



CINT2000 Result

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

SPECint2000 = 1495
SPECint_base2000 = 1495

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	108	1295	108	1295	
175.vpr	1400	128	1097	128	1097	
176.gcc	1100	60.5	1819	60.5	1819	
181.mcf	1800	141	1279	141	1279	
186.crafty	1000	77.8	1285	77.8	1285	
197.parser	1800	136	1328	136	1328	
252.eon	1300	83.1	1564	83.1	1564	
253.perlbmk	1800	109	1656	109	1656	
254.gap	1100	65.9	1669	65.9	1669	
255.vortex	1900	77.1	2466	77.1	2466	
256.bzip2	1500	124	1207	124	1207	
300.twolf	3000	175	1712	174	1723	

Hardware

CPU: Intel Xeon processor, 533MHz system bus
 CPU MHz: 3199
 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: 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 up 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)
```