



# 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.amp	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.quake: 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.