



# CFP2000 Result

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**SGI**  
SGI Altix 3000 (1500MHz, Itanium 2)

SPECfp\_rate2000 = 165  
SPECfp\_rate\_base2000 = 164

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	8	117	127	8	117	127
171.swim	8	138	209	8	138	209
172.mgrid	8	119	140	8	118	141
173.applu	8	67.0	291	8	67.0	291
177.mesa	8	123	106	8	123	106
178.galgel	8	76.6	351	8	76.6	351
179.art	8	40.1	602	8	40.1	602
183.equake	8	59.4	203	8	59.4	203
187.facerec	8	115	153	8	115	153
188.amp	8	162	126	8	162	126
189.lucas	8	170	109	8	169	110
191.fma3d	8	219	89.0	8	219	89.0
200.sixtrack	8	78.5	130	8	78.5	130
301.apsi	8	282	85.7	8	259	93.1

**Hardware**

CPU: Intel Itanium 2  
CPU MHz: 1500  
FPU: Integrated  
CPU(s) enabled: 8 cores, 8 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: 16 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.