CFP2000 Result

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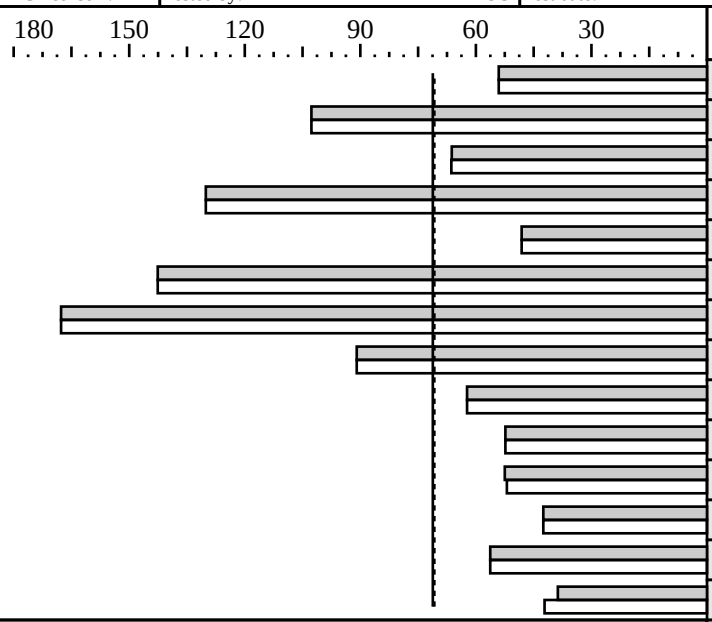
SGI
SGI Altix 3000 (1300MHz, Itanium 2)

SPECfp_rate2000 = 71.2

SPECfp_rate_base2000 = 70.8

SPEC license #: 4 | Tested by: SGI | Test date: Jan-2004 | Hardware Avail: Jul-2003 | Software Avail: Dec-2003



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	137	54.1	4	137	54.1
171.swim	4	140	103	4	140	103
172.mgrid	4	126	66.3	4	126	66.4
173.applu	4	74.9	130	4	74.9	130
177.mesa	4	135	48.1	4	135	48.1
178.galgel	4	94.4	143	4	94.4	143
179.art	4	71.9	168	4	71.9	168
183.equake	4	66.3	90.9	4	66.3	90.9
187.facerec	4	142	62.3	4	142	62.3
188.ammp	4	195	52.3	4	195	52.3
189.lucas	4	177	52.5	4	179	52.0
191.fma3d	4	229	42.5	4	229	42.5
200.sixtrack	4	90.7	56.3	4	90.7	56.3
301.apsi	4	312	38.7	4	286	42.2

Hardware

CPU:	Intel Itanium 2
CPU MHz:	1300
FPU:	Integrated
CPU(s) enabled:	4 cores, 4 chips, 1 core/chip
CPU(s) orderable:	4-64
Parallel:	No
Primary Cache:	16KBI + 16KBD (on chip) per CPU
Secondary Cache:	256KB (on chip) per CPU
L3 Cache:	3.0MB (on chip) per CPU
Other Cache:	N/A
Memory:	8 GB (16*512MB PC2700 DIMMS per 4cpu module)
Disk Subsystem:	1 x 36 GB SCSI (Seagate Cheetah 15k rpm)
Other Hardware:	None

Software

Operating System:	SGI ProPack(TM) v2.3
Compiler:	Intel(R) Fortran Compiler for Linux 8.0 (Build 20031017) Intel(R) C++ Compiler for Linux 8.0 (Build 20031017)
File System:	xfs
System State:	Single-user

Notes/Tuning Information

```
+FDO: PASS1=-prof_gen  PASS2=-prof_use

Baseline optimization flags:
  C programs:       -ipo -O3 +FDO -ansi_alias
  Fortran programs: -ipo -O3 +FDO

Portability Flags:
  178.galgel:  -FI

Peak optimization flags:
  168.wupwise: basepeak=yes
  171.swim: basepeak=yes
  172.mgrid: -O3 -ipo
  173.applu: basepeak=yes
  177.mesa: basepeak=yes
  178.galgel: basepeak=yes
  179.art: basepeak=yes
```

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Notes/Tuning Information (Continued)

```
    183.equake: basepeak=yes
    187.facerec: basepeak=yes
    188.ammp: basepeak=yes
    189.lucas: -O3 -ipo
    191.fma3d: basepeak=yes
    200.sixtrack: basepeak=yes
    301.apsi: -O3 -ipo

  Processes were bound to CPUs using dplace.
```