



CFP2000 Result

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ION I2X4 (1.6GHz Itanium 2 processor)

SPECfp2000 = 2547

SPECfp_base2000 = 2547

SPEC license #: 2697 | Tested by: ION | Test date: Jan-2005 | Hardware Avail: Jan-2005 | Software Avail: Dec-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	79.3	2019	79.3	2019	
171.swim	3100	76.5	4051	76.5	4051	
172.mgrid	1800	72.5	2484	72.5	2484	
173.applu	2100	53.0	3964	53.0	3964	
177.mesa	1400	110	1274	110	1274	
178.galgel	2900	40.9	7082	40.9	7082	
179.art	2600	20.8	12514	20.8	12514	
183.quake	1300	40.7	3198	40.7	3198	
187.facerec	1900	89.8	2117	89.8	2117	
188.amp	2200	134	1638	134	1638	
189.lucas	2000	113	1765	113	1765	
191.fma3d	2100	134	1565	134	1565	
200.sixtrack	1100	69.2	1589	69.2	1589	
301.apsi	2600	238	1094	238	1094	

Hardware

CPU: Intel Itanium 2 processor
 CPU MHz: 1596
 FPU: Integrated
 CPU(s) enabled: 4 cores, 4 chips, 1 core/chip
 CPU(s) orderable: 1-4
 Parallel: No
 Primary Cache: 16KBI + 16KBD (on chip) per CPU
 Secondary Cache: 256KB (I+D) (on chip) per CPU
 L3 Cache: 9MB (I+D) (on chip) per CPU
 Other Cache: N/A
 Memory: 32 GB (16x2048MB DDR266 DIMMS)
 Disk Subsystem: 1x36GB SCSI (Seagate Cheetah 15k rpm)
 Other Hardware: None

Software

Operating System: Red Hat Enterprise Linux AS 3 Update 4, 2.4.21-27.EL, IPF
 Compiler: Intel(R) Fortran Compiler for Linux 8.1, IPF (Build 20041123)
 Intel(R) C Compiler for Linux 8.1, IPF (Build 20041123)
 MicroQuill SmartHeap library 7.01, IPF
 File System: ext3
 System State: Multi-user, run level 3

Notes/Tuning Information

Tested by ION Computer Systems

Baseline optimization flags:

C programs: -fast -IPF_fp_relaxed -ansi_alias +FDO
 Fortran programs: -fast -IPF_fp_relaxed +FDO
 +FDO: PASS1=-prof_gen PASS2=-prof_use

FP Peak optimization flags:

168.wupwise: basepeak=yes
 171.swim: basepeak=yes
 172.mgrid: basepeak=yes
 173.applu: basepeak=yes



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Notes/Tuning Information (Continued)

177.mesa: basepeak=yes
178.galgel: basepeak=yes
179.art: basepeak=yes
183.quake: basepeak=yes
187.facerec: basepeak=yes
188.ammp: basepeak=yes
189.lucas: basepeak=yes
191.fma3d: basepeak=yes
200.sixtrack: basepeak=yes
301.apsi: basepeak=yes

Portability Flags:
178.galgel: -FI