CFP2000 Result

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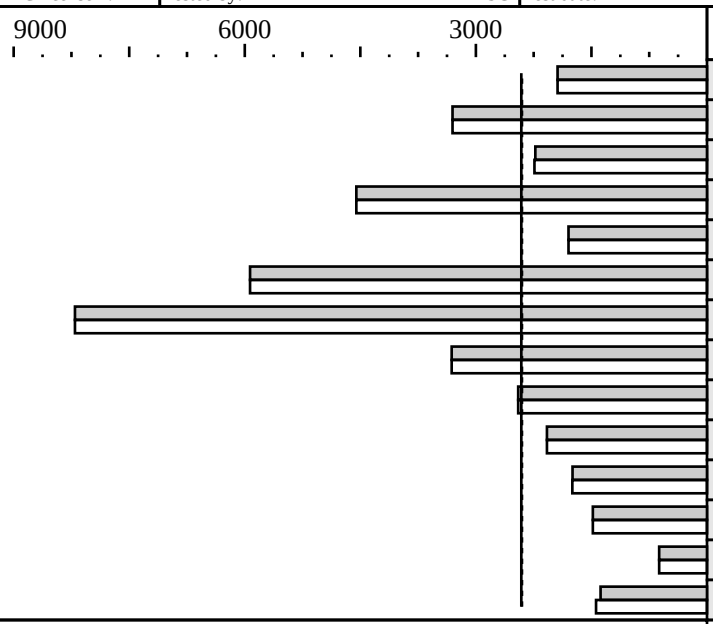
SGI
SGI Altix 3000 (1500MHz, Itanium 2)

SPECfp_rate2000 = 2410

SPECfp_rate_base2000 = 2402

SPEC license #: 4 | Tested by: SGI | Test date: May-2004 | Hardware Avail: Mar-2004 | Software Avail: May-2004



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	128	122	1940	128	122	1940
171.swim	128	139	3303	128	139	3303
172.mgrid	128	120	2228	128	119	2240
173.applu	128	68.5	4552	128	68.5	4552
177.mesa	128	116	1798	128	116	1798
178.galgel	128	72.6	5931	128	72.6	5931
179.art	128	47.1	8204	128	47.1	8204
183.equake	128	58.2	3314	128	58.2	3314
187.facerec	128	115	2451	128	115	2451
188.ammp	128	157	2078	128	157	2078
189.lucas	128	170	1746	128	170	1748
191.fma3d	128	210	1482	128	210	1482
200.sixtrack	128	263	621	128	263	621
301.apsi	128	279	1382	128	268	1440

Hardware

CPU:	Intel Itanium 2
CPU MHz:	1500
FPU:	Integrated
CPU(s) enabled:	128 cores, 128 chips, 1 core/chip
CPU(s) orderable:	4-256
Parallel:	No
Primary Cache:	16KBI + 16KBD (on chip) per core
Secondary Cache:	256KB (on chip) per core
L3 Cache:	6.0MB (on chip) per core
Other Cache:	N/A
Memory:	256 GB (16*512MB DIMMS per 4core module)
Disk Subsystem:	1 x 36 GB SCSI (Seagate Cheetah 15k rpm)
Other Hardware:	None

Software

Operating System:	SGI ProPack(TM) v3.0
Compiler:	Intel(R) Fortran Compiler for Linux 8.0 (Build 20040318) Intel(R) C++ Compiler for Linux 8.0 (Build 20040318)
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.
```