



# CFP2000 Result

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## Intel Corporation

Intel D875PBZ motherboard (AA-301)(3.2E GHz, Pentium 4 Processor with Hyper-Threading Technology)

SPECfp2000 = 1437

SPECfp\_base2000 = 1433

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	1000 2000 3000 4000			
168.wupwise	1600	70.9	2258	70.8	2259	[Bar chart showing ratio 2259]			
171.swim	3100	147	2114	147	2113	[Bar chart showing ratio 2113]			
172.mgrid	1800	142	1270	142	1270	[Bar chart showing ratio 1270]			
173.applu	2100	162	1299	157	1336	[Bar chart showing ratio 1336]			
177.mesa	1400	98.6	1420	98.6	1420	[Bar chart showing ratio 1420]			
178.galgel	2900	122	2373	122	2376	[Bar chart showing ratio 2376]			
179.art	2600	207	1256	208	1253	[Bar chart showing ratio 1253]			
183.quake	1300	77.0	1688	77.1	1686	[Bar chart showing ratio 1686]			
187.facerec	1900	102	1866	102	1864	[Bar chart showing ratio 1864]			
188.ammpp	2200	218	1007	218	1009	[Bar chart showing ratio 1009]			
189.lucas	2000	116	1728	116	1728	[Bar chart showing ratio 1728]			
191.fma3d	2100	153	1368	153	1368	[Bar chart showing ratio 1368]			
200.sixtrack	1100	191	576	188	585	[Bar chart showing ratio 585]			
301.apsi	2600	243	1070	243	1070	[Bar chart showing ratio 1070]			

### Hardware

CPU: Intel Pentium 4 Processor with Hyper-Threading Technology(3.2E 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 + 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

ONESTEP=yes for all base and peak runs +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 -Qunroll1 -Qscalar\_rep- +FDO  
188.ammpp: -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](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