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Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

It is 04:08 AM on Thursday.
Welcome to planet ROG-G35DX Overlord mmong

Manufacturer       : AuthenticAMD
Name               : AMD Ryzen 7 5800X 8-Core Processor
Version           : Model 1, Stepping 0
CurrentClockSpeed : 3801
MaxClockSpeed     : 3801
NumberOfCores     : 8

Manufacturer :
SerialNumber : WD-WCC4N5FS2LXA
FirmwareVersion : 82.00A82
size : 3000592982016

Manufacturer : NVMe
SerialNumber : 0000_0000_0000_0001_00A0_7520_29AF_D8A5
FirmwareVersion : P6MA001
size : 1024209543168

Manufacturer :
SerialNumber : 5VD3B6LM
FirmwareVersion : CC98
size : 2000398934016

Loading personal and system profiles took 1860ms.
PS C:\Users\mmong> systemInformationScript
Your computer's current system configuration report is below:
System Hardware Description:

Domain                : WORKGROUP
Manufacturer          : ASUS/TEK COMPUTER INC.
Model                 : ROG Strix GA35DX_G35DX
Name                  : ROG-G35DX
PrimaryOwnerName      : mmonga@outlook.com
TotalPhysicalMemory   : 34271006720

Operating System Name and Version:

Operating System Name : Microsoft Windows 11 Home[C:\Windows\Device\Harddisk0\Partition3]
Version (Build) Number : 22H2

Processor Description, Speed, Cores, Cache sizes:

Description           : AMD64 Family 25 Model 33 Stepping 0
Speed(GHz)            : 3.801
CoreCount             : 8
L1 Cache Size (KB)    : data unavailable
L2 Cache Size (KB)    : 4096
L3 Cache Size (KB)    : 32768

Memory (RAM) vendor, description, size, bank, slot, total:

Vendor  Description      Size(GB) Bank  Slot
-----
G-Skill Physical Memory 16 BANK 1 DIMM_A2
G-Skill Physical Memory 16 BANK 3 DIMM_B2

Total RAM installed in system: 32GB
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Windows PowerShell ISE
File Edit View Tools Debug Add-ons Help

systemInformationScript.ps1 X
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5
6 function systemHardware {
7     # This function is called for retrieving System Hardware Description and since no specific information was specified, it returns
8     # all system hardware information
9     get-WMIObject Win32_ComputerSystem | format-list
10 }
11
12
13
14
15 function osVersion {
16     # This function is called for retrieving the OS Name and Version
17     # This function returns the OS Name and Version
18     get-WMIObject Win32_OperatingSystem | select-object | format-list @('Operating System Name';E={$_.Name}), @('Version (Build) Number';E={$_.Version})
19 }
20
21
22
23
24
25 function processorSpec {
26     # This function is called for retrieving the processor description with current processor speed in ghz, number of total cores
27     # This function returns the processor description, current speed, number of cores, and cache sizes
28     get-WMIObject Win32_Processor | select-object | format-list Description, @('Speed(GHz)';E=[math]::round($_.CurrentClockSpeed/1000)), @('Core Count';E={$_.NumberOfCores}),
29     @('L1 Cache Size (KB)';E={$_.L1CacheSize}), @('L2 Cache Size (KB)';E={$_.L2CacheSize}), @('L3 Cache Size (KB)';E={$_.L3CacheSize})
30 }
31
32
33
34
35 function ramInfo {
36     # This function is called for retrieving the memory info with size in GB, manufacturer labeled as vendor, slot showing bank
37     # This function returns the memory vendor, description, size, bank, slot, and total
38     get-WMIObject Win32_PhysicalMemory | select-object | format-table -autosize -wrap @('Vendor';E={$_.Manufacturer}), Description, Size, Bank, Slot, Total
39     Write-Output "Total RAM installed in system:";get-WMIObject Win32_ComputerSystem | format-list @('Size(GB)';E=[math]::round($_.TotalPhysicalMemory/1024))
40 }
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PS C:\Users\mmong> C:\Users\mmong\OneDrive - Georgian College\Summer 2022\COMP 2101 - Administrative Scripting\COMP2101\powershell\
PS C:\Users\mmong> systemInformationScript
Your computer's current system configuration report is below:
System Hardware Description:

Domain                : WORKGROUP
Manufacturer          : ASUS/TEK COMPUTER INC.
Model                 : ROG Strix GA35DX_G35DX
Name                  : ROG-G35DX
PrimaryOwnerName      : mmonga@outlook.com
TotalPhysicalMemory   : 34271006720

Operating System Name and Version:

Operating System Name : Microsoft Windows 11 Home[C:\Windows\Device\Harddisk0\Partition3]
Version (Build) Number : 22H2

Processor Description, Speed, Cores, Cache sizes:

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Speed(GHz)            : 3.801
CoreCount             : 8
L1 Cache Size (KB)    : data unavailable
L2 Cache Size (KB)    : 4096
L3 Cache Size (KB)    : 32768

Memory (RAM) vendor, description, size, bank, slot, total:

Vendor  Description      Size(GB) Bank  Slot
-----
G-Skill Physical Memory 16 BANK 1 DIMM_A2
G-Skill Physical Memory 16 BANK 3 DIMM_B2

Total RAM installed in system: 32GB
```

Windows PowerShell

System Hardware Description:

Domain : WORKGROUP
Manufacturer : ASUSTEK COMPUTER INC.
Model : ROG Strix GA35DX_G35DX
Name : ROG-G35DX
PrimaryOwnerName : mmongaoutlook.com
TotalPhysicalMemory : 34271886728

Operating System Name and Version:

Operating System Name : Microsoft Windows 11 Home[C:\Windows\Device\Harddisk0\Partition3]
Version (Build) Number : 22H2

Processor Description, Speed, Cores, Cache sizes:

Description : AMD64 Family 25 Model 33 Stepping 0
Speed(Ghz) : 3.801
CoreCount : 8
L1 Cache Size (KB) : data unavailable
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Memory (RAM) vendor, description, size, bank, slot, total:

Vendor	Description	Size(GB)	Bank	Slot
G-Skill	Physical Memory	16	BANK 1	DIMM_A2
G-Skill	Physical Memory	16	BANK 3	DIMM_B2

Total RAM installed in system:

Size(GB) : 31

Disk summary with vendor, model, size, free space

Free Space(GB)	Vendor	Model	Size(GB)
2665	data unavailable	WDC WD30EFRX-68EUZN0	2795
1789	data unavailable	ST2000DL003-9VT166	1863
306	data unavailable	Micron_2210_MTFD0BA1T0QFD	953

Network Adapter Configuration with IP, Description, Index, Subnet, DNS:
Your computer's current IP Configuration for enabled adapters is as follows:

IPAddress	Description
[10.0.0.145, fe80::545b:ced9:d2d2:a74e, 2607:feab:5522:d400:e8f8:f96e:36ef:208d, 2607:feab:5522:d400::2344...]	Intel(R) Wi-Fi 6 AX200 160MHz
[192.168.122.1, fe80::39db:2086:6fdb:343]	VMware Virtual Ethernet

Windows PowerShell ISE

systemInformationScripts1 X

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21  
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23  
24  
25 function processorSpec {  
26     # This function is called for retrieving the processor description with current processor speed in ghz, number of total cores  
27  
28     get-WmiObject Win32_processor | Select-Object | Format-List Description, @{n="Speed(Ghz)";e=[($_.CurrentClockSpeed/1000)]}, @  
29     e=[if($_.L1CacheSize){$__.L1CacheSize}else {"data unavailable"}], @{"L2 Cache Size (KB)";  
30     e=[if($_.L2CacheSize){$__.L2CacheSize}else {"data unavailable"}], @{"L3 Cache Size (KB)";  
31     e=[if($_.L3CacheSize){$__.L3CacheSize}else {"data unavailable"}]}  
32 }  
33  
34  
35 function ramInfo {  
36     # This function is called for retrieving the memory info with size in GB, manufacturer labeled as vendor, slot showing bank p  
37  
38     get-WmiObject Win32_physicalmemory | Select-Object | Format-Table -AutoSize -Wrap @{"Vendor";E=[$__.Manufacturer]}, Descript  
39     write-output "  
40     Total RAM installed in system:";get-wmiobject win32_computersystem | Format-List @{"Size(GB)";e=[(math)::truncate($_.TotalR  
41  
42 }  
43  
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46  
47  
48 function diskSummary {  
49     # This function provides a summary of physical disk drives and their partitions. If the vendor is not available the it prints  
50  
51     $diskdrives = Get-ciminstance CIM_diskdrive  
52  
53     foreach ($disk in $diskdrives) {  
54         $partitions = $disk.get-cimassociatedinstance -resultclassname CIM_diskpartition  
55         foreach ($partition in $partitions) {  
56             $logicaldisks = $partition.get-cimassociatedinstance -resultclassname CIM_logicaldisk  
57             foreach ($logicaldisk in $logicaldisks) {  
58                 new-object -typename psobject -property @{"Vendor";if($disk.vendor){$disk.vendor}else{"data unavailable"}},  
59                 Model=$disk.model  
60                 "Free Space(GB)"=$logicaldisk.freespace / 1gb -as [int]  
61                 "Size(GB)"=$logicaldisk.size / 1gb -as [int]  
62             }  
63         }  
64     }  
65  
66  
67
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Completed

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4:10 AM 2022-08-11


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Windows PowerShell
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G-Skill Physical Memory      16 BANK 1 DIMM_A2
G-Skill Physical Memory      16 BANK 3 DIMM_B2

Total RAM installed in system:

Size(GB) : 31

Disk summary with vendor, model, size, free space

Free Space(GB) Vendor      Model      Size(GB)
-----
2665 data unavailable WDC WD30EFRX-68EUZN0      2795
1789 data unavailable ST2000DL003-9VT166      1863
306 data unavailable Micron_2210_MTFDHBAL1T0QFD 953

Network Adapter Configuration with IP, Description, Index, Subnet, DNS:
Your computer's current IP Configuration for enabled adapters is as follows:

IPAddress                                     Descript
-----
{10.0.0.145, fe80::545b:ced9:d2d2:a74e, 2607:fea8:5522:d400:e8f8:f96e:36ef:208d, 2607:fea8:5522:d400::2344...} Intel(R) Wi-Fi 6 AX200 160MHz
{192.168.122.1, fe80::39db:2086:6fdb:343} VMware Virtual Ethernet
{192.168.190.1, fe80::891e:7981:e3d0:bfec} VMware Virtual Ethernet
{10.160.0.1, fe80::3c18:d9f3:97c0:601d} VMware Virtual Ethernet

Video card (GPU) vendor, description and current screen resolution:

Vendor      : NVIDIA
Description  : NVIDIA GeForce RTX 3080
Current Screen Resolution : {1920, 1080}

Have a nice day!
PS C:\Users\mmong>
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Windows PowerShell ISE
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systemInformationScripts! X
51 $diskdrives = Get-ciminstance CIM_diskdrive
52
53
54 foreach ($disk in $diskdrives) {
55     $partitions = $disk.get-cimassociatedinstance -resultclassname CIM_diskpartition
56     foreach ($partition in $partitions) {
57         $logicaldisks = $partition | get-cimassociatedinstance -resultclassname CIM_logicaldisk
58         foreach ($logicaldisk in $logicaldisks) {
59             new-object -typename psobject -property @($Vendor,$($disk.vendor){$disk.vendor}else{"data unavailable"}),
60                 "Free Space(GB)"="$logicaldisk.freespace / 1gb -as [int]",
61                 "Size(GB)"="$logicaldisk.size / 1gb -as [int]"
62         }
63     }
64 }
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```
systemInformationScript.ps1 X
81
82
83 function GPUInfo {
84     # This function provides the video card (GPU) vendor, description and current screen resolution
85
86     get-wmiobject win32_videocontroller | select-object | format-list @{L='Vendor';E={$_.AdapterCompatibility}}, Description, @{L
87 }
88
89
90 function systemInformationScript {
91
92     #This main function calls all other functions to create a report for the system
93
94     write-output "Your computer's current system configuration report is below: "
95
96     write-output "System Hardware Description:"
97
98     systemHardware
99
100    write-output "Operating System Name and Version:"
101
102    osVersion
103
104    write-output "Processor Description, Speed, Cores, Cache sizes:"
105
106    processorSpec
107
108    write-output "Memory (RAM) vendor, description, size, bank, slot, total:"
109
110    ramInfo
111
112    write-output "Disk summary with vendor, model, size, free space"
113
114    diskSummary
115
116    write-output "Network Adapter Configuration with IP, Description, Index, Subnet, DNS:"
117
118    ipconfigReport
119
120    write-output "Video card (GPU) vendor, description and current screen resolution:"
121
122    GPUInfo
123
124    write-output "Have a nice day!"
125
126 }
```

```
Windows PowerShell
Total RAM installed in system:

Size(GB) : 31

Disk summary with vendor, model, size, free space

Free Space(GB) Vendor          Model          Size(GB)
-----
2665 data unavailable WDC WD30EFRX-68EUZN0 2795
1789 data unavailable ST2000DL003-9VT166 1863
386 data unavailable Micron_2210_MTFDHBAL1T0QFD 953

Network Adapter Configuration with IP, Description, Index, Subnet, DNS:
Your computer's current IP Configuration for enabled adapters is as follows:

IPAddress                                     Descript
-----
{10.0.0.145, fe80::545b:ced9:d2d2:a74e, 2607:fe8:5522:d400:e0f8:f96e:36ef:208d, 2607:fe8:5522:d400::2344...} Intel(R)
Wi-Fi
6 AX200
160MHz
VMware
Virtual
Ethernet

{192.168.122.1, fe80::39db:2086:6fdb:343}

{192.168.190.1, fe80::891e:7981:e3d0:bfec}

{10.160.0.1, fe80::3c18:d9f3:97c8:601d}

Adapter
for
VMnet8
VMware
Virtual
Ethernet

Adapter
for
VMnet13

Video card (GPU) vendor, description and current screen resolution:

Vendor          : NVIDIA
Description      : NVIDIA GeForce RTX 3080
Current Screen Resolution : {1920, 1080}

Have a nice day!
PS C:\Users\mmong> np $PROFILE
PS C:\Users\mmong> systemInformationScript
```

```
Microsoft.PowerShell_profile.ps1 - Notepad
File Edit View
>logicaldisks = >partition | get-cimassociatedinstance -resultclassname cim_logicaldisk
foreach ($logicaldisk in $logicaldisks) {
    new-object -typename psobject -property @{Vendor-If($disk.vendor){$disk.vendor}else{"data unavailable"}}
        Model-$disk.model
        "Free Space(GB)"-$logicaldisk.freespace / 1gb -as [int]
        "Size(GB)"-$logicaldisk.size / 1gb -as [int]
    }
}

}

}

function IpconfigReport {
    write-output "Your computer's current IP Configuration for enabled adapters is as follows:"
    get-ciminstance Win32_networkadapterconfiguration | ? ipenable | format-table -autosize -wrap IPAddress, Description, Index, SubnetMask,
    DNSDomain, DNSServer
}

function GPUInfo {
    # This function provides the video card (GPU) vendor, description and current screen resolution

    get-wmiobject win32_videocontroller | select-object | format-list @{"Vendor";E={$_.AdapterCompatibility}}, Description, @{"Current Screen
    Resolution";E={$_.CurrentHorizontalResolution, $_.CurrentVerticalResolution}}
}

function systemInformationScript {

    #This main function calls all other functions to create a report for the system

    write-output "Your computer's current system configuration report is below: "

    write-output "System Hardware Description:"

    systemHardware

    write-output "Operating System Name and Version:"

    osVersion

    write-output "Processor Description, Speed, Cores, Cache sizes:"

    processorSpec

    write-output "Memory (RAM) vendor, description, size, bank, slot, total:"

    ramInfo

    write-output "Disk summary with vendor, model, size, free space"

    diskSummary

    write-output "Network Adapter Configuration with IP, Description, Index, Subnet, DNS:"

    ipconfigReport

    write-output "Video card (GPU) vendor, description and current screen resolution:"

    GPUInfo

    write-output "Have a nice day!"

}

Ln 115, Col 35
```