CFP2000 Result

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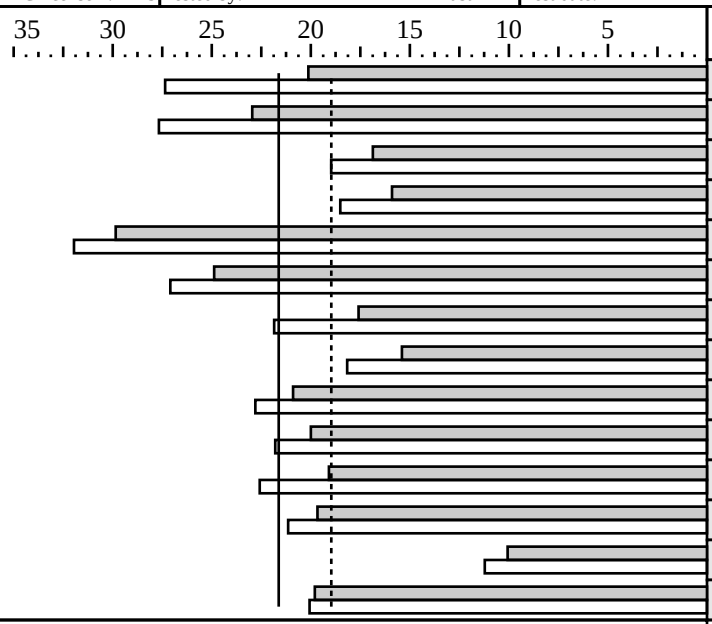
Einux
A4800

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.equake	2	196	15.4	2	166	18.2
187.facerec	2	211	20.9	2	193	22.8
188.ammp	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.equake:      icc      -O3 -xK       -ipo -fno-alias
```

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Notes/Tuning Information (Continued)

```
   187.facerec:    ifc +FDO -O3     -axW -ipo -unroll1
   188.ammp:       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                   -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
```