CFP2000 Result

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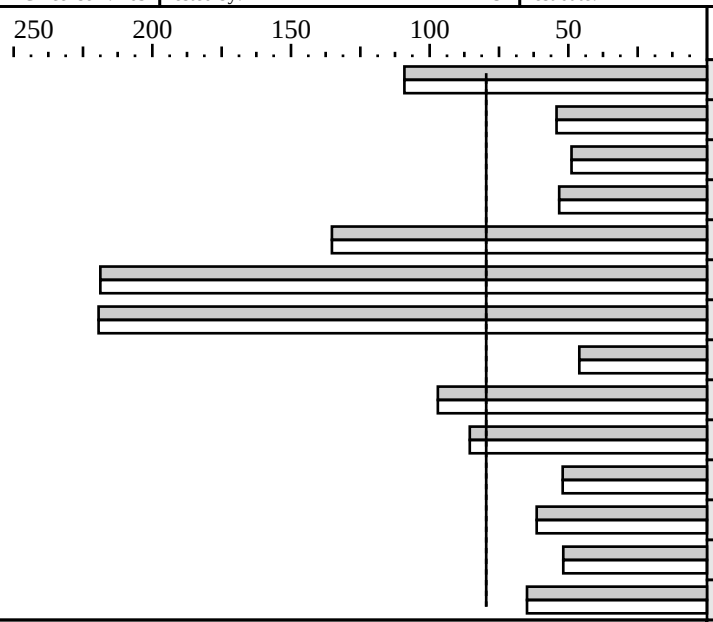
ION

A20 (Intel Xeon processor 5160, 3.0GHz)

SPECfp_rate2000 = 79.6

SPECfp_rate_base2000 = 79.6

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	68.0	109	4	68.0	109
171.swim	4	265	54.3	4	265	54.3
172.mgrid	4	171	48.9	4	171	48.9
173.applu	4	183	53.3	4	183	53.3
177.mesa	4	48.0	135	4	48.0	135
178.galgel	4	61.5	219	4	61.5	219
179.art	4	55.0	219	4	55.0	219
183.equake	4	131	46.0	4	131	46.0
187.facerec	4	90.8	97.0	4	90.8	97.0
188.ammp	4	119	85.5	4	119	85.5
189.lucas	4	178	52.0	4	178	52.0
191.fma3d	4	159	61.4	4	159	61.4
200.sixtrack	4	98.5	51.8	4	98.5	51.8
301.apsi	4	186	64.9	4	186	64.9

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 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