# CFP2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

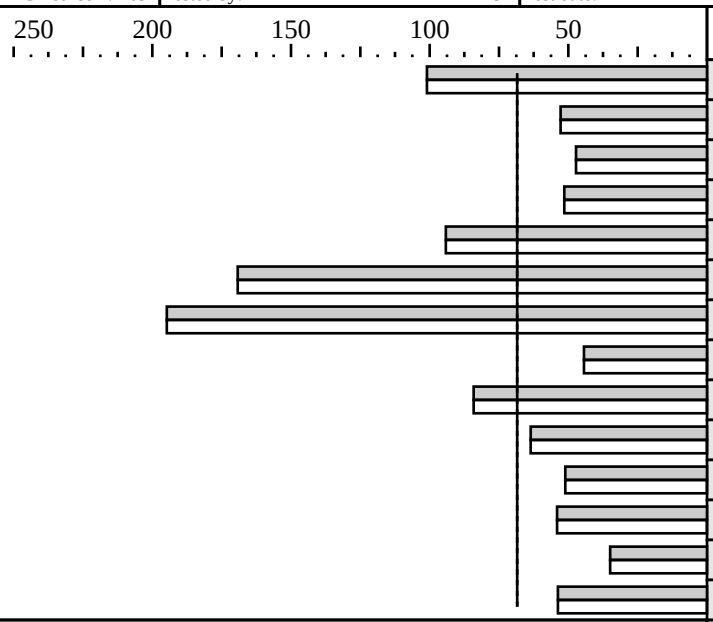
## ION

A20 (Intel Xeon processor 5130, 2.0GHz)

SPECfp_rate2000 = 68.4

SPECfp_rate_base2000 = 68.4

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




| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|---|---|---|---|---|---|---|
| 168.wupwise | 4 | 73.5 | 101 | 4 | 73.5 | 101 |
| 171.swim | 4 | 272 | 52.8 | 4 | 272 | 52.8 |
| 172.mgrid | 4 | 177 | 47.2 | 4 | 177 | 47.2 |
| 173.applu | 4 | 189 | 51.5 | 4 | 189 | 51.5 |
| 177.mesa | 4 | 69.0 | 94.2 | 4 | 69.0 | 94.2 |
| 178.galgel | 4 | 79.5 | 169 | 4 | 79.5 | 169 |
| 179.art | 4 | 61.9 | 195 | 4 | 61.9 | 195 |
| 183.equake | 4 | 136 | 44.4 | 4 | 136 | 44.4 |
| 187.facerec | 4 | 105 | 84.1 | 4 | 105 | 84.1 |
| 188.ammp | 4 | 161 | 63.6 | 4 | 161 | 63.6 |
| 189.lucas | 4 | 182 | 51.1 | 4 | 182 | 51.1 |
| 191.fma3d | 4 | 180 | 54.1 | 4 | 180 | 54.1 |
| 200.sixtrack | 4 | 146 | 34.9 | 4 | 146 | 34.9 |
| 301.apsi | 4 | 224 | 53.8 | 4 | 224 | 53.8 |

### Hardware

| | |
|---|---|
| CPU: | Intel Xeon Processor 5130 (1333Mhz System Bus) |
| CPU MHz: | 2000 |
| 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 400GB SATA, 7200rpm |
| Other Hardware: | None |

### Software

| | |
|---|---|
| Operating System: | Red Hat Enterprise Linux ES 4 Update 3 for AMD64/Intel EM64T |
| Compiler: | Intel(R) Fortran Compiler for EM64T, V9.1 (Build 20060707)<br>Intel(R) C++ Compiler for EM64T, V9.1 (Build 20060707) |
| File System: | ext3 |
| System State: | Multi-user |

## Notes/Tuning Information

```
Tested by ION Computer Systems
 BIOS 2.00 Build 54
   Enhanced SpeedStep Disabled in BIOS
 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:
   178.galgel:  -FI
```