



CFP2000 Result

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Intel Corporation

Intel D850GB motherboard (1.6 GHz, Pentium 4 processor)

SPECfp2000 = 637

SPECfp_base2000 = 628

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	193	828	192	832	
171.swim	3100	245	1264	244	1271	
172.mgrid	1800	297	606	284	633	
173.applu	2100	296	710	290	724	
177.mesa	1400	215	650	214	655	
178.galgel	2900	359	807	357	812	
179.art	2600	491	530	486	534	
183.quake	1300	181	719	172	755	
187.facerec	1900	266	715	268	708	
188.amp	2200	595	369	588	374	
189.lucas	2000	231	867	231	868	
191.fma3d	2100	394	534	393	534	
200.sixtrack	1100	375	293	360	305	
301.apsi	2600	560	464	560	464	

Hardware

CPU: Pentium 4 processor (1.6 GHz, 400 MHz bus)
 CPU MHz: 1600
 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