



CFP2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

ION
A20 (Intel Xeon processor 5160, 3.0GHz)

SPECfp_rate2000 = 77.0
SPECfp_rate_base2000 = 77.0

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

| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|--------------|-------------|--------------|------------|--------|---------|-------|
| 168.wupwise | 4 | 68.5 | 108 | 4 | 68.5 | 108 |
| 171.swim | 4 | 265 | 54.3 | 4 | 265 | 54.3 |
| 172.mgrid | 4 | 172 | 48.5 | 4 | 172 | 48.5 |
| 173.applu | 4 | 181 | 53.8 | 4 | 181 | 53.8 |
| 177.mesa | 4 | 50.1 | 130 | 4 | 50.1 | 130 |
| 178.galgel | 4 | 60.0 | 224 | 4 | 60.0 | 224 |
| 179.art | 4 | 74.2 | 163 | 4 | 74.2 | 163 |
| 183.equake | 4 | 114 | 53.0 | 4 | 114 | 53.0 |
| 187.facerec | 4 | 92.1 | 95.8 | 4 | 92.1 | 95.8 |
| 188.amp | 4 | 161 | 63.5 | 4 | 161 | 63.5 |
| 189.lucas | 4 | 175 | 53.2 | 4 | 175 | 53.2 |
| 191.fma3d | 4 | 162 | 60.0 | 4 | 162 | 60.0 |
| 200.sixtrack | 4 | 94.1 | 54.3 | 4 | 94.1 | 54.3 |
| 301.apsi | 4 | 191 | 63.2 | 4 | 191 | 63.2 |

Hardware

CPU: Intel Xeon Processor 5160 (1333Mhz System Bus)
CPU MHz: 3000
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 80GB SATA (Seagate ST380817AS Barracuda 7200rpm)
Other Hardware: None

Software

Operating System: Red Hat Enterprise Linux ES 4 Update 3 for x86 (32-bit)
Compiler: Intel(R) Fortran Compiler for 32-bit apps, V9.1 (Build 20060519Z)
Intel(R) C++ Compiler for 32-bit apps, V9.1 (Build 20060519Z)
File System: ext3
System State: Multi-user

Notes/Tuning Information

Tested by ION Computer Systems
BIOS 1.00 Build 45
Enhanced SpeedStep Disabled in BIOS
Hardware Prefetcher Enabled in BIOS (Default)
Adjacent Cache Line Prefetch Enabled in BIOS (Default)
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:



CFP2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

ION

A20 (Intel Xeon processor 5160, 3.0GHz)

SPECfp_rate2000 = 77.0

SPECfp_rate_base2000 = 77.0

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

Notes/Tuning Information (Continued)

178.galgel: -FI