# CFP2000 Result

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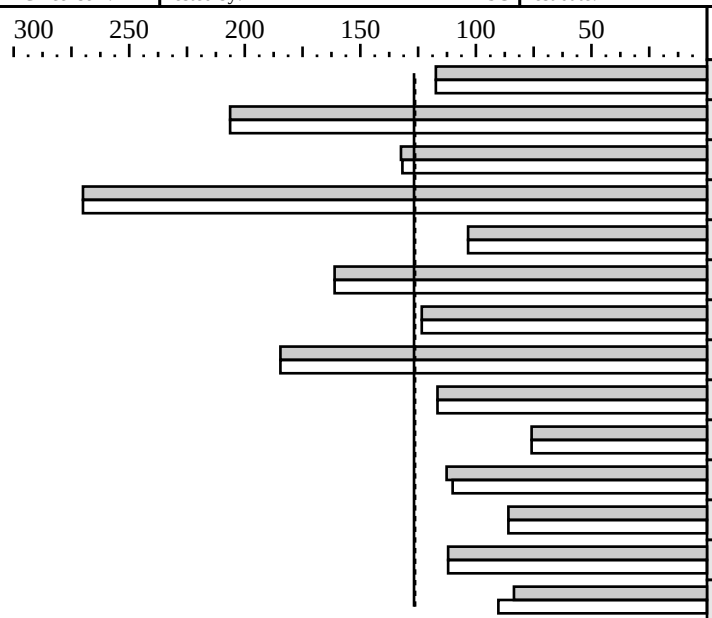
## SGI

SGI Altix 350 (1400MHz/1.5MB, Itanium 2)

SPECfp_rate2000 = 127

SPECfp_rate_base2000 = 126

SPEC license #: 4 | Tested by: SGI | Test date: Dec-2003 | Hardware Avail: Jan-2004 | Software Avail: Dec-2003




| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|---|---|---|---|---|---|---|
| 168.wupwise | 8 | 127 | 117 | 8 | 127 | 117 |
| 171.swim | 8 | 139 | 206 | 8 | 139 | 206 |
| 172.mgrid | 8 | 126 | 132 | 8 | 127 | 132 |
| 173.applu | 8 | 72.2 | 270 | 8 | 72.2 | 270 |
| 177.mesa | 8 | 126 | 103 | 8 | 126 | 103 |
| 178.galgel | 8 | 167 | 161 | 8 | 167 | 161 |
| 179.art | 8 | 195 | 123 | 8 | 195 | 123 |
| 183.equake | 8 | 65.4 | 185 | 8 | 65.4 | 185 |
| 187.facerec | 8 | 151 | 117 | 8 | 151 | 117 |
| 188.ammp | 8 | 269 | 75.9 | 8 | 269 | 75.9 |
| 189.lucas | 8 | 165 | 113 | 8 | 169 | 110 |
| 191.fma3d | 8 | 227 | 85.9 | 8 | 227 | 85.9 |
| 200.sixtrack | 8 | 91.1 | 112 | 8 | 91.1 | 112 |
| 301.apsi | 8 | 289 | 83.5 | 8 | 267 | 90.3 |

### Hardware

| | |
|---|---|
| CPU: | Intel Itanium 2 |
| CPU MHz: | 1400 |
| FPU: | Integrated |
| CPU(s) enabled: | 8 cores, 8 chips, 1 core/chip |
| CPU(s) orderable: | 2-16 |
| Parallel: | No |
| Primary Cache: | 16KBI + 16KBD (on chip) per CPU |
| Secondary Cache: | 256KB (on chip) per CPU |
| L3 Cache: | 1.5MB (on chip) per CPU |
| Other Cache: | N/A |
| Memory: | 16 GB (8*512MB PC2700 DIMMS per 2cpu module) |
| Disk Subsystem: | 1 x 36 GB SCSI (Seagate Cheetah 15k rpm) |
| Other Hardware: | None |

### Software

| | |
|---|---|
| Operating System: | SGI ProPack(TM) v2.3 |
| Compiler: | Intel(R) Fortran Compiler for Linux 8.0 (Build 20031017)<br>Intel(R) C++ Compiler for Linux 8.0 (Build 20031017) |
| 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.
```