



CFP2000 Result

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ION
I2X2 (1.4GHz Itanium 2 processor)

SPECfp2000 = 1817

SPECfp_base2000 = 1817

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

| Benchmark | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio | |
|--------------|----------------|--------------|------------|---------|-------|--|
| 168.wupwise | 1600 | 128 | 1247 | 128 | 1247 | |
| 171.swim | 3100 | 89.5 | 3466 | 89.5 | 3466 | |
| 172.mgrid | 1800 | 88.8 | 2027 | 88.8 | 2027 | |
| 173.applu | 2100 | 67.2 | 3125 | 67.2 | 3125 | |
| 177.mesa | 1400 | 136 | 1029 | 136 | 1029 | |
| 178.galgel | 2900 | 82.0 | 3538 | 82.0 | 3538 | |
| 179.art | 2600 | 39.5 | 6580 | 39.5 | 6580 | |
| 183.equake | 1300 | 57.3 | 2270 | 57.3 | 2270 | |
| 187.facerec | 1900 | 121 | 1567 | 121 | 1567 | |
| 188.amp | 2200 | 173 | 1274 | 173 | 1274 | |
| 189.lucas | 2000 | 138 | 1445 | 138 | 1445 | |
| 191.fma3d | 2100 | 231 | 908 | 231 | 908 | |
| 200.sixtrack | 1100 | 84.3 | 1305 | 84.3 | 1305 | |
| 301.apsi | 2600 | 311 | 837 | 311 | 837 | |

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).