



python



PowerShell

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PowerShell Get-Help on command 'Measure-Command'

PS C:\Users\wahid> Get-Help Measure-Command

NAME

Measure-Command

SYNOPSIS

Measures the time it takes to run script blocks and cmdlets.

SYNTAX

Measure-Command [-Expression] <System.Management.Automation.ScriptBlock>
[-InputObject <System.Management.Automation.PSObject>] [<CommonParameters>]

DESCRIPTION

The `Measure-Command` cmdlet runs a script block or cmdlet internally, times the execution of the operation, and returns the execution time.

> [!NOTE] > Script blocks run by `Measure-Command` run in the current scope, not a child scope.

PARAMETERS

-Expression <System.Management.Automation.ScriptBlock>

Specifies the expression that is being timed. Enclose the expression in braces (`{}`).

-InputObject <System.Management.Automation.PSObject>

Objects bound to the InputObject parameter are optional input for the script block passed to the Expression parameter. Inside the script block, `\$_` can be used to reference the current object in the pipeline.

<CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, see [about_CommonParameters \(https://go.microsoft.com/fwlink/?LinkID=113216\)](https://go.microsoft.com/fwlink/?LinkID=113216).

----- Example 1: Measure a command -----

```
Measure-Command { Get-EventLog "windows powershell" }
```

----- Example 2: Compare two outputs from Measure-Command -----

```
Measure-Command { Get-ChildItem -Path C:\Windows\*.txt -Recurse }
```

```
Days           : 0
Hours          : 0
Minutes        : 0
Seconds        : 8
Milliseconds   : 618
Ticks          : 86182763
TotalDays      : 9.9748568287037E-05
TotalHours     : 0.00239396563888889
TotalMinutes   : 0.143637938333333
```

TotalSeconds : 8.6182763

TotalMilliseconds : 8618.2763

Measure-Command {Get-ChildItem C:\Windows -Filter "*.txt" -Recurse}

Days : 0

Hours : 0

Minutes : 0

Seconds : 1

Milliseconds : 140

Ticks : 11409189

TotalDays : 1.32050798611111E-05

TotalHours : 0.000316921916666667

TotalMinutes : 0.019015315

TotalSeconds : 1.1409189

TotalMilliseconds : 1140.9189

----- Example 3: Piping input to Measure-Command -----

Perform a simple operation to demonstrate the InputObject parameter

Note that no output is displayed.

10, 20, 50 | Measure-Command -Expression { for (\$i=0; \$i -lt \$_; \$i++) {\$i} }

Days : 0

Hours : 0

Minutes : 0

Seconds : 0

Milliseconds : 12

Ticks : 122672

TotalDays : 1.41981481481481E-07

TotalHours : 3.40755555555556E-06

TotalMinutes : 0.000204453333333333

TotalSeconds : 0.0122672

TotalMilliseconds : 12.2672

----- Example 4: Displaying output of measured command -----

Perform the same operation as above adding Out-Default to every execution.

This will show that the ScriptBlock is in fact executing for every item.

10, 20, 50 | Measure-Command -Expression {for (\$i=0; \$i -lt \$_; \$i++) {\$i};

"\${\$_}" | Out-Default }

10

20

50

Days : 0

Hours : 0

Minutes : 0

Seconds : 0

Milliseconds : 11

Ticks : 113745

TotalDays : 1.31649305555556E-07

TotalHours : 3.15958333333333E-06

TotalMinutes : 0.000189575

TotalSeconds : 0.0113745

TotalMilliseconds : 11.3745

----- Example 5: Measuring execution in a child scope -----

\$foo = 'Value 1'

\$null = Measure-Command { \$foo = 'Value 2' }

\$foo

```
$null = Measure-Command { & { $foo = 'Value 3' } }
```

\$foo

Value 2

Value 2

For more information about the invocation operator, see [about_Operators](#) ([../Microsoft.PowerShell.Core/About/about_Operators.md#call-operator-](#)).

REMARKS

To see the examples, type: "get-help Measure-Command -examples".

For more information, type: "get-help Measure-Command -detailed".

For technical information, type: "get-help Measure-Command -full".

For online help, type: "get-help Measure-Command -online"