



# CFP2000 Result

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## ION I2X2 (1.6GHz Itanium 2 processor)

SPECfp2000 = 2001  
SPECfp\_base2000 = 1984

SPEC license #: 2697 Tested by: ION Test date: May-2004 Hardware Avail: May-2004 Software Avail: Apr-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	124	1289	124	1289	
171.swim	3100	86.5	3586	86.5	3586	
172.mgrid	1800	83.7	2151	83.7	2151	
173.applu	2100	60.7	3459	60.7	3459	
177.mesa	1400	108	1294	108	1294	
178.galgel	2900	87.1	3329	85.9	3378	
179.art	2600	45.0	5774	40.6	6401	
183.equake	1300	47.3	2748	47.3	2748	
187.facerec	1900	110	1720	110	1720	
188.amp	2200	159	1379	159	1379	
189.lucas	2000	124	1608	124	1608	
191.fma3d	2100	189	1113	189	1113	
200.sixtrack	1100	69.8	1576	69.8	1576	
301.apsi	2600	279	930	279	930	

### Hardware

CPU: Intel Itanium 2  
CPU MHz: 1596  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
CPU(s) orderable: 1-2  
Parallel: No  
Primary Cache: 16KBI + 16KBD per core (on chip)  
Secondary Cache: 256KB (I+D) per core (on chip)  
L3 Cache: 3072KB (I+D) per core (on chip)  
Other Cache: N/A  
Memory: 8 GB (8x1024KB DDR266, 2.5-3-3 DIMMs)  
Disk Subsystem: 1x 18GB SCSI (Seagate Cheetah 10k rpm)  
Other Hardware: None

### Software

Operating System: Red Hat Enterprise Linux AS 2.1, smp kernel, 2.4.18-e.43  
Compiler: Intel(R) Fortran Compiler for Linux 8.0 (Build 20040416)  
Intel(R) C++ Compiler for Linux 8.0 (Build 20040416)  
MicroQuill SmartHeap library 7.01  
File System: ext3  
System State: Multi-user

## Notes/Tuning Information

Only one processor installed.

Baseline optimization flags:

C programs: PASS1=-prof\_gen PASS2=-fast -auto\_ilp32 -ansi\_alias -prof\_use  
Fortran programs: PASS1=-prof\_gen PASS2=-fast -prof\_use

FP Peak optimization flags:

168.wupwise: basepeak=yes  
171.swim: basepeak=yes  
172.mgrid: basepeak=yes  
173.applu: basepeak=yes  
177.mesa: basepeak=yes



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## Notes/Tuning Information (Continued)

```
178.galgel: PASS1=-prof_gen PASS2=-O3 -ipo -prof_use
179.art: PASS1=-prof_gen PASS2=-O3 -ipo -ansi_alias -prof_use
183.quake: basepeak=yes
187.facerec: basepeak=yes
188.amp: basepeak=yes
189.lucas: basepeak=yes
191.fma3d: basepeak=yes
200.sixtrack: basepeak=yes
301.apsi: basepeak=yes
```

Portability Flags:  
178.galgel: -FI