



# CFP2000 Result

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## Intel Corporation

Intel D850EMV2 motherboard( 2.0A GHz, Intel Pentium 4 processor)

SPECfp2000 = 807

SPECfp\_base2000 = 804

SPEC license #: 13 Tested by: Intel Corporation Test date: Oct-2004 Hardware Avail: May-2002 Software Avail: Sep-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	136	1180	135	1181	
171.swim	3100	240	1292	239	1298	
172.mgrid	1800	232	776	230	783	
173.applu	2100	267	787	268	783	
177.mesa	1400	164	856	164	856	
178.galgel	2900	247	1176	245	1182	
179.art	2600	448	580	448	580	
183.quake	1300	135	964	135	964	
187.facerec	1900	183	1037	183	1039	
188.ammmp	2200	465	473	458	480	
189.lucas	2000	188	1064	188	1063	
191.fma3d	2100	265	793	265	793	
200.sixtrack	1100	288	382	283	388	
301.apsi	2600	452	575	452	575	

### Hardware

CPU: Intel Pentium 4 processor (2.0A GHz, 400 MHz bus)  
CPU MHz: 2000  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
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: 256 MB (2 128 MB PC800-40 RDRAM non-ECC modules)  
Disk Subsystem: IBM 120GXP 80 GB IC35L080AVVA07-0 ATA-100  
Other Hardware: N/A

### Software

Operating System: Windows XP Professional SP2  
Compiler: Intel C++ and Fortran Compiler 8.1 Build 20040802Z  
Microsoft Visual Studio .Net 2002(for libraries)  
SmartHeap Library Version 6.0 from <http://www.microquill.com/>  
File System: NTFS  
System State: Default

## Notes/Tuning Information

```
+FDO: PASS1= -Qprof_gen PASS2=-Qprof_use
Base tuning: -O3 -Qipo -QxN +FDO
Portability:
178.galgel: -FI /F32000000
Peak tuning:
168.wupwise: -O3 -Qipo -QxN -Qansi_alias +FDO
171.swim: -O3 -Qipo -QxN -Qansi_alias +FDO
172.mgrid: -O3 -Qipo -QxN -Qansi_alias +FDO
173.applu: -O3 -Qipo -QxN -Qscalar_rep- -Qauto +FDO
177.mesa: basepeak=yes
178.galgel: -O3 -Qipo -QxN -Qansi_alias +FDO
179.art: basepeak=yes
183.quake: basepeak=yes
187.facerec: -O3 -Qipo -QxN -Qunroll1 -Qscalar_rep- +FDO
188.ammmp: -Oa -QxN
189.lucas: -O3 -Qipo -QxN -Qprefetch- +FDO
191.fma3d: basepeak=yes
```



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## Notes/Tuning Information (Continued)

200.sixtrack: -Qipo -QxN +FDO

301.apsi: -O3 -Qipo -QxN +FDO

Tested systems can be used with Shin-G ATX case, Delta Inc. power supply PS-300GB-1 B

Product description located as of 11/2004:

<http://support.intel.com/support/motherboards/desktop/d850emv2/index.htm>

The system bus runs at 400 MHz