CFP2000 Result

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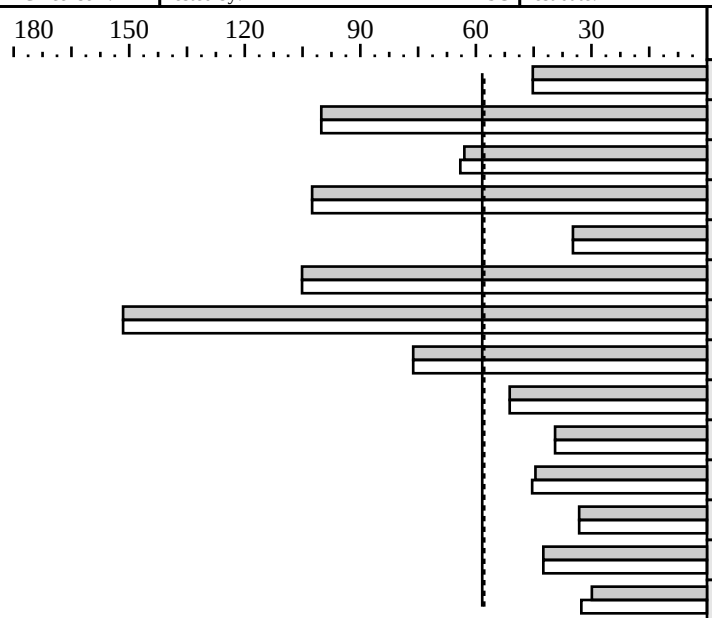
SGI
SGI Altix 3000 (1000MHz, Itanium 2)

SPECfp_rate2000 = 58.4

SPECfp_rate_base2000 = 57.8

SPEC license #: 4 | Tested by: SGI | Test date: Apr-2003 | Hardware Avail: Feb-2003 | Software Avail: Apr-2003



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	164	45.2	4	164	45.2
171.swim	4	144	100	4	144	100
172.mgrid	4	133	63.0	4	130	64.0
173.applu	4	95.0	103	4	95.0	103
177.mesa	4	187	34.8	4	187	34.8
178.galgel	4	128	105	4	128	105
179.art	4	79.6	152	4	79.6	152
183.equake	4	79.1	76.3	4	79.1	76.3
187.facerec	4	172	51.2	4	172	51.2
188.ammp	4	259	39.4	4	259	39.4
189.lucas	4	208	44.5	4	204	45.4
191.fma3d	4	294	33.2	4	294	33.2
200.sixtrack	4	120	42.5	4	120	42.5
301.apsi	4	404	29.9	4	370	32.6

Hardware

CPU:	Intel Itanium 2
CPU MHz:	1000
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 DIMMS per 4cpu module)
Disk Subsystem:	1 x 36 GB SCSI (Seagate Cheetah 15k rpm)
Other Hardware:	None

Software

Operating System:	SGI ProPack(TM) v2.1
Compiler:	Intel(R) Fortran Compiler for Linux 7.1 (Build 20030327) Intel(R) C++ Compiler for Linux 7.1 (Build 20030327)
File System:	xfs
System State:	Single-user

Notes/Tuning Information

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

Baseline optimization flags:
  C programs:       -ipo -O3 -ansi_alais +FDO
  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.
```