



CFP2000 Result

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Intel Corporation

Intel D850GB motherboard (1.7 GHz, Pentium 4 processor)

SPECfp2000 = 659

SPECfp_base2000 = 650

SPEC license #: 13 Tested by: Intel Corporation Test date: Aug-2001 Hardware Avail: Apr-2001 Software Avail: Jun-2001

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	184	868	184	871	
171.swim	3100	245	1264	243	1275	
172.mgrid	1800	285	631	273	659	
173.applu	2100	285	737	280	750	
177.mesa	1400	202	692	201	695	
178.galgel	2900	349	830	347	837	
179.art	2600	493	527	488	532	
183.quake	1300	177	736	169	769	
187.facerec	1900	255	745	257	738	
188.amp	2200	580	379	573	384	
189.lucas	2000	221	903	221	904	
191.fma3d	2100	378	556	377	556	
200.sixtrack	1100	354	311	340	324	
301.apsi	2600	543	479	543	479	

Hardware

CPU: Pentium 4 processor (1.7 GHz, 400 MHz bus)
CPU MHz: 1700
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: 256KB(I+D) on chip
L3 Cache: N/A
Other Cache: N/A
Memory: 256 MB (2 128 MB PC800 RDRAM non-ECC modules)
Disk Subsystem: IBM DTLA-307030 ATA-100
Other Hardware: None

Software

Operating System: Windows 2000(Build 2195, SP2)
Compiler: Intel C++ Compiler 5.0.1 Build 010525Z
Intel Fortran Compiler 5.0.1 Build 010525Z
Microsoft Visual C++ 6.0 SP5(for libraries)
MicroQuill SmartHeap library V6.0
File System: FAT32
System State: Default

Notes/Tuning Information

```
+FDO: PASS1= -Qprof_gen PASS2=-Qprof_use
Base tuning: -Qipo -QxW -O3 +FDO
Portability:
178.galgel: -FI /F32000000
Peak tuning:
168.wupwise: -Qipo -QxW -O3 +FDO
171.swim: -Qipo -QxW -O3 +FDO
172.mgrid: -Qipo -QaxW -O3 +FDO
173.applu: -Qipo -QxW -O3 -Qscalar_rep- -Qauto +FDO
177.mesa: -Qipo -Oa -QxW -O3 +FDO
178.galgel: -Qipo -QxW -O3 +FDO
179.art: -Qipo -QxW -O3 -Oa +FDO
183.quake: -Qipo -QxW -Oa -Qrcd +FDO
187.facerec: -Qipo -QxW -O3 +FDO
187.facerec: LIBS=libIEPCF90.lib libintrins.lib libF90.lib
libqwin.lib libm.lib shlw32M.lib LIBC.lib
libirc.lib OLDNAMES.lib
```



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Notes/Tuning Information (Continued)

188. ammp: -Qipo -QxW -O3 -Oa +FDO
189. lucas: -Qipo -QxW -O3 +FDO
191. fma3d: -Qipo -QxW -O3 +FDO
200. sixtrack: -Qipo -QxW +FDO
301. apsi: -Qipo -QxW -O3 +FDO

LIBS=libIEPCF90.lib libintrins.lib libF90.lib libqwind.lib libm.lib shlW32M.lib
LIBC.lib libirc.lib OLDNAMES.lib

shlW32M.lib is the SmartHeap library V6.0 from Microquill:

<http://www.microquill.com>

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

Product description located as of 11/2000:

http://developer.intel.com/design/motherbd/gb/gb_ds.htm

Motherboard is available through Intel OEM Distribution Channel. See

<http://channel.intel.com/business/ibp/boards/d850gb.htm> for more information

The system bus runs at 400 MHz