



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	500 1000 1500 2000			
168.wupwise	1600	117	1373	117	1373	[Bar chart showing ratio 1373]			
171.swim	3100	225	1379	225	1379	[Bar chart showing ratio 1379]			
172.mgrid	1800	196	917	196	917	[Bar chart showing ratio 917]			
173.applu	2100	242	866	270	778	[Bar chart showing ratio 778]			
177.mesa	1400	109	1289	109	1289	[Bar chart showing ratio 1289]			
178.galgel	2900	190	1524	190	1524	[Bar chart showing ratio 1524]			
179.art	2600	368	706	366	711	[Bar chart showing ratio 711]			
183.quake	1300	113	1148	112	1158	[Bar chart showing ratio 1158]			
187.facerec	1900	155	1222	155	1222	[Bar chart showing ratio 1222]			
188.amp	2200	434	507	432	510	[Bar chart showing ratio 510]			
189.lucas	2000	156	1278	156	1278	[Bar chart showing ratio 1278]			
191.fma3d	2100	223	940	223	940	[Bar chart showing ratio 940]			
200.sixtrack	1100	208	529	208	529	[Bar chart showing ratio 529]			
301.apsi	2600	400	651	400	651	[Bar chart showing ratio 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

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.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