



# CFP2000 Result

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**SGI**  
SGI Altix 350 (1400MHz/3MB, Itanium 2)

SPECfp2000 = 1942  
SPECfp\_base2000 = 1931

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	124	1285	124	1285	
171.swim	3100	78.1	3970	78.1	3970	
172.mgrid	1800	76.4	2355	76.0	2367	
173.applu	2100	65.2	3222	65.2	3222	
177.mesa	1400	122	1151	122	1151	
178.galgel	2900	81.5	3558	81.5	3558	
179.art	2600	47.5	5470	47.5	5470	
183.earthquake	1300	47.1	2761	47.1	2761	
187.facerec	1900	121	1565	121	1565	
188.amp	2200	173	1275	173	1275	
189.lucas	2000	135	1484	133	1504	
191.fma3d	2100	189	1111	189	1111	
200.sixtrack	1100	80.2	1371	80.2	1371	
301.apsi	2600	281	926	264	986	

### Hardware

CPU: Intel Itanium 2  
CPU MHz: 1400  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
CPU(s) orderable: 2-16  
Parallel: No  
Primary Cache: 16KBI + 16KBD (on chip) per core  
Secondary Cache: 256KB (on chip) per core  
L3 Cache: 3.0MB (on chip) per core  
Other Cache: N/A  
Memory: 4 GB (8\*512MB PC2100 DIMMS)  
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  
Extra CPUs were disabled at firmware.  
Processes were bound to CPUs using runon.