



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.quake	1300	119	1089	126	1032	
187.facerec	1900	131	1450	131	1450	
188.amp	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

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
 172.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.quake: 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