



# CFP2000 Result

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## Intel Corporation

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

SPECfp2000 = 1308

SPECfp\_base2000 = 1300

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	89.3	1792	89.3	1792	
171.swim	3100	151	2056	151	2058	
172.mgrid	1800	149	1207	149	1208	
173.applu	2100	163	1292	158	1333	
177.mesa	1400	94.0	1490	94.0	1490	
178.galgel	2900	141	2055	141	2054	
179.art	2600	292	890	279	931	
183.quake	1300	84.7	1536	85.8	1515	
187.facerec	1900	107	1769	108	1766	
188.amp	2200	278	792	277	793	
189.lucas	2000	123	1630	123	1632	
191.fma3d	2100	165	1270	165	1270	
200.sixtrack	1100	169	653	167	659	
301.apsi	2600	299	869	299	870	

### 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

```
+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 -Qunroll11 -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](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