CFP2000 Result

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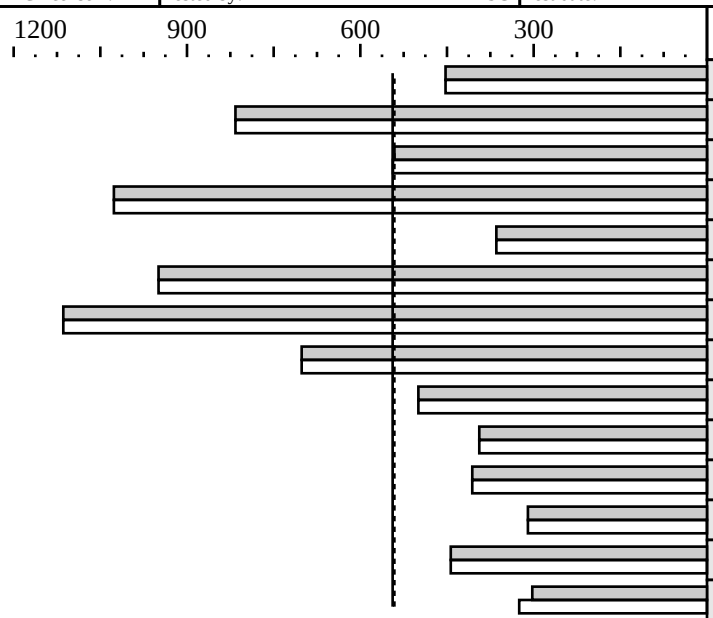
SGI
SGI Altix 3000 (1300MHz, Itanium 2)

SPECfp_rate2000 = 544

SPECfp_rate_base2000 = 541

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	131	453	32	131	453
171.swim	32	141	816	32	141	816
172.mgrid	32	124	541	32	123	544
173.applu	32	75.9	1027	32	75.9	1027
177.mesa	32	143	365	32	143	365
178.galgel	32	113	949	32	113	949
179.art	32	86.6	1114	32	86.6	1114
183.equake	32	68.8	702	32	68.8	702
187.facerec	32	141	500	32	141	500
188.ammp	32	207	394	32	207	394
189.lucas	32	183	406	32	183	406
191.fma3d	32	252	310	32	252	310
200.sixtrack	32	92.1	443	32	92.1	443
301.apsi	32	319	302	32	297	325

Hardware

CPU:	Intel Itanium 2
CPU MHz:	1300
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:	3.0MB (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.
```