CFP2000 Result

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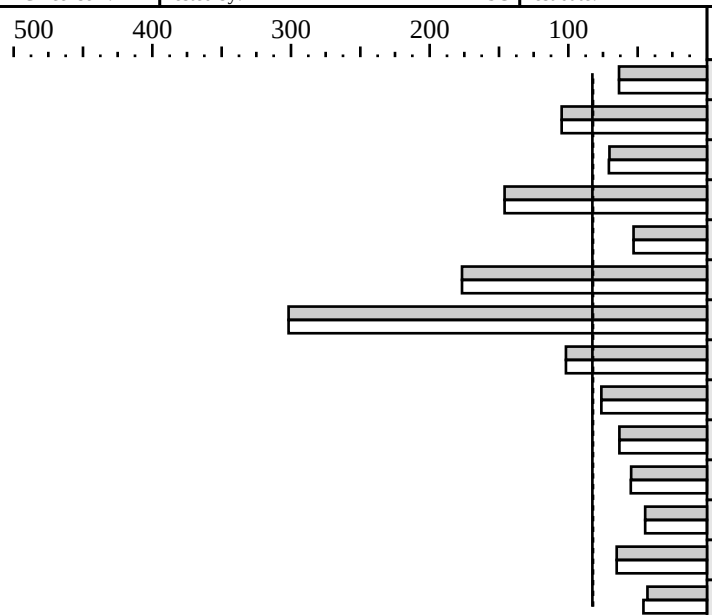
SGI
SGI Altix 3000 (1500MHz, Itanium 2)

SPECfp_rate2000 = 82.7

SPECfp_rate_base2000 = 82.2

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	4	117	63.4	4	117	63.4
171.swim	4	137	105	4	137	105
172.mgrid	4	119	70.3	4	118	70.8
173.applu	4	66.8	146	4	66.8	146
177.mesa	4	123	53.0	4	123	53.0
178.galgel	4	76.2	177	4	76.2	177
179.art	4	40.0	302	4	40.0	302
183.equake	4	59.3	102	4	59.3	102
187.facerec	4	116	76.2	4	116	76.2
188.ammp	4	162	63.2	4	162	63.2
189.lucas	4	170	54.7	4	169	55.0
191.fma3d	4	219	44.6	4	219	44.6
200.sixtrack	4	78.4	65.1	4	78.4	65.1
301.apsi	4	281	42.9	4	263	45.8

Hardware

CPU:	Intel Itanium 2
CPU MHz:	1500
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:	6.0MB (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) v2.2
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.
```