



# CFP2000 Result

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## Intel Corporation

Intel D875PBZ motherboard (AA-301) (3.4 GHz, Pentium 4 Processor with Hyper-Threading Technology Extreme Edition)

SPECfp2000 = 1561

SPECfp\_base2000 = 1548

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	89.8	1781	89.2	1793	
171.swim	3100	144	2154	144	2156	
172.mgrid	1800	139	1291	139	1291	
173.applu	2100	157	1337	152	1385	
177.mesa	1400	92.7	1510	92.8	1509	
178.galgel	2900	95.6	3035	95.3	3043	
179.art	2600	113	2296	105	2471	
183.quake	1300	83.2	1563	84.3	1541	
187.facerec	1900	102	1867	102	1863	
188.ammmp	2200	168	1311	167	1319	
189.lucas	2000	120	1672	120	1671	
191.fma3d	2100	162	1298	162	1298	
200.sixtrack	1100	165	666	163	673	
301.apsi	2600	220	1179	220	1179	

### Hardware

CPU: Intel Pentium 4 Processor with Hyper-Threading Technology Extreme Edition (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: 2MB (I+D) on chip  
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 -Qunroll1 -Qscalar_rep- +FDO
188.ammmp: -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