



# 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 = 1325

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	2041	78.3	2043	
171.swim	3100	150	2067	150	2069	
172.mgrid	1800	158	1143	158	1143	
173.applu	2100	169	1242	165	1275	
177.mesa	1400	112	1245	112	1246	
178.galgel	2900	132	2189	132	2191	
179.art	2600	210	1241	214	1215	
183.quake	1300	83.9	1549	83.8	1551	
187.facerec	1900	112	1700	112	1699	
188.ammmp	2200	238	925	237	927	
189.lucas	2000	117	1705	117	1704	
191.fma3d	2100	169	1245	169	1245	
200.sixtrack	1100	218	505	215	512	
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

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.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