



CINT2000 Result

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ION I2X4 (1.5GHz Itanium 2 processor)

SPECint2000 = 1232
SPECint_base2000 = 1200

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	151	927	151	927	
175.vpr	1400	136	1033	136	1033	
176.gcc	1100	83.0	1325	83.0	1325	
181.mcf	1800	94.5	1905	94.5	1905	
186.crafty	1000	84.1	1189	83.5	1198	
197.parser	1800	191	944	191	944	
252.eon	1300	85.3	1525	85.3	1525	
253.perlbnk	1800	162	1108	155	1161	
254.gap	1100	134	819	134	819	
255.vortex	1900	122	1553	98.8	1923	
256.bzip2	1500	128	1168	128	1168	
300.twolf	3000	228	1314	219	1372	

Hardware

CPU: Intel Itanium 2 processor
 CPU MHz: 1496
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 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) C++ Compiler for Linux 8.0 (Build 20040416)
 File System: MicroQuill SmartHeap library 7.01
 System State: ext3
 System State: Multi-user

Notes/Tuning Information

Only 1 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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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.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
```