CFP2000 Result

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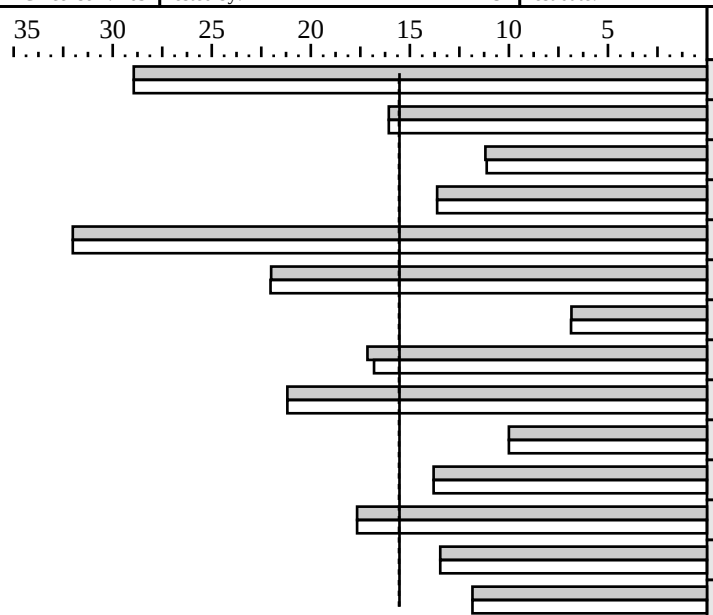
ION Computer Systems

SR2300WV2 (3.066GHz Xeon processor w. 512KB L2 cache)

SPECfp_rate2000 = 15.5

SPECfp_rate_base2000 = 15.5

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	28.9	2	128	28.9
171.swim	2	448	16.1	2	448	16.1
172.mgrid	2	373	11.2	2	376	11.1
173.applu	2	358	13.6	2	358	13.6
177.mesa	2	101	32.0	2	101	32.0
178.galgel	2	306	22.0	2	305	22.0
179.art	2	882	6.84	2	879	6.86
183.equake	2	176	17.1	2	179	16.8
187.facerec	2	208	21.2	2	208	21.2
188.ammp	2	510	10.0	2	510	10.0
189.lucas	2	336	13.8	2	336	13.8
191.fma3d	2	276	17.7	2	276	17.7
200.sixtrack	2	190	13.5	2	190	13.5
301.apsi	2	509	11.8	2	509	11.8

Hardware

CPU:	Intel Xeon processor, 533MHz system bus
CPU MHz:	3057
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:	None
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)

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

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