CFP2000 Result

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Intel Corporation

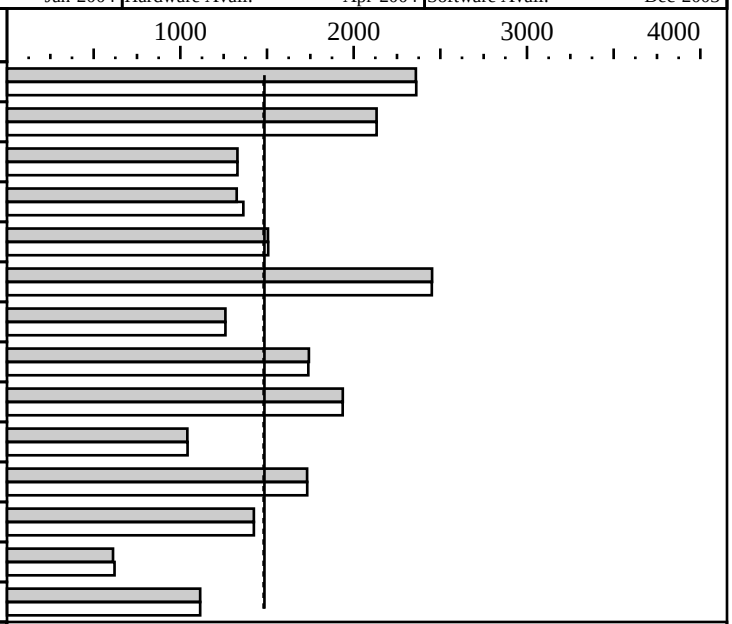
Intel D875PBZ motherboard (AA-301) (3.4E GHz, Pentium 4 Processor with HT Technology)

SPECfp2000 = 1485

SPECfp_base2000 = 1481

SPEC license #: 13 | Tested by: Intel Corporation | Test date: Jan-2004 | Hardware Avail: Apr-2004 | Software Avail: Dec-2003

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	67.8	2359	67.8	2361
171.swim	3100	145	2132	145	2132
172.mgrid	1800	135	1329	135	1330
173.applu	2100	158	1325	154	1363
177.mesa	1400	93.0	1506	92.9	1507
178.galgel	2900	118	2452	118	2451
179.art	2600	206	1260	206	1260
183.equake	1300	74.6	1742	74.8	1738
187.facerec	1900	98.1	1937	98.1	1937
188.ammp	2200	211	1040	211	1042
189.lucas	2000	116	1731	115	1732
191.fma3d	2100	147	1424	147	1424
200.sixtrack	1100	180	612	177	620
301.apsi	2600	233	1114	233	1114



Hardware

CPU:	Intel Pentium 4 Processor with HT Technology (3.4E GHz, 800 MHz bus)
CPU MHz:	3400
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip (HT 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

```
ONESTEP=yes for all base and peak runs   +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.equake:   -QxP -Oa -Qrcd -Qipo +FDO
187.facerec:  -QxP -fast -Qunroll1 -Qscalar_rep- +FDO
188.ammp:     -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/asmo-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 and HT Technology is enabled