



CFP2000 Result

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ION

A20 (Intel Xeon processor 5150, 2.66GHz)

SPECfp_rate2000 = 72.5

SPECfp_rate_base2000 = 72.5

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	69.7	106	4	69.7	106
171.swim	4	284	50.7	4	284	50.7
172.mgrid	4	209	39.9	4	209	39.9
173.applu	4	183	53.1	4	183	53.1
177.mesa	4	55.6	117	4	55.6	117
178.galgel	4	62.0	217	4	62.0	217
179.art	4	76.5	158	4	76.5	158
183.equake	4	113	53.2	4	113	53.2
187.facerec	4	97.8	90.1	4	97.8	90.1
188.amp	4	173	58.9	4	173	58.9
189.lucas	4	176	52.9	4	176	52.9
191.fma3d	4	173	56.2	4	173	56.2
200.sixtrack	4	106	48.4	4	106	48.4
301.apsi	4	204	59.2	4	204	59.2

Hardware

CPU: Intel Xeon Processor 5150 (1333Mhz System Bus)
 CPU MHz: 2666
 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:



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Notes/Tuning Information (Continued)

178.galgel: -FI