Windows PowerShell Get-Help on Cmdlet 'Export-Counter'

PS:\>Get-HELP Export-Counter -Full

NAME

   Export-Counter

SYNOPSIS

   Exports performance counter data to log files.

SYNTAX

   Export-Counter [-Path] <System.String> [-Circular] [-FileFormat <System.String>] [-Force] -InputObject

      <Microsoft.PowerShell.Commands.GetCounter.PerformanceCounterSampleSet[]>   [-MaxSize   <System.UInt32>]

[<CommonParameters>]

DESCRIPTION

   The `Export-Counter` cmdlet exports performance counter data (PerformanceCounterSampleSet objects) to log files in

binary performance log (`.blg`), comma-separated

   value (`.csv`), or tab-separated value (`.tsv`) format. You use this cmdlet to log performance counter data.

   The `Export-Counter` cmdlet is designed to export data that is returned by the `Get-Counter` and `Import-Counter`

cmdlets.

This cmdlet runs only on Windows 7, Windows Server 2008 R2, and later versions of Windows.

PARAMETERS

  -Circular <System.Management.Automation.SwitchParameter>

    Indicates that the output file is a circular log with first in, first out (FIFO) format. When you include this parameter, the MaxSize parameter is required.

      Required?   false

      Position?   named

      Default value   False

      Accept pipeline input?   False

      Accept wildcard characters? false

  -FileFormat <System.String>

    Specifies the output format of the output log file.

    The acceptable values for this parameter are:

    - `CSV`

    - `TSV`

    - `BLG`

    The default value is `BLG`.

      Required?   false

      Position?   named

      Default value   None

Accept pipeline input?   False

Accept wildcard characters? false

-Force <System.Management.Automation.SwitchParameter>

Overwrites and replaces an existing file if one exists in the location specified by the Path parameter.

Required?   false

Position?   named

Default value   False

Accept pipeline input?   False

Accept wildcard characters? false

-InputObject <Microsoft.PowerShell.Commands.GetCounter.PerformanceCounterSampleSet[]>

Specifies, as an array, the counter data to export. Enter a variable that contains the data or a command that gets the data, such as the `Get-Counter` or

`Import-Counter` cmdlet.

Required?   true

Position?   named

Default value   None

Accept pipeline input?   True (ByPropertyName, ByValue)

Accept wildcard characters? false

-MaxSize <System.UInt32>

Specifies the maximum size of the output file in megabytes (MB).

If the Circular parameter is specified, then when the log file reaches the specified maximum size, the oldest entries are deleted as newer ones are added. If the

Circular parameter is not specified, then when the log file reaches the specified maximum size, no new data is added and the cmdlet generates a non-terminating

error.

Required?   false

Position?   named

Default value   None

Accept pipeline input?   False

Accept wildcard characters? false

  -Path <System.String>

    Specifies the path and file name of the output file. Enter a relative or absolute path on the local computer, or a Uniform

Naming Convention (UNC) path to a

    remote computer, such as `\Computer\Share\file.blg`. This parameter is required.

    The file format is determined by the value of the FileFormat parameter, not by the file name extension in the path.

    Required?   true

    Position?   1

    Default value   None

    Accept pipeline input?   True (ByPropertyName)

    Accept wildcard characters? false

  <CommonParameters>

    This cmdlet supports the common parameters: Verbose, Debug,

    ErrorAction, ErrorVariable, WarningAction, WarningVariable,

    OutBuffer, PipelineVariable, and OutVariable. For more information, see

    about_CommonParameters (https:/go.microsoft.com/fwlink/?LinkID=113216).

INPUTS

  Microsoft.PowerShell.Commands.GetCounter.PerformanceCounterSampleSet

    You can pipe performance counter data from `Get-Counter` or `Import-Counter` to this cmdlet.

OUTPUTS

  None

NOTES

The log file generator expects that all input objects have the same counter path and that the objects are arranged in ascending time order.

The counter type and path of the first input object determines the properties recorded in the log file. If other input objects do not have a value for a recorded
property, the property field is empty. If the objects have property values that were not recorded, the extra property values are ignored.

Performance Monitor might not be able to read all logs that `Export-Counter` generates. For instance, Performance Monitor requires that all objects have the same
path and that all objects are separated by the same time interval.

The `Import-Counter` cmdlet does not have a ComputerName parameter. However, if the computer is configured for remote Windows PowerShell Windows PowerShell, you
can use the `Invoke-Command` cmdlet to run an `Import-Counter` command on a remote computer.

----------- EXAMPLE 1: Export counter data to a file -----------

Get-Counter "\Processor(*)\% Processor Time" | Export-Counter -Path $HOME\Counters.blg

The command uses the `Get-Counter` cmdlet to collect processor time data. It uses a pipeline operator (`|`) to send the data to the `Export-Counter` cmdlet. The
`Export-Counter` command uses the Path variable to specify the output file.

Because the data set might be very large, this example sends the data to `Export-Counter` through the pipeline. If the data were saved in a variable, you might use a
disproportionate amount of memory.

------ Example 2: Export a file to a counter file format ------

$1GBInMB = 1024 # 1GB = 1024MB

Import-Counter Threads.csv | Export-Counter -Path ThreadTest.blg -Circular -MaxSize $1GBInMB

Example 3: Get counter data from a remote computer and save the data to a file

    $C = Get-Counter -ComputerName Server01 -Counter "\Process(*)\Working Set - Private" -MaxSamples $C |
Export-Counter -Path \\Server01\Perf\WorkingSet.blg

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--------------- Example 4: Re-log existing data ---------------

$All = Import-Counter DiskSpace.blg

$LowSpace = $All | Where-Object {$_.CounterSamples.CookedValue -lt 15}

$LowSpace | Export-Counter -Path LowDiskSpace.blg

RELATED LINKS

    Get-Counter
    Import-Counter