CFP2000 Result

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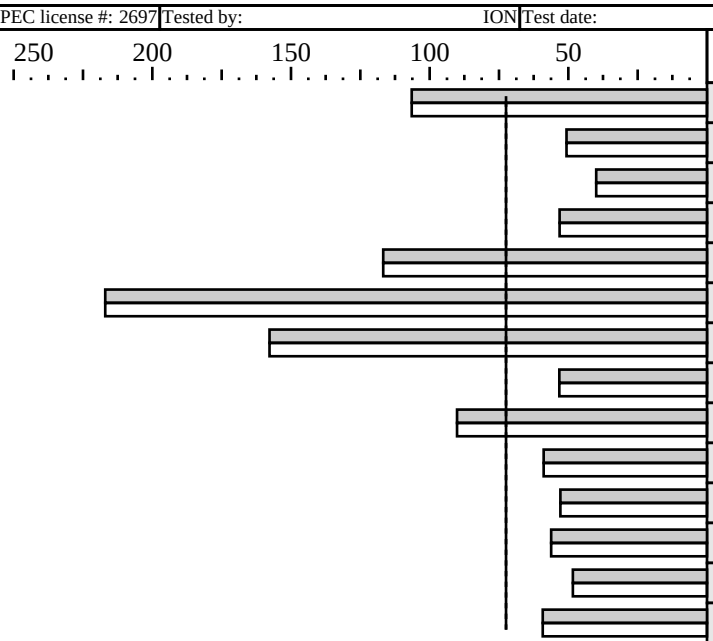
ION

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.ammp	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

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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