CINT2000 Result

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ION Computer Systems

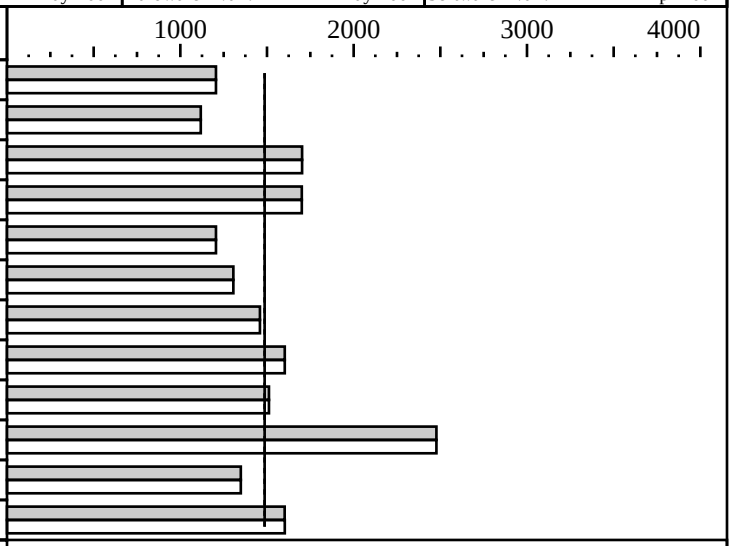
BX41 (3GHz Xeon MP processor w. 4MB L3 cache)

SPECint2000 = 1486

SPECint_base2000 = 1486

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	116	1206	116	1206
175.vpr	1400	125	1118	125	1118
176.gcc	1100	64.6	1702	64.6	1702
181.mcf	1800	106	1701	106	1701
186.crafty	1000	82.9	1206	82.9	1206
197.parser	1800	138	1306	138	1306
252.eon	1300	89.1	1459	89.1	1459
253.perlbmk	1800	112	1602	112	1602
254.gap	1100	72.8	1511	72.8	1511
255.vortex	1900	76.7	2477	76.7	2477
256.bzip2	1500	111	1349	111	1349
300.twolf	3000	187	1602	187	1603



Hardware

CPU:	Intel Xeon processor, 400MHz system bus
CPU MHz:	2985
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 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 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.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)
```