



# CINT2000 Result

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## Intel Corporation

Intel D875PBZ motherboard (AA-206)(3.4 GHz, Pentium 4 Processor with Hyper-Threading Technology Extreme Edition)

SPECint2000 = 1704

SPECint\_base2000 = 1666

SPEC license #: 13 Tested by: Intel Corporation Test date: Jan-2004 Hardware Avail: Feb-2004 Software Avail: Dec-2003

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	98.6	1420	98.6	1420	
175.vpr	1400	112	1249	112	1251	
176.gcc	1100	54.4	2021	54.4	2024	
181.mcf	1800	104	1739	103	1741	
186.crafty	1000	73.9	1353	73.9	1354	
197.parser	1800	121	1488	121	1489	
252.eon	1300	73.3	1774	63.3	2053	
253.perlbmk	1800	114	1573	105	1714	
254.gap	1100	60.6	1816	59.5	1849	
255.vortex	1900	66.4	2862	66.4	2862	
256.bzip2	1500	108	1389	105	1430	
300.twolf	3000	166	1802	168	1786	

### Hardware

CPU: Intel Pentium 4 Processor with Hyper-Threading Technology Extreme Edition (3.4 GHz, 800 MHz bus)  
CPU MHz: 3400  
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 Build 20031017Z  
Microsoft Visual Studio .Net 7.0(for libraries)  
MicroQuill SmartHeap library V6.0  
File System: NTFS  
System State: Default

## Notes/Tuning Information

ONESTEP=yes for all base and peak runs +FDO: PASS1=-Qprof\_gen PASS2=-Qprof\_use  
Base tuning for C programs: -QxN -fast -Qansi\_alias +FDO  
Base tuning for C++ programs: -QxN -fast -GX -GR  
Portability flags:  
176.gcc: -Dalloca=\_alloca /F10000000  
186.crafty: -DNT\_i386  
253.perlbmk: -DSPEC\_CPU2000\_NTOS -DPERLDLL /MT  
254.gap: -DSYS\_HAS\_CALLOC\_PROTO -DSYS\_HAS\_MALLOC\_PROTO  
Peak tuning:  
164.gzip: -QxN -fast -Qansi\_alias -Oa +FDO  
175.vpr: -QxN -fast -Qansi\_alias +FDO  
176.gcc: -QxN -fast -Qansi\_alias +FDO  
181.mcf: -QxN -fast -Qansi\_alias +FDO  
186.crafty: -QxN -fast -Qansi\_alias -Oa +FDO  
197.parser: -QxN -fast -Qansi\_alias +FDO  
252.eon: -QxN -O2 -Qipo +FDO  
253.perlbmk: -QxN -fast -Qansi\_alias +FDO shlw32M.lib  
254.gap: -QxN -fast -Qunroll11 -Zp8 +FDO  
255.vortex: basepeak=yes  
256.bzip2: -fast -Oa -Qunroll11 +FDO



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### Notes/Tuning Information (Continued)

300.twolf: -QxN -fast -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 and Hyper-Threading Technology is enabled