CFP2000 Result

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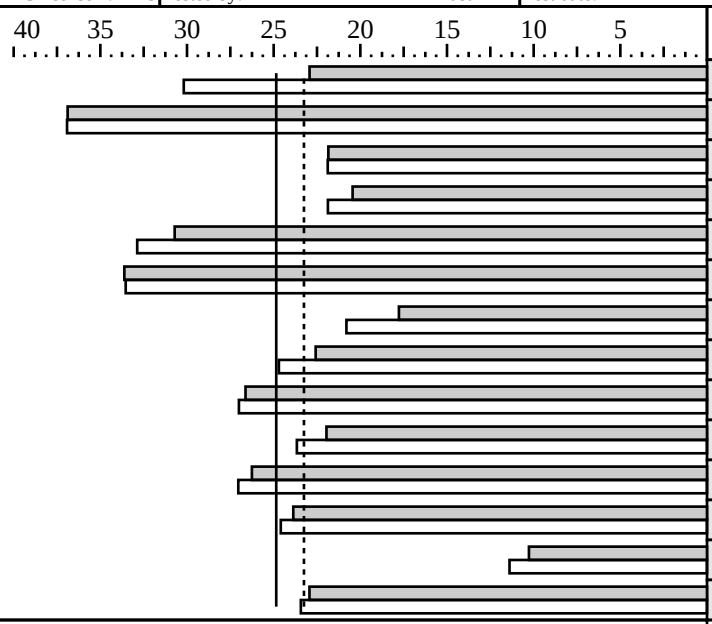
Einux
A4800

SPECfp_rate2000 = 24.9

SPECfp_rate_base2000 = 23.3

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	2	162	22.9	2	123	30.2
171.swim	2	195	36.9	2	195	36.9
172.mgrid	2	191	21.8	2	191	21.9
173.applu	2	238	20.4	2	223	21.9
177.mesa	2	106	30.7	2	98.8	32.9
178.galgel	2	200	33.6	2	201	33.5
179.art	2	339	17.8	2	290	20.8
183.equake	2	134	22.6	2	122	24.7
187.facerec	2	166	26.6	2	163	27.0
188.ammp	2	232	22.0	2	216	23.7
189.lucas	2	177	26.3	2	172	27.0
191.fma3d	2	204	23.9	2	198	24.6
200.sixtrack	2	248	10.3	2	224	11.4
301.apsi	2	263	22.9	2	257	23.4

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

Software

Operating System:	SuSE Linux Enterprise Server 8 for AMD64
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

```
The binaries were built on SuSE Linux Professional 8.1 running on an Opteron system
+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
```

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Notes/Tuning Information (Continued)

```
    183.equake:     icc      -O3 -xK      -ipo -fno-alias
    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 and NUMA support
```