



# CFP2000 Result

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**ION**  
A20 (Intel Xeon processor 5150, 2.66GHz)

SPECfp2000 = 2450  
SPECfp\_base2000 = 2450

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	44.3	3609	44.3	3609
171.swim	3100	116	2673	116	2673
172.mgrid	1800	105	1713	105	1713
173.applu	2100	111	1887	111	1887
177.mesa	1400	51.4	2723	51.4	2723
178.galgel	2900	47.8	6069	47.8	6069
179.art	2600	25.4	10242	25.4	10242
183.quake	1300	67.3	1932	67.3	1932
187.facerec	1900	74.0	2567	74.0	2567
188.amp	2200	116	1903	116	1903
189.lucas	2000	110	1818	110	1818
191.fma3d	2100	105	1996	105	1996
200.sixtrack	1100	108	1014	108	1014
301.apsi	2600	170	1528	170	1528

### Hardware

CPU: Intel Xeon Processor 5150 (1333Mhz System Bus)  
 CPU MHz: 2666  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip  
 CPU(s) orderable: 1, 2 chips  
 Parallel: No  
 Primary Cache: 32KB(I) + 32KB(D) on chip, per core  
 Secondary Cache: 4MB (I+D) on chip, per chip  
 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 1.00 Build 45  
 Enhanced SpeedStep Disabled in BIOS  
 Hardware Prefetcher Enabled in BIOS (Default)  
 Adjacent Cache Line Prefetch Enabled in BIOS (Default)  
 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:



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## Notes/Tuning Information (Continued)

178.galgel: -FI