



CFP2000 Result

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ION
A20 (Intel Xeon processor 5110, 1.6GHz)

SPECfp_rate2000 = 55.6
SPECfp_rate_base2000 = 55.6

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 | 90.6 | 81.9 | 4 | 90.6 | 81.9 |
| 171.swim | 4 | 342 | 42.1 | 4 | 342 | 42.1 |
| 172.mgrid | 4 | 227 | 36.8 | 4 | 227 | 36.8 |
| 173.applu | 4 | 235 | 41.5 | 4 | 235 | 41.5 |
| 177.mesa | 4 | 86.0 | 75.5 | 4 | 86.0 | 75.5 |
| 178.galgel | 4 | 99.0 | 136 | 4 | 99.0 | 136 |
| 179.art | 4 | 75.7 | 159 | 4 | 75.7 | 159 |
| 183.equake | 4 | 167 | 36.1 | 4 | 167 | 36.1 |
| 187.facerec | 4 | 126 | 69.7 | 4 | 126 | 69.7 |
| 188.amp | 4 | 197 | 51.7 | 4 | 197 | 51.7 |
| 189.lucas | 4 | 219 | 42.4 | 4 | 219 | 42.4 |
| 191.fma3d | 4 | 224 | 43.5 | 4 | 224 | 43.5 |
| 200.sixtrack | 4 | 183 | 28.0 | 4 | 183 | 28.0 |
| 301.apsi | 4 | 259 | 46.6 | 4 | 259 | 46.6 |

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