# CINT2000 Result

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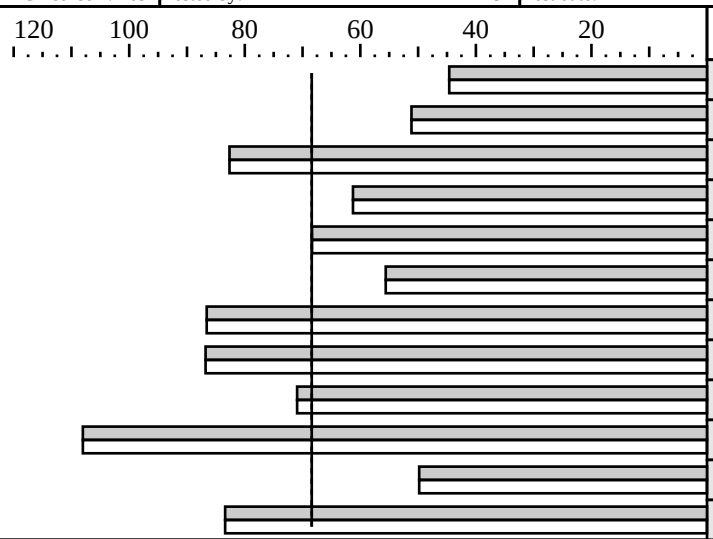
## ION

A20 (Intel Xeon processor 5110, 1.6GHz)

SPECint_rate2000 = 68.4

SPECint_rate_base2000 = 68.4

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




| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|---|---|---|---|---|---|---|
| 164.gzip | 4 | 146 | 44.6 | 4 | 146 | 44.6 |
| 175.vpr | 4 | 127 | 51.1 | 4 | 127 | 51.1 |
| 176.gcc | 4 | 61.8 | 82.6 | 4 | 61.8 | 82.6 |
| 181.mcf | 4 | 136 | 61.3 | 4 | 136 | 61.3 |
| 186.crafty | 4 | 67.9 | 68.4 | 4 | 67.9 | 68.4 |
| 197.parser | 4 | 150 | 55.6 | 4 | 150 | 55.6 |
| 252.eon | 4 | 69.7 | 86.6 | 4 | 69.7 | 86.6 |
| 253.perlbmk | 4 | 96.2 | 86.8 | 4 | 96.2 | 86.8 |
| 254.gap | 4 | 71.9 | 70.9 | 4 | 71.9 | 70.9 |
| 255.vortex | 4 | 81.6 | 108 | 4 | 81.6 | 108 |
| 256.bzip2 | 4 | 140 | 49.8 | 4 | 140 | 49.8 |
| 300.twolf | 4 | 167 | 83.4 | 4 | 167 | 83.4 |

### Hardware

| | |
|---|---|
| CPU: | Intel Xeon Processor 5110 (1066Mhz System Bus) |
| CPU MHz: | 1600 |
| 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 20060706Z) |
| File System: | ext3 |
| System State: | Multi-user |

## Notes/Tuning Information

```
Tested by ION Computer Systems
 BIOS 2.00 Build 54
   Enhanced SpeedStep Disabled in BIOS
 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
       254.gap: -DSYS_IS_USG
```