

# Software Evaluation Guide for Apple\* iTunes\* 7.6.2



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## About this Document

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This document is a guide measuring performance of the 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 the Pentium Processor. If there are questions that are not answered here on software application performance evaluation of the Pentium Processor, 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.

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# **Chapter 1**

## **Processor Performance on iTunes\* 7.6.2**

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### **1.0 Software Description**

iTunes\* is the industry leading application used to convert, save and manage digital music. iTunes\* allows the user to record, organize and play songs on a PC or the use the unlimited high quality encoder to convert music into MP3 or other formats.

### **1.1 Test Workload Description**

The tested workload for iTunes\* 7.6.2 measures the time needed to convert a 634.746KB wav file to an mp3 with 160kbps bitrate. Along with the benefits of a dual core processor, this technology achieves a considerable level of performance and responsiveness.

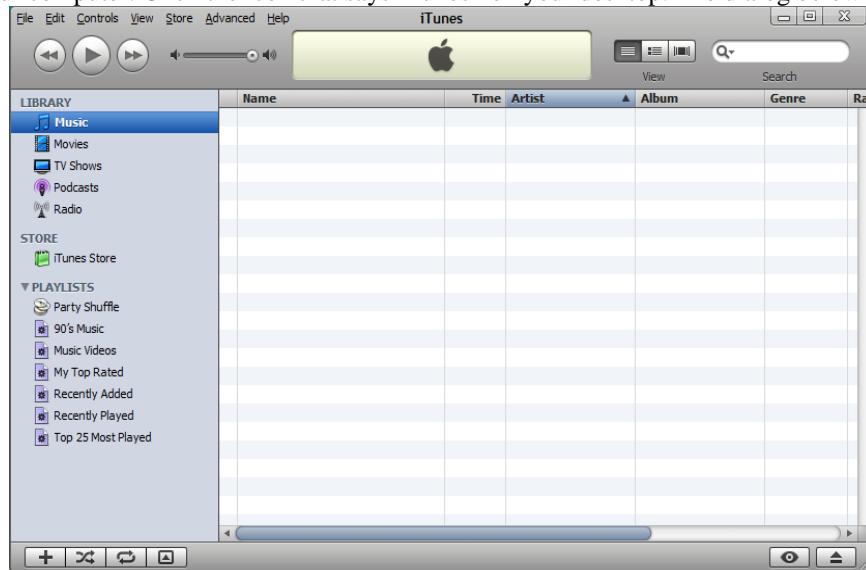
## Chapter 2

# Procedure for Evaluating Performance

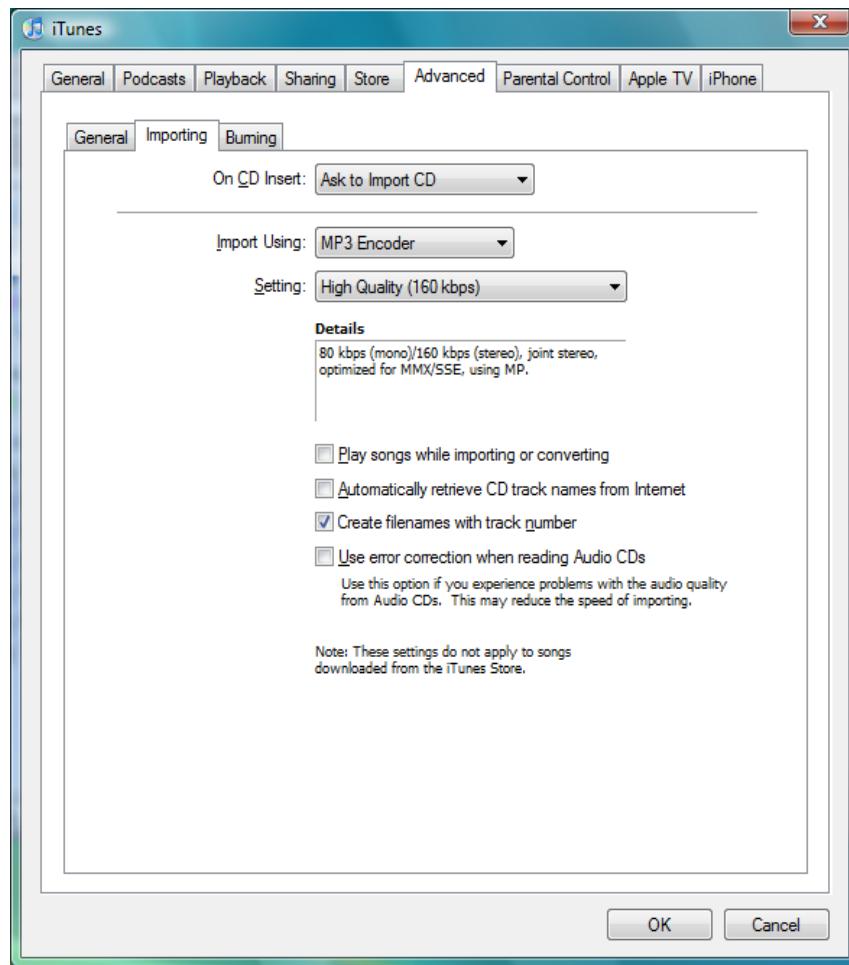
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The following is a procedure for evaluating performance while running iTunes\* 7.6.2.

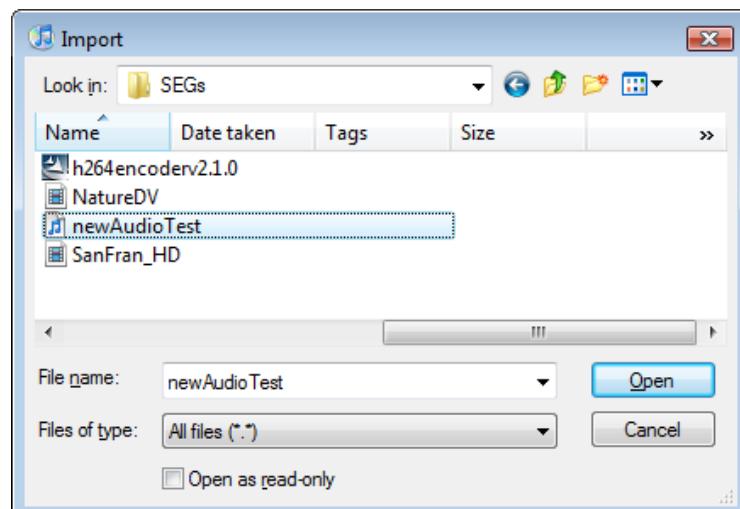
1. Download iTunes\* 7.6.2 from <http://www.apple.com/itunes/download/> and place it on your desktop.
2. Double click the icon called iTunesSetup on your desktop. Click Next on the installation wizard dialog.
3. Follow the installation wizard and install iTunes with default settings. Click Next at each dialog until you reach the dialog that says Installation Successful. When you reach this dialog, click Finish.
4. Reboot your computer. Click the icon that says iTunes\* on your desktop. The dialog below will appear.



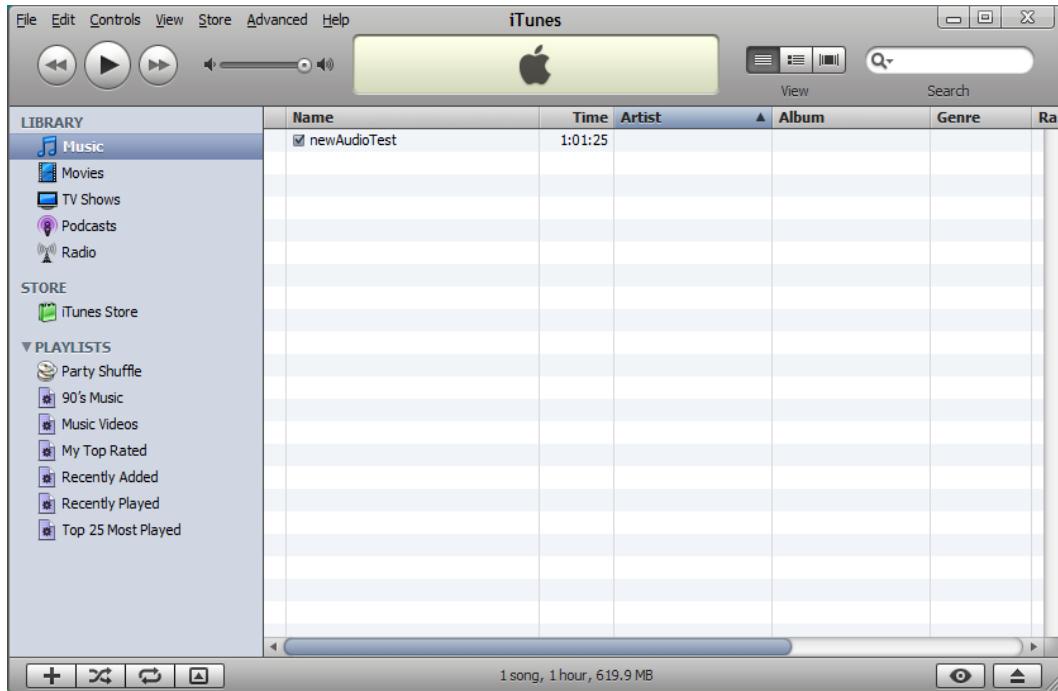
5. Under the Edit menu, select Preferences. The dialog below will appear. Click on the tab that says Importing under the Advanced tab. In the dropdown menu next to the setting for Import Using, choose MP3 Encoder. Deselect the checkbox to play songs while importing or converting and also deselect the option to automatically download track names from the internet. Click Ok.



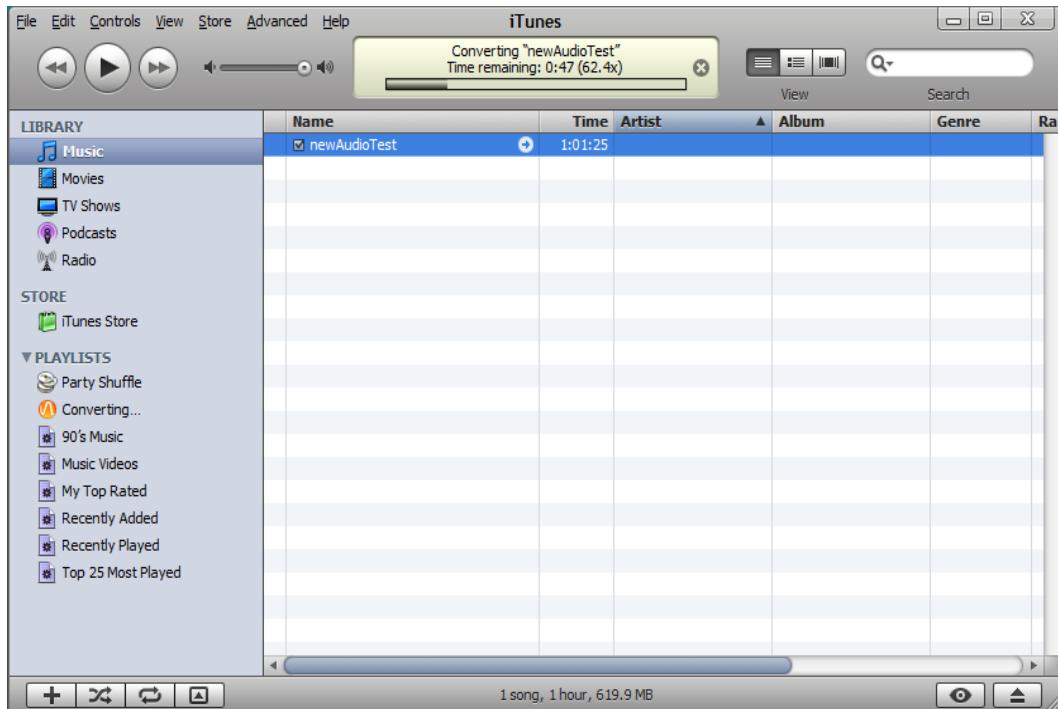
6. Place your test file called newAudioTest.wav available in the workload directory in the My Music folder under your My Documents folder. From the file menu, select Add File to Library. Choose the file you want to add to the library. In this example, the file is called newAudioTest.wav. Click Open after you have selected the file.



7. The dialog below will appear. Right click on the file and select the option that says Convert Selection to MP3 from the context menu.



8. During the encoding process, you will see the dialog below.



9. Once encoding has finished, locate the output mp3 file. In this example, it is placed in the c:\ drive. It may also be in your iTunes\* directory within your my Music folder.

10. After locating the file, run the file time stamp tool on it (Ex: timestamp.exe newaudiotest.mp3). This will tell you the difference between the file modified time and created time. This is how long the system took to finish encoding the file.
11. Before exiting the application and re-running this test, delete all the output files.