



CFP2000 Result

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ION
I2X4 (1.5GHz Itanium 2 processor)

SPECfp2000 = **2043**

SPECfp_base2000 = **2038**

SPEC license #: 2697 | Tested by: ION | Test date: May-2004 | Hardware Avail: Jul-2003 | Software Avail: Apr-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	127	1265	127	1265	
171.swim	3100	78.7	3938	78.7	3938	
172.mgrid	1800	77.7	2317	77.7	2317	
173.applu	2100	62.6	3353	62.6	3353	
177.mesa	1400	113	1234	113	1234	
178.galgel	2900	80.1	3619	79.5	3646	
179.art	2600	42.2	6164	40.9	6358	
183.quake	1300	42.9	3028	42.9	3028	
187.facerec	1900	100	1897	100	1897	
188.amp	2200	154	1429	154	1429	
189.lucas	2000	119	1687	119	1687	
191.fma3d	2100	190	1105	190	1105	
200.sixtrack	1100	74.3	1480	74.3	1480	
301.apsi	2600	295	881	295	881	

Hardware

CPU: Intel Itanium 2 processor
CPU MHz: 1496
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip
CPU(s) orderable: 1-4
Parallel: No
Primary Cache: 16KBI + 16KBD per core (on chip)
Secondary Cache: 256KB (I+D) per core (on chip)
L3 Cache: 6144KB (I+D) per core (on chip)
Other Cache: N/A
Memory: 8 GB (8x1024KB DDR266, 2.5-3-3 DIMMS)
Disk Subsystem: 1x36GB SCSI (Seagate Cheetah 10k rpm)
Other Hardware: None

Software

Operating System: Red Hat Enterprise Linux AS 2.1, smp kernel, 2.4.18-e.43
Compiler: Intel(R) Fortran Compiler for Linux 8.0 (Build 20040416)
Intel(R) C++ Compiler for Linux 8.0 (Build 20040416)
MicroQuill SmartHeap library 7.01
File System: ext3
System State: Multi-user

Notes/Tuning Information

Only 1 processor installed.

Baseline optimization flags:

C programs: PASS1=-prof_gen PASS2=-fast -auto_ilp32 -ansi_alias -prof_use
Fortran programs: PASS1=-prof_gen PASS2=-fast -prof_use

FP Peak optimization flags:

168.wupwise: basepeak=yes
171.swim: basepeak=yes
172.mgrid: basepeak=yes
173.applu: basepeak=yes
177.mesa: basepeak=yes
178.galgel: PASS1=-prof_gen PASS2=-O3 -ipo -prof_use



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Notes/Tuning Information (Continued)

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179.art: PASS1=-prof_gen PASS2=-O3 -ipo -ansi_alias -prof_use
183.quake: basepeak=yes
187.facerec: basepeak=yes
188.ammmp: basepeak=yes
189.lucas: basepeak=yes
191.fma3d: basepeak=yes
200.sixtrack: basepeak=yes
301.apsi: basepeak=yes
```

Portability Flags:
178.galgel: -FI