



# CFP2000 Result

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**ION Computer Systems**  
SR2300WV2 (3.2GHz Xeon processor w. 2MB L3 cache)

SPECfp\_rate2000 = 20.6  
SPECfp\_rate\_base2000 = 20.7

SPEC license #: 2697 | Tested by: ION | Test date: Feb-2004 | Hardware Avail: Feb-2004 | Software Avail: Jan-2004

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	127	29.3	2	127	29.3
171.swim	2	465	15.5	2	465	15.5
172.mgrid	2	264	15.8	2	275	15.2
173.applu	2	362	13.4	2	362	13.4
177.mesa	2	97.6	33.3	2	97.6	33.3
178.galgel	2	138	48.9	2	139	48.6
179.art	2	274	22.0	2	276	21.9
183.quake	2	156	19.3	2	164	18.3
187.facerec	2	163	27.0	2	163	27.0
188.amp	2	257	19.9	2	257	19.9
189.lucas	2	318	14.6	2	318	14.6
191.fma3d	2	269	18.1	2	269	18.1
200.sixtrack	2	180	14.2	2	180	14.2
301.apsi	2	298	20.2	2	298	20.2

### Hardware

CPU: Intel Xeon processor, 533MHz system bus  
CPU MHz: 3200  
FPU: Integrated  
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip  
CPU(s) orderable: 1-2  
Parallel: No  
Primary Cache: 12K(I) micro-ops + 8KB(D) on chip  
Secondary Cache: 512KB(I+D) on chip  
L3 Cache: 2048KB(I+D) on chip  
Other Cache: None  
Memory: 2 GB (2x1GB 2-2-2 DIMMs)  
Disk Subsystem: 1x 80GB IDE  
Other Hardware: None

### Software

Operating System: Red Hat Enterprise Linux ES release 3  
Compiler: Intel(R) Fortran Compiler for Linux 8.0 (Build 20031231Z)  
Intel(R) C++ Compiler for Linux 8.0 (Build 20031231Z)  
File System: ext2  
System State: Multi-user, 2.4.21 smp kernel

## Notes/Tuning Information

HyperThreading disabled in BIOS

Baseline optimization flags:

C programs: PASS1= -xW -prof\_gen PASS2= -xW -ipo -O3 -prof\_use  
Fortran programs: PASS1= -xW -prof\_gen PASS2= -xW -ipo -O3 -prof\_use

FP Peak optimization flags:

168.wupwise: basepeak=yes  
171.swim: basepeak=yes  
172.mgrid: PASS1= -xN -prof\_gen PASS2= -xN -ipo -O3 -prof\_use  
173.applu: basepeak=yes  
177.mesa: basepeak=yes  
178.galgel: PASS1= -xN -prof\_gen PASS2= -xN -ipo -O3 -prof\_use  
179.art: PASS1= -xN -prof\_gen PASS2= -xN -ipo -O3 -prof\_use  
183.quake: PASS1= -xN -prof\_gen PASS2= -xN -ipo -O3 -prof\_use  
187.facerec: basepeak=yes  
188.amp: basepeak=yes



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## Notes/Tuning Information (Continued)

189.lucas: basepeak=yes  
191.fma3d: basepeak=yes  
200.sixtrack: basepeak=yes  
301.apsi: basepeak=yes

FP Portability Flags:  
178.galgel: -FI