PowerShell

Read out Hardware Configuration

Information

A lot of metrics concerning the hardware configuration of a computer can be read out using the so-called CIM-metrics which are provided by means of classes of the Common Informationen Model (CIM).

Retrieving this information can be done using PowerShell with the command *Get-CimInstance -ClassName <CIM-CLASS>*

Exercise 1

Find and document all of the required information for your computer. Use the appropriate CIM class to find the values of the requested properties.

CIM-Class	Component	Properties
Win32_BIOS	BIOS	Manufacturer Name Serial Number
Win32_BaseBoard	Mainboard	Serial Number
Win32_Processor	Processor	Manufacturer Name Max. Clock Rate
Win32_ComputerSystem	Computer	Manufacturer Model Name Size of RAM
Win32_PhysicalMemory	Speicher	Manufacturer BankLabel Size (Capacity)

CIM-Class	Component	Properties
Win32_Battery[1]	Battery	Voltage Remaining Charge[2] (%) RunTime[2] (min)

Exercise 2

Compare the information you gathered with a partner. Which values are identical and which differ? Give reasons for your observations.

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[1] Only for laptops and other computers running on battery.
[2] Computer must be running on battery to retrieve the value. Remove power cord if necessary.