



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.quake	1300	106	1228	107	1210	
187.facerec	1900	123	1542	123	1542	
188.amp	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

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.ammmp: 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