



# CFP2000 Result

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

SPECfp\_rate2000 = 55.9  
SPECfp\_rate\_base2000 = 55.9

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	79.4	93.5	4	79.4	93.5
171.swim	4	294	49.0	4	294	49.0
172.mgrid	4	193	43.2	4	193	43.2
173.applu	4	211	46.2	4	211	46.2
177.mesa	4	106	61.5	4	106	61.5
178.galgel	4	102	132	4	102	132
179.art	4	124	97.6	4	124	97.6
183.quake	4	132	45.8	4	132	45.8
187.facerec	4	138	63.7	4	138	63.7
188.amp	4	237	43.1	4	237	43.1
189.lucas	4	199	46.7	4	199	46.7
191.fma3d	4	208	46.8	4	208	46.8
200.sixtrack	4	174	29.3	4	174	29.3
301.apsi	4	242	49.9	4	242	49.9

### 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 enabled)  
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 20060519Z)  
Intel(R) C++ Compiler for 32-bit apps, V9.1 (Build 20060519Z)  
File System: ext3  
System State: Multi-user

## Notes/Tuning Information

Tested by ION Computer Systems  
BIOS 2.00 Build 54  
HyperThreading Technology Enabled in BIOS (Default)  
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