

-ThrottleLimit

Limit the number of script blocks running in parallel at a time, default = 5. PowerShell 7.0+

Standard Aliases for Foreach-Object: the '%' symbol, ForEach

For operations in the pipeline, the ForEach alias will take precedence over the ForEach statement.

For operations <u>not</u> in the pipeline the ForEach statement will take precedence.

For the fastest performance: use the ForEach statement (or method) when the collection of objects is small enough that it can be loaded into memory. (eg an array of 20 string values)

Use the ForEach-Object cmdlet when you want to pass only one object at a time through the pipeline, minimising memory usage. (e.g. a directory containing 10,000 files)

## **Examples**

Retrieve the files (and folders) from the C: drive and display the size of each:

```
PS C:> Get-ChildItem C:\ | ForEach-Object -process { $_.length / 1024 }
```

(The \$\_ variable holds a reference to the current item being processed.)

Retrieve the 500 most recent events from the system event log and store them in the \$events variable:

```
PS C:> $events = Get-Eventlog -logname system -newest 500
```

Then pipe the \$events variable into the ForEach-Object cmdlet.

```
$events | ForEach-Object -begin {
   Get-Date
} -process {
   Out-File -filepath event_log.txt -append -inputobject $_.message
} -end {
   Get-Date
}
```

In this example, the -Process parameter uses Out-File to create a text file and stores the .message property of each event. The -Begin and -End parameters are used to display the date/time before and after the -process command is run.

"The best way to have a good idea is to have a lot of ideas" ~ Linus Pauling

## **Related PowerShell Cmdlets**

ForEach statement.

ForEach (method) - Loop through items in a collection

Compare-Object C Group-Object - Gro Invoke-Parallel - via Measure-Object - I New-Object - Crea

Select-Object - Se Sort-Object - Sort

Tee-Object - Send

Where-Object - Fil

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