# CFP2000 Result

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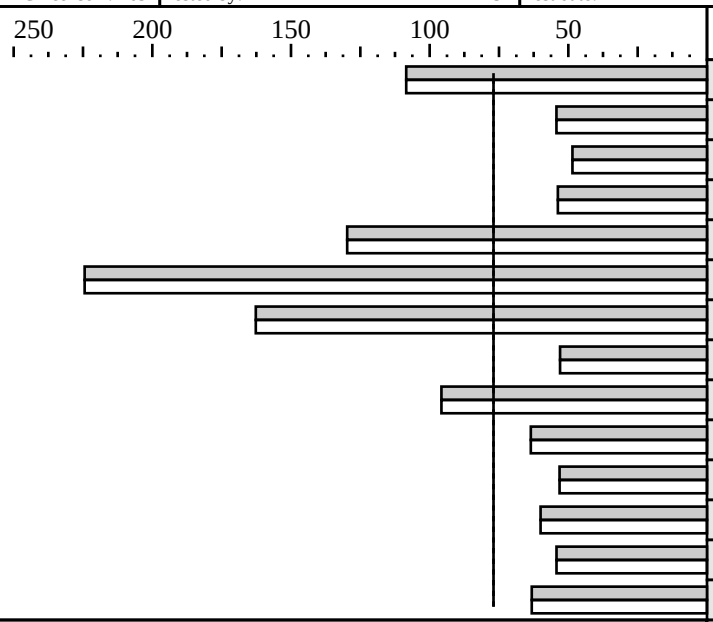
## ION

A20 (Intel Xeon processor 5160, 3.0GHz)

SPECfp_rate2000 = 77.0

SPECfp_rate_base2000 = 77.0

SPEC license #: 2697 | Tested by: ION | Test date: Jul-2006 | Hardware Avail: Jul-2006 | Software Avail: Jun-2006




| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|---|---|---|---|---|---|---|
| 168.wupwise | 4 | 68.5 | 108 | 4 | 68.5 | 108 |
| 171.swim | 4 | 265 | 54.3 | 4 | 265 | 54.3 |
| 172.mgrid | 4 | 172 | 48.5 | 4 | 172 | 48.5 |
| 173.applu | 4 | 181 | 53.8 | 4 | 181 | 53.8 |
| 177.mesa | 4 | 50.1 | 130 | 4 | 50.1 | 130 |
| 178.galgel | 4 | 60.0 | 224 | 4 | 60.0 | 224 |
| 179.art | 4 | 74.2 | 163 | 4 | 74.2 | 163 |
| 183.equake | 4 | 114 | 53.0 | 4 | 114 | 53.0 |
| 187.facerec | 4 | 92.1 | 95.8 | 4 | 92.1 | 95.8 |
| 188.ammp | 4 | 161 | 63.5 | 4 | 161 | 63.5 |
| 189.lucas | 4 | 175 | 53.2 | 4 | 175 | 53.2 |
| 191.fma3d | 4 | 162 | 60.0 | 4 | 162 | 60.0 |
| 200.sixtrack | 4 | 94.1 | 54.3 | 4 | 94.1 | 54.3 |
| 301.apsi | 4 | 191 | 63.2 | 4 | 191 | 63.2 |

### Hardware

| | |
|---|---|
| CPU: | Intel Xeon Processor 5160 (1333Mhz System Bus) |
| CPU MHz: | 3000 |
| FPU: | Integrated |
| CPU(s) enabled: | 4 cores, 2 chips, 2 cores/chip |
| CPU(s) orderable: | 1, 2 chips |
| Parallel: | No |
| Primary Cache: | 32KB(I) + 32KB(D) on chip, per core |
| Secondary Cache: | 4MB (I+D) on chip, per chip |
| L3 Cache: | None |
| Other Cache: | None |
| Memory: | 8 GB (8*1GB PC2 5300 FB-DIMMs) |
| Disk Subsystem: | 1 x 80GB SATA (Seagate ST380817AS Barracuda 7200rpm) |
| Other Hardware: | None |

### Software

| | |
|---|---|
| Operating System: | Red Hat Enterprise Linux ES 4 Update 3 for x86 (32-bit) |
| Compiler: | Intel(R) Fortran Compiler for 32-bit apps, V9.1 (Build 20060519Z)<br>Intel(R) C++ Compiler for 32-bit apps, V9.1 (Build 20060519Z) |
| File System: | ext3 |
| System State: | Multi-user |

## Notes/Tuning Information

```
Tested by ION Computer Systems
 BIOS 1.00 Build 45
   Enhanced SpeedStep Disabled in BIOS
   Hardware Prefetcher Enabled in BIOS (Default)
   Adjacent Cache Line Prefetch Enabled in BIOS (Default)
 kernel 2.6.9-34.0.1.ELsmp
 +FDO: PASS1=-prof_gen  PASS2=-prof_use

    SPEC CFP2000 Baseline optimization flags
          C programs: -fast -ansi_alias +FDO
    Fortran programs: -fast +FDO
 +FDO: PASS1=-prof_gen  PASS2=-prof_use

 SPEC CFP2000 Peak optimization flags:
      basepeak=yes  set globally

 Portability Flags:
```

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## Notes/Tuning Information (Continued)

178.galgel: -FI