CFP2000 Result

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Intel Corporation

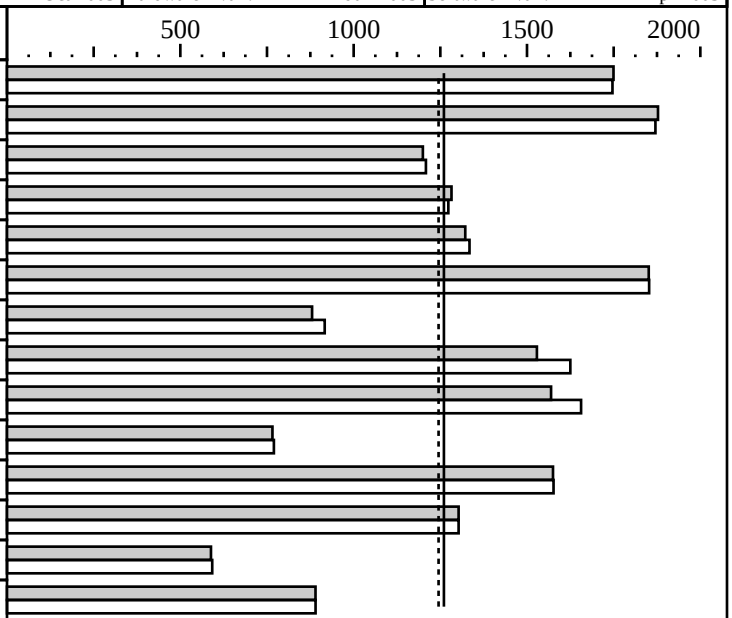
Intel D875PBZ motherboard (3.2 GHz, Pentium 4 processor with Hyper-Threading Technology)

SPECfp2000 = 1260

SPECfp_base2000 = 1245

SPEC license #: 13 | Tested by: Intel Corporation | Test date: Oct-2003 | Hardware Avail: Jun-2003 | Software Avail: Apr-2003

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	91.5	1750	91.6	1747
171.swim	3100	165	1878	166	1870
172.mgrid	1800	150	1200	149	1208
173.applu	2100	164	1282	165	1273
177.mesa	1400	106	1322	105	1334
178.galgel	2900	157	1851	157	1852
179.art	2600	295	880	284	916
183.equake	1300	85.0	1529	80.0	1625
187.facerec	1900	121	1569	115	1656
188.ammp	2200	287	766	286	770
189.lucas	2000	127	1575	127	1577
191.fma3d	2100	161	1303	161	1303
200.sixtrack	1100	187	588	186	592
301.apsi	2600	292	890	292	890



Hardware

CPU:	Intel Pentium 4 Processor with Hyper-Threading Technology(3.2 GHz, 800 MHz bus)
CPU MHz:	3200
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 + 8KBD on chip
Secondary Cache:	512KB(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 7.1 Build 20030224Z Microsoft Visual Studio .Net 7.0(for libraries) MicroQuill SmartHeap library V6.0
File System:	NTFS
System State:	Default

Notes/Tuning Information

```
ONESTEP=yes   +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 -QxW  -O3 -Oa -Qscalar_rep- +FDO
178.galgel:   -Qipo -QxW  -O3 +FDO
179.art:      -Oa -Qipo -Qunroll4 -Zp4
183.equake:   -Qipo -QxW  -Oa -Qrcd +FDO
187.facerec:  -Qipo -QaxW -O3 -Qunroll1 -Qscalar_rep- +FDO
188.ammp:     -Oa -QxW
189.lucas:    -Qipo -QxW  -O3 -Qprefetch- +FDO
191.fma3d:    basepeak=yes
```

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Notes/Tuning Information (Continued)

200.sixtrack: -Qipo -QxW +FDO
301.apsi: -Qipo -QxW -O3 +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