



CFP2000 Result

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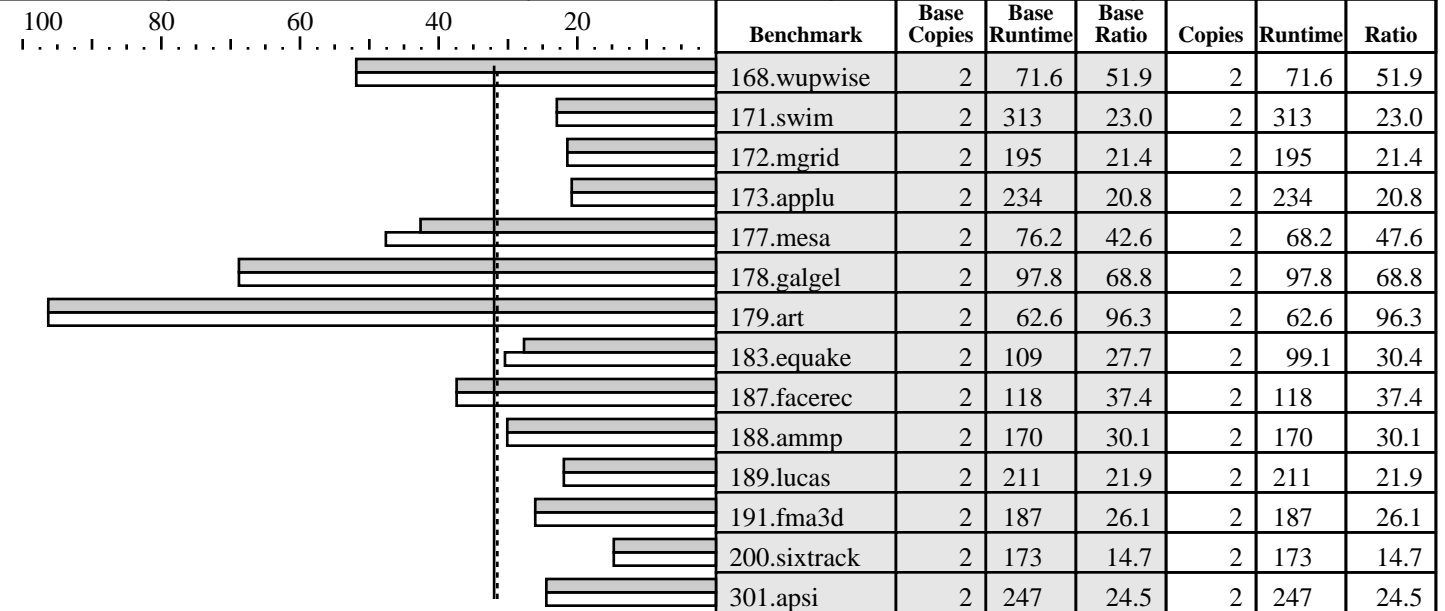
ION

LN20J (3.6GHz Xeon processor w. 2MB L2 cache)

SPECfp_rate2000 = 32.0

SPECfp_rate_base2000 = 31.5

SPEC license #: 2697 | Tested by: ION | Test date: Jul-2005 | Hardware Avail: Apr-2005 | Software Avail: May-2005



Hardware

CPU: Intel Xeon processor, 800MHz system bus
 CPU MHz: 3591
 FPU: Integrated
 CPU(s) enabled: 2 cores, 2 chips, 1 core/chip (Hyper-Threading Technology disabled)
 CPU(s) orderable: 1-2
 Parallel: No
 Primary Cache: 12K(I) micro-ops + 16KB(D) on chip
 Secondary Cache: 2048KB (I+D) on chip
 L3 Cache: None
 Other Cache: None
 Memory: 2 GB (4x512MB DDR2-400, 3-3-3 DIMMs)
 Disk Subsystem: 80GB Seagate SATA disk
 Other Hardware: None

Software

Operating System: Red Hat Enterprise Linux 4 ES, 2.6.9-5.0.5.ELsmp EM64T
 Compiler: Intel(R) Fortran Compiler for EM64T, V8.1 (Build 20050517)
 Intel(R) C Compiler for EM64T, V8.1 (Build 20050517)
 File System: ext3
 System State: Multi-user, runlevel 3

Notes/Tuning Information

Tested by ION Computer Systems
 Hyper-Threading Technology disabled in BIOS
 Hardware Prefetcher Enabled in BIOS
 Adjacent Cache Line Prefetch Enabled in BIOS
 System BIOS is V8.10 Build 81

Feedback optimization:
 +FDO: PASS1 = -prof_gen PASS2 = -prof_use

FP Portability Flags:
 178.galgel: -FI

FP Baseline optimization flags:
 C programs: -fast -auto_ilp32 -march=pentium4 +FDO
 Fortran programs: -fast +FDO
 Fortran-77 programs: -fast -Zp8 +FDO



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Notes/Tuning Information (Continued)

FP Peak optimization flags:

```
168.wupwise: basepeak=yes
171.swim: basepeak=yes
72.mgrid: basepeak=yes
173.applu: basepeak=yes
177.mesa: -fast -auto_ilp32 +FDO
178.galgel: basepeak=yes
179.art: basepeak=yes
183.quake: -fast -auto_ilp32 +FDO
187.facerec: basepeak=yes
188.ammmp: basepeak=yes
189.lucas: basepeak=yes
191.fma3d: basepeak=yes
200.sixtrack: basepeak=yes
301.apsi: basepeak=yes
```