# CFP2000 Result

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## ION Computer Systems

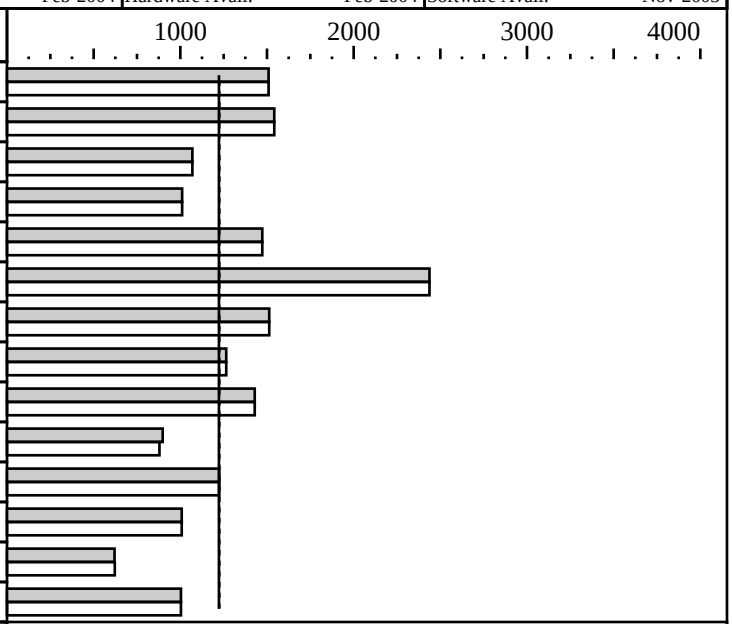
SR2300WV2 (3.2GHz Xeon processor w. 2MB L3 cache)

SPECfp2000 = 1223

SPECfp_base2000 = 1224

SPEC license #: 2697 | Tested by: K.Josephson, ION | Test date: Feb-2004 | Hardware Avail: Feb-2004 | Software Avail: Nov-2003

| Benchmark | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio |
|---|---|---|---|---|---|
| 168.wupwise | 1600 | 106 | 1509 | 106 | 1509 |
| 171.swim | 3100 | 201 | 1542 | 201 | 1542 |
| 172.mgrid | 1800 | 168 | 1069 | 168 | 1069 |
| 173.applu | 2100 | 208 | 1010 | 208 | 1010 |
| 177.mesa | 1400 | 95.1 | 1473 | 95.1 | 1473 |
| 178.galgel | 2900 | 119 | 2437 | 119 | 2437 |
| 179.art | 2600 | 172 | 1513 | 172 | 1513 |
| 183.equake | 1300 | 103 | 1265 | 103 | 1265 |
| 187.facerec | 1900 | 133 | 1429 | 133 | 1429 |
| 188.ammp | 2200 | 245 | 898 | 250 | 880 |
| 189.lucas | 2000 | 163 | 1224 | 163 | 1224 |
| 191.fma3d | 2100 | 208 | 1008 | 208 | 1008 |
| 200.sixtrack | 1100 | 177 | 620 | 177 | 622 |
| 301.apsi | 2600 | 259 | 1004 | 259 | 1004 |




### Hardware

| | |
|---|---|
| CPU: | Intel Xeon processor, 533MHz system bus |
| CPU MHz: | 3200 |
| FPU: | Integrated |
| CPU(s) enabled: | 1 core, 1 chip, 1 core/chip (Hyper-Threading Technology disabled) |
| CPU(s) orderable: | 1-2, Only 1 CPU installed, Hyper-Threading Technology disabled in BIOS |
| Parallel: | No |
| Primary Cache: | 12K(I) micro-ops + 8KB(D) on chip |
| Secondary Cache: | 512KB(I+D) on chip |
| L3 Cache: | 2048KB(I+D) on chip |
| Other Cache: | None |
| Memory: | 2 GB (2x1GB 2-2-2 DIMMs) |
| Disk Subsystem: | 1x 80GB IDE |
| Other Hardware: | None |

### Software

| | |
|---|---|
| Operating System: | Red Hat Enterprise Linux ES release 3 |
| Compiler: | Intel(R) Fortran Compiler for Linux 8.0 (Build 20031231Z)<br>Intel(R) C++ Compiler for Linux 8.0 (Build 20031231Z) |
| File System: | ext2 |
| System State: | Multi-user, 2.4.21 up kernel |

## Notes/Tuning Information

```
+FDO: PASS1=-prof_gen  PASS2=-prof_use

Baseline optimization flags:
      C programs: PASS1= -xW -prof_gen PASS2= -xW -ipo -O3 -prof_use
Fortran programs: PASS1= -xW -prof_gen PASS2= -xW -ipo -O3 -prof_use

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.equake: basepeak=yes
     187.facerec: basepeak=yes
        188.ammp: -xW -Oa +FDO
```

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## Notes/Tuning Information (Continued)

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

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