CFP2000 Result

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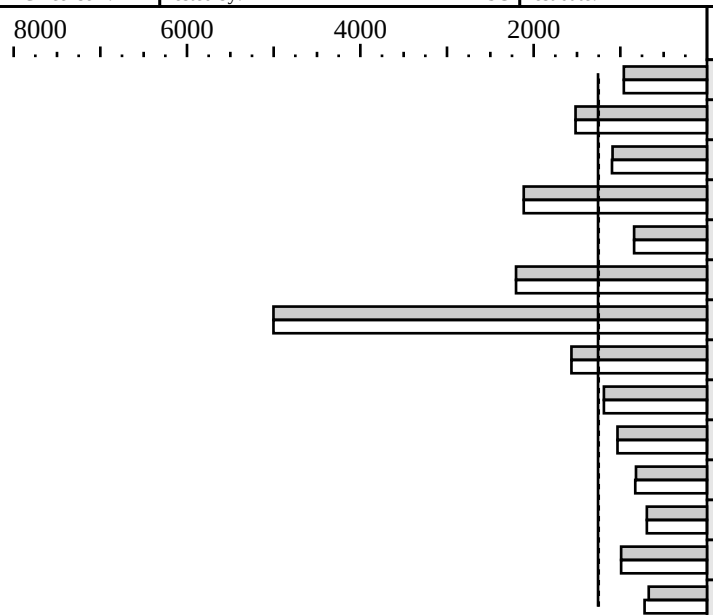
SGI
SGI Altix 3000 (1500MHz, Itanium 2)

SPECfp_rate2000 = 1257

SPECfp_rate_base2000 = 1250

SPEC license #: 4 | Tested by: SGI | Test date: Aug-2003 | Hardware Avail: Jun-2003 | Software Avail: Jul-2003



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	64	124	960	64	124	960
171.swim	64	152	1517	64	152	1517
172.mgrid	64	123	1090	64	122	1096
173.applu	64	73.7	2115	64	73.7	2115
177.mesa	64	124	841	64	124	841
178.galgel	64	97.7	2203	64	97.7	2203
179.art	64	38.6	5002	64	38.6	5002
183.equake	64	61.7	1564	64	61.7	1564
187.facerec	64	119	1190	64	119	1190
188.ammp	64	158	1033	64	158	1033
189.lucas	64	181	819	64	179	828
191.fma3d	64	225	694	64	225	694
200.sixtrack	64	82.4	991	64	82.4	991
301.apsi	64	287	672	64	268	720

Hardware

CPU:	Intel Itanium 2
CPU MHz:	1500
FPU:	Integrated
CPU(s) enabled:	64 cores, 64 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:	6.0MB (on chip) per CPU
Other Cache:	N/A
Memory:	128 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) v2.2
Compiler:	Intel(R) Fortran Compiler for Linux 7.1 (Build 20030701) Intel(R) C++ Compiler for Linux 7.1 (Build 20030701)
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.
```