



CFP2000 Result

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

SPECfp2000 = 1648
SPECfp_base2000 = 1636

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	56.3	2841	56.3	2841	
171.swim	3100	151	2050	151	2050	
172.mgrid	1800	119	1507	119	1507	
173.applu	2100	145	1451	145	1451	
177.mesa	1400	71.1	1970	71.1	1970	
178.galgel	2900	115	2524	115	2524	
179.art	2600	87.2	2982	87.2	2982	
183.earthquake	1300	67.6	1923	67.6	1923	
187.facerec	1900	107	1772	107	1772	
188.amp	2200	238	926	231	954	
189.lucas	2000	111	1800	111	1800	
191.fma3d	2100	149	1413	141	1487	
200.sixtrack	1100	183	600	178	617	
301.apsi	2600	241	1078	241	1078	

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: Red Hat Enterprise Linux AS 3, 2.4.21-20.ELsmp, EM64T
Compiler: Intel(R) Fortran Compiler for EM64T, V8.1 (Build 20041123)
Intel(R) C Compiler for EM64T, V8.1 (Build 20041123)
File System: ext3
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 -ipo -O3 +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: basepeak=yes
179.art: basepeak=yes
183.earthquake: basepeak=yes
187.facerec: basepeak=yes
188.amp: -xP -alias_args +FDO



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Notes/Tuning Information (Continued)

```
189.lucas: basepeak=yes
191.fma3d: -xW -ipo -O3 +FDO
200.sixtrack: -xP -ipo +FDO
301.apsi: basepeak=yes
```

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