



CINT2000 Result

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Intel Corporation

Intel D875PBZ motherboard (AA-301) (2.8E GHz, Pentium 4 Processor with Hyper-Threading Technology)

SPECint2000 = 1269

SPECint_base2000 = 1219

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	150	934	150	934
175.vpr	1400	163	857	163	857
176.gcc	1100	71.5	1538	71.6	1537
181.mcf	1800	151	1189	151	1191
186.crafty	1000	96.4	1038	96.4	1038
197.parser	1800	163	1105	163	1105
252.eon	1300	95.1	1367	79.8	1629
253.perlbmk	1800	136	1323	122	1479
254.gap	1100	72.5	1516	72.6	1515
255.vortex	1900	86.5	2196	86.5	2196
256.bzip2	1500	162	924	158	948
300.twolf	3000	259	1158	220	1363

Hardware

CPU: Intel Pentium 4 Processor with Hyper-Threading Technology(2.8E GHz, 800 MHz bus)
CPU MHz: 2800
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 + 16KBD on chip
Secondary Cache: 1MB(I+D) on chip
L3 Cache: N/A
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 (Qxp not used in PASS1)

Base tuning for C programs: -QxP -fast -Qansi_alias +FDO

Base tuning for C++ programs: -QxP -fast -GX -GR

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: -QxP -fast -Qansi_alias -Oa +FDO

175.vpr: -QxP -fast -Qansi_alias +FDO

176.gcc: -QxP -fast -Qansi_alias +FDO

181.mcf: -QxP -fast -Qansi_alias +FDO

186.crafty: -QxP -fast -Qansi_alias -Oa +FDO

197.parser: -QxP -fast -Qansi_alias +FDO

252.eon: -QxP -O2 -Qipo +FDO

253.perlbmk: -QxP -fast -Qansi_alias +FDO shlw32M.lib

254.gap: -QxP -fast -Qunroll11 -Zp8 +FDO

255.vortex: basepeak=yes

256.bzip2: -fast -Oa -Qunroll11 +FDO



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Notes/Tuning Information (Continued)

300.twolf: -QxP -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

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