CFP2000 Result

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ION Computer Systems

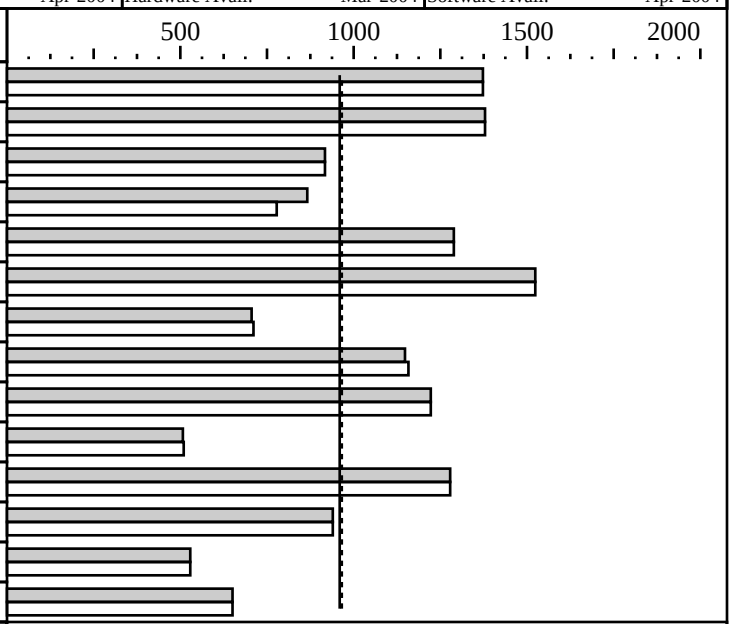
BX21 (2.8GHz Xeon processor w. 512kB L2 cache)

SPECfp2000 = 960

SPECfp_base2000 = 966

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	117	1373	117	1373
171.swim	3100	225	1379	225	1379
172.mgrid	1800	196	917	196	917
173.applu	2100	242	866	270	778
177.mesa	1400	109	1289	109	1289
178.galgel	2900	190	1524	190	1524
179.art	2600	368	706	366	711
183.equake	1300	113	1148	112	1158
187.facerec	1900	155	1222	155	1222
188.ammp	2200	434	507	432	510
189.lucas	2000	156	1278	156	1278
191.fma3d	2100	223	940	223	940
200.sixtrack	1100	208	529	208	529
301.apsi	2600	400	651	400	651



Hardware

CPU:	Intel Xeon processor, 533MHz system bus
CPU MHz:	2800
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:	None
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 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
```