



# CFP2000 Result

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## Intel Corporation

Intel D875PBZ motherboard (AA-301) (3.0E GHz, Pentium 4 Processor with Hyper-Threading Technology)

SPECfp2000 = 1384

SPECfp\_base2000 = 1381

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	74.5	2147	74.5	2148	[Bar chart showing ratio 2148]			
171.swim	3100	148	2097	148	2100	[Bar chart showing ratio 2100]			
172.mgrid	1800	149	1208	149	1208	[Bar chart showing ratio 1208]			
173.applu	2100	165	1275	160	1310	[Bar chart showing ratio 1310]			
177.mesa	1400	105	1332	105	1333	[Bar chart showing ratio 1333]			
178.galgel	2900	127	2285	127	2285	[Bar chart showing ratio 2285]			
179.art	2600	208	1251	211	1230	[Bar chart showing ratio 1230]			
183.earthquake	1300	80.1	1622	80.2	1622	[Bar chart showing ratio 1622]			
187.facerec	1900	107	1784	107	1784	[Bar chart showing ratio 1784]			
188.ammmp	2200	228	966	227	968	[Bar chart showing ratio 968]			
189.lucas	2000	116	1720	116	1721	[Bar chart showing ratio 1721]			
191.fma3d	2100	161	1308	161	1308	[Bar chart showing ratio 1308]			
200.sixtrack	1100	203	541	200	549	[Bar chart showing ratio 549]			
301.apsi	2600	254	1024	254	1023	[Bar chart showing ratio 1023]			

### Hardware

CPU: Intel Pentium 4 Processor with Hyper-Threading Technology(3.0E GHz, 800 MHz bus)  
CPU MHz: 3000  
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.earthquake: -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](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