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GET-CACHEMEMORY

22/10/2018 by STEPHANOS - LEAVE A COMMENT

Description

Get-CacheMemory will provide you the information of internal and external cache memory on a computer system.

Note: You need to install SysInfo module in order for this cmdlet to be available. For more information, see PowerShell Module SysInfo.

Syntax:

```
Get-CacheMemory
    [[-ComputerName] <String[]>]
    [[-Protocol] <String>]
    [[-Properties] <String[]>]
```

Requirements

• SysInfo PowerShell Module

[<CommonParameters>]

• WinRM Enabled and PowerShell 3.0 (only if you use WinRM protocol)

If you want to find more about the specific cmdlet while you are in PowerShell you can use the below to get the help file.

Code:

Get-Help Get-CacheMemory

Output:

```
PS C:\Windows> Get-Help Get-CacheMemory

NAME
Get-CacheMemory

SYNOPSIS
Gets the internal and external cache memory on a computer system.

SYNTAX
Get-CacheMemory [[-ComputerName] <String[]>] [[-Protocol] <String>] [[-Properties] <String[]>] [<CommonParameters>]

DESCRIPTION
Gets the internal and external cache memory on a computer system and converts all codes in results into human readable format.

RELATED LINKS
https://www.sconstantinou.com/get-cachememory

REMARKS
To see the examples, type: "get-help Get-CacheMemory -examples".
For more information, type: "get-help Get-CacheMemory -detailed".
For technical information, type: "get-help Get-CacheMemory -full".
For online help, type: "get-help Get-CacheMemory -full".
```

Now lets see few examples about **Get-CacheMemory**.

[adinserter name="In Article"]

Examples

Example 1

This command gets the information from local system.

PS C:\> Get-CacheMemory

BlockSize : 1024

CacheSpeed :

CacheType : Unified

DeviceID : Cache Memory 0

InstalledSize : 1024

Level : Secondary

SystemName : LOCALPC

BlockSize : 1024

CacheSpeed :

CacheType : Data

DeviceID : Cache Memory 1

InstalledSize : 256

Level : Primary

MaxCacheSize : 256 NumberOfBlocks : 256 Status : OK

SystemName : LOCALPC

BlockSize : 1024

CacheSpeed :

CacheType : Unified

DeviceID : Cache Memory 2

InstalledSize : 6144

Level : Tertiary

MaxCacheSize : 6144

NumberOfBlocks: 6144

Status : OK

SystemName : LOCALPC

Example 2

This command gets the information from Server1.

PS C:\> Get-CacheMemory -ComputerName Server1

BlockSize : 1024

CacheSneed .

Level : Primary

MaxCacheSize : 64 NumberOfBlocks : 64

Status : OK

SystemName : Server1

BlockSize : 1024

CacheSpeed :

CacheType : Unified

DeviceID : Cache Memory 1

InstalledSize : 256

Level : Secondary

MaxCacheSize : 256 NumberOfBlocks : 256

Status : OK

SystemName : Server1

BlockSize : 65536

CacheSpeed :

CacheType : Unified

DeviceID : Cache Memory 2

InstalledSize : 46080

Level : Tertiary

MaxCacheSize : 46080

NumberOfBlocks : 720

Status : OK

SystemName : Server1

BlockSize : 1024

CacheSpeed :

CacheType : Instruction

DeviceID : Cache Memory 3

Status : OK

SystemName : Server1

BlockSize : 1024

CacheSpeed :

CacheType : Unified

DeviceID : Cache Memory 4

InstalledSize : 256

Level : Secondary

MaxCacheSize : 256 NumberOfBlocks : 256

Status : OK

SystemName : Server1

BlockSize : 65536

CacheSpeed :

CacheType : Unified

DeviceID : Cache Memory 5

InstalledSize : 46080

Level : Tertiary

MaxCacheSize : 46080

NumberOfBlocks : 720

Status : OK

SystemName : Server1

Example 3

This command gets the information from remote system with IP 192.168.0.5.

PS C:\> Get-CacheMemory -ComputerName "192.168.0.5"

RlockSize • 102/

InstalledSize : 64

Level : Primary

MaxCacheSize : 64
NumberOfBlocks : 64
Status : OK

SystemName : Server1

BlockSize : 1024

CacheSpeed :

CacheType : Unified

DeviceID : Cache Memory 1

InstalledSize : 256

Level : Secondary

MaxCacheSize : 256 NumberOfBlocks : 256 Status : OK

SystemName : Server1

BlockSize : 65536

CacheSpeed :

CacheType : Unified

DeviceID : Cache Memory 2

InstalledSize : 46080

Level : Tertiary

MaxCacheSize : 46080

NumberOfBlocks: 720

Status : OK

SystemName : Server1

BlockSize : 1024

CacheSpeed :

CacheType : Instruction

NumberOfBlocks: 64 Status: OK

SystemName : Server1

BlockSize : 1024

CacheSpeed :

CacheType : Unified

DeviceID : Cache Memory 4

InstalledSize : 256

Level : Secondary

MaxCacheSize : 256 NumberOfBlocks : 256 Status : OK

SystemName : Server1

BlockSize : 65536

CacheSpeed :

CacheType : Unified

DeviceID : Cache Memory 5

InstalledSize : 46080

Level : Tertiary

MaxCacheSize : 46080

NumberOfBlocks: 720

Status : OK

SystemName : Server1

Example 4

This command gets the information from Server1, Server2 and Server3.

PS C:\> Get-CacheMemory -ComputerName Server1, Server2, Server3

1024	Instruction	cacne	memory	Ø	64	
1024	Instruction	Cache	Memory	0	64	
1024	Unified	Cache	Memory	1	256	
65536	Unified	Cache	Memory	2	46080	•
1024	Instruction	Cache	Memory	3	64	
1024	Unified	Cache	Memory	4	256	
65536	Unified	Cache	Memory	5	46080	٠
1024	Unified	Cache	Memory	1	256	
65536	Unified	Cache	Memory	2	46080	٠
1024	Instruction	Cache	Memory	3	64	
1024	Unified	Cache	Memory	4	256	
65536	Unified	Cache	Memory	5	46080	٠
1024	Unified	Cache	Memory	1	256	
65536	Unified	Cache	Memory	2	46080	٠
1024	Instruction	Cache	Memory	3	64	
1024	Unified	Cache	Memory	4	256	
65536	Unified	Cache	Memory	5	46080	٠
4)	>

Example 5

This command gets the information from Server1 and will output only Name and Status Properties.

PS C:\> Get-CacheMemory -ComputerName Server1 -Properties Name

Name	Status	
Cache	Memory	OK
Cache	Memorv	OK

This command gets the information from Server1 and will output all properties.

PS C:\> Get-CacheMemory -ComputerName Server1 -Properties *

Caption : Cache Memory

Description : Cache Memory

InstallDate :

Name : Cache Memory

Status : OK

Availability : Running or Full Power

ConfigManagerErrorCode :

ConfigManagerUserConfig :

DeviceID : Cache Memory 0

ErrorCleared :

ErrorDescription :

LastErrorCode :

PowerManagementCapabilities :

PowerManagementSupported :

StatusInfo : Enabled

SystemName : Server1

Access :

BlockSize : 1024

ErrorMethodology :

NumberOfBlocks : 64

Purpose : L1-Cache

AdditionalErrorData :

CorrectableError :

EndingAddress :

ErrorAccess :

ErrorAddress :

ErrorData

ErrorTransferSize :

OtherErrorDescription :

StartingAddress :

SystemLevelAddress :

Associativity : 8-way Set-Associative

CacheType : Instruction

FlushTimer :

Level : Primary

LineSize :
ReadPolicy :
ReplacementPolicy :

WritePolicy : Write Back

CacheSpeed :

CurrentSRAM : Synchronous

ErrorCorrectType : Single-bit ECC

InstalledSize : 64

Location :

MaxCacheSize : 64

SupportedSRAM : Synchronous

BlockSizeKB : 1

InstalledSizeMB : 0.06
MaxCacheSizeMB : 0.06

Caption : Cache Memory
Description : Cache Memory

InstallDate :

Name : Cache Memory

Status : OK

Availability : Running or Full Power

ConfigManagerErrorCode
ConfigManagerUserConfig

DeviceID : Cache Memory 1

PowerManagementSupported :

StatusInfo : Enabled
SystemName : Server1

Access

BlockSize : 1024

ErrorMethodology :

NumberOfBlocks : 256

Purpose : L2-Cache

AdditionalErrorData :

CorrectableError :

EndingAddress :

ErrorAccess :

ErrorAddress :

ErrorData :

ErrorDataOrder :

ErrorInfo :

ErrorResolution :

ErrorTime :

ErrorTransferSize :

OtherErrorDescription :

StartingAddress :

SystemLevelAddress :

Associativity : 8-way Set-Associative

CacheType : Unified

FlushTimer :

Level : Secondary

LineSize :

ReadPolicy :

ReplacementPolicy :

WritePolicy : Varies with Address

CacheSpeed :

CurrentSRAM : Synchronous

SupportedSRAM : Synchronous

BlockSizeKB : 1

InstalledSizeMB : 0.25
MaxCacheSizeMB : 0.25

Caption : Cache Memory
Description : Cache Memory

InstallDate :

Name : Cache Memory

Status : OK

Availability : Running or Full Power

ConfigManagerErrorCode :

ConfigManagerUserConfig

DeviceID : Cache Memory 2

ErrorCleared :
ErrorDescription :
LastErrorCode :

PowerManagementCapabilities :

PowerManagementSupported :

StatusInfo : Enabled

SystemName : Server1

Access :

BlockSize : 65536

ErrorMethodology :

NumberOfBlocks : 720

Purpose : L3-Cache

AdditionalErrorData :

CorrectableError :

EndingAddress :

ErrorAccess :

ErrorAddress :

ErrorData

ErrorTransferSize :

OtherErrorDescription :

StartingAddress :

SystemLevelAddress :

Associativity : Fully Associative

CacheType : Unified

FlushTimer :

Level : Tertiary

LineSize :
ReadPolicy :
ReplacementPolicy :

WritePolicy : Varies with Address

CacheSpeed :

CurrentSRAM : Synchronous

ErrorCorrectType : Single-bit ECC

InstalledSize : 46080

Location :

MaxCacheSize : 46080

SupportedSRAM : Synchronous

BlockSizeKB : 64
InstalledSizeMB : 45
MaxCacheSizeMB : 45

Caption : Cache Memory
Description : Cache Memory

InstallDate:

Name : Cache Memory

Status : OK

Availability : Running or Full Power

ConfigManagerErrorCode :
ConfigManagerUserConfig :

DeviceID : Cache Memory 3

PowerManagementSupported :

StatusInfo : Enabled
SystemName : Server1

Access :

BlockSize : 1024

ErrorMethodology :

NumberOfBlocks : 64

Purpose : L1-Cache

AdditionalErrorData :

CorrectableError :

EndingAddress :

ErrorAccess :

ErrorAddress :

ErrorData :

ErrorDataOrder :

ErrorInfo :

ErrorResolution :

ErrorTime :

ErrorTransferSize :

OtherErrorDescription :

StartingAddress :

SystemLevelAddress :

Associativity : 8-way Set-Associative

CacheType : Instruction

FlushTimer :

Level : Primary

LineSize :

ReadPolicy :

ReplacementPolicy :

WritePolicy : Write Back

CacheSpeed :

CurrentSRAM : Synchronous

SupportedSRAM : Synchronous

BlockSizeKB : 1

InstalledSizeMB : 0.06

MaxCacheSizeMB : 0.06

Caption : Cache Memory

Description : Cache Memory

InstallDate :

Name : Cache Memory

Status : OK

Availability : Running or Full Power

ConfigManagerErrorCode :

ConfigManagerUserConfig :

DeviceID : Cache Memory 4

ErrorCleared :
ErrorDescription :

LastErrorCode :

PowerManagementCapabilities :

PowerManagementSupported :

StatusInfo : Enabled

SystemName : Server1

Access :

BlockSize : 1024

ErrorMethodology :

NumberOfBlocks : 256

Purpose : L2-Cache

AdditionalErrorData :

CorrectableError :

EndingAddress :

ErrorAccess :

ErrorAddress :

ErrorData :

ErrorTransferSize :

OtherErrorDescription :

StartingAddress :

SystemLevelAddress :

Associativity : 8-way Set-Associative

CacheType : Unified

FlushTimer :

Level : Secondary

LineSize :
ReadPolicy :
ReplacementPolicy :

WritePolicy : Varies with Address

CacheSpeed :

CurrentSRAM : Synchronous

ErrorCorrectType : Single-bit ECC

InstalledSize : 256

Location :

MaxCacheSize : 256

SupportedSRAM : Synchronous

BlockSizeKB : 1

InstalledSizeMB : 0.25
MaxCacheSizeMB : 0.25

Caption : Cache Memory
Description : Cache Memory

InstallDate :

Name : Cache Memory

Status : OK

Availability : Running or Full Power

ConfigManagerErrorCode :
ConfigManagerUserConfig :

DeviceID : Cache Memory 5

PowerManagementSupported :

StatusInfo : Enabled
SystemName : Server1

Access

BlockSize : 65536

ErrorMethodology :

NumberOfBlocks : 720

Purpose : L3-Cache

AdditionalErrorData :

CorrectableError :

EndingAddress :

ErrorAccess :

ErrorAddress :

ErrorData :

ErrorDataOrder :

ErrorInfo :

ErrorResolution :

ErrorTime :

ErrorTransferSize :

OtherErrorDescription :

StartingAddress :

SystemLevelAddress :

Associativity : Fully Associative

CacheType : Unified

FlushTimer :

Level : Tertiary

LineSize :

ReadPolicy :

ReplacementPolicy :

WritePolicy : Varies with Address

CacheSpeed :

CurrentSRAM : Synchronous

SupportedSRAM : Synchronous

BlockSizeKB : 64
InstalledSizeMB : 45
MaxCacheSizeMB : 45

Example 7

This command gets the information from Server1.

PS C:\> "Server1" | Get-CacheMemory

BlockSize : 1024

CacheSpeed :

CacheType : Instruction

DeviceID : Cache Memory 0

InstalledSize : 64

Level : Primary

MaxCacheSize : 64
NumberOfBlocks : 64
Status : OK

SystemName : Server1

BlockSize : 1024

CacheSpeed :

CacheType : Unified

DeviceID : Cache Memory 1

InstalledSize : 256

Level : Secondary

MaxCacheSize : 256 NumberOfBlocks : 256 Status : OK

SuctamNama · Sanuar1

CacheType : Unified

DeviceID : Cache Memory 2

InstalledSize : 46080

Level : Tertiary

MaxCacheSize : 46080

NumberOfBlocks : 720

Status : OK

SystemName : Server1

BlockSize : 1024

CacheSpeed :

CacheType : Instruction

DeviceID : Cache Memory 3

InstalledSize : 64

Level : Primary

MaxCacheSize : 64 NumberOfBlocks : 64

Status : OK

SystemName : Server1

BlockSize : 1024

CacheSpeed :

CacheType : Unified

DeviceID : Cache Memory 4

InstalledSize : 256

Level : Secondary

MaxCacheSize : 256

NumberOfBlocks: 256

Status : OK

SystemName : Server1

BlockSize : 65536

Level : Tertiary

MaxCacheSize : 46080

NumberOfBlocks: 720

Status : OK

SystemName : Server1

Example 8

This command gets the information from Server1 using DCOM protocol.

PS C:\> Get-CacheMemory -ComputerName Server1 -Protocol DCOM

BlockSize : 1024

CacheSpeed :

CacheType : Instruction

DeviceID : Cache Memory 0

InstalledSize : 64

Level : Primary

MaxCacheSize : 64
NumberOfBlocks : 64
Status : OK

SystemName : Server1

BlockSize : 1024

CacheSpeed :

CacheType : Unified

DeviceID : Cache Memory 1

InstalledSize : 256

Level : Secondary

MaxCacheSize : 256
NumberOfBlocks : 256

CacheSpeed :

CacheType : Unified

DeviceID : Cache Memory 2

InstalledSize : 46080

Level : Tertiary

MaxCacheSize : 46080

NumberOfBlocks : 720

Status : OK

SystemName : Server1

BlockSize : 1024

CacheSpeed :

CacheType : Instruction

DeviceID : Cache Memory 3

InstalledSize : 64

Level : Primary

MaxCacheSize : 64 NumberOfBlocks : 64

Status : OK

SystemName : Server1

BlockSize : 1024

CacheSpeed :

CacheType : Unified

DeviceID : Cache Memory 4

InstalledSize : 256

Level : Secondary

MaxCacheSize : 256 NumberOfBlocks : 256

Status : OK

SystemName : Server1

InstalledSize : 46080

Level : Tertiary

MaxCacheSize : 46080

NumberOfBlocks : 720

Status : OK

SystemName : Server1

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Optional Parameters

• -ComputerName

- Description: Specifies the computer names or IP Addresses of the systems that we want to get the information from.
- Required: False
- Position: 1
- Default value: None
- Accept pipeline input: True (ByValue)
- Accept wildcard characters: False

• -Protocol

- Description: Specifies the protocol that will be used to get the information from the remote system.
- Accepted Values: DCOM or WinRM
- Required: False
- Position: 2
- Default value: None
- Accept pipeline input: False
- Accept wildcard characters: False

-Properties

- Description: Specifies the object properties that appear in the display and the order in which they appear. Wildcards are permitted.
- Required: False
- Position: 3

Inputs

System.Array.

Get-CacheMemory can accept a string value to determine the ComputerName parameter.

Outputs

System.Object.

Get-CacheMemory returns an object containing all the information that has been retrieved.

[adinserter name="In Article"]

Related Links

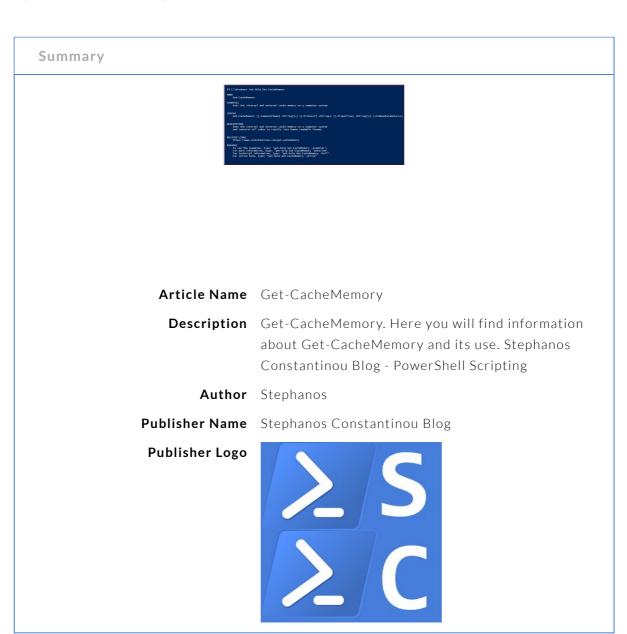
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• PowerShell Module SysInfo

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