CFP2000 Result

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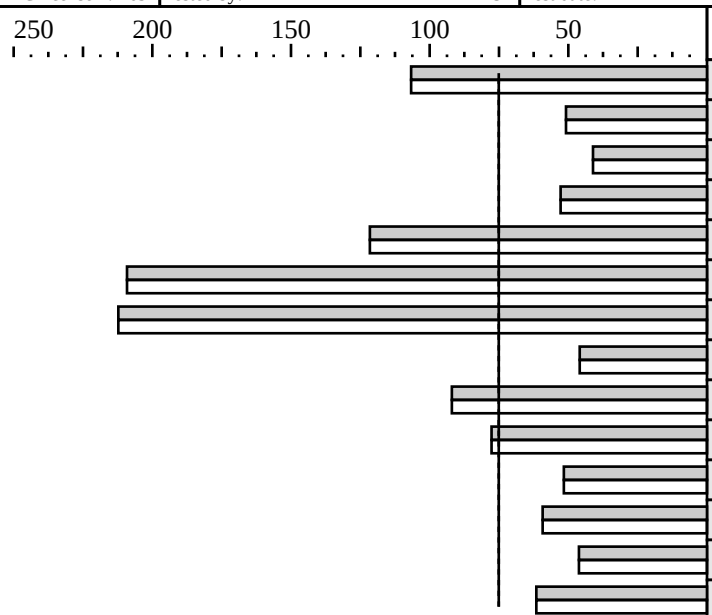
ION

A20 (Intel Xeon processor 5150, 2.66GHz)

SPECfp_rate2000 = 75.1

SPECfp_rate_base2000 = 75.1

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	69.6	107	4	69.6	107
171.swim	4	283	50.8	4	283	50.8
172.mgrid	4	203	41.1	4	203	41.1
173.applu	4	185	52.8	4	185	52.8
177.mesa	4	53.4	122	4	53.4	122
178.galgel	4	64.3	209	4	64.3	209
179.art	4	56.8	212	4	56.8	212
183.equake	4	131	45.9	4	131	45.9
187.facerec	4	95.8	92.0	4	95.8	92.0
188.ammp	4	131	77.7	4	131	77.7
189.lucas	4	180	51.6	4	180	51.6
191.fma3d	4	164	59.3	4	164	59.3
200.sixtrack	4	111	46.2	4	111	46.2
301.apsi	4	196	61.5	4	196	61.5

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 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 20060519) Intel(R) C++ Compiler for EM64T, V9.1 (Build 20060519)
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