CFP2000 Result

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Intel Corporation

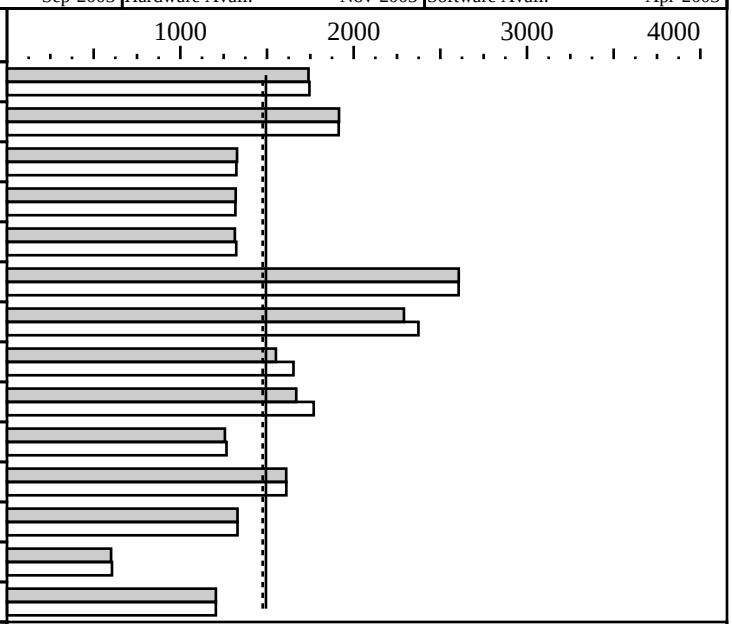
Intel D875PBZ (AA-206) motherboard (3.2 GHz, Pentium 4 processor with Hyper-Threading Technology Extreme Edition)

SPECfp2000 = 1494

SPECfp_base2000 = 1475

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	92.0	1739	91.7	1745
171.swim	3100	162	1915	162	1914
172.mgrid	1800	136	1327	136	1323
173.applu	2100	159	1319	159	1318
177.mesa	1400	107	1315	106	1323
178.galgel	2900	111	2606	111	2606
179.art	2600	114	2290	110	2374
183.equake	1300	83.8	1551	78.7	1653
187.facerec	1900	114	1669	107	1769
188.ammp	2200	175	1257	174	1266
189.lucas	2000	124	1611	124	1611
191.fma3d	2100	158	1330	158	1330
200.sixtrack	1100	183	601	182	606
301.apsi	2600	216	1205	216	1205



Hardware

CPU:	Intel Pentium 4 Processor with Hyper-Threading Technology Extreme Edition (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:	2MB(I+D) on chip
Other Cache:	N/A
Memory:	512 MB (4 128 MB PC3200 Samsung CL3-3-3)
Disk Subsystem:	IBM 120GXP 80 GB IC35L080AVVA07-0 ATA-100
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:	FAT32
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