



CFP2000 Result

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ION
I2X4 (1.5GHz Itanium 2 processor)

SPECfp_rate2000 = 64.3

SPECfp_rate_base2000 = 64.2

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	147	50.5	4	147	50.5
171.swim	4	268	53.6	4	268	53.6
172.mgrid	4	222	37.5	4	222	37.5
173.applu	4	103	94.2	4	103	94.2
177.mesa	4	114	56.9	4	114	56.9
178.galgel	4	80.6	167	4	79.9	168
179.art	4	43.6	277	4	43.6	277
183.equake	4	106	57.2	4	106	57.2
187.facerec	4	134	66.0	4	134	66.0
188.amp	4	154	66.1	4	154	66.1
189.lucas	4	275	33.8	4	275	33.8
191.fma3d	4	255	38.3	4	255	38.3
200.sixtrack	4	76.2	67.0	4	76.2	67.0
301.apsi	4	323	37.3	4	323	37.3

Hardware

CPU: Intel Itanium 2 processor
 CPU MHz: 1496
 FPU: Integrated
 CPU(s) enabled: 4 cores, 4 chips, 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

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)

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