



CFP2000 Result

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Intel Corporation

Intel D875PBZ motherboard (AA-301) (3.0E GHz, Pentium 4 Processor with Hyper-Threading Technology)

SPECfp2000 = 1384

SPECfp_base2000 = 1381

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	1000 2000 3000 4000			
168.wupwise	1600	74.4	2150	74.5	2149	[Bar chart showing performance relative to 1000, 2000, 3000, 4000]			
171.swim	3100	148	2095	148	2097	[Bar chart showing performance relative to 1000, 2000, 3000, 4000]			
172.mgrid	1800	149	1208	149	1208	[Bar chart showing performance relative to 1000, 2000, 3000, 4000]			
173.applu	2100	165	1275	160	1311	[Bar chart showing performance relative to 1000, 2000, 3000, 4000]			
177.mesa	1400	105	1332	105	1334	[Bar chart showing performance relative to 1000, 2000, 3000, 4000]			
178.galgel	2900	127	2284	127	2285	[Bar chart showing performance relative to 1000, 2000, 3000, 4000]			
179.art	2600	208	1248	211	1232	[Bar chart showing performance relative to 1000, 2000, 3000, 4000]			
183.earthquake	1300	80.2	1622	80.1	1623	[Bar chart showing performance relative to 1000, 2000, 3000, 4000]			
187.facerec	1900	107	1783	107	1782	[Bar chart showing performance relative to 1000, 2000, 3000, 4000]			
188.ammmp	2200	228	966	227	967	[Bar chart showing performance relative to 1000, 2000, 3000, 4000]			
189.lucas	2000	116	1721	116	1721	[Bar chart showing performance relative to 1000, 2000, 3000, 4000]			
191.fma3d	2100	161	1307	161	1307	[Bar chart showing performance relative to 1000, 2000, 3000, 4000]			
200.sixtrack	1100	203	541	200	549	[Bar chart showing performance relative to 1000, 2000, 3000, 4000]			
301.apsi	2600	254	1024	254	1024	[Bar chart showing performance relative to 1000, 2000, 3000, 4000]			

Hardware

CPU: Intel Pentium 4 Processor with Hyper-Threading Technology(3.0E GHz, 800 MHz bus)
CPU MHz: 3000
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 + 16KBD on chip
Secondary Cache: 1MB(I+D) on chip
L3 Cache: N/A
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 (-QxP not used in PASS1)
Base tuning: -QxP -fast -Qansi_alias +FDO
Portability:
178.galgel: -FI /F32000000
Peak tuning:
168.wupwise: -QxP -fast -Qansi_alias +FDO
171.swim: -QxP -fast -Qansi_alias +FDO
172.mgrid: -QxP -fast -Qansi_alias +FDO
173.applu: -QxP -fast -Qscalar_rep- -Qauto +FDO
177.mesa: -QxP -fast -Oa -Qscalar_rep- +FDO
178.galgel: -QxP -fast -Qansi_alias +FDO
179.art: -Oa -Qipo -Qunroll4 -Zp4
183.earthquake: -QxP -Oa -Qrcd -Qipo +FDO
187.facerec: -QxP -fast -Qunroll11 -Qscalar_rep- +FDO
188.ammmp: -Oa -QxP
189.lucas: -QxP -fast -Qprefetch- +FDO
191.fma3d: basepeak=yes
```



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Notes/Tuning Information (Continued)

200.sixtrack: -Qipo -QxP +FDO

301.apsi: -QxP -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

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