CFP2000 Result

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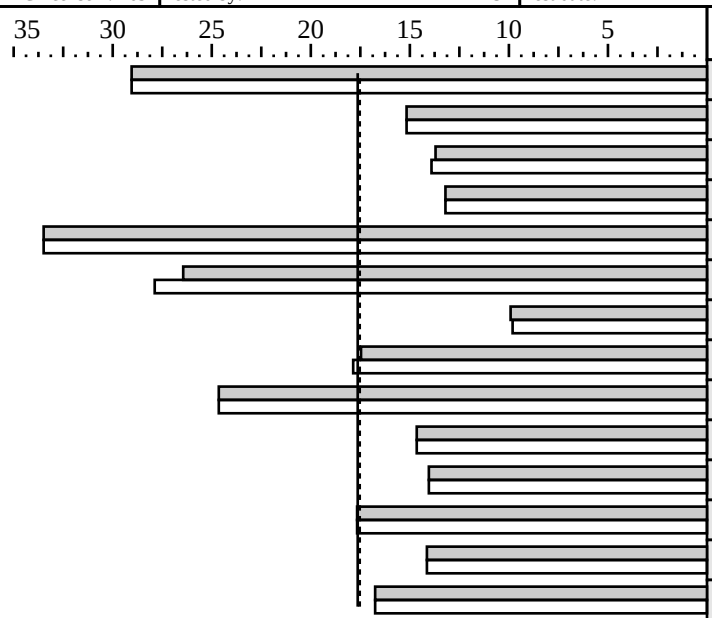
ION Computer Systems

SR2300WV2 (3.2GHz Xeon processor w. 1MB L3 cache)

SPECfp_rate2000 = 17.6

SPECfp_rate_base2000 = 17.5

SPEC license #: 2697 | Tested by: ION | Test date: Feb-2004 | Hardware Avail: Nov-2003 | Software Avail: Jan-2004



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	128	29.0	2	128	29.0
171.swim	2	474	15.2	2	474	15.2
172.mgrid	2	305	13.7	2	300	13.9
173.applu	2	369	13.2	2	369	13.2
177.mesa	2	97.0	33.5	2	97.0	33.5
178.galgel	2	254	26.4	2	241	27.9
179.art	2	608	9.91	2	615	9.81
183.equake	2	173	17.5	2	169	17.9
187.facerec	2	179	24.6	2	179	24.6
188.ammp	2	348	14.7	2	348	14.7
189.lucas	2	330	14.0	2	330	14.0
191.fma3d	2	276	17.7	2	276	17.7
200.sixtrack	2	180	14.1	2	180	14.1
301.apsi	2	360	16.8	2	360	16.8

Hardware

CPU:	Intel Xeon processor, 533MHz system bus
CPU MHz:	3200
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 1 core/chip
CPU(s) orderable:	1-2
Parallel:	No
Primary Cache:	12K(I) micro-ops + 8KB(D) on chip
Secondary Cache:	512KB(I+D) on chip
L3 Cache:	1024KB(I+D) on chip
Other Cache:	None
Memory:	2 GB (2x1GB 2-2-2 DIMMs)
Disk Subsystem:	1x 80GB IDE
Other Hardware:	None

Software

Operating System:	Red Hat Enterprise Linux ES release 3
Compiler:	Intel(R) Fortran Compiler for Linux 8.0 (Build 20031231Z) Intel(R) C++ Compiler for Linux 8.0 (Build 20031231Z)
File System:	ext2
System State:	Multi-user, 2.4.21 smp kernel

Notes/Tuning Information

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HyperThreading disabled in BIOS

Baseline optimization flags:
      C programs: PASS1= -xW -prof_gen PASS2= -xW -ipo -O3 -prof_use
Fortran programs: PASS1= -xW -prof_gen PASS2= -xW -ipo -O3 -prof_use

FP Peak optimization flags:
     168.wupwise: basepeak=yes
        171.swim: basepeak=yes
       172.mgrid: PASS1= -xN -prof_gen PASS2= -xN -ipo -O3 -prof_use
       173.applu: basepeak=yes
        177.mesa: basepeak=yes
      178.galgel: PASS1= -xN -prof_gen PASS2= -xN -ipo -O3 -prof_use
         179.art: PASS1= -xN -prof_gen PASS2= -xN -ipo -O3 -prof_use
      183.equake: PASS1= -xN -prof_gen PASS2= -xN -ipo -O3 -prof_use
     187.facerec: basepeak=yes
        188.ammp: basepeak=yes
```

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Notes/Tuning Information (Continued)

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          189.lucas: basepeak=yes
          191.fma3d: basepeak=yes
      200.sixtrack: basepeak=yes
          301.apsi: basepeak=yes

FP Portability Flags:
        178.galgel:  -FI
```