



Intel Corporation (Intel) commissioned Principled Technologies (PT) to compare the performance in common business scenarios that utilize advanced user interface features in Microsoft Windows Vista of an Intel vPro technology based PC with that of three other platforms. We tested a scenario that took advantage of new features of Windows Vista to preview digital photos. We compared the performance of the following four systems:

- Intel vPro technology with Intel Core 2 Duo processor E6700 on an Intel 965 (DQ965GF) motherboard
- Intel Pentium D processor 930 on an Intel D945GTP motherboard
- Intel Pentium 4 processor 630 on an Intel D945GTP motherboard
- Intel Pentium 4 processor on an Intel D865GBF motherboard

Scenario: previewing digital photographs

Jill Bancroft is an environmental engineer for the Clearspace Paper Company. Her manager has recently assigned Jill a large project: she is to write a bid for an environmental clean-up of sections of several cities. She will have to visit the cities before she can write the bid. To prepare for her trip, Jill studies photographs of some of the areas she will be inspecting.

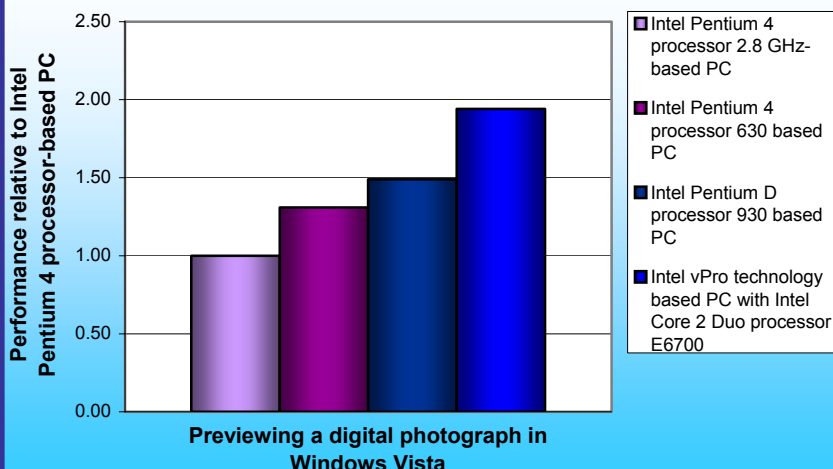
The Intel vPro technology-based PC with the Intel Core 2 Duo processor E6700 outperformed its competitors on previewing digital photographs due to the faster processor and chipset. The improvement is likely due to the processor's larger L1 cache, faster memory access, and improved multimedia capabilities.

For more information on these tests and to see the full test report, visit:
www.principledtechnologies.com/clients/reports/Intel/vProVistaAero.pdf.

KEY FINDINGS

- The Intel® vPro™ technology based PC featuring the Intel® Core™2 Duo processor E6700 yielded significant performance advantages for users on our test that took advantage of some of the new user-interface features in Windows Vista.
- The Intel vPro technology based PC finished our task 1.30 times faster than the Intel® Pentium® D processor-based 930 based PC.
- The Intel vPro technology based PC finished our task 1.94 times faster than the Intel® Pentium® 4 processor 2.8GHz based PC.
- These performance improvements translate into multi-second time savings that would be noticeable to users.

Find and Use Windows Vista Aero scenario



PERFORMANCE RESULTS (seconds)				TASK	COMPARATIVE RATING			
Intel Pentium 4 processor 2.8 GHz on Intel D865GBF	Intel Pentium 4 processor 630 on Intel D945GTP	Intel Pentium D processor 930 on Intel D945GTP	Intel vPro with Core 2 Duo processor E6700 on Intel DQ965GF		Intel Pentium 4 processor 2.8 GHz on Intel D865GBF	Intel Pentium 4 processor 630 on Intel D945GTP	Intel Pentium D processor 930 on Intel D945GTP	Intel vPro with Core 2 Duo processor E6700 on Intel DQ965GF
15.08	11.47	10.10	7.76	Previewing digital photos	1.00	1.31	1.49	1.94