



CINT2000 Result

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ION Computer Systems
BX21 (3.2GHz Xeon processor w. 2MB L3 cache)

SPECint_rate2000 = 32.3
SPECint_rate_base2000 = 32.2

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	110	29.6	2	110	29.6
175.vpr	2	140	23.3	2	140	23.3
176.gcc	2	65.3	39.1	2	65.3	39.1
181.mcf	2	196	21.3	2	196	21.3
186.crafty	2	78.0	29.7	2	78.0	29.7
197.parser	2	139	30.0	2	139	30.0
252.eon	2	83.2	36.3	2	83.2	36.3
253.perlbnk	2	111	37.6	2	111	37.6
254.gap	2	75.7	33.7	2	75.7	33.7
255.vortex	2	82.9	53.2	2	82.9	53.2
256.bzip2	2	133	26.2	2	133	26.2
300.twolf	2	182	38.3	2	176	39.6

Hardware

CPU: Intel Xeon processor, 533MHz system bus
CPU MHz: 3199
FPU: Integrated
CPU(s) enabled: 2 cores, 2 chips, 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: 2048KB (I+D) on chip
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.perlbnk: -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)
```