CINT2000 Result

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ION Computer Systems

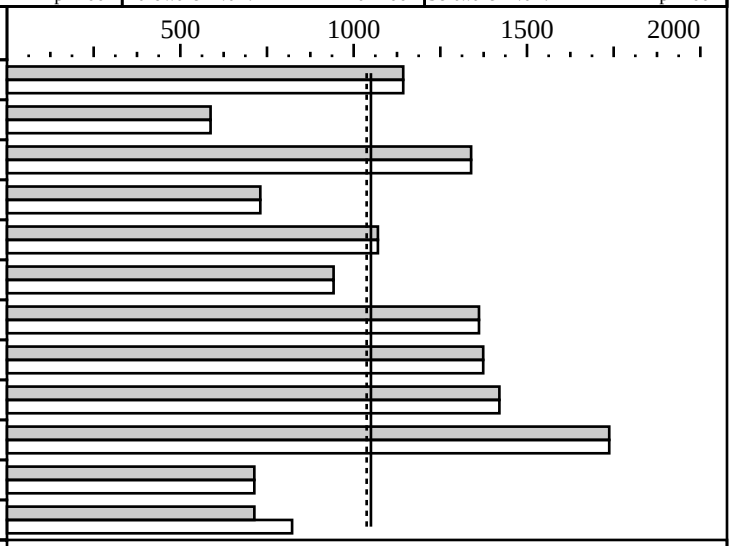
BX21 (2.8GHz Xeon processor w. 512kB L2 cache)

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

Notes/Tuning Information (Continued)

```
        181.mcf: basepeak=yes
     186.crafty: basepeak=yes
     197.parser: basepeak=yes
        252.eon: basepeak=yes
    253.perlbmk: 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)
```