CFP2000 Result

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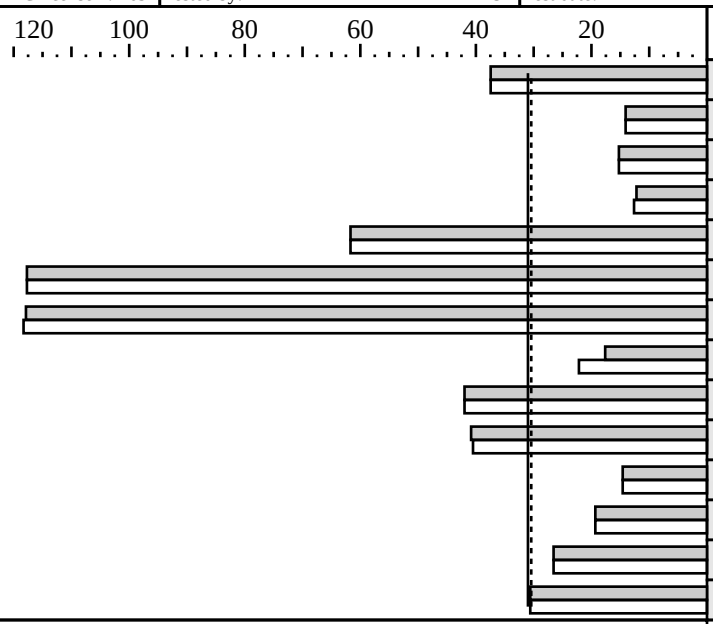
ION Computer Systems

BX41 (3GHz Xeon MP processor w. 4MB L3 cache)

SPECfp_rate2000 = 31.0

SPECfp_rate_base2000 = 30.4

SPEC license #: 2697 | Tested by: ION | Test date: May-2004 | Hardware Avail: May-2004 | Software Avail: Apr-2004



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	198	37.4	4	198	37.4
171.swim	4	1021	14.1	4	1021	14.1
172.mgrid	4	548	15.2	4	548	15.2
173.applu	4	798	12.2	4	772	12.6
177.mesa	4	105	61.7	4	105	61.7
178.galgel	4	114	118	4	114	118
179.art	4	102	118	4	102	118
183.equake	4	342	17.6	4	272	22.2
187.facerec	4	210	42.0	4	210	42.0
188.ammp	4	250	40.8	4	252	40.5
189.lucas	4	636	14.6	4	636	14.6
191.fma3d	4	504	19.3	4	504	19.3
200.sixtrack	4	192	26.6	4	192	26.6
301.apsi	4	394	30.6	4	394	30.6

Hardware

CPU:	Intel Xeon processor, 400MHz system bus
CPU MHz:	2985
FPU:	Integrated
CPU(s) enabled:	4 cores, 4 chips, 1 core/chip, HyperThreading disabled
CPU(s) orderable:	1-4
Parallel:	No
Primary Cache:	12K(I) micro-ops + 8KB(D) on chip
Secondary Cache:	512KB (I+D) on chip
L3 Cache:	4096KB (I+D) on chip
Other Cache:	None
Memory:	2 GB, DDR266, 2.5-3-3, (4x512MB DIMMs)
Disk Subsystem:	1x 40GB IDE, 5400rpm
Other Hardware:	None

Software

Operating System:	Red Hat Enterprise Linux ES release 3
Compiler:	Intel(R) Fortran Compiler for Linux 8.0 (Build 20040412Z) Intel(R) C++ Compiler for Linux 8.0 (Build 20040412Z) MicroQuill SmartHeap Library 7.1 (www.microquill.com)
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= -xN -prof_gen PASS2= -xN -fast -prof_use
Fortran programs: PASS1= -xN -prof_gen PASS2= -xN -ipo -O3 -prof_use

FP Peak optimization flags:
     168.wupwise: basepeak=yes
        171.swim: basepeak=yes
        72.mgrid:basepeak=yes
       173.applu: PASS1= -xN -prof_gen PASS2= -xN -fast -prof_use
        177.mesa: basepeak=yes
      178.galgel: basepeak=yes
         179.art: PASS1= -prof_gen PASS2= -xN -ipo -Oa -unroll4 -Zp4 -prof_use
       183.equake: PASS1= -xW -prof_gen PASS2= -xW -fast -prof_use
   Extra Library: -L${SH_PATH} -lsmartheap  (SH_PATH is path to SmartHeap Library)
     187.facerec: basepeak=yes
```

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Notes/Tuning Information (Continued)

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          188.ammp: PASS1= -xW -prof_gen PASS2= -xW -fast -prof_use
         189.lucas: basepeak=yes
         191.fma3d: basepeak=yes
     200.sixtrack: basepeak=yes
         301.apsi: basepeak=yes

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