



CINT2000 Result

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ION Computer Systems
BX41 (3GHz Xeon MP processor w. 4MB L3 cache)

SPECint_rate2000 = 60.0
SPECint_rate_base2000 = 60.0

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	124	52.3	4	124	52.3
175.vpr	4	141	45.9	4	141	45.9
176.gcc	4	78.2	65.2	4	78.2	65.2
181.mcf	4	172	48.6	4	172	48.6
186.crafty	4	88.0	52.7	4	88.0	52.7
197.parser	4	141	59.1	4	141	59.1
252.eon	4	89.3	67.5	4	89.3	67.5
253.perlbnk	4	118	70.7	4	118	70.7
254.gap	4	118	43.3	4	118	43.3
255.vortex	4	84.2	105	4	84.2	105
256.bzip2	4	121	57.6	4	121	57.6
300.twolf	4	189	73.6	4	189	73.8

Hardware

CPU: Intel Xeon processor, 400MHz system bus
 CPU MHz: 2985
 FPU: Integrated
 CPU(s) enabled: 4 cores, 4 chips, 1 core/chip, HyperThreading disabled
 CPU(s) orderable: 1-4
 Parallel: No
 Primary Cache: 12K(I) micro-ops + 8KB(D) on chip
 Secondary Cache: 512KB (I+D) on chip
 L3 Cache: 4096KB (I+D) on chip
 Other Cache: None
 Memory: 2 GB, DDR266, 2.5-3-3, (4x512MB 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)
```