CFP2000 Result

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ION Computer Systems

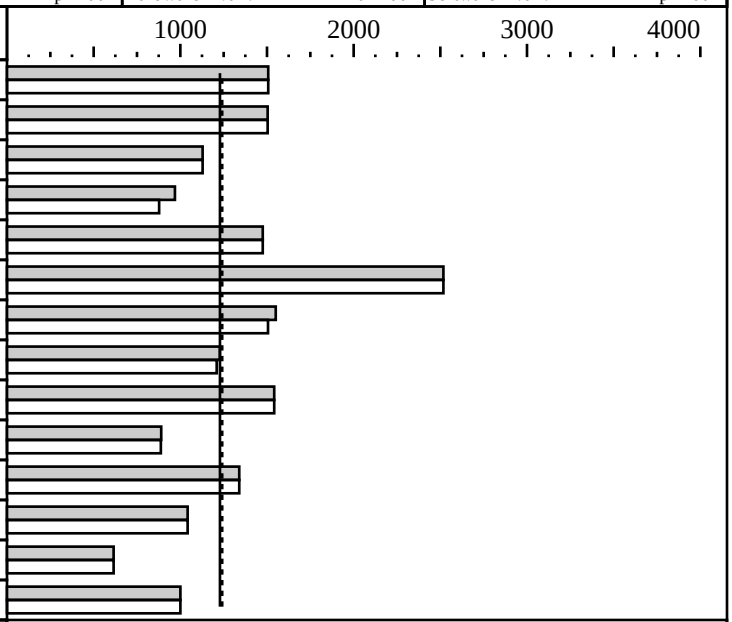
BX21 (3.2GHz Xeon processor w. 2MB L3 cache)

SPECfp2000 = 1229

SPECfp_base2000 = 1241

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	106	1507	106	1507
171.swim	3100	206	1504	206	1504
172.mgrid	1800	159	1129	159	1129
173.applu	2100	217	969	239	878
177.mesa	1400	94.9	1475	94.9	1475
178.galgel	2900	115	2518	115	2518
179.art	2600	168	1550	173	1506
183.equake	1300	106	1228	107	1210
187.facerec	1900	123	1542	123	1542
188.ammp	2200	247	890	248	888
189.lucas	2000	149	1340	149	1340
191.fma3d	2100	202	1042	202	1042
200.sixtrack	1100	179	615	179	615
301.apsi	2600	260	1000	260	1000



Hardware

CPU:	Intel Xeon processor, 533MHz system bus
CPU MHz:	3199
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip, HyperThreading disabled
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:	2048KB (I+D) on chip
Other Cache:	None
Memory:	1 GB, DDR266, 2.5-3-3, (4x256MB 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 up 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
```