CFP2000 Result

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ION Computer Systems

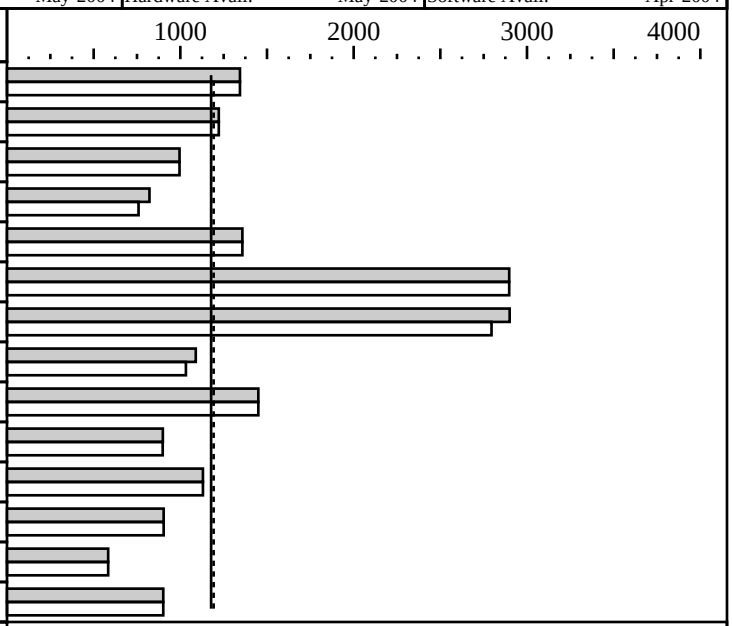
BX41 (3GHz Xeon MP processor w. 4MB L3 cache)

SPECfp2000 = 1178

SPECfp_base2000 = 1192

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	119	1344	119	1344
171.swim	3100	254	1222	254	1222
172.mgrid	1800	181	995	181	995
173.applu	2100	255	822	277	759
177.mesa	1400	103	1358	103	1358
178.galgel	2900	100	2897	100	2897
179.art	2600	89.7	2900	93.0	2795
183.equake	1300	119	1089	126	1032
187.facerec	1900	131	1450	131	1450
188.ammp	2200	245	899	245	898
189.lucas	2000	177	1130	177	1130
191.fma3d	2100	232	904	232	904
200.sixtrack	1100	188	584	188	584
301.apsi	2600	288	902	288	902



Hardware

CPU:	Intel Xeon processor, 400MHz system bus
CPU MHz:	2985
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 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 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
```