



CINT2000 Result

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ION
I2X2 (1.6GHz Itanium 2 processor)

SPECint2000 = 1178
SPECint_base2000 = 1140

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	142	986	142	986
175.vpr	1400	146	960	146	960
176.gcc	1100	85.6	1285	85.6	1285
181.mcf	1800	177	1015	177	1015
186.crafty	1000	78.9	1267	78.2	1278
197.parser	1800	199	907	199	907
252.eon	1300	80.0	1626	80.0	1626
253.perlbnk	1800	164	1101	149	1205
254.gap	1100	131	837	131	837
255.vortex	1900	132	1436	103	1843
256.bzip2	1500	133	1124	133	1124
300.twolf	3000	214	1400	205	1463

Hardware

CPU: Intel Itanium 2
 CPU MHz: 1596
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 1-2
 Parallel: No
 Primary Cache: 16KBI + 16KBD per core (on chip)
 Secondary Cache: 256KB (I+D) per core (on chip)
 L3 Cache: 3072KB (I+D) per core (on chip)
 Other Cache: N/A
 Memory: 8 GB (8x1024KB DDR266, 2.5-3-3 DIMMs)
 Disk Subsystem: 1x 18GB 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) C++ Compiler for Linux 8.0 (Build 20040416)
 File System: MicroQuill SmartHeap library 7.01
 System State: ext3
 Multi-user

Notes/Tuning Information

Only one processor installed.

INT Baseline optimization flags:

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

INT Peak optimization flags:

164.gzip: basepeak=yes
 175.vpr: basepeak=yes
 176.gcc: basepeak=yes
 181.mcf: basepeak=yes
 186.crafty: PASS1= -prof_gen PASS2= -fast -auto_ilp32 -prof_use
 186.crafty: Extra Library: libsmartheap64.a
 197.parser: basepeak=yes
 252.eon: basepeak=yes
 253.perlbnk: PASS1= -prof_gen PASS2= -fast -auto_ilp32 -prof_use
 253.perlbnk: Extra Library: libsmartheap64.a



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ION I2X2 (1.6GHz Itanium 2 processor)	SPECint2000 =	1178
	SPECint_base2000 =	1140

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Notes/Tuning Information (Continued)

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254.gap: basepeak=yes
255.vortex: PASS1= -prof_gen PASS2= -fast -auto_ilp32 -prof_use
255.vortex: Extra Library: libsmartheap64.a
256.bzip2: basepeak=yes
300.twolf: PASS1= -prof_gen PASS2= -fast -auto_ilp32 -prof_use
300.twolf: Extra Library: libsmartheap64.a

Portability Flags:
176.gcc: -DSPEC_CPU2000_LP64 -Dalloca=_builtin_alloca -D_LIBC
186.crafty: -DLINUX_i386
252.eon: -DSPEC_CPU2000_LP64 -DHAS_ERRLIST
252.eon: srcalt=fmax_errno
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
```