



CFP2000 Result

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ION
A20 (Intel Xeon processor 5110, 1.6GHz)

SPECfp2000 = 1739

SPECfp_base2000 = 1739

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

| Benchmark | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio |
|--------------|----------------|--------------|------------|---------|-------|
| 168.wupwise | 1600 | 57.8 | 2767 | 57.8 | 2767 |
| 171.swim | 3100 | 138 | 2250 | 138 | 2250 |
| 172.mgrid | 1800 | 156 | 1152 | 156 | 1152 |
| 173.applu | 2100 | 143 | 1471 | 143 | 1471 |
| 177.mesa | 1400 | 82.6 | 1694 | 82.6 | 1694 |
| 178.galgel | 2900 | 76.7 | 3780 | 76.7 | 3780 |
| 179.art | 2600 | 41.0 | 6342 | 41.0 | 6342 |
| 183.quake | 1300 | 76.7 | 1695 | 76.7 | 1695 |
| 187.facerec | 1900 | 105 | 1814 | 105 | 1814 |
| 188.amp | 2200 | 181 | 1214 | 181 | 1214 |
| 189.lucas | 2000 | 131 | 1524 | 131 | 1524 |
| 191.fma3d | 2100 | 148 | 1419 | 148 | 1419 |
| 200.sixtrack | 1100 | 180 | 610 | 180 | 610 |
| 301.apsi | 2600 | 236 | 1101 | 236 | 1101 |

Hardware

CPU: Intel Xeon Processor 5110 (1066Mhz System Bus)
CPU MHz: 1600
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)
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