



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.amp | 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.