



CFP2000 Result

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Einix
A4800

SPECfp_rate2000 = 13.4

SPECfp_rate_base2000 = 12.4

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	159	11.7	1	120	15.5
171.swim	1	180	20.0	1	179	20.1
172.mgrid	1	185	11.3	1	179	11.7
173.applu	1	223	10.9	1	205	11.9
177.mesa	1	104	15.6	1	97.9	16.6
178.galgel	1	193	17.4	1	191	17.6
179.art	1	208	14.5	1	182	16.6
183.equake	1	127	11.9	1	112	13.4
187.facerec	1	152	14.5	1	150	14.7
188.amp	1	232	11.0	1	215	11.9
189.lucas	1	167	13.9	1	153	15.2
191.fma3d	1	195	12.5	1	190	12.8
200.sixtrack	1	250	5.11	1	225	5.67
301.apsi	1	275	10.9	1	274	11.0

Hardware

CPU: AMD Opteron 144, 1.8 GHz
CPU MHz: 1800
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 Registered 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.equake:     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