



# CFP2000 Result

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**SGI**  
SGI Altix 3000 (900MHz, Itanium 2)

SPECfp\_rate2000 = **693**  
SPECfp\_rate\_base2000 = **689**

SPEC license #: 4 | Tested by: SGI | Test date: Mar-2003 | Hardware Avail: Feb-2003 | Software Avail: Feb-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	64	191	621	64	191	621
171.swim	64	158	1454	64	158	1454
172.mgrid	64	144	925	64	145	924
173.applu	64	109	1432	64	109	1432
177.mesa	64	214	486	64	214	486
178.galgel	64	264	815	64	264	815
179.art	64	294	656	64	294	656
183.quake	64	101	957	64	101	957
187.facerec	64	217	651	64	217	651
188.amp	64	424	385	64	424	385
189.lucas	64	220	676	64	217	683
191.fma3d	64	331	471	64	331	471
200.sixtrack	64	150	543	64	150	543
301.apsi	64	456	423	64	423	456

### Hardware

CPU: Intel Itanium 2  
 CPU MHz: 900  
 FPU: Integrated  
 CPU(s) enabled: 64 cores, 64 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: 1.5MB (on chip) per CPU  
 Other Cache: N/A  
 Memory: 128 GB (16\*512MB DIMMS each 4-way module)  
 Disk Subsystem: 1 x 36 GB SCSI (Seagate Cheetah 15k rpm)  
 Other Hardware: None

### Software

Operating System: SGI ProPack(TM) v2.1  
 Compiler: Intel(R) Fortran Compiler for Linux 7.0 (Build 20021210)  
 Intel(R) C++ Compiler for Linux 7.0 (Build 20021210)  
 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  
 183.quake: basepeak=yes



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SGI Altix 3000 (900MHz, Itanium 2)

SPECfp\_rate2000 = 693

SPECfp\_rate\_base2000 = 689

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## Notes/Tuning Information (Continued)

```
187.facerec: basepeak=yes
188.amp: 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.