



Media Transcode

Command Line Guide

Updated April 23, 2018 for use with
Servermark v1.0.433 or later

Installation

When installing the Servermark controller using a command line the following options are available.

Servermark-setup.exe [options]

Command	Description
/installpath=<install path>	Defines the install path, default is C:\Program Files (x86)\Futuremark\Servermark
/quiet /silent	Silent install, display no user interface
/force	Force install
/install	Installs the product (Default)
/uninstall	Uninstalls the product



Running the installer while using elevated permissions can cause the application to function incorrectly. Please avoid running the installer with elevated permissions until prompted.

Usage

Run the program from a command line:

```
ServermarkCmd.exe [options]
```

Options

The parameters to an option can be given either with a space in between:

```
--out myresult.servermark-result
```

or with an equal sign:

```
--out=myresult.servermark-result
```

Command	Description
<code>-d=<benchmark.smdef></code> <code>--definition=<benchmark.smdef></code>	Specifies the benchmark definition XML file that defines the tests and settings to be used. See description below on benchmark definition files.
<code>-i=<file.servermark-result></code> <code>--in=<file.servermark-result></code>	Load the given result file. To be used in conjunction with <code>--export</code> to export the result file as xml.
<code>-o=<file.servermark-result></code> <code>--out=<file.servermark-result></code>	Save the benchmark results to the given result file.
<code>--export <file></code>	Export the benchmark results to the given XML file.
<code>--log <file></code>	Save benchmark progress log to . Logging does not affect scores. If this option is not used, the last 1000 lines of logging are saved to the default location: C:\Users*username*\Documents\Servermark\Log\Servermark.log
<code>--debug-log</code>	Enable per workload debug logging. Log files for each workload run are saved to: C:\Users*username*\Documents\Servermark\Log
<code>--register=<benchmark product key></code>	Register Servermark with the given key.
<code>--list-product-keys</code>	List all Servermark product keys.
<code>--unregister</code>	Unregister all Servermark keys.

<code>--unregister=<benchmark product key></code>	Unregister given Servermark key.
<code>-h</code> <code>--help</code>	Prints the available command line options.
<code>--trace</code>	Verbose logging

Examples

These examples assume that there is a settings file `my_mediatranscode.smdef` in the default folder "C:\Program Files (x86)\Futuremark\Servermark", and that the user has write permissions to the same directory.

Run Media Transcode benchmark

Run Media Transcode benchmark with verbose logging.

```
ServermarkCmd.exe --definition=my_mediatranscode.smdef --trace
```

Definition XML files

Servermark comes with example definition files that you should modify to set up and run a benchmark. By default, these definition files can be found in:

C:\Program Files (x86)\Futuremark\Servermark

Command	Description
sm_mediatranscode.smdf	Run Media Transcode benchmark

Definition XML examples

Media Transcode example definition file

```
<?xml version="1.0" encoding="utf-8"?>
<benchmark>
  <application_info>
    <selected_workloads>
      <selected_workload name="ServermarkMediaTranscodeHighMotionDefault"/>
      <selected_workload name="ServermarkMediaTranscodeLowLightDefault"/>
      <selected_workload name="ServermarkMediaTranscodeLowMotionDefault"/>
    </selected_workloads>
  </application_info>
  <settings>
    <setting>
      <name>clients</name>
      <value>[{"host" : "mt01", "port" : "10003" }]</value>
    </setting>
    <setting>
      <name>target_format</name>
      <value>avc</value>
    </setting>
    <setting>
      <name>quality_level</name>
      <value>1</value>
    </setting>
    <setting>
      <name>qp</name>
      <value>32</value>
    </setting>
    <setting>
      <name>video_resolution</name>
      <value>[{"source_width" : 3840, "source_height" : 2160,
"target_width" : 3840, "target_height": 2160 }]</value>
    </setting>
    <setting>
      <name>methodology</name>
      <value>performance_and_quality</value>
    </setting>
  </settings>
</benchmark>
```


Media Transcode definition file settings

clients	This is a list of Servermark clients. You can use IPv4, IPv6 and hostnames to specify a client. { "host" : "mt01", "port" : "10003" } - A Servermark client
target_format	avc - Advanced Video Coding hevc - High Efficiency Video Coding
quality_level	1 - best speed 3 - best quality
qp	0 to 51, the range accepted as Quantization parameter
video_resolution	[{ "source_width" : 3840, "source_height" : 2160, "target_width" : 3840, "target_height": 2160 }] - Ultra HD (2160p) to Ultra HD (2160p) [{"source_width" : 3840, "source_height" : 2160, "target_width" : 1920, "target_height": 1080}] - Ultra HD (2160p) to Full HD (1080p) [{"source_width" : 1920, "source_height" : 1080, "target_width" : 1920, "target_height": 1080}] - Full HD (1080p) to Full HD (1080p)
methodology	performance_and_quality - detect maximum number of output streams (performance) and calculate PSNR (quality) quality - calculate PSNR (quality)