



CFP2000 Result

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Intel Corporation

Intel D850GB motherboard (2.0 GHz, Pentium 4 processor)

SPECfp2000 = 714

SPECfp_base2000 = 704

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	166	966	165	971	
171.swim	3100	243	1274	242	1283	
172.mgrid	1800	259	696	251	718	
173.applu	2100	270	777	265	793	
177.mesa	1400	175	798	174	805	
178.galgel	2900	325	892	324	896	
179.art	2600	489	532	483	538	
183.quake	1300	169	770	162	803	
187.facerec	1900	229	830	229	830	
188.amp	2200	543	405	537	410	
189.lucas	2000	208	963	208	963	
191.fma3d	2100	337	624	336	625	
200.sixtrack	1100	302	364	290	379	
301.apsi	2600	501	519	500	520	

Hardware

CPU: Pentium 4 processor (2.0 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: 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