



CFP2000 Result

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Intel Corporation

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

SPECfp2000 = 1328

SPECfp_base2000 = 1326

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	78.4	2042	78.4	2041	
171.swim	3100	150	2067	150	2066	
172.mgrid	1800	157	1143	157	1143	
173.applu	2100	169	1242	165	1274	
177.mesa	1400	112	1246	112	1247	
178.galgel	2900	132	2190	132	2191	
179.art	2600	209	1242	213	1221	
183.quake	1300	83.9	1550	83.8	1552	
187.facerec	1900	112	1700	112	1698	
188.ammmp	2200	238	924	237	926	
189.lucas	2000	117	1705	117	1705	
191.fma3d	2100	169	1244	169	1244	
200.sixtrack	1100	218	506	215	513	
301.apsi	2600	267	975	267	975	

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++ 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

```
+FDO: PASS1= -Qprof_gen PASS2=-Qprof_use (-QxP not used in PASS1)
Base tuning: -QxP -fast -Qansi_alias +FDO
Portability:
178.galgel: -FI /F32000000
Peak tuning:
168.wupwise: -QxP -fast -Qansi_alias +FDO
171.swim: -QxP -fast -Qansi_alias +FDO
172.mgrid: -QxP -fast -Qansi_alias +FDO
173.applu: -QxP -fast -Qscalar_rep- -Qauto +FDO
177.mesa: -QxP -fast -Oa -Qscalar_rep- +FDO
178.galgel: -QxP -fast -Qansi_alias +FDO
179.art: -Oa -Qipo -Qunroll4 -Zp4
183.quake: -QxP -Oa -Qrcd -Qipo +FDO
187.facerec: -QxP -fast -Qunroll11 -Qscalar_rep- +FDO
188.ammmp: -Oa -QxP
189.lucas: -QxP -fast -Qprefetch- +FDO
191.fma3d: basepeak=yes
```



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Notes/Tuning Information (Continued)

200.sixtrack: -Qipo -QxP +FDO

301.apsi: -QxP -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