



# CFP2000 Result

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**ION**  
A20 (Intel Xeon processor 5060, 3.2GHz)

SPECfp2000 = 1701  
SPECfp\_base2000 = 1701

SPEC license #: 2697 | Tested by: ION | Test date: Aug-2006 | Hardware Avail: Jul-2006 | Software Avail: Jul-2006

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
168.wupwise	1600	48.0	3336	48.0	3336	[Bar chart showing ratio 3336]			
171.swim	3100	122	2542	122	2542	[Bar chart showing ratio 2542]			
172.mgrid	1800	128	1407	128	1407	[Bar chart showing ratio 1407]			
173.applu	2100	134	1571	134	1571	[Bar chart showing ratio 1571]			
177.mesa	1400	104	1347	104	1347	[Bar chart showing ratio 1347]			
178.galgel	2900	91.7	3162	91.7	3162	[Bar chart showing ratio 3162]			
179.art	2600	78.7	3306	78.7	3306	[Bar chart showing ratio 3306]			
183.earth	1300	57.7	2251	57.7	2251	[Bar chart showing ratio 2251]			
187.facerec	1900	122	1553	122	1553	[Bar chart showing ratio 1553]			
188.amp	2200	217	1014	217	1014	[Bar chart showing ratio 1014]			
189.lucas	2000	122	1636	122	1636	[Bar chart showing ratio 1636]			
191.fma3d	2100	141	1485	141	1485	[Bar chart showing ratio 1485]			
200.sixtrack	1100	173	635	173	635	[Bar chart showing ratio 635]			
301.apsi	2600	220	1179	220	1179	[Bar chart showing ratio 1179]			

### Hardware

CPU: Intel Xeon Processor 5060 (1066Mhz System Bus)  
 CPU MHz: 3200  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip (HyperThreading Technology disabled)  
 CPU(s) orderable: 1,2 chips  
 Parallel: No  
 Primary Cache: 12KB(I) + 16KB(D) on chip, per core  
 Secondary Cache: 2MB (I+D) on chip, per core  
 L3 Cache: None  
 Other Cache: None  
 Memory: 8 GB (8\*1GB PC2 5300 FB-DIMMs)  
 Disk Subsystem: 1 x 80GB SATA (Seagate ST380817AS Barracuda 7200rpm)  
 Other Hardware: None

### Software

Operating System: Red Hat Enterprise Linux ES 4 Update 3 for x86 (32-bit)  
 Compiler: Intel(R) Fortran Compiler for 32-bit apps, V9.1 (Build 20060706Z)  
 Intel(R) C++ Compiler for 32-bit apps, V9.1 (Build 20060706Z)  
 File System: ext3  
 System State: Multi-user

## Notes/Tuning Information

Tested by ION Computer Systems  
 BIOS 2.00 Build 54  
 HyperThreading Technology Disabled in BIOS  
 Enhanced SpeedStep Disabled in BIOS  
 kernel 2.6.9-34.0.1.ELsmp  
 +FDO: PASS1=-prof\_gen PASS2=-prof\_use

SPEC CFP2000 Baseline optimization flags  
 C programs: -fast -ansi\_alias +FDO  
 Fortran programs: -fast +FDO  
 +FDO: PASS1=-prof\_gen PASS2=-prof\_use

SPEC CFP2000 Peak optimization flags:  
 basepeak=yes set globally

Portability Flags:  
 178.galgel: -FI