



CFP2000 Result

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Intel Corporation

Intel D875PBZ motherboard (3.4 GHz, Pentium 4 processor with Hyper-Threading Technology)

SPECfp2000 = 1303

SPECfp_base2000 = 1297

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	
168.wupwise	1600	89.7	1784	89.6	1786	
171.swim	3100	152	2041	152	2044	
172.mgrid	1800	150	1202	150	1202	
173.applu	2100	163	1285	158	1326	
177.mesa	1400	92.4	1515	92.5	1514	
178.galgel	2900	142	2045	142	2045	
179.art	2600	293	886	281	927	
183.quake	1300	85.2	1527	86.4	1505	
187.facerec	1900	108	1764	108	1762	
188.amp	2200	279	788	279	788	
189.lucas	2000	124	1619	123	1620	
191.fma3d	2100	165	1269	165	1269	
200.sixtrack	1100	169	650	167	657	
301.apsi	2600	300	866	300	866	

Hardware

CPU: Intel Pentium 4 Processor with Hyper-Threading Technology(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: 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++ and Fortran 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: -QxN -fast -Qansi_alias +FDO
Portability:
178.galgel: -FI /F32000000
Peak tuning:
168.wupwise: -QxN -fast -Qansi_alias +FDO
171.swim: -QxN -fast -Qansi_alias +FDO
172.mgrid: -QxN -fast -Qansi_alias +FDO
173.applu: -QxN -fast -Qscalar_rep- -Qauto +FDO
177.mesa: -QxN -fast -Oa -Qscalar_rep- +FDO
178.galgel: -QxN -fast -Qansi_alias +FDO
179.art: -Oa -Qipo -Qunroll4 -Zp4
183.quake: -QxN -Oa -Qrcd -Qipo +FDO
187.facerec: -QxN -fast -Qunroll1 -Qscalar_rep- +FDO
188.amp: -Oa -QxN
189.lucas: -QxN -fast -Qprefetch- +FDO
191.fma3d: basepeak=yes



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Notes/Tuning Information (Continued)

200.sixtrack: -Qipo -QxN +FDO

301.apsi: -QxN -fast +FDO

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