



# CFP2000 Result

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## ION

### A20 (Intel Xeon processor 5160, 3.0GHz)

SPECfp\_rate2000 = 79.6

SPECfp\_rate\_base2000 = 79.6

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	68.0	109	4	68.0	109
171.swim	4	265	54.3	4	265	54.3
172.mgrid	4	171	48.9	4	171	48.9
173.applu	4	183	53.3	4	183	53.3
177.mesa	4	48.0	135	4	48.0	135
178.galgel	4	61.5	219	4	61.5	219
179.art	4	55.0	219	4	55.0	219
183.quake	4	131	46.0	4	131	46.0
187.facerec	4	90.8	97.0	4	90.8	97.0
188.amp	4	119	85.5	4	119	85.5
189.lucas	4	178	52.0	4	178	52.0
191.fma3d	4	159	61.4	4	159	61.4
200.sixtrack	4	98.5	51.8	4	98.5	51.8
301.apsi	4	186	64.9	4	186	64.9

#### Hardware

CPU: Intel Xeon Processor 5160 (1333Mhz System Bus)  
 CPU MHz: 3000  
 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