



CINT2000 Result

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ION
I2X2 (1.4GHz Itanium 2 processor)

SPECint_rate2000 = 21.3

SPECint_rate_base2000 = 21.3

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	163	19.9	2	163	19.9
175.vpr	2	160	20.3	2	160	20.3
176.gcc	2	102	24.9	2	102	24.9
181.mcf	2	261	16.0	2	261	16.0
186.crafty	2	103	22.6	2	103	22.6
197.parser	2	273	15.3	2	273	15.3
252.eon	2	111	27.1	2	111	27.1
253.perlbnk	2	190	22.0	2	190	22.0
254.gap	2	168	15.2	2	168	15.2
255.vortex	2	141	31.4	2	141	31.4
256.bzip2	2	161	21.6	2	161	21.6
300.twolf	2	269	25.9	2	269	25.9

Hardware

CPU: Intel Itanium 2
CPU MHz: 1400
FPU: Integrated
CPU(s) enabled: 2 cores, 2 chips, 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
+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.perlbnk: -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

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



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Notes/Tuning Information (Continued)