



# CINT2000 Result

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## Intel Corporation

Intel D850GB motherboard (1.7 GHz, Pentium 4 processor)

SPECint2000 = 587

SPECint\_base2000 = 573

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	227	616	226	619	
175.vpr	1400	442	317	417	336	
176.gcc	1100	181	609	181	609	
181.mcf	1800	362	498	362	497	
186.crafty	1000	180	555	182	549	
197.parser	1800	338	532	338	532	
252.eon	1300	168	774	143	906	
253.perlbnk	1800	228	791	228	791	
254.gap	1100	139	789	137	802	
255.vortex	1900	245	774	235	809	
256.bzip2	1500	318	471	314	477	
300.twolf	3000	736	408	736	408	

### Hardware

CPU: Pentium 4 processor (1.7 GHz, 400 MHz bus)  
CPU MHz: 1700  
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  
Microsoft Visual C++ 6.0 SP5(for libraries)  
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.crafty: -DNT_i386
253.perlbnk: -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.perlbnk: -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](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