



CFP2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

ION Computer Systems

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

SPECfp_rate2000 = 24.3

SPECfp_rate_base2000 = 23.8

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	90.8	40.9	2	90.8	40.9
171.swim	2	322	22.3	2	322	22.3
172.mgrid	2	230	18.1	2	230	18.1
173.applu	2	242	20.1	2	242	20.1
177.mesa	2	99.0	32.8	2	99.0	32.8
178.galgel	2	163	41.3	2	166	40.6
179.art	2	199	30.3	2	199	30.3
183.quake	2	128	23.5	2	96.0	31.4
187.facerec	2	148	29.7	2	148	29.7
188.amp	2	331	15.4	2	331	15.4
189.lucas	2	218	21.3	2	214	21.7
191.fma3d	2	224	21.7	2	224	21.7
200.sixtrack	2	182	14.0	2	182	14.0
301.apsi	2	306	19.7	2	306	19.7

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



CFP2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

ION Computer Systems

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

SPECfp_rate2000 = 24.3

SPECfp_rate_base2000 = 23.8

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

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
```