



CINT2000 Result

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

SPECint_rate2000 = 21.3
SPECint_rate_base2000 = 21.1

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 | 126 | 25.8 | 2 | 126 | 25.8 |
| 175.vpr | 2 | 288 | 11.3 | 2 | 288 | 11.3 |
| 176.gcc | 2 | 103 | 24.8 | 2 | 103 | 24.8 |
| 181.mcf | 2 | 378 | 11.1 | 2 | 378 | 11.1 |
| 186.crafty | 2 | 94.8 | 24.5 | 2 | 94.8 | 24.5 |
| 197.parser | 2 | 208 | 20.1 | 2 | 208 | 20.1 |
| 252.eon | 2 | 95.2 | 31.7 | 2 | 95.2 | 31.7 |
| 253.perlbnk | 2 | 138 | 30.2 | 2 | 138 | 30.2 |
| 254.gap | 2 | 88.9 | 28.7 | 2 | 88.9 | 28.7 |
| 255.vortex | 2 | 127 | 34.7 | 2 | 127 | 34.7 |
| 256.bzip2 | 2 | 240 | 14.5 | 2 | 240 | 14.5 |
| 300.twolf | 2 | 494 | 14.1 | 2 | 423 | 16.4 |

Hardware

CPU: Intel Xeon processor, 533MHz system bus
 CPU MHz: 2800
 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: 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.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)
```