



# CFP2000 Result

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**ION**  
A20 (Intel Xeon processor 5050, 3.0GHz)

SPECfp2000 = 1510

SPECfp\_base2000 = 1510

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	63.8	2508	63.8	2508	
171.swim	3100	176	1757	176	1757	
172.mgrid	1800	131	1377	131	1377	
173.applu	2100	156	1348	156	1348	
177.mesa	1400	91.0	1539	91.0	1539	
178.galgel	2900	108	2676	108	2676	
179.art	2600	59.2	4390	59.2	4390	
183.quake	1300	89.7	1449	89.7	1449	
187.facerec	1900	144	1320	144	1320	
188.amp	2200	205	1072	205	1072	
189.lucas	2000	159	1261	159	1261	
191.fma3d	2100	163	1288	163	1288	
200.sixtrack	1100	188	586	188	586	
301.apsi	2600	235	1106	235	1106	

### Hardware

CPU: Intel Xeon Processor 5050 (667Mhz System Bus)  
 CPU MHz: 3000  
 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 400GB SATA, 7200rpm  
 Other Hardware: None

### Software

Operating System: Red Hat Enterprise Linux ES 4 Update 3 for AMD64/Intel EM64T  
 Compiler: Intel(R) Fortran Compiler for EM64T, V9.1 (Build 20060519)  
 Intel(R) C++ Compiler for EM64T, V9.1 (Build 20060519)  
 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