



CINT2000 Result

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ION I2X2 (1.4GHz Itanium 2 processor)

SPECint2000 = 926
SPECint_base2000 = 926

SPEC license #: 2697 Tested by: K.Josephson, ION Test date: Jul-2003 Hardware Avail: Jul-2003 Software Avail: May-2003

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	162	864	162	864	
175.vpr	1400	159	881	159	881	
176.gcc	1100	102	1082	102	1082	
181.mcf	1800	250	721	250	721	
186.crafty	1000	103	974	103	974	
197.parser	1800	273	659	273	659	
252.eon	1300	112	1164	112	1164	
253.perlbmk	1800	189	954	189	954	
254.gap	1100	165	666	165	666	
255.vortex	1900	140	1357	140	1357	
256.bzip2	1500	161	929	161	929	
300.twolf	3000	268	1118	268	1118	

Hardware

CPU: Intel Itanium 2
 CPU MHz: 1400
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 1-2
 Parallel: No
 Primary Cache: 16KBI + 16KBD (on chip) per CPU
 Secondary Cache: 256KB (on chip) per CPU
 L3 Cache: 4MB (on chip) per CPU
 Other Cache: N/A
 Memory: 8 GB (8x1GB DIMMS)
 Disk Subsystem: 1x 36GB SCSI (Seagate Cheetah 10k rpm)
 Other Hardware: None

Software

Operating System: SuSE Linux Enterprise Server 8
 Compiler: Intel(R) C++ Compiler for Linux 7.1 (Build 20030605)
 File System: ext2
 System State: Multi-user

Notes/Tuning Information

Tested by ION Computer Systems
 Tests performed with uniprocessor kernel.
 Only 1 processor was enabled by operating system.
 +FDO: PASS1=-prof_gen PASS2=-prof_use

Baseline optimization flags:

C programs: -O3 -ipo +FDO
 C++ programs: -O2 -ipo -ansi_alias +FDO

Portability Flags:

176.gcc: -DSPEC_CPU2000_LP64 -Dalloca=_builtin_alloca -D_LIBC
 186.crafty: -DLINUX_i386
 252.eon: -DSPEC_CPU2000_LP64 -DHAS_ERRLIST
 253.perlbmk: -DSPEC_CPU2000_LP64 -DSPEC_CPU2000_NEED_BOOL
 -DSPEC_CPU2000_LINUX_IA64 -DSPEC_CPU2000_GLIBC22
 254.gap: -DSPEC_CPU2000_LP64 -DSYS_HAS_CALLOC_PROTO -DSYS_IS_USG
 -DSYS_HAS_IOCTL_PROTO -DSYS_HAS_TIME_PROTO -DSYS_HAS_SIGNAL_PROTO
 255.vortex: -DSPEC_CPU2000_LP64



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Notes/Tuning Information (Continued)

Peak flags same as baseline (basepeak=true set globally).