



CINT2000 Result

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ION Computer Systems
BX21 (2.8GHz Xeon processor w. 512kB L2 cache)

SPECint2000 = 1050
SPECint_base2000 = 1037

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	122	1143	122	1143	
175.vpr	1400	238	587	238	587	
176.gcc	1100	82.2	1339	82.2	1339	
181.mcf	1800	246	731	246	731	
186.crafty	1000	93.5	1070	93.5	1070	
197.parser	1800	191	942	191	942	
252.eon	1300	95.5	1362	95.5	1362	
253.perlbmk	1800	131	1374	131	1374	
254.gap	1100	77.4	1420	77.4	1420	
255.vortex	1900	109	1737	109	1737	
256.bzip2	1500	210	713	210	713	
300.twolf	3000	420	714	365	822	

Hardware

CPU: Intel Xeon processor, 533MHz system bus
 CPU MHz: 2800
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip, HyperThreading disabled
 CPU(s) orderable: 1-2
 Parallel: No
 Primary Cache: 12K(I) micro-ops + 8KB(D) on chip
 Secondary Cache: 512KB (I+D) on chip
 L3 Cache: None
 Other Cache: None
 Memory: 1 GB, DDR266, 2.5-3-3, (4x256MB DIMMs)
 Disk Subsystem: 1x 40GB IDE, 5400rpm
 Other Hardware: None

Software

Operating System: Red Hat Enterprise Linux ES release 3
 Compiler: Intel(R) C++ Compiler for Linux 8.0 (Build 20040412Z)
 MicroQuill SmartHeap Library 7.1 (www.microquill.com)
 File System: ext2
 System State: Multi-user, 2.4.21 smp kernel

Notes/Tuning Information

Portability Flags:

```
176.gcc: -Dalloca=_alloca -DUSG
186.crafty: -DLINUX_i386
252.eon: -DHAS_ERRLIST
252.eon: srcalt=fmax_errno
253.perlbmk: -DSPEC_CPU2000_LINUX_I386 -DSPEC_CPU2000_NEED_BOOL
-DSPEC_CPU2000_GLIBC22
254.gap: -DSYS_IS_USG -DSYS_HAS_IOCTL_PROTO -DSYS_HAS_TIME_PROTO
-DSYS_HAS_SIGNAL_PROTO -DSYS_HAS_ANSI -DSYS_HAS_CALLOC_PROTO
255.vortex: srcalt=closed_files
HyperThreading disabled in BIOS
```

INT Baseline optimization flags:

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

INT Peak optimization flags:

```
164.gzip: basepeak=yes
175.vpr: basepeak=yes
176.gcc: basepeak=yes
```



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Notes/Tuning Information (Continued)

```
181.mcf: basepeak=yes
186.crafty: basepeak=yes
197.parser: basepeak=yes
252.eon: basepeak=yes
253.perlbnk: basepeak=yes
254.gap: basepeak=yes
255.vortex: basepeak=yes
256.bzip2: basepeak=yes
300.twolf: PASS1= -xN -prof_gen PASS2= -xN -ipo -Oa -O3 -prof_use
Extra Library: -L${SH_PATH} -lsmartheap (SH_PATH is path to SmartHeap Library)
```