# CINT2000 Result

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## Intel Corporation

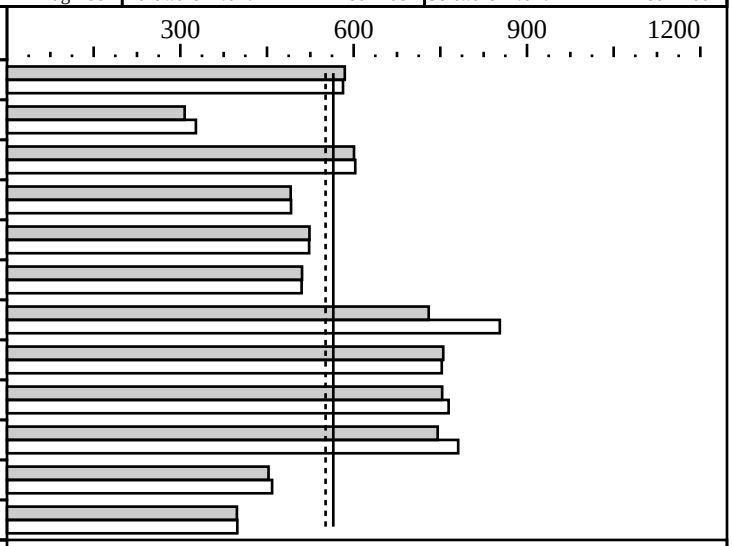
Intel D850GB motherboard (1.6 GHz, Pentium 4 processor)

SPECint2000 = 565

SPECint_base2000 = 551

SPEC license #: 13 | Tested by: Intel Corporation | Test date: Aug-2001 | Hardware Avail: Jul-2001 | Software Avail: Jun-2001

| Benchmark | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio |
|---|---|---|---|---|---|
| 164.gzip | 1400 | 239 | 585 | 241 | 582 |
| 175.vpr | 1400 | 455 | 307 | 428 | 327 |
| 176.gcc | 1100 | 183 | 601 | 182 | 603 |
| 181.mcf | 1800 | 367 | 491 | 366 | 492 |
| 186.crafty | 1000 | 191 | 524 | 191 | 523 |
| 197.parser | 1800 | 352 | 511 | 353 | 510 |
| 252.eon | 1300 | 178 | 730 | 152 | 853 |
| 253.perlbmk | 1800 | 238 | 755 | 239 | 752 |
| 254.gap | 1100 | 146 | 753 | 144 | 764 |
| 255.vortex | 1900 | 255 | 745 | 243 | 781 |
| 256.bzip2 | 1500 | 331 | 453 | 327 | 459 |
| 300.twolf | 3000 | 754 | 398 | 753 | 399 |




### Hardware

| | |
|---|---|
| CPU: | Pentium 4 processor (1.6 GHz, 400 MHz bus) |
| CPU MHz: | 1600 |
| FPU: | Integrated |
| CPU(s) enabled: | 1 core, 1 chip, 1 core/chip |
| CPU(s) orderable: | 1 |
| Parallel: | No |
| Primary Cache: | 12k micro-ops I + 8KBD on chip |
| Secondary Cache: | 256KB(I+D) on chip |
| L3 Cache: | N/A |
| Other Cache: | N/A |
| Memory: | 256 MB (2 128 MB PC800 RDRAM non-ECC modules) |
| Disk Subsystem: | IBM DTLA-307030 ATA-100 |
| Other Hardware: | None |

### Software

| | |
|---|---|
| Operating System: | Windows 2000(Build 2195, SP2) |
| Compiler: | Intel C++ Compiler 5.0.1 Build 010525Z<br>Microsoft Visual C++ 6.0 SP5(for libraries)<br>MicroQuill SmartHeap library V6.0 |
| File System: | FAT32 |
| System State: | Default |

## Notes/Tuning Information

```
+FDO: PASS1=-Qprof_gen  PASS2=-Qprof_use
Base tuning for C programs:   -QxW -Qipo shlW32M.lib +FDO
Base tuning for C++ programs: -QxW -Qipo -GX -GR
shlW32M.lib is the SmartHeap library V6.0 from MicroQuill www.microquill.com
Portability flags:
176.gcc: -Dalloca=_alloca /F10000000
186.crafy: -DNT_i386
253.perlbmk: -DSPEC_CPU2000_NTOS -DPERLDLL /MT
254.gap: -DSYS_HAS_CALLOC_PROTO -DSYS_HAS_MALLOC_PROTO
Peak tuning:
164.gzip:     -QxW -Qipo -Oa shlW32M.lib +FDO
175.vpr:      -QxW -Qwp_ipo +FDO
176.gcc:      -QxW -Qipo shlW32M.lib +FDO
181.mcf:      -QxW -Qipo shlW32M.lib +FDO
186.crafty:   -QxW -Qipo -Oa shlW32M.lib +FDO
197.parser:   -QxW -Qipo shlW32M.lib +FDO
252.eon:      -QxW -Qipo +FDO
253.perlbmk:  -QxW -Qipo shlW32M.lib +FDO
254.gap:      -QxW -Qipo +FDO
255.vortex    -QxW -Qwp_ipo -Oa shlW32M.lib +FDO
```

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## Notes/Tuning Information (Continued)

```
256.bzip2:    -QxW -Qipo -Oa +FDO
300.twolf:    -QxW -Qipo shlW32M.lib +FDO
Tested systems can be used with Shin-G ATX case, Delta Inc. power supply PS-300GB-1 B
Product description located as of 11/2000:
http://developer.intel.com/design/motherbd/gb/gb_ds.htm
Motherboard is available through Intel OEM Distribution Channel. See
http://channel.intel.com/business/ibp/boards/d850gb.htm for more information
The system bus runs at 400 MHz
```