



CINT2000 Result

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Intel Corporation

Intel D875PBZ (AA-206) motherboard (3.2 GHz, Pentium 4 processor with Hyper-Threading Technology Extreme Edition)

SPECint2000 = 1509

SPECint_base2000 = 1475

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

| Benchmark | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio | 1000 2000 3000 4000 | | | |
|-------------|----------------|--------------|------------|---------|-------|--------------------------------|--|--|--|
| 164.gzip | 1400 | 111 | 1265 | 111 | 1267 | [Bar chart showing ratio 1267] | | | |
| 175.vpr | 1400 | 119 | 1176 | 119 | 1177 | [Bar chart showing ratio 1177] | | | |
| 176.gcc | 1100 | 57.9 | 1899 | 57.9 | 1899 | [Bar chart showing ratio 1899] | | | |
| 181.mcf | 1800 | 138 | 1307 | 138 | 1307 | [Bar chart showing ratio 1307] | | | |
| 186.crafty | 1000 | 79.6 | 1256 | 80.2 | 1247 | [Bar chart showing ratio 1247] | | | |
| 197.parser | 1800 | 133 | 1350 | 133 | 1349 | [Bar chart showing ratio 1349] | | | |
| 252.eon | 1300 | 91.5 | 1420 | 78.6 | 1653 | [Bar chart showing ratio 1653] | | | |
| 253.perlbmk | 1800 | 122 | 1472 | 112 | 1611 | [Bar chart showing ratio 1611] | | | |
| 254.gap | 1100 | 62.7 | 1755 | 62.7 | 1755 | [Bar chart showing ratio 1755] | | | |
| 255.vortex | 1900 | 82.5 | 2302 | 82.5 | 2302 | [Bar chart showing ratio 2302] | | | |
| 256.bzip2 | 1500 | 118 | 1271 | 114 | 1313 | [Bar chart showing ratio 1313] | | | |
| 300.twolf | 3000 | 190 | 1581 | 190 | 1583 | [Bar chart showing ratio 1583] | | | |

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: 512 MB (4 128 MB PC3200 Samsung CL3-3-3)
Disk Subsystem: IBM 120GXP 80 GB IC35L080AVVA07-0 ATA-100
Other Hardware: None

Software

Operating System: Windows XP Professional Service Pack 1a
Compiler: Intel C++ Compiler 7.1 Build 20030224Z
Microsoft Visual Studio .Net 7.0(for libraries)
MicroQuill SmartHeap library V6.0
File System: FAT32
System State: Default

Notes/Tuning Information

```
ONESTEP=yes +FDO: PASS1=-Qprof_gen PASS2=-Qprof_use
Base tuning for C programs: -QxW -Qipo -O3 +FDO
Base tuning for C++ programs: -QxW -Qipo -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: -QxW -Qipo -Oa -O3 +FDO
175.vpr: -QxW -Qipo -O3 +FDO
176.gcc: -QxW -Qipo -O3 +FDO
181.mcf: -QxW -Qipo -O3 +FDO
186.crafty: -QxW -Qipo -Oa -O3 +FDO
197.parser: -QxW -Qipo -O3 +FDO
252.eon: -QxW -Qipo -O3 +FDO
253.perlbmk: -QxW -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: -QxW -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

The system bus runs at 800 MHz

shlw32M.lib is the SmartHeap library V6.0 from <http://www.microquill.com/smartheap/index.html>