



# CINT2000 Result

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Intel Corporation  
Intel D875PBZ (AA-206) motherboard

SPECint2000 = 1620  
SPECint\_base2000 = 1583

SPEC license #: 13 Tested by: Intel Corporation Test date: Oct-2003 Hardware Avail: Nov-2003 Software Avail: Dec-2003

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	105	1340	104	1340	
175.vpr	1400	118	1187	117	1197	
176.gcc	1100	57.1	1928	57.0	1928	
181.mcf	1800	106	1694	106	1693	
186.crafty	1000	79.7	1254	79.8	1252	
197.parser	1800	128	1407	128	1407	
252.eon	1300	77.4	1679	67.9	1914	
253.perlbnk	1800	121	1489	110	1634	
254.gap	1100	62.8	1752	62.8	1752	
255.vortex	1900	69.4	2739	69.4	2739	
256.bzip2	1500	112	1338	107	1398	
300.twolf	3000	179	1678	177	1692	

## Hardware

CPU: Intel Pentium 4 Processor with Hyper-Threading Technology Extreme Edition (3.2 GHz, 800 MHz bus)  
CPU MHz: 3200  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading Technology enabled)  
CPU(s) orderable: 1  
Parallel: No  
Primary Cache: 12k micro-ops I + 8KBD on chip  
Secondary Cache: 512KB(I+D) on chip  
L3 Cache: 2MB(I+D) on chip  
Other Cache: N/A  
Memory: 1 GB(2 512MB PC3200 Samsung Double-sided CL3-3-3 DIMMs)  
Disk Subsystem: Seagate ST3160023AS 160 GB Serial ATA (7200 RPM, 8MB cache)  
Other Hardware: None

## Software

Operating System: Windows XP Professional Service Pack 1a  
Compiler: Intel C++ Compiler 8.0  
Microsoft Visual Studio .Net 7.0(for libraries)  
MicroQuill SmartHeap library V6.0  
File System: NTFS  
System State: Default

## Notes/Tuning Information

```
ONESTEP=yes +FDO: PASS1=-Qprof_gen PASS2=-Qprof_use
Base tuning for C programs: -QxN -Qipo -O3 +FDO
Base tuning for C++ programs: -QxN -Qipo -GX -GR
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: -QxN -Qipo -Oa -O3 +FDO
175.vpr: -QxN -Qipo -O3 +FDO
176.gcc: -QxN -Qipo -O3 +FDO
181.mcf: -QxN -Qipo -O3 +FDO
186.crafty: -QxN -Qipo -Oa -O3 +FDO
197.parser: -QxN -Qipo -O3 +FDO
252.eon: -QxN -Qipo -O3 +FDO
253.perlbnk: -QxN -Qipo -O3 +FDO shlw32M.lib
254.gap: basepeak=yes
255.vortex: basepeak=yes
256.bzip2: -Qipo -Oa -Qunroll1 +FDO
```



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## Notes/Tuning Information (Continued)

300.twolf: -QxN -Qipo -O3 +FDO shlw32M.lib  
Tested systems can be used with Shin-G ATX case, Delta Inc. power supply PS-300GB-1  
Product description located as of 9/2003:  
<http://developer.intel.com/design/motherbd/bz/index.htm>  
Motherboard is available through Intel OEM Distribution Channel. See  
[http://www.intel.com/cd/channel/reseller/asm-na/eng/products/box\\_desktop\\_boards/p4\\_boards/p4\\_dsk\\_board\\_d875pbz/index.htm](http://www.intel.com/cd/channel/reseller/asm-na/eng/products/box_desktop_boards/p4_boards/p4_dsk_board_d875pbz/index.htm)  
The system bus runs at 800 MHz  
shlw32M.lib is the SmartHeap library V6.0 from <http://www.microquill.com/smartheap/index.html>  
An AGP video card is installed