CFP2000 Result

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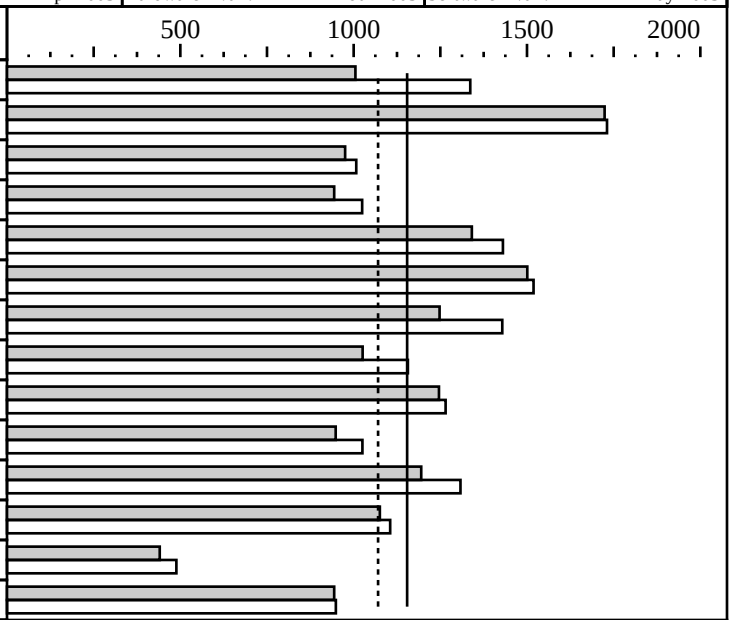
Einux
A4800

SPECfp2000 = 1154
SPECfp_base2000 = 1070

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	159	1005	120	1336
171.swim	3100	180	1724	179	1731
172.mgrid	1800	185	975	179	1007
173.applu	2100	223	944	205	1024
177.mesa	1400	104	1341	97.9	1431
178.galgel	2900	193	1501	191	1519
179.art	2600	208	1248	182	1429
183.equake	1300	127	1026	112	1156
187.facerec	1900	152	1246	150	1265
188.ammp	2200	232	948	215	1025
189.lucas	2000	167	1195	153	1308
191.fma3d	2100	195	1076	190	1105
200.sixtrack	1100	250	441	225	489
301.apsi	2600	275	944	274	949



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.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
```