



# CFP2000 Result

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**ION**  
**A20 (Intel Xeon processor 5130, 2GHz)**

**SPECfp\_rate2000 = 65.1**  
**SPECfp\_rate\_base2000 = 65.1**

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	72.6	102	4	72.6	102
171.swim	4	273	52.7	4	273	52.7
172.mgrid	4	189	44.2	4	189	44.2
173.applu	4	191	51.1	4	191	51.1
177.mesa	4	73.0	89.0	4	73.0	89.0
178.galgel	4	77.9	173	4	77.9	173
179.art	4	82.5	146	4	82.5	146
183.equake	4	119	50.8	4	119	50.8
187.facerec	4	111	79.3	4	111	79.3
188.amp	4	222	45.9	4	222	45.9
189.lucas	4	182	51.0	4	182	51.0
191.fma3d	4	195	49.8	4	195	49.8
200.sixtrack	4	140	36.4	4	140	36.4
301.apsi	4	229	52.7	4	229	52.7

### Hardware

CPU: Intel Xeon Processor 5130 (1333Mhz System Bus)  
CPU MHz: 2000  
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 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  
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