CFP2000 Result

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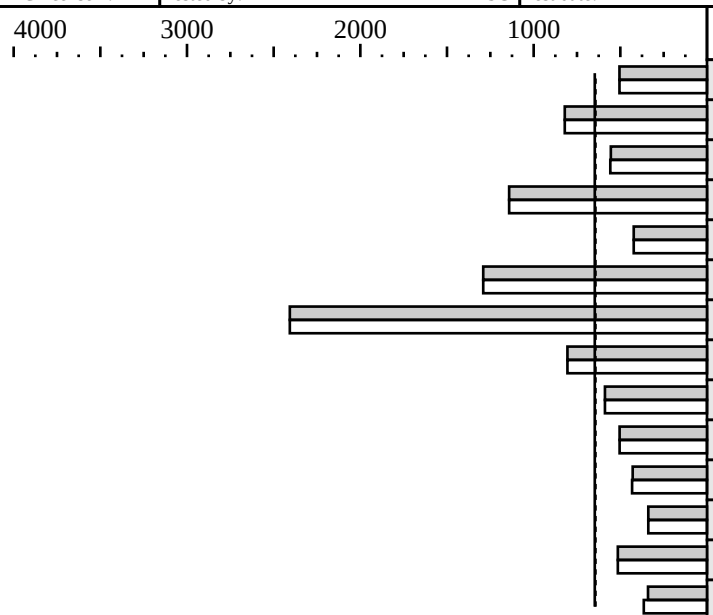
SGI
SGI Altix 3000 (1500MHz, Itanium 2)

SPECfp_rate2000 = 647

SPECfp_rate_base2000 = 644

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	32	118	505	32	118	505
171.swim	32	140	821	32	140	821
172.mgrid	32	120	555	32	120	558
173.applu	32	68.3	1141	32	68.3	1141
177.mesa	32	123	423	32	123	423
178.galgel	32	83.4	1291	32	83.4	1291
179.art	32	40.1	2407	32	40.1	2407
183.equake	32	59.9	805	32	59.9	805
187.facerec	32	120	589	32	120	589
188.ammp	32	162	504	32	162	504
189.lucas	32	173	429	32	172	432
191.fma3d	32	230	339	32	230	339
200.sixtrack	32	79.4	514	32	79.4	514
301.apsi	32	284	340	32	265	365

Hardware

CPU:	Intel Itanium 2
CPU MHz:	1500
FPU:	Integrated
CPU(s) enabled:	32 cores, 32 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:	64 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 20030507) Intel(R) C++ Compiler for Linux 7.1 (Build 20030507)
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.
```