Software Evaluation Guide for a Small Business Marketing Workflow Scenario

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About this Document

This document is a guide measuring performance of Intel® processors on application software. The primary audience for this document includes individuals, publications, OEMs and technical analysts whose goal is to test or evaluate the performance benefits and features of Intel processors. If there are questions that are not answered here on software application performance evaluation of Intel processors, please contact your Intel representative.

Each software application test measures different aspects of processor and/or system performance. While no single numerical measurement can completely describe the performance of a complex device like a microprocessor or a personal computer, application tests can be useful tools for comparing different components and systems. The following results and procedures give a glimpse of the performance of certain software applications, however your own usage of each application may vary from what is shown here. The only totally accurate way to measure the performance of your system, is to test the actual software applications you use, in the way you use them, on your computer system. Test results published by Intel are measured on specific systems or components using specific hardware and software configurations, and any differences between those configurations (including software) and your configuration may make those results inapplicable to your component or system.

Software application tests are, at most, only one kind of information that you may use during the purchasing process. To get a true picture of the performance of a component or system you are considering purchasing, you must consult other sources of information (such as performance information on the exact system you are considering purchasing). If you have any questions about the performance of any Intel microprocessor, please view the detailed performance briefs and reports published by Intel.

Chapter 1

Processor Performance on a Small Business Marketing Workflow Scenario

1.0 Software Description

This workflow uses various applications including:

Microsoft* Office* 2010 with SP1
Adobe* Premiere Elements* 10
Adobe* Photoshop Elements* 10
WinZip* 16
Symantec* Endpoint Protection*
Adobe* Flash Player* 11

1.1 Test Workflow/Workload Description

The user is responsible for marketing in a small business. The business is opening a new location and needs to train its sales team and update the company website. In the scenario, the user has browsers open and is running Microsoft Outlook and Windows Live Messenger. In addition, the system has Microsoft BitLocker disk encryption enabled and Symantec Endpoint Protection installed. The user first uses WinZip to extract an encrypted file containing previously confidential documents and photos that are now ready for wider distribution. The user edits several photos using Adobe Photoshop Elements and copies and inserts them into a Word document and PowerPoint presentation. He saves the presentation and converts the Word document to PDF format for publishing. The user then compiles an email to send the training material to the company sales team. In addition, the user edits a training video using Adobe Premiere Elements. The PDF, PowerPoint presentation, and training video are now ready to be uploaded to the company's website.

Chapter 2
Procedure for Evaluating Processor Performance

Set-up Instructions:

Install Microsoft* Office* 2010 with SP1

1. Install Microsoft* Office 2010 Professional Plus with Service Pack 1, enter in a Product key but uncheck "Attempt to automatically activate my product online", and proceed with default installation options.

2. Launch Outlook* 2010 by clicking on the Start menu, then selecting All Programs->Microsoft Office->Microsoft Office Outlook 2010.

3. Select Next

4. Select "No" when asked "Would you like to configure an E-mail account?" and click Next

5. Checkmark "Continue with no-email support" and click Finish

6. Click "Cancel" when asked to activate Microsoft Office

7. When the "Help Protect and Improve Microsoft Office" window appears, select "Don't make changes" and click OK

8. Close Microsoft Outlook

9. Open Microsoft Excel

10. Close Microsoft Excel

Install Adobe Photoshop Elements 10

1. Install Adobe Photoshop Elements 10 using default options. Make sure to enter a product key and not choose the 30-day trial.

2. Restart your computer

3. Double-click on the Adobe Photoshop Elements 10 icon on the desktop

4. Accept the license agreement if prompted

5. Click "Organize" and make sure the window is not fully maximized once it's opened. The middle icon in the top right should be displayed as a single box. If it is two boxes, click it.

6. On the "Welcome to the Elements Organizer!" window select "Cancel"

7. Select Edit > Preferences > Adobe Partner Services

8. Under Adobe Partner Services, uncheck "Automatically check for services." Then select Media-Analysis in the left column and uncheck "Run Analyzer on System Startup" and "Run Analyzer only when System is idle." Click OK

9. Close Adobe Photoshop Elements 10.

    - Note 1: You may encounter a window asking you to "Enter your Adobe ID". Click "Skip"
    - Note 2: You may encounter "Adobe Product Improvement Program" window. Click "No, Thank You"
    - Note 3: You may encounter a window informing you on how to see the rest of the Catalog. Select "Don't Show Again" and click "OK"

Install Adobe Premiere Elements 10

1. Install Adobe Premiere Elements 10 using default options. Make sure to enter a product key and not choose the 30-day trial.

2. Restart your computer

3. Double-click on the Adobe Premiere Elements 10 icon on the desktop

4. Accept the license agreement if prompted

5. On the "Welcome to" select "New Project"

6. When asked if you want to "Install Full Content," check "Do not show again" and click No

7. Select Edit > Preferences > Web Sharing and uncheck "Automatically Check for Services" and press OK

8. Close Adobe Premiere Elements 10.

    - Note 1: You see a window asking you to "Enter your Adobe ID". Click "Skip"
    - Note 2: You may encounter "Adobe Product Improvement Program" window. Click "No, Thank You"

Install WinZip 16

1. Install WinZip 16 with default selections except for as noted below.

    a. Select "Do not install the Google Toolbar."

b. Uncheck "Include WinZip gadget on the desktop."

c. Select "No thanks, just install WinZip" on the WinZip User Feedback screen

d. Uncheck "Install WinZip Courier"

2. After installation, WinZip should open. A dialog box will appear asking you if you want to purchase the full version or use the evaluation version. Enter the activation code for WinZip.

3. On the WinZip Tip of the Day window, select "Never show tips at startup" from the drop-down list.

4. Close WinZip

Install Symantec Endpoint Protection

1. Run "setup.exe" from the 64-bit installation folder for Symantec Endpoint Protection with default selections unless as noted below.

   a. Select "Custom" setup type and click Next

   b. Click Next

   c. Uncheck "Enable Auto-Protect" and "Run LiveUpdate" and click Next

   d. Click Install

   e. Restart your system when finished installing

2. Apply "SEP64_26To550_clientMSPMSI.exe" to update Symantec Endpoint Protection. Note: the system will install the update in the background so wait about 5 minutes before proceeding to the next step.

Install Internet Explorer 9 and Adobe Flash Player 11

1. Run IE9-Windows7-x64-enu.exe and install using default options

2. Open Internet Explorer

3. Select "Use recommended security and compatibility settings" if prompted then press OK

4. Close Internet Explorer

5. Run install_flash_player_ax_32bit.exe and install_flash_player_ax_64bit.exe to install Adobe Flash Player 11 using default options

BitLocker Encrypt the Hard Drive

1. If platform includes a TPM; ensure TPM is disabled in BIOS.

2. From windows Start → Seach type "gpedit.msc" and press enter.

3. From Computer Configuration → Administrative Templates → Windows Components → Bitlocker Drive Configuration, double click "Choose drive encryption method and cipher strength"

4. In the pop-up select "Enabled, AES 128-bit with Diffuser," then OK

5. From Computer Configuration → Administrative Templates → Windows Components → Bitlocker Drive Configuration →, double click "Require additional authentication at startup"

6. In the pop-up select Enabled, then OK

7. Exit out of Local Group Policy Editor

8. From Control Panel → (View by: Small Icons) → Bitlocker Drive Encryption, click "Turn On Bitlocker"

9. If the list of steps shown in the window does not include *Prepare your drive for Bitlocker* press Cancel, then OK at the warning dialog and continue with step 14. Otherwise continue with step 12.

10. When prompted at Preparing your drive for Bitlocker, select next, then Restart Now.

11. After the system reboots ensure there is a green check mark next to Prepare your drive for Bitlocker and press Cancel, then OK at the warning dialog.

12. A USB thumb drive must be present to copy the Bitlocker key onto if not using a TPM.

13. When encryption is complete a dialog box will show "Encryption of Drive C: Complete"

14. Restart your computer

Run Instructions:

Copy the "MarketingWorkflow_WL" workload folder to "C:\Program Files\Intel(R) Workload Application Launcher\SEGs\Workloads" and use the provided AutoIT script to run the workflow. The file "C:\SEG0426_SMB_Marketing_RESULTS.txt" will contain the total time for the combination of the selected timed portions of the workflow.