



# CFP2000 Result

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**ION Computer Systems**  
LN10J (3.4GHz Xeon processor w. 1MB L2 cache)

SPECfp2000 = **1505**  
SPECfp\_base2000 = **1484**

SPEC license #: 2697 | Tested by: ION | Test date: Jan-2005 | Hardware Avail: Dec-2004 | Software Avail: Dec-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	65.1	2459	65.1	2459	
171.swim	3100	151	2051	151	2051	
172.mgrid	1800	133	1349	133	1349	
173.applu	2100	151	1393	151	1393	
177.mesa	1400	96.2	1456	96.2	1456	
178.galgel	2900	118	2452	118	2451	
179.art	2600	113	2298	113	2298	
183.quake	1300	74.2	1753	61.7	2106	
187.facerec	1900	112	1697	112	1697	
188.amp	2200	306	719	303	727	
189.lucas	2000	108	1853	109	1843	
191.fma3d	2100	166	1263	166	1263	
200.sixtrack	1100	181	609	181	609	
301.apsi	2600	244	1066	244	1066	

### Hardware

CPU: Intel Xeon processor, 800MHz system bus  
 CPU MHz: 3392  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 2 chips, 1 core/chip, HyperThreading disabled  
 CPU(s) orderable: 1-2  
 Parallel: No  
 Primary Cache: 12K(I) micro-ops + 8KB(D) on chip  
 Secondary Cache: 1MB (I+D) on chip  
 L3 Cache: None  
 Other Cache: None  
 Memory: 4 GB (4x1GB DDR2-400 DIMMs)  
 Disk Subsystem: 80GB Seagate SATA disk  
 Other Hardware: None

### Software

Operating System: SuSE Linux Professional 9.1, IA-32, 2.6.4-52-smp  
 Compiler: Intel(R) Fortran Compiler, V8.1, IA-32 (Build 20041118Z)  
 Intel(R) C Compiler, V8.1, IA-32 (Build 20041118Z)  
 MicroQuill SmartHeap Library 7.1, IA-32 (www.microquill.com)  
 File System: ext2  
 System State: Multi-user, run level 3

## Notes/Tuning Information

HyperThreading disabled in BIOS

Baseline optimization flags:

C programs: -xP -fast -ansi\_alias +FDO  
 Fortran programs: -xP -fast +FDO

FP Peak optimization flags:

168.wupwise: basepeak=yes  
 171.swim: basepeak=yes  
 72.mgrid: basepeak=yes  
 173.applu: basepeak=yes  
 177.mesa: basepeak=yes  
 178.galgel: -xN -fast -ansi\_alias +FDO  
 179.art: basepeak=yes  
 183.quake: -xW -fast -lsmartheap +FDO  
 187.facerec: basepeak=yes  
 188.amp: -xP -alias\_args +FDO



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## Notes/Tuning Information (Continued)

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189.lucas: -xN -fast -prefetch- +FDO
191.fma3d: basepeak=yes
200.sixtrack: basepeak=yes
301.apsi: basepeak=yes
```

```
FP Portability Flags:
178.galgel: -FI
```