO -O3 -xW      -ipo -unroll1
  179.art:       icc      -xW      -ipo -fno-alias -nolib_inline
  183.quake:     icc      -O3 -xK      -ipo -fno-alias
```



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Notes/Tuning Information (Continued)

```
187.facerec:   ifc +FDO -O3      -axW -ipo -unroll1
188.ampp:      icc      -O3 -xW          -fno-alias -prefetch-
189.lucas:     ifc +FDO      -xW          -ipo -static -auto
191.fma3d:     ifc +FDO -O3 -xW          -ipo -static -Zp8
200.sixtrack:  ifc          -xW          -ipo -fno-alias -align
301.apsi:      ifc +FDO      -xW          -ipo -fno-alias -ansi_alias-
```

ONESTEP is used for all base and peak runs
Uniprocessor Kernel recompiled with SMP