



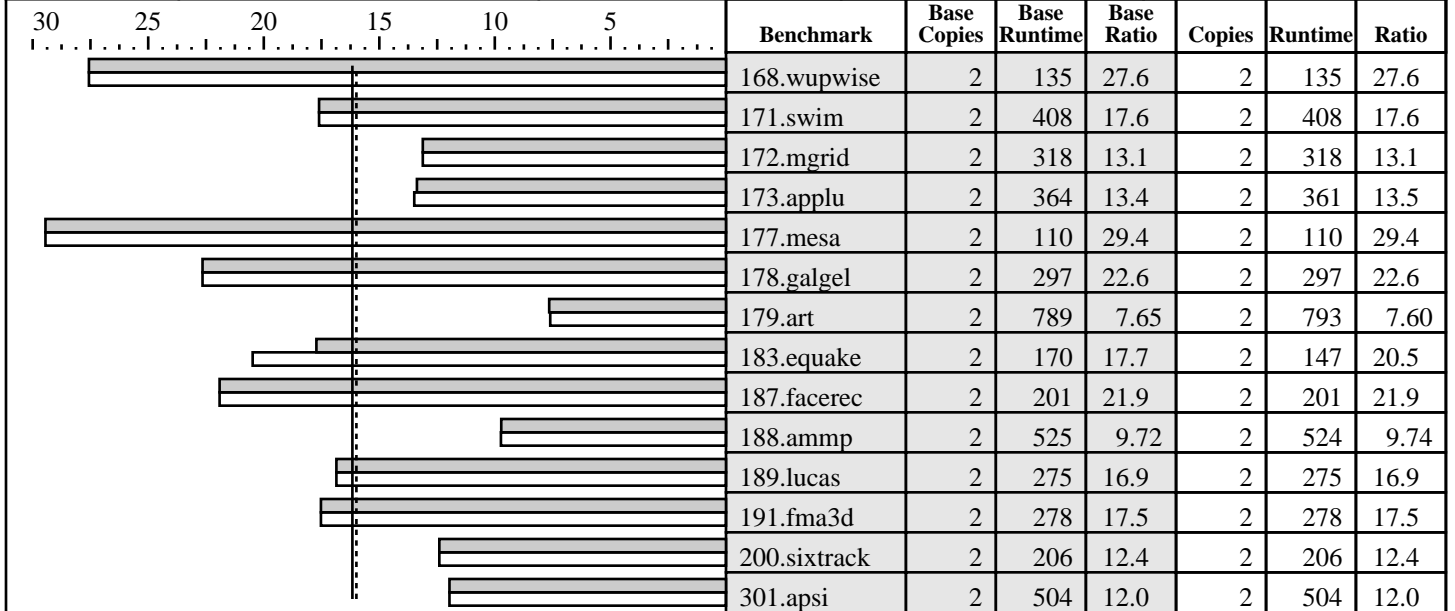
CFP2000 Result

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ION Computer Systems
BX21 (2.8GHz Xeon processor w. 512kB L2 cache)

SPECfp_rate2000 = 16.2
SPECfp_rate_base2000 = 16.0

SPEC license #: 2697 | Tested by: ION | Test date: Apr-2004 | Hardware Avail: Mar-2004 | Software Avail: Apr-2004



Hardware

CPU: Intel Xeon processor, 533MHz system bus
 CPU MHz: 2800
 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: 512KB (I+D) on chip
 L3 Cache: None
 Other Cache: None
 Memory: 1 GB, DDR266, 2.5-3-3, (4x256MB DIMMs)
 Disk Subsystem: 1x 40GB IDE, 5400rpm
 Other Hardware: None

Software

Operating System: Red Hat Enterprise Linux ES release 3
 Compiler: Intel(R) Fortran Compiler for Linux 8.0 (Build 20040412Z)
 Intel(R) C++ Compiler for Linux 8.0 (Build 20040412Z)
 MicroQuill SmartHeap Library 7.1 (www.microquill.com)
 File System: ext2
 System State: Multi-user, 2.4.21 smp kernel

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
 172.mgrid: basepeak=yes
 173.applu: PASS1= -xN -prof_gen PASS2= -xN -fast -prof_use
 177.mesa: basepeak=yes
 178.galgel: basepeak=yes
 179.art: PASS1= -prof_gen PASS2= -xN -ipo -Oa -unroll4 -Zp4 -prof_use
 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)

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188.ammp: PASS1= -xW -prof_gen PASS2= -xW -fast -prof_use
189.lucas: basepeak=yes
191.fma3d: basepeak=yes
200.sixtrack: basepeak=yes
301.apsi: basepeak=yes
```

FP Portability Flags:

```
178.galgel: -FI
```