CFP2000 Result

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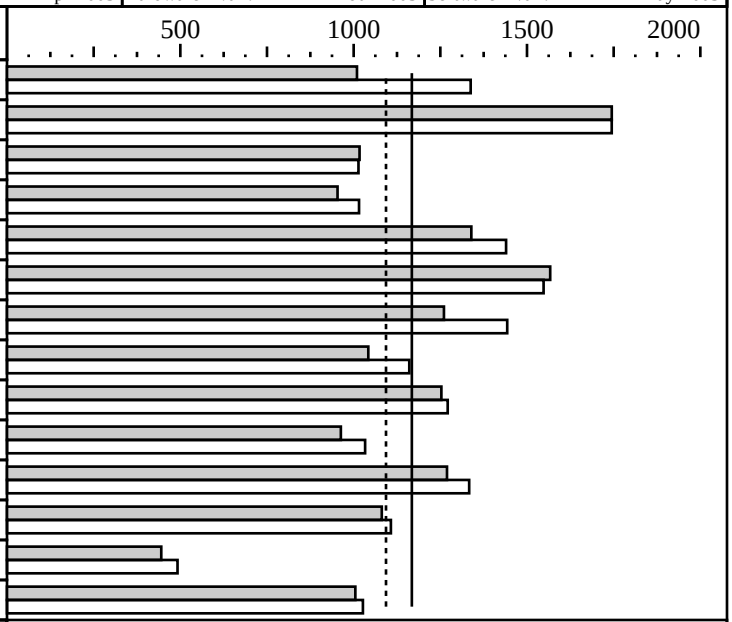
Einux
A4800

SPECfp2000 = 1168
SPECfp_base2000 = 1093

SPEC license #: 49 | Tested by: AMD Austin TX | Test date: Apr-2003 | Hardware Avail: Jul-2003 | Software Avail: May-2003

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	158	1010	120	1338
171.swim	3100	178	1745	178	1744
172.mgrid	1800	177	1017	178	1014
173.applu	2100	220	953	207	1015
177.mesa	1400	105	1339	97.2	1440
178.galgel	2900	185	1567	187	1548
179.art	2600	206	1260	180	1443
183.equake	1300	125	1042	112	1160
187.facerec	1900	152	1253	149	1271
188.ammp	2200	228	963	213	1033
189.lucas	2000	158	1269	150	1333
191.fma3d	2100	194	1081	190	1107
200.sixtrack	1100	247	445	224	492
301.apsi	2600	259	1005	253	1027



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 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
```