Software Evaluation Guide for ArcSoft MediaConverter 7 *

http://www.intel.com/performance/resources

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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
ArcSoft MediaConverter 7*

1.0 Software Description

"ArcSoft MediaConverter 7 is a powerful and easy-to-use all-in-one multimedia file converter. This utility quickly and effortlessly converts multimedia files into formats optimized for use on your mobile phone, PMP, TV, and many other popular devices. Newly added is the ability to turn your 2D photos and videos into 3D for playback on supported devices, as well as uploading to YouTube."

Source: http://www.arcsoft.com/estore/software_title.asp?ProductCode=amc7

1.1 Test Workload Description

The workload file is a 5 minute, 381 MB, 1280x720, H.264, 10660 kbps, .MOV video file which is transcoded to a smaller 1280x720, H.264, ~3Mbps, .MP4 file for uploading and publishing to YouTube.

Chapter 2

Procedure for Evaluating Performance in ArcSoft MediaConverter 7*

The following is a procedure for evaluating performance in ArcSoft MediaConverter 7.

1. Install the latest graphics drivers.

   Note: If you are using an AMD/ATI card, it is recommended to also install the Avivo Package. In the Catalyst Control Center, checkmark "Enable acceleration" under Video Converter.

2. Install ArcSoft MediaConverter 7 with default installation options.

3. Open ArcSoft MediaConverter 7.

4. When the window with the message "Would you like to know how to use MediaConverter?" appears, checkmark "Don't show this again" and press No.

5. Configure the "Hardware Accelerate" option located in the bottom-right of the window as follows:

   i. For processors with Intel® Quick Sync technology select Intel Quick Sync.

   ii. If you are testing discrete graphics capabilities, select ATI Stream for AMD/ATI cards or CUDA for Nvidia cards.

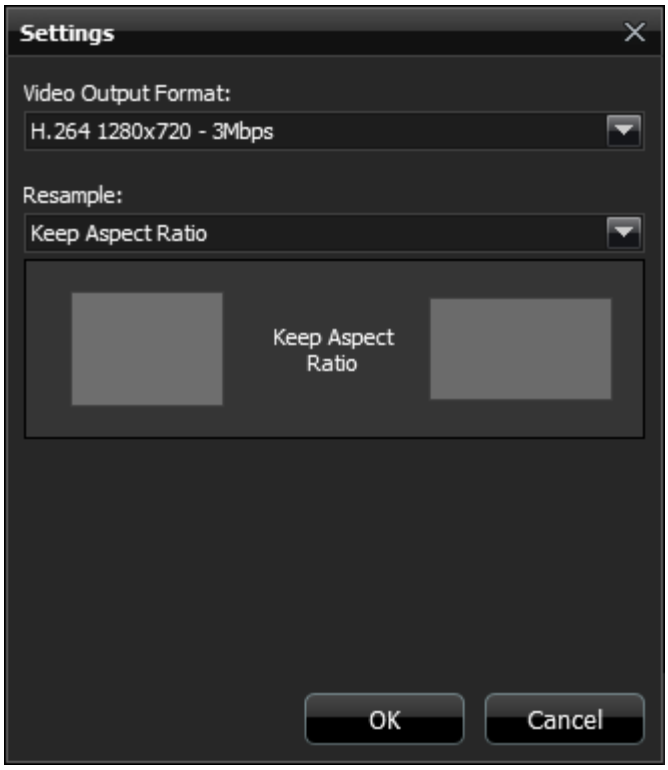
   Note: Depending on your graphics solution, some options may not be selectable. If an option is not available but should be, reinstalling the graphics driver may be the solution.

6. Drag and drop the workload file into MediaConverter.

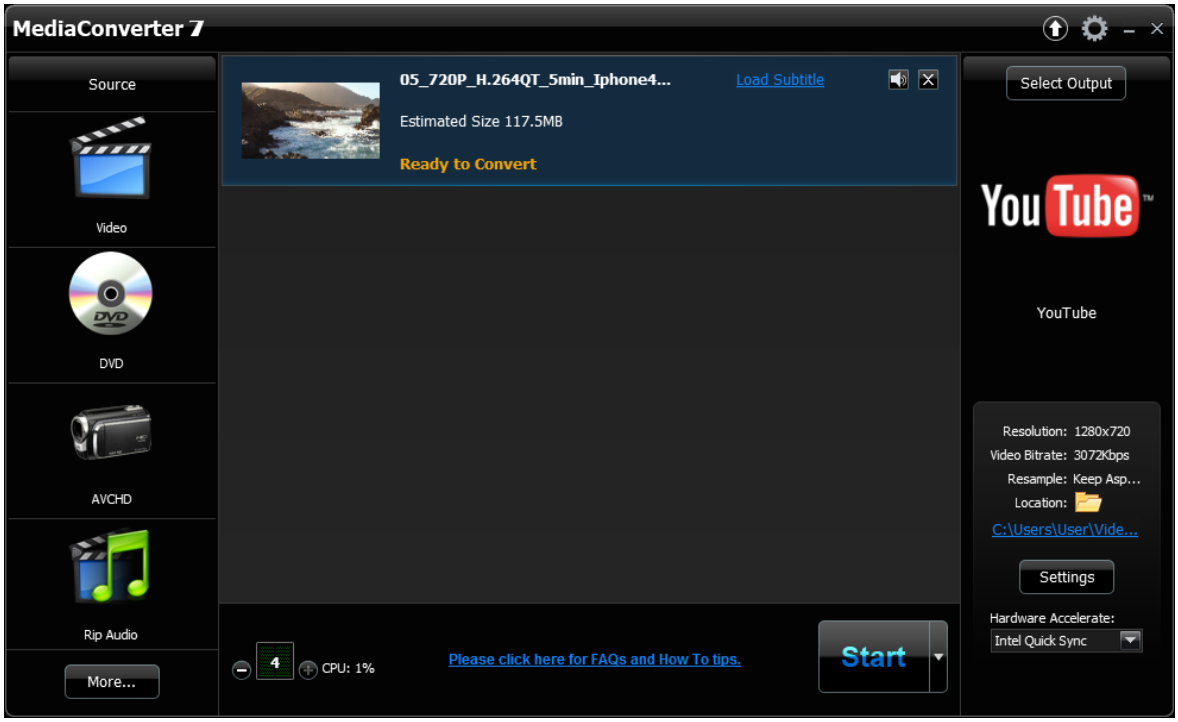
7. Click "Select Output" and choose Website from the drop-down menu.

8. Select "YouTube" and press "Done"

9. Click "Settings" in the right pane and set the video output format to H.264 1280x720 – 3Mbps as shown below then press "OK"



10. Click “Start”



11. Press “Cancel” when asked to input YouTube account info.

12. Record the "Used Time" when the task is complete. This is the elapsed time for the transcode.

13. Locate and delete the output file by clicking on the link in the right sidebar under Location

    Note: It is recommended to play the output file to make sure it is as expected.

14. Remove the workload file from MediaConverter by pressing the X next to the icon of a speaker in the top-right corner of the middle pane.

15. Repeat steps 6-14 four more times and take the median of the 5 measured run times.