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PowerShell Get-Help on command 'Measure-Object'

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

NAME

Measure-Object

SYNOPSIS

Calculates the numeric properties of objects, and the characters, words, and lines in string objects, such as files of text.

SYNTAX

Measure-Object [[-Property] <System.String[]>] [-Average] [-InputObject <System.Management.Automation.PSObject>] [-Maximum] [-Minimum] [-Sum] [<CommonParameters>]

Measure-Object [[-Property] <System.String[]>] [-Character] [-IgnoreWhiteSpace] [-InputObject <System.Management.Automation.PSObject>] [-Line] [-Word] [<CommonParameters>]

DESCRIPTION

The `Measure-Object` cmdlet calculates the property values of certain types of object. `Measure-Object` performs three types of measurements, depending on

the parameters in the command.

The `Measure-Object` cmdlet performs calculations on the property values of objects. You can use `Measure-Object` to count objects or count objects with a specified Property . You can also use `Measure-Object` to calculate the Minimum , Maximum , Sum , StandardDeviation and Average of numeric values. For String objects, you can also use `Measure-Object` to count the number of lines, words, and characters.

PARAMETERS

-Average <System.Management.Automation.SwitchParameter>
Indicates that the cmdlet displays the average value of the specified properties.

-Character <System.Management.Automation.SwitchParameter>
Indicates that the cmdlet counts the number of characters in the input objects.

> [!NOTE] > The Word , Char and Line switches count inside each input object, as well as across > input objects. See Example 7.

-IgnoreWhiteSpace <System.Management.Automation.SwitchParameter>
Indicates that the cmdlet ignores white space in character counts. By default, white space is not ignored.

-InputObject <System.Management.Automation.PSObject>
Specifies the objects to be measured. Enter a variable that contains the objects, or type a command or expression that gets the objects.

When you use the InputObject parameter with `Measure-Object`, instead of piping command results to `Measure-Object`, the InputObject value is treated as a single object.

It is recommended that you use `Measure-Object` in the pipeline if you want to measure a collection of objects based on whether the objects have specific values in defined properties.

-Line <System.Management.Automation.SwitchParameter>
Indicates that the cmdlet counts the number of lines in the input objects.

> [!NOTE] > The Word , Char and Line switches count inside each input object, as well as across > input objects. See Example 7.

-Maximum <System.Management.Automation.SwitchParameter>
Indicates that the cmdlet displays the maximum value of the specified properties.

-Minimum <System.Management.Automation.SwitchParameter>
Indicates that the cmdlet displays the minimum value of the specified properties.

-Property <System.String[]>
Specifies one or more properties to measure. If you do not specify any other measures, `Measure-Object` counts the objects that have the properties you specify.

-Sum <System.Management.Automation.SwitchParameter>
Indicates that the cmdlet displays the sum of the values of the specified properties.

-Word <System.Management.Automation.SwitchParameter>
Indicates that the cmdlet counts the number of words in the input objects.

> [!NOTE] > The Word , Char and Line switches count inside each input object, as well as across > input objects. See Example 7.

<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).

---- Example 1: Count the files and folders in a directory ----

Get-ChildItem | Measure-Object

--------- Example 2: Measure the files in a directory ---------

Get-ChildItem | Measure-Object -Property length -Minimum -Maximum -Sum -Average

---------- Example 3: Measure text in a text file ----------

"One", "Two", "Three", "Four" | Set-Content -Path C:\Temp\tmp.txt
Get-Content C:\Temp\tmp.txt | Measure-Object -Character -Line -Word

Lines Words Characters Property
----- ----- ---------- --------
    4   4   15

-- Example 4: Measure objects containing a specified Property --

$services = Get-Service
$processes = Get-Process
$services + $processes | Measure-Object
$services + $processes | Measure-Object -Property DisplayName

Count : 682

Average :

Sum :

Maximum :

Minimum :

Property :

Count : 290

Average :

Sum :

Maximum :

Minimum :

Property : DisplayName

-------- Example 5: Measure the contents of a CSV file --------

Import-Csv d:\test\serviceyrs.csv | Measure-Object -Property years -Minimum
-Maximum -Average

---------- Example 6: Measure Boolean values ----------

Get-ChildItem | Measure-Object -Property psiscontainer -Maximum -Sum -Minimum
-Average

Count : 126

Average : 0.0634920634920635

Sum : 8

Maximum : 1

Minimum : 0

StandardDeviation :

Property : PSIsContainer

---------- Example 7: Measure strings ----------

The newline character `n separates the string into separate lines, as shown
in the output.
"One`nTwo`nThree"
"One`nTwo`nThree" | Measure-Object -Line

One
Two
Three

Lines Words Characters Property
----- ----- ---------- --------
    3

The first string counts as a single line.
The second string is separated into two lines by the newline character.
"One", "Two`nThree" | Measure-Object -Line

Lines Words Characters Property
----- ----- ---------- --------
    3

The Word switch counts the number of words in each InputObject
Each InputObject is treated as a single line.
"One, Two", "Three", "Four Five" | Measure-Object -Word -Line

Lines Words Characters Property
----- ----- ---------- --------

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REMARKS

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

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

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

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