



CFP2000 Result

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ION
I2X2 (1.4GHz Itanium 2 processor)

SPECfp_rate2000 = 21.1
SPECfp_rate_base2000 = 21.1

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

| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|--------------|-------------|--------------|------------|--------|---------|-------|
| 168.wupwise | 1 | 128 | 14.5 | 1 | 128 | 14.5 |
| 171.swim | 1 | 88.4 | 40.7 | 1 | 88.4 | 40.7 |
| 172.mgrid | 1 | 88.4 | 23.6 | 1 | 88.4 | 23.6 |
| 173.applu | 1 | 67.2 | 36.3 | 1 | 67.2 | 36.3 |
| 177.mesa | 1 | 138 | 11.8 | 1 | 138 | 11.8 |
| 178.galgel | 1 | 82.4 | 40.8 | 1 | 82.4 | 40.8 |
| 179.art | 1 | 43.3 | 69.7 | 1 | 43.3 | 69.7 |
| 183.equake | 1 | 57.1 | 26.4 | 1 | 57.1 | 26.4 |
| 187.facerec | 1 | 114 | 19.4 | 1 | 114 | 19.4 |
| 188.amp | 1 | 174 | 14.7 | 1 | 174 | 14.7 |
| 189.lucas | 1 | 137 | 17.0 | 1 | 137 | 17.0 |
| 191.fma3d | 1 | 231 | 10.5 | 1 | 231 | 10.5 |
| 200.sixtrack | 1 | 84.3 | 15.1 | 1 | 84.3 | 15.1 |
| 301.apsi | 1 | 306 | 9.84 | 1 | 306 | 9.84 |

Hardware

CPU: Intel Itanium 2
 CPU MHz: 1400
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 1-2
 Parallel: No
 Primary Cache: 16KBI + 16KBD (on chip) per CPU
 Secondary Cache: 256KB (on chip) per CPU
 L3 Cache: 4MB (on chip) per CPU
 Other Cache: N/A
 Memory: 8 GB (8x1GB DIMMS)
 Disk Subsystem: 1x 36GB SCSI (Seagate Cheetah 10k rpm)
 Other Hardware: None

Software

Operating System: SuSE Linux Enterprise Server 8
 Compiler: Intel(R) Fortran Compiler for Linux 7.1 (Build 20030519)
 Intel(R) C++ Compiler for Linux 7.1 (Build 20030605)
 File System: ext2
 System State: Multi-user

Notes/Tuning Information

Tested by ION Computer Systems
 Tests performed with uniprocessor kernel.
 Only 1 processor was enabled by operating system.
 +FDO: PASS1=-prof_gen PASS2=-prof_use

Baseline optimization flags:
 C programs: -O3 -ipo -ansi_alias +FDO
 Fortran programs: -O3 -ipo +FDO

Portability Flags:
 178.galgel: -FI

Peak optimization flags:
 Peak flags same as baseline (basepeak=true set globally).