



# CFP2000 Result

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## ION Computer Systems

LN10J (3.4GHz Xeon processor,1MB L2 cache,800MHz FSB)

SPECfp2000 = 1427

SPECfp\_base2000 = 1412

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	82.5	1940	82.5	1940
171.swim	3100	163	1908	163	1908
172.mgrid	1800	139	1295	139	1295
173.applu	2100	155	1359	155	1359
177.mesa	1400	96.3	1454	96.3	1454
178.galgel	2900	119	2438	123	2354
179.art	2600	117	2219	117	2219
183.quake	1300	76.4	1702	63.3	2053
187.facerec	1900	117	1624	117	1624
188.amp	2200	311	708	311	708
189.lucas	2000	122	1645	121	1648
191.fma3d	2100	171	1229	171	1229
200.sixtrack	1100	182	603	182	603
301.apsi	2600	255	1021	255	1021

### Hardware

CPU: Intel Xeon processor, 800MHz system bus  
CPU MHz: 3189  
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: 1024KB (I+D) on chip  
L3 Cache: None  
Other Cache: None  
Memory: 4 GB (4x1GB DDR2-400 DIMMs)  
Disk Subsystem: 1x 250GB SATA  
Other Hardware: None

### Software

Operating System: Red Hat Enterprise Linux ES 3, IA-32, 2.4.21 smp kernel  
Compiler: Intel(R) Fortran Compiler for Linux 8.1, IA-32 (Build 20041118Z)  
Intel(R) C++ Compiler for Linux 8.1, 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: PASS1= -xN -prof\_gen PASS2= -xN -fast -prof\_use

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

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 -O3 -ipo -ansi\_alias +FDO

179.art: basepeak=yes

183.quake: PASS1= -xW -prof\_gen PASS2= -xW -fast -prof\_use

Extra Library: -L\${SH\_PATH} -lsmartheap (SH\_PATH is path to SmartHeap Library)

187.facerec: basepeak=yes

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## Notes/Tuning Information (Continued)

```
188. ammp: basepeak=yes
189. lucas: -xN -O3 -ipo -prefetch- +FDO
191. fma3d: basepeak=yes
200. sixtrack: basepeak=yes
301. psi: basepeak=yes
```

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