# CINT2000 Result

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## ION

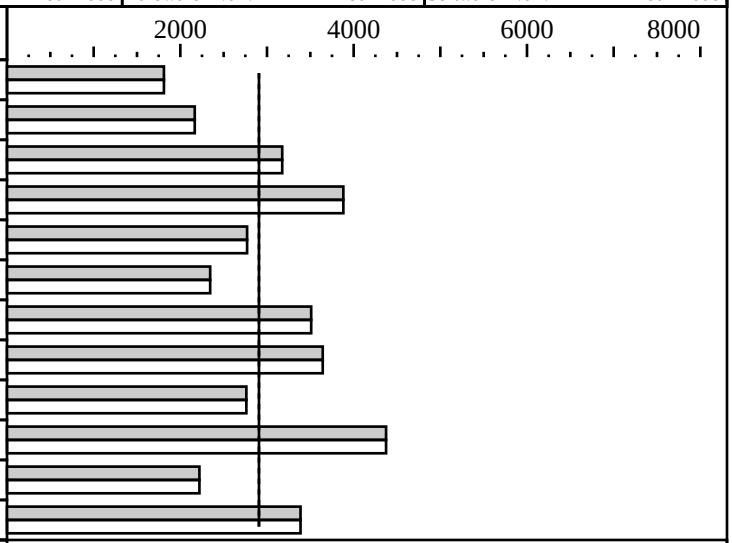
A20 (Intel Xeon processor 5160, 3.0GHz)

SPECint2000 = 2907

SPECint_base2000 = 2907

SPEC license #: 2697 | Tested by: ION | Test date: Jul-2006 | Hardware Avail: Jul-2006 | Software Avail: Jun-2006

| Benchmark | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio |
|---|---|---|---|---|---|
| 164.gzip | 1400 | 77.3 | 1811 | 77.3 | 1811 |
| 175.vpr | 1400 | 64.6 | 2166 | 64.6 | 2166 |
| 176.gcc | 1100 | 34.6 | 3176 | 34.6 | 3176 |
| 181.mcf | 1800 | 46.4 | 3881 | 46.4 | 3881 |
| 186.crafty | 1000 | 36.1 | 2770 | 36.1 | 2770 |
| 197.parser | 1800 | 76.8 | 2344 | 76.8 | 2344 |
| 252.eon | 1300 | 37.0 | 3510 | 37.0 | 3510 |
| 253.perlbmk | 1800 | 49.4 | 3643 | 49.4 | 3643 |
| 254.gap | 1100 | 39.8 | 2762 | 39.8 | 2762 |
| 255.vortex | 1900 | 43.4 | 4374 | 43.4 | 4374 |
| 256.bzip2 | 1500 | 67.6 | 2220 | 67.6 | 2220 |
| 300.twolf | 3000 | 88.6 | 3387 | 88.6 | 3387 |




### Hardware

| | |
|---|---|
| CPU: | Intel Xeon Processor 5160 (1333Mhz System Bus) |
| CPU MHz: | 3000 |
| FPU: | Integrated |
| CPU(s) enabled: | 4 cores, 2 chips, 2 cores/chip |
| CPU(s) orderable: | 1, 2 chips |
| Parallel: | No |
| Primary Cache: | 32KB(I) + 32KB(D) on chip, per core |
| Secondary Cache: | 4MB (I+D) on chip, per chip |
| L3 Cache: | None |
| Other Cache: | None |
| Memory: | 8 GB (8*1GB PC2 5300 FB-DIMMs) |
| Disk Subsystem: | 1 x 80GB SATA (Seagate ST380817AS Barracuda 7200rpm) |
| Other Hardware: | None |

### Software

| | |
|---|---|
| Operating System: | Red Hat Enterprise Linux ES 4 Update 3 for x86 (32-bit) |
| Compiler: | Intel(R) C++ Compiler for 32-bit apps, V9.1 (Build 20060519Z) |
| File System: | ext3 |
| System State: | Multi-user |

## Notes/Tuning Information

```
Tested by ION Computer Systems
 BIOS 1.00 Build 45
   Enhanced SpeedStep Disabled in BIOS
   Hardware Prefetcher Enabled in BIOS (Default)
   Adjacent Cache Line Prefetch Enabled in BIOS (Default)
 kernel 2.6.9-34.0.1.ELsmp
 +FDO: PASS1=-prof_gen  PASS2=-prof_use

 SPEC CINT2000 Baseline optimization flags:
     C programs:     -fast +FDO
   C++ programs:     -fast -ansi_alias +FDO
           +FDO: PASS1=-prof_gen  PASS2=-prof_use

    SPEC CINT2000 Peak optimization flags
      basepeak=yes  set globally

 Portability Flags:
    186.crafty: -DLINUX_i386
       252.eon: -DHAS_ERRLIST
  253.perlbmk: -DSPEC_CPU2000_NEED_BOOL -DSPEC_CPU2000_LINUX_I386
```

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## Notes/Tuning Information (Continued)

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254.gap: -DSYS_IS_USG
```