



# CFP2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

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

SPECfp\_rate2000 = 24.9  
SPECfp\_rate\_base2000 = 24.5

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	79.2	46.9	2	79.2	46.9
171.swim	2	323	22.3	2	323	22.3
172.mgrid	2	221	18.9	2	221	18.9
173.applu	2	238	20.5	2	238	20.5
177.mesa	2	99.2	32.8	2	99.2	32.8
178.galgel	2	167	40.2	2	166	40.6
179.art	2	193	31.3	2	193	31.3
183.quake	2	121	25.0	2	98.9	30.5
187.facerec	2	141	31.2	2	141	31.2
188.amp	2	325	15.7	2	325	15.7
189.lucas	2	215	21.6	2	211	22.0
191.fma3d	2	224	21.8	2	224	21.8
200.sixtrack	2	181	14.1	2	181	14.1
301.apsi	2	286	21.1	2	286	21.1

### 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  
 172.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



# CFP2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

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

SPECfp\_rate2000 = 24.9

SPECfp\_rate\_base2000 = 24.5

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

## Notes/Tuning Information (Continued)

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

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