



Intel Corporation (Intel) commissioned Principled Technologies (PT) to compare the performance on Microsoft Windows Vista of an Intel vPro technology based PC with that of three other platforms on a common business professional communications and collaboration scenario. We tested a scenario which uses Microsoft Outlook 2007 and Microsoft Groove 2007. We compared the performance of the following four platforms on this scenario:

- 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: opening a compressed Microsoft Outlook message attachment, an XML file, in Microsoft Word 2007 while a Microsoft Groove 2007 workspace synchronization runs

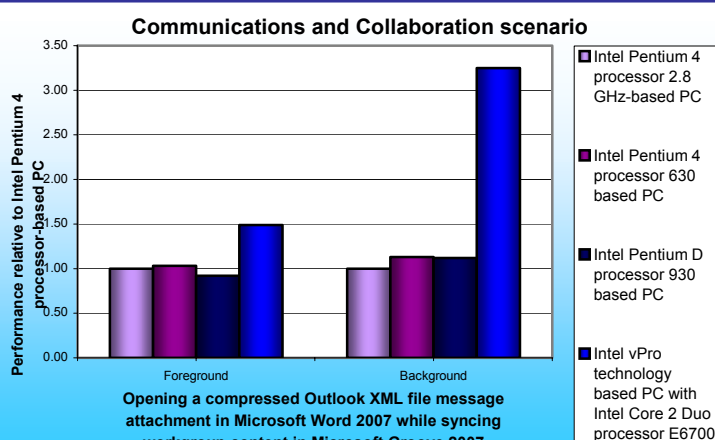
Sheila Craig, an IT manager, is working on an internal audit of the systems at the Acme Academics grading center. She has Microsoft Outlook running on her PC so she can receive an email she is expecting from her co-worker, Jenny. Sheila checks her email and sees that Jenny has sent her the file she needs to study. The file is an XML document that shows the advantages of some of the system upgrades Jenny is recommending for the grading center. At the same time, someone has added a large group of files to the IT department's Microsoft Groove workspace. While Sheila is opening the attached zip file, Groove begins to automatically synchronize her machine with the workspace. While the Groove synchronization runs in the background, Sheila opens Jenny's XML document in Word to study its contents.

The Intel vPro technology-based PC with the Intel Core 2 Duo processor E6700 outperformed the older systems on opening a compressed Outlook message attachment, an XML file, in Microsoft Word 2007 while a Microsoft Groove workspace synchronization runs primarily because of the faster processor and chipset. Microsoft Groove 2007 is also multi-threaded and so benefits from the dual cores of the Intel Core 2 Duo processor. The improvement is likely due to the processor's larger L1 cache, faster memory access, and, of course, multiple cores.

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

KEY FINDINGS

- The Intel® vPro™ technology based PC with the Intel® Core™ 2 Duo processor E6700 yielded significant performance advantages for users on our business professional communications and collaboration test.
- The Intel vPro technology-based PC with the Intel Core 2 Duo processor E6700 finished the Outlook attachment open task 1.62 times faster and the Microsoft Groove sync task 2.89 times faster than the Intel® Pentium® D processor 930-based PC.
- The Intel vPro technology based PC with the Intel Core™ 2 Duo processor E6700 finished the Outlook attachment open task 1.49 times faster and the Microsoft Groove sync task 3.25 times faster than the Intel® Pentium® 4 processor 2.8GHz based PC with the Intel D865GBF motherboard.
- These performance improvements translate into multi-second time savings that would be significant to users.



PERFORMANCE RESULTS (seconds)				TASKS	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
20.15	19.49	22.01	13.56	Foreground: Opening a compressed Outlook XML file attachment	1.00	1.03	0.92	1.49
74.06	65.59	65.92	22.79	Background: Microsoft Groove 2007 sync	1.00	1.13	1.12	3.25