

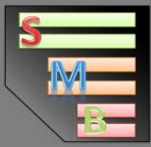
System-Meeter-Bar

System analyze, benchmark, traffic and overview tool

Made by NeoX / IT_Huskys

©S. Ehrentraut

Created for version 3.0



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What is the “System-Meeter-Bar”?

The “System-Meeter-Bar” is/was designed to offer a solution for license friendly support and analyze tools who are compact and not related to EULA’s who require licensing for commercial usage. The SMB is a system data collector tool, system overview tool, benchmark and system report tool in one. You can use it for having an overview of your system next to your work, finding issues or testing the stability of your system via the build in benchmark, no matter if on a private system or in a commercial environment and usage.

System Requirements

CPU: Dual Core 1 GHz+
HDD: 10 MB free space (can be used on portable storage device too)
RAM: 1 GB
OS: Win7 – Win 10 .Net 4.0

EULA – User Agreement

1. Property assignment

The delivered software remains the property of the creator (S. Ehrentraut (Made by NeoX)). It is subject to the free license and may be used free of charge commercial and private.

2. Privacy Policy

This software does them any kind of information yet to be transferred data in any form, stored or analyzed, which is not the use of the software needed.

3. Applicable Law

All legal transactions or other legal relations with us understand the law of Germany. The CISG (CISG) and any other international conventions, even after being taken over into German law, shall not apply.

4. Damage Waiver

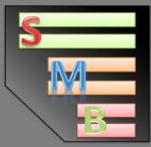
By confirming these terms and conditions is the user acknowledges that any claim for damages in the event of system damage or injury goes out by this software.

5. Modification of Terms and Conditions

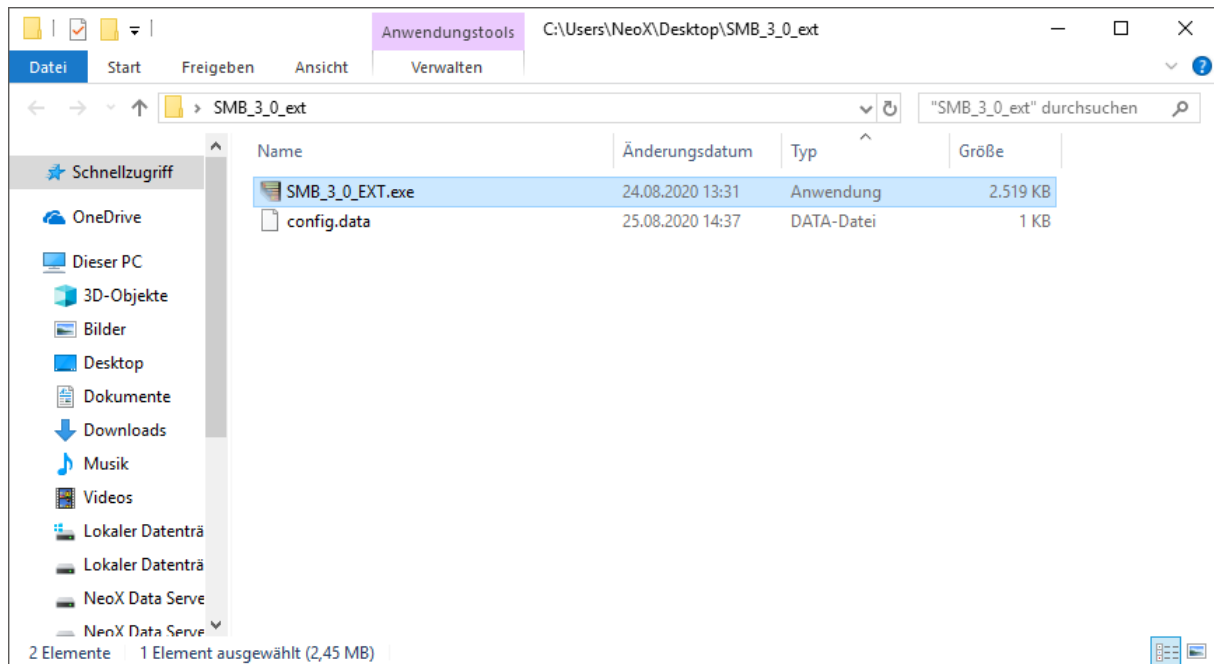
We are entitled to these terms and conditions - provided they are introduced into the contractual relationship with the user - to unilaterally change the extent necessary to remedy subsequently arising equivalence disorders or to adapt to changing legal or technical environment. We will inform the user with notification of the content of the amended regulations relating to adaptation. The change is part of the contract if the customer after receipt of the notice of change to the inclusion in the contractual relationship opposite does not contradict within six weeks we in writing or text form.

6. Severability

Should individual provisions of the contract including these regulations be completely or partially invalid or should the contract have an unforeseen gap, the validity of the remaining provisions or parts of such provisions. Instead of the ineffective or missing regulations the respective legal regulations.



1.0 Files and startup



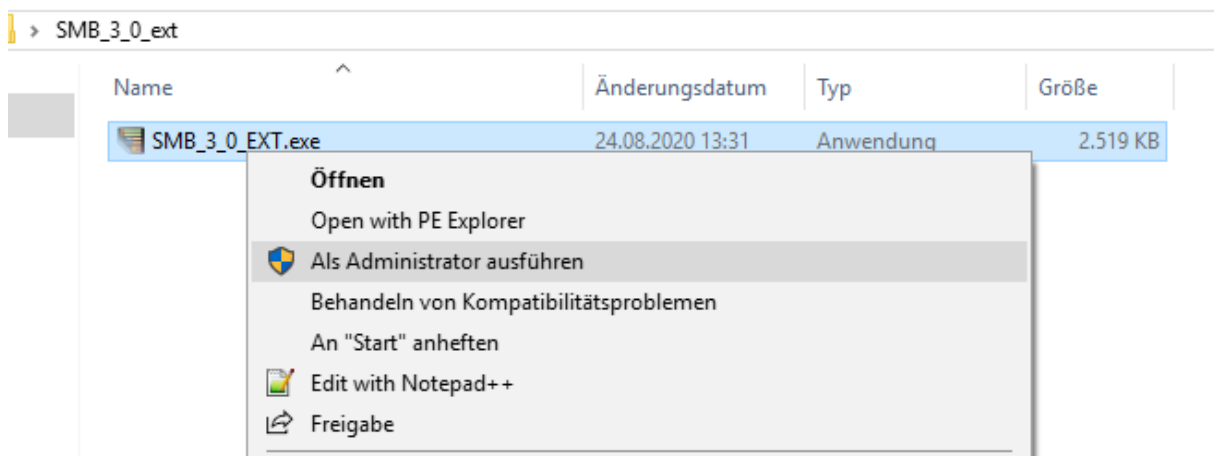
SMB_3_0_EXT.exe = The System-Meeter-Bar in version 3.0

config.data = config file to save the last applied user-settings (will be created after the start and is always located next to the main-app exe)

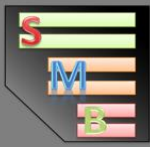
Please make sure the folder that the SMB is located in has write permissions.

1.1 Starting the SMB

The SMB can be started as a normal User without special permissions but cannot use all Features when doing so, or as an admin to have full access to all its features.

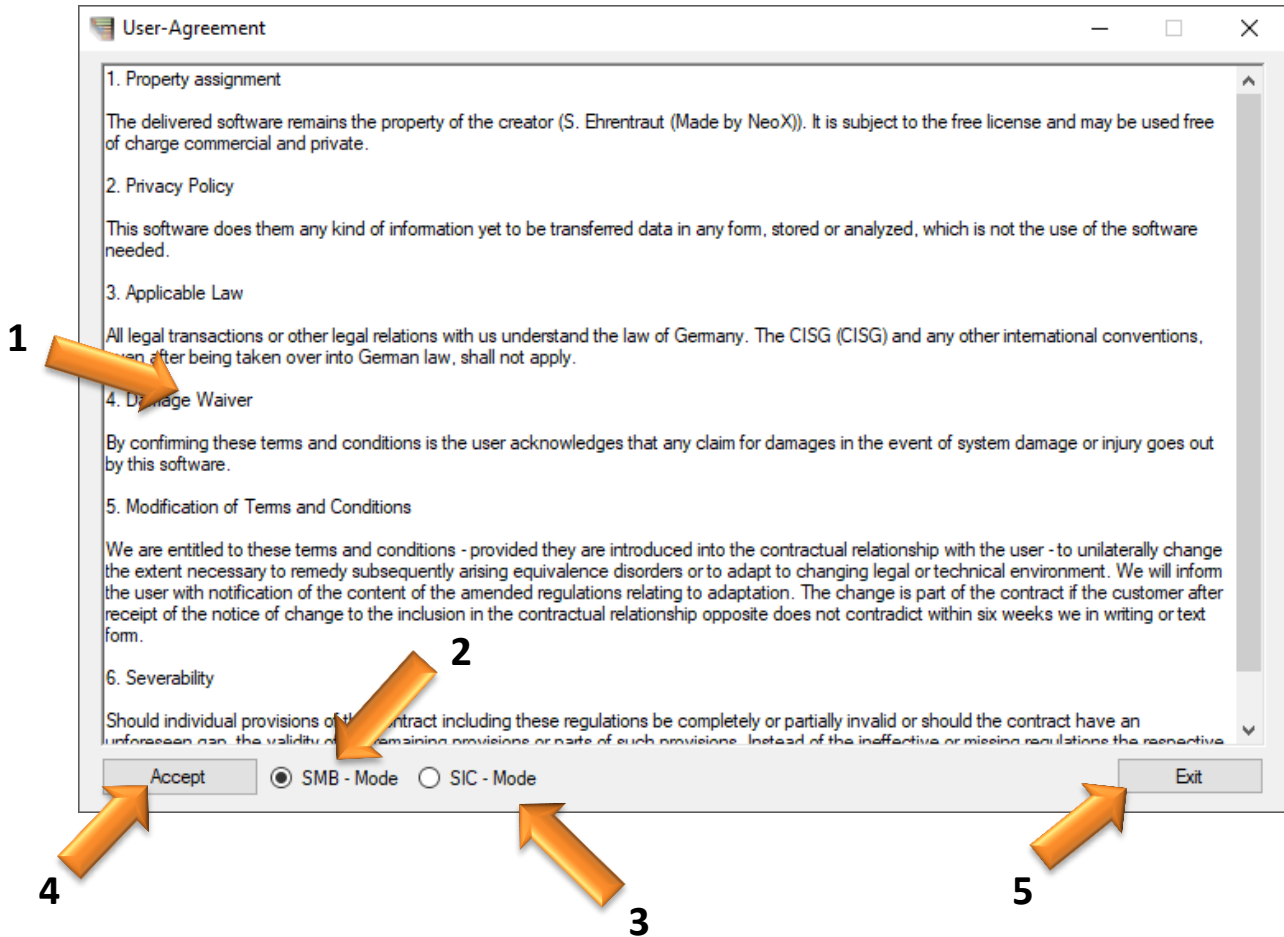


To start the SMB as an admin, right click on the exe and select "Run as Administrator".



1.2 User-Agreement and start mode selection

On the 1st startup of the SMB you will get EULA agreement form with the option to jump to a specific mode. When you select the SMB-Mode and agree the EULA this form will never be shown ever again.



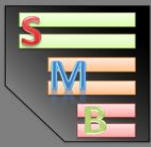
1 = EULA content

2 = starts the SMB in its main form with the system-overview (see page 6)

3 = starts the SMB directly into the SIC-Mode (see page 14)

4 = Accepts the EULA and starts the SMB with the selected Mode

5 = Closes the application



2.0 System-Meeter-Bar

This is the Main-Form of the SMB that shows a live overview of the system with most important data of the system, CPU, HDD's and Network activity. It also gives access to all functions of the SMB.

1 System information header

2 CPU Performance

CPU-ID	Usage%	cur. Clock/max Clock
CPU 0 HTD 0	6%	4000 /4000MHz
CPU 0 HTD 1	0%	4000 /4000MHz
CPU 1 HTD 0	0%	4000 /4000MHz
CPU 1 HTD 1	6%	4000 /4000MHz
CPU 2 HTD 0	6%	4000 /4000MHz
CPU 2 HTD 1	0%	4000 /4000MHz
CPU 3 HTD 0	6%	4000 /4000MHz
CPU 3 HTD 1	7%	4000 /4000MHz

3 HDD Performance

Drive	Volume
C:\	Volume: 58/223GB
D:\	Volume: 18/231GB
E:\NeoX Data Server 3...	Volume: 280/1862GB
F:\NeoX Data Server...	Volume: 3/2794GB
G:\	Volume: N/A
H:\NeoX Data Server 5...	Volume: 272/3725GB
I:\Prog_Data	Volume: 77/699GB
N:\Public	Volume: 151/3663GB

4 Network Performance

Network-Upload[3]: 0,2880263 KB/s
Network-Download[3]: 0,3150847 KB/s

5 Context menu

- Options
- Create System-Report
- Benchmark
- Info
- Exit

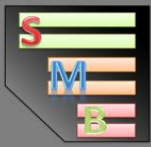
1 = System information header (see page [7](#))

2 = CPU Performance (see page [8](#))

3 = HDD Performance (see page [9](#))

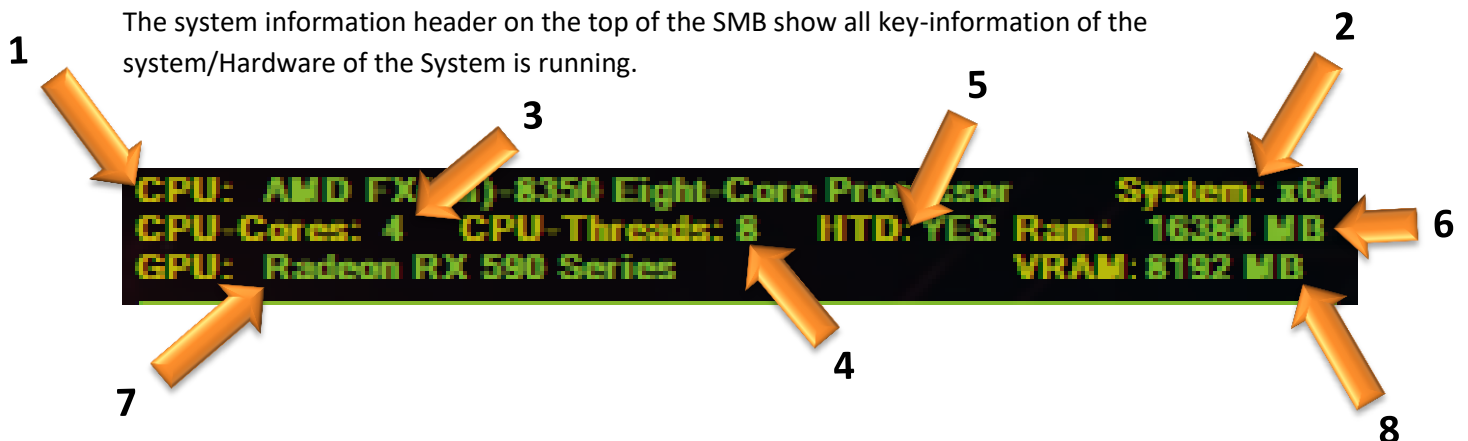
4 = Network Performance (see page [10](#))

5 = Right click opens the context menu with all the features of the SMB (see page [11](#))



2.1 System Information header

The system information header on the top of the SMB show all key-information of the system/Hardware of the System is running.



1 = shows the name of the main CPU of the system the SMB is running on (hover your mouse over it to see its full name)

2 = shows the system architecture of 32 or 64 bit

3 = shows the amount of physical cores (or modules) the CPU has and uses

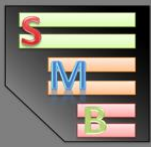
4 = shows the amount of the Threads the CPU offers and the Windows system is working with

5 = shows if Hyper threading is used/activated or if all Threads are based on single physical cores

6 = shows the amount of installed and useable Ram in Megabyte

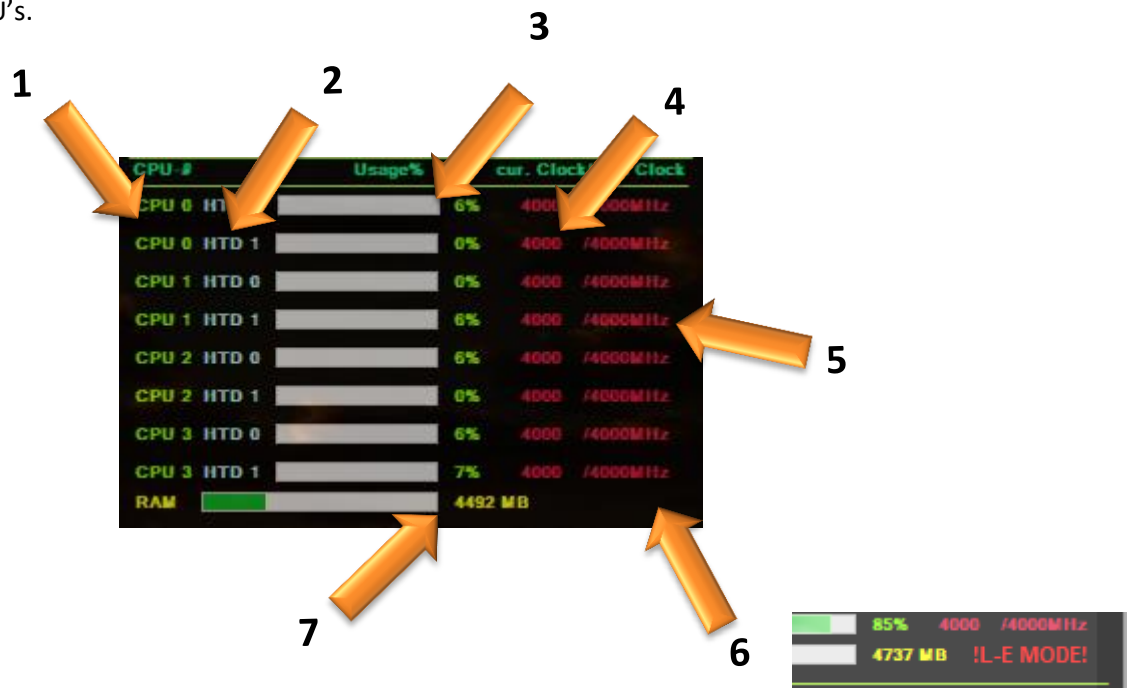
7 = shows the main display GPU of the system the SMB is running on (hover your mouse over it to get a display of all installed GPU's in the system with VRAM next to it)

8 = shows the amount of VRAM of the main GPU of the system the SMB is running on



2.2 CPU-Performance

This module shows you the live performance of your CPU and Ram usage. The SMB supports up to 64 core/thread CPU's.



1 = shows a list of all physical cores (or modules) the CPU has and its connected Thread (The SMB supports up to 64 core/thread CPU's)

2 = shows the Thread connected to the core or if there is no Hyper threading then that the thread is native to the core

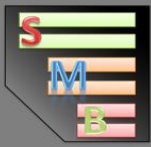
3 = shows the current usage/load of the thread/core

4 = shows the current total CPU clock-speed that is applied to the system and the CPU

5 = shows the max possible total CPU clock-speed that is allowed for this CPU

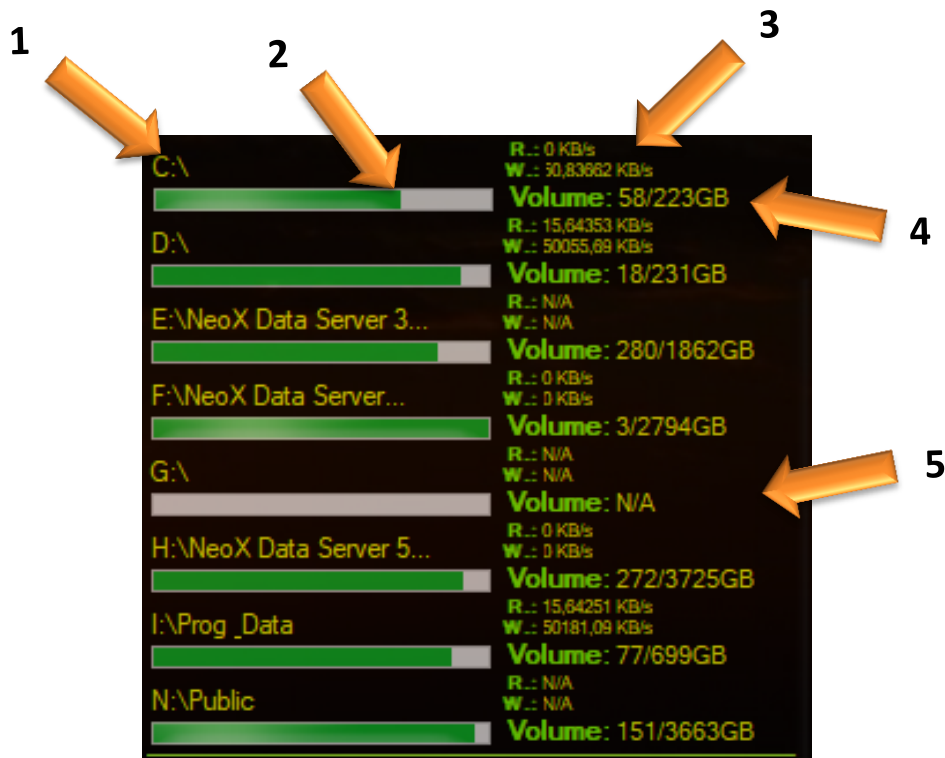
6 = "L-E-Mode" the low-end-mode shows when a system is fully loaded and the SMB switches to its LEM to reduce itself system load/usage to give the most possible performance to the task creating this system-load/usage

7 = shows the current usage of the RAM in MB



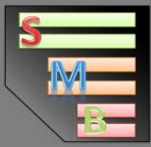
2.3 HDD Performance

This module shows you all storage devices in your System and connected to the system. It can show up to 30 devices (internally and externally connected) and auto/live expands on new devices getting added or removed. So you can just connect an external storage device and the SMB will auto expand while running.



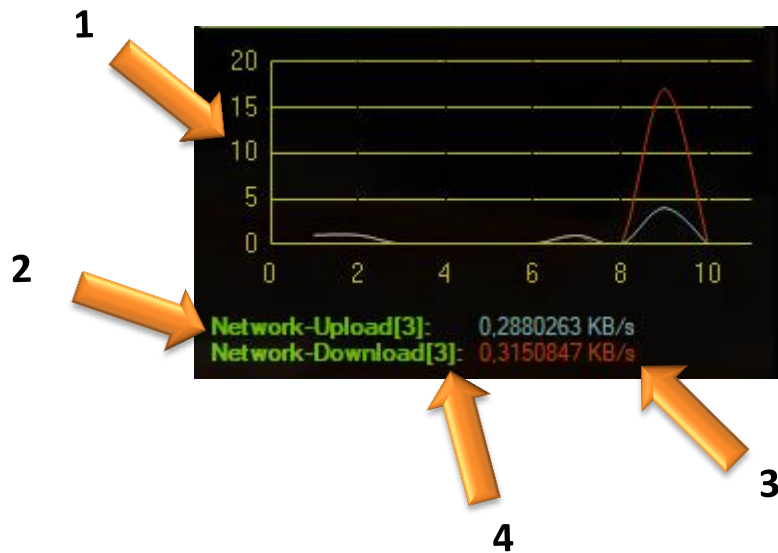
- 1 = shows the name of the storage device
- 2 = shows the used storage of the device
- 3 = shows the current Read and Write speeds/loads of the storage device (if there is a permission issue or wrongly configured WMI it will only show N/A)
- 4 = shows the amount of used and free storage in GB
- 5 = Drives like DVD, Blu-Ray or Card Reader who are empty will be shown as N/A until they are used

By clicking on any of the devices listed there you open them up in your windows explorer. With that feature you can quick jump to any storage device of your choice.

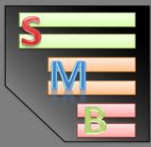


2.4 Network Performance

In this module you can see your current Network traffic and load/usage. It can show the load of up to 10 active Network connections.

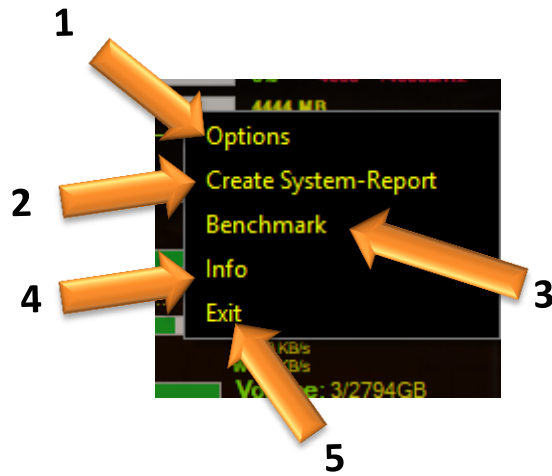


- 1 = Shows the current total network load/usage as a graph with a timespan of the last 10s
- 2 = Shows the current amount of traffic in the Upload in KB/s
- 3 = Shows the current amount of traffic in the Download in KB/s
- 4 = shows the amount of active network connections the traffic is based on



2.5 Context Menu

You can trigger the Context-Menu by right clicking on the Mainform SMB.



1 = opens the options (see page [12](#))

2 = opens the System-Report creator (see page [14](#))

3 = opens the Benchmark (see page [17](#))

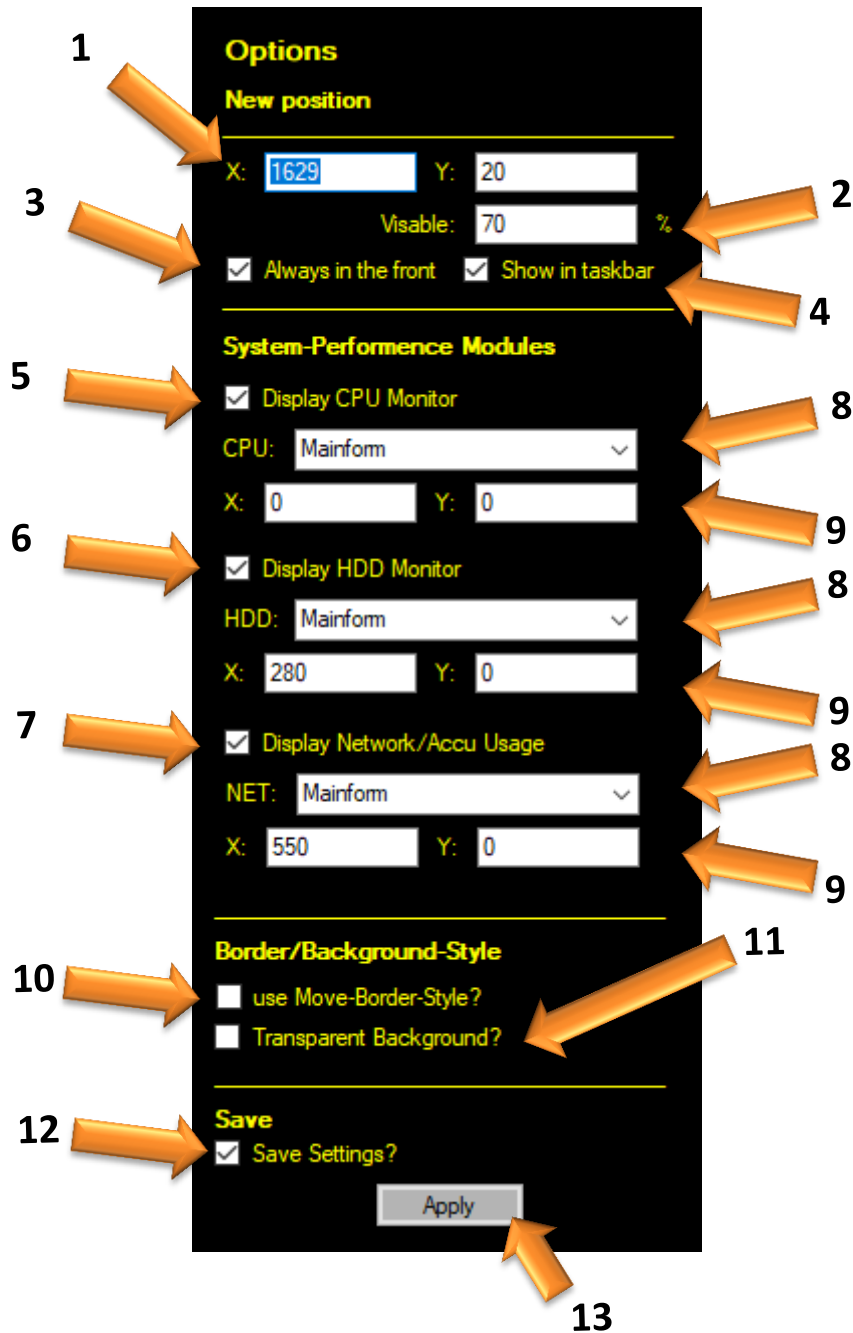
4 = opens the info of the SMB (see page [13](#))

5 = closes the SMB and all Tools connected to it



2.6 Options

Here in the options you can adjust any visuals of the SMB how much you like.



1 = sets the coordinates where the main form SMB will be placed when not in Move-Border-Style

2 = sets the visibility of the SMB. The lower the value the more transparent is the form

3 = always before other windows and apps

4 = shows the icon in the taskbar

10 = activate the Move-Border-Style

5 = Activate/show the CPU-Module

11 = make the Background transparent

6 = Activate/show the HDD-Module

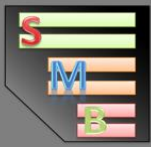
12 = save the setting on SMB exit

7 = Activate/show the NETWORK-Module

13 = apply the changes and settings

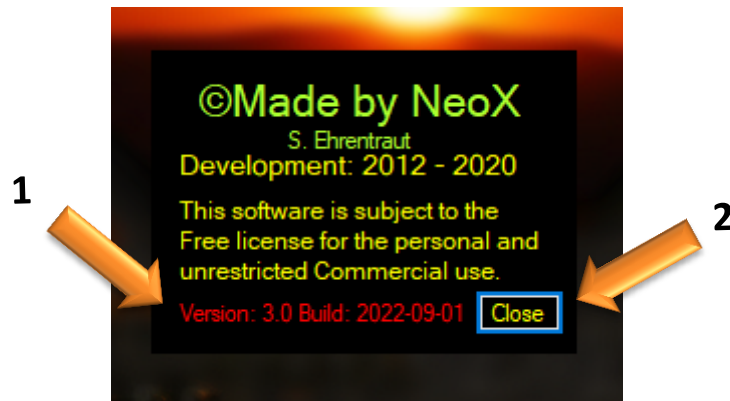
8 = show the Module in Main form or as a single window

9 = sets the coordinates of the Module in single window mode



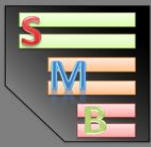
2.7 Info-Form

This little windows show the License information and version.



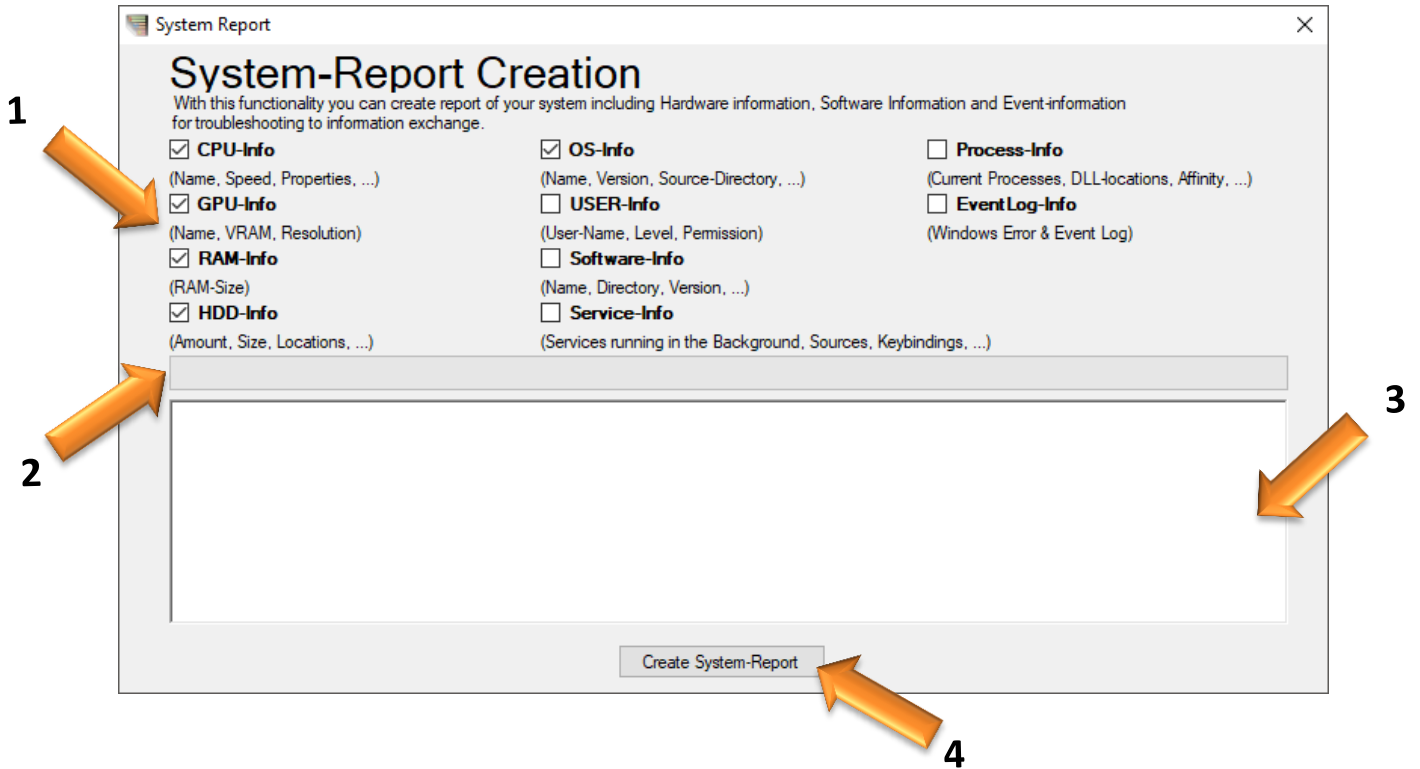
1 = version and created date of the SMB

2 = closes the info window

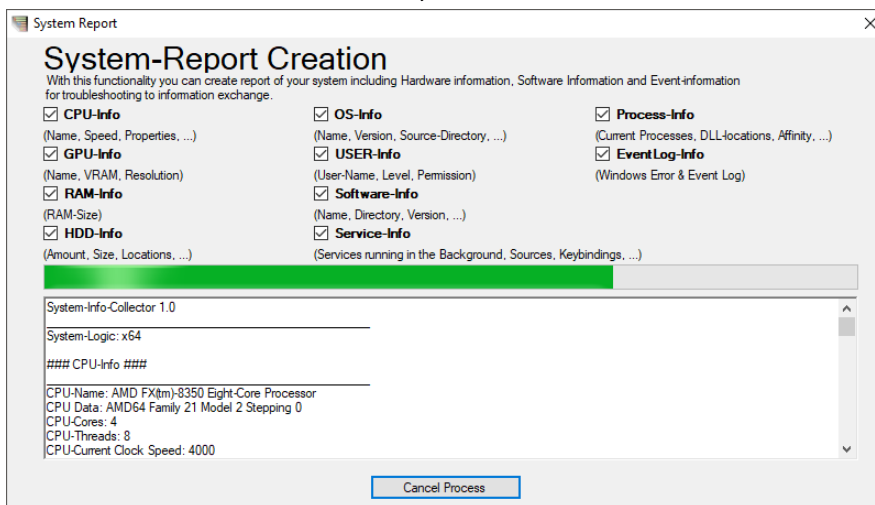


3.0 System-Report Creator

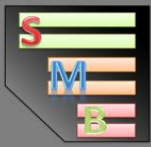
With this feature you can create a custom configured System-Report for the system the SMB is executed on with all Hardware data, Software data and event-information for trouble search and analyses.



- 1 = Data collection settings of what should be collected and saved
- 2 = shows the progress of the data collection
- 3 = shows the current collected data
- 4 = starts the data collection process based on the settings (please make sure to have the needed permissions for the data that has to be collected)

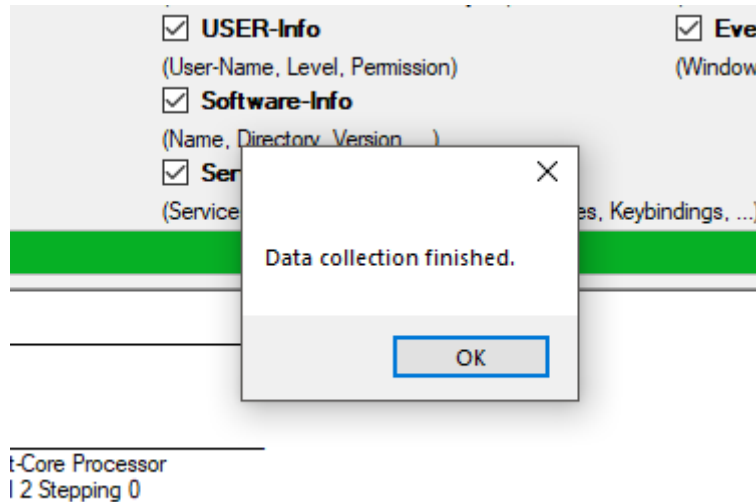


Permissions	CPU	GPU	RAM	HDD	OS	USER	Software	Service	Process	Event-Log
Normal-User	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO
Admin-permission	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

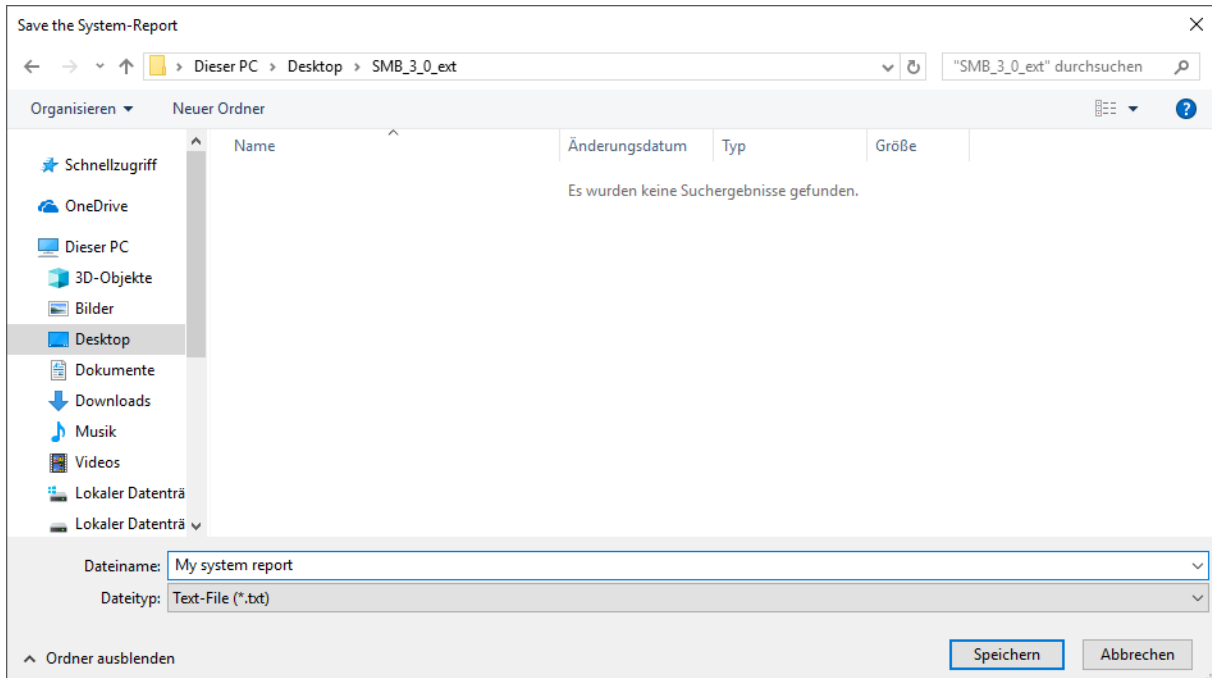


3.1 Create and Save a SIC

After configuring the SIC and starting the collection task, you will receive a message when the task is complete.

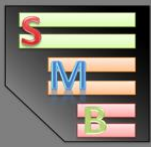


Depending on the speed of your Hardware and collection settings it can take 1-5min in total. After the task is finished you will be able to save the system-report on a location of your choice in form of an easy to read txt-file.



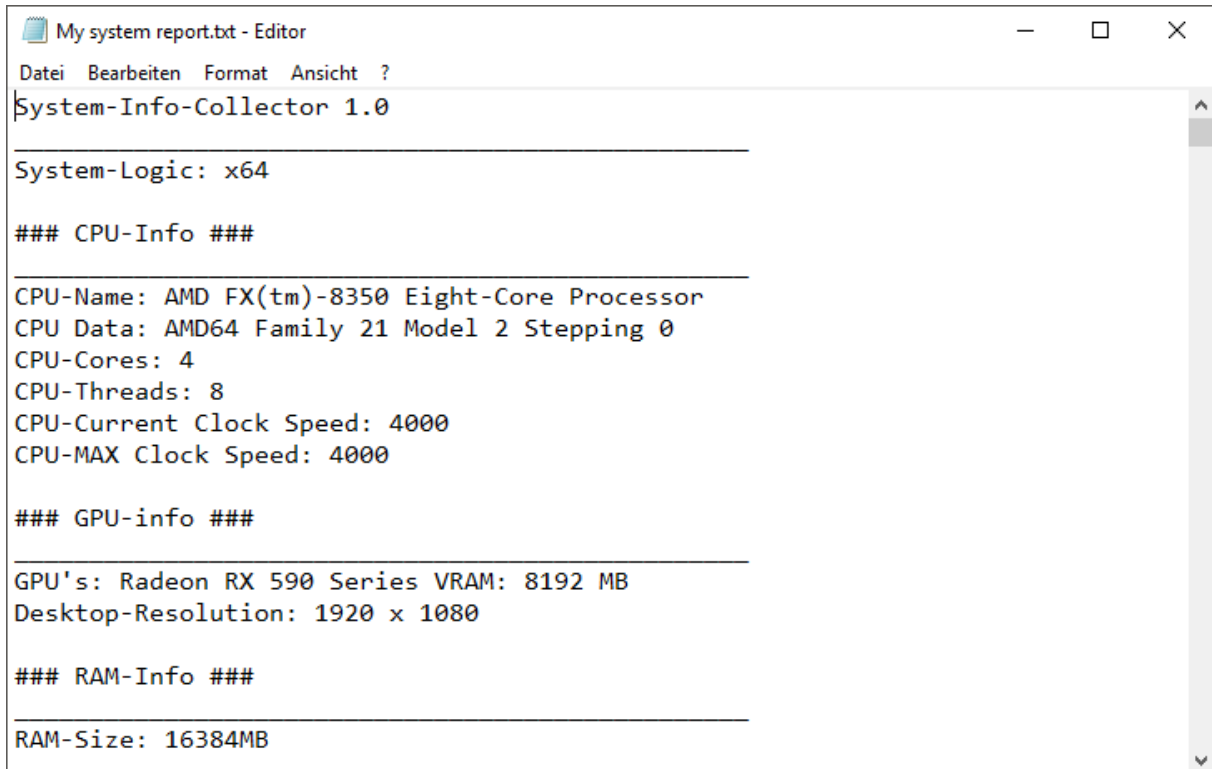
Just select a location where you have the write permission. The System-Report has with full collection settings a size of around 2-50 MB max. Because of its simple text (txt) file format it can be read and opened by almost every app that supports text editing.

When you started the SMB in the SIC mode, the SMB will close itself after the Report is created.



3.2 The System-Report file

The System-Report file contains all information about the system based on the collection configuration.



```
My system report.txt - Editor
Datei Bearbeiten Format Ansicht ?
System-Info-Collector 1.0

System-Logic: x64

### CPU-Info ###

CPU-Name: AMD FX(tm)-8350 Eight-Core Processor
CPU Data: AMD64 Family 21 Model 2 Stepping 0
CPU-Cores: 4
CPU-Threads: 8
CPU-Current Clock Speed: 4000
CPU-MAX Clock Speed: 4000

### GPU-info ###

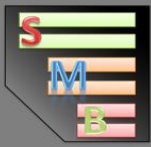
GPU's: Radeon RX 590 Series VRAM: 8192 MB
Desktop-Resolution: 1920 x 1080

### RAM-Info ###

RAM-Size: 16384MB
```

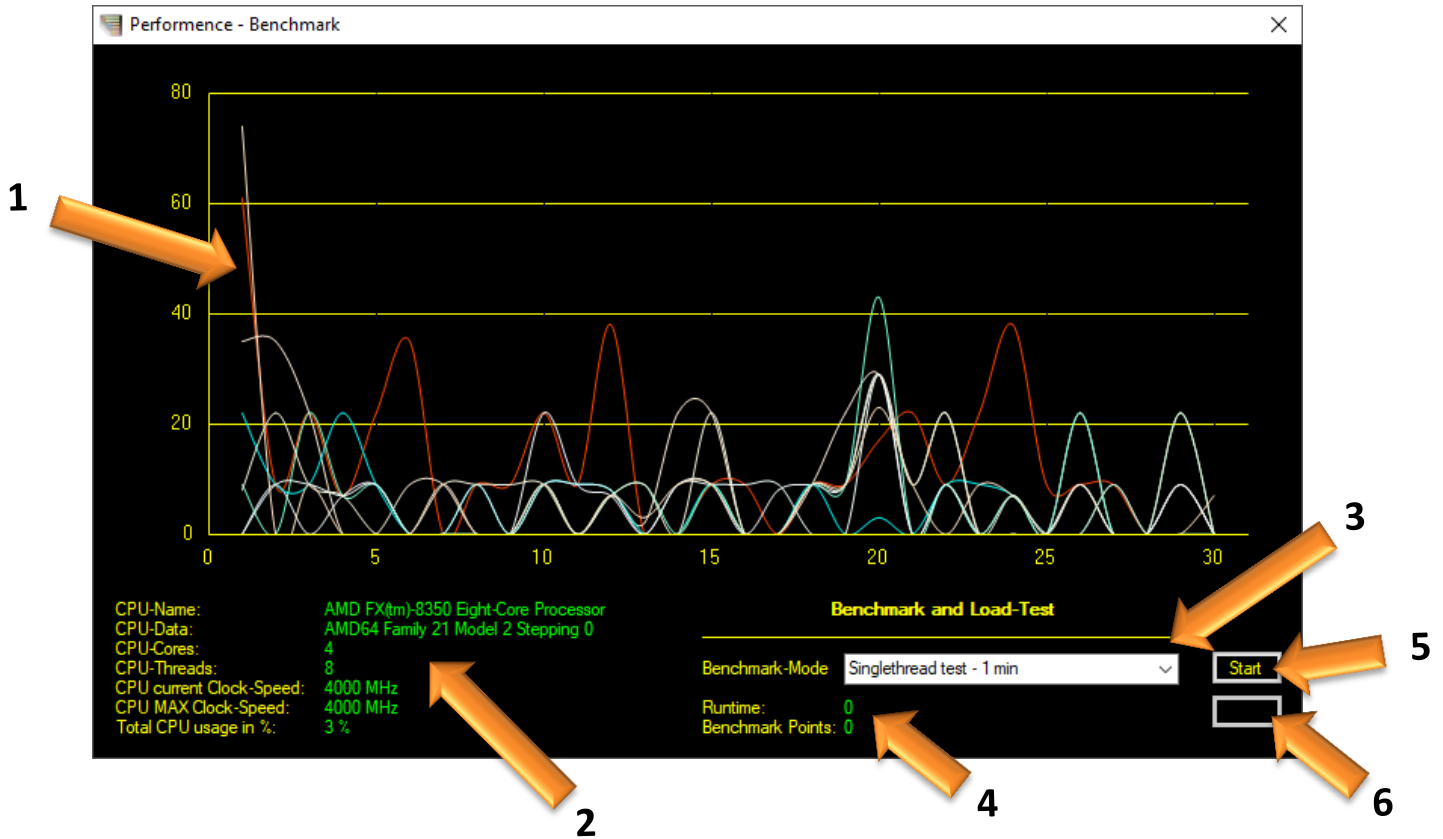
If you want to jump to a specific point of the data-report, just search for “###” in your text-editor of choice.

You can now send/share this report with these who need it to help you or you want to show it to.

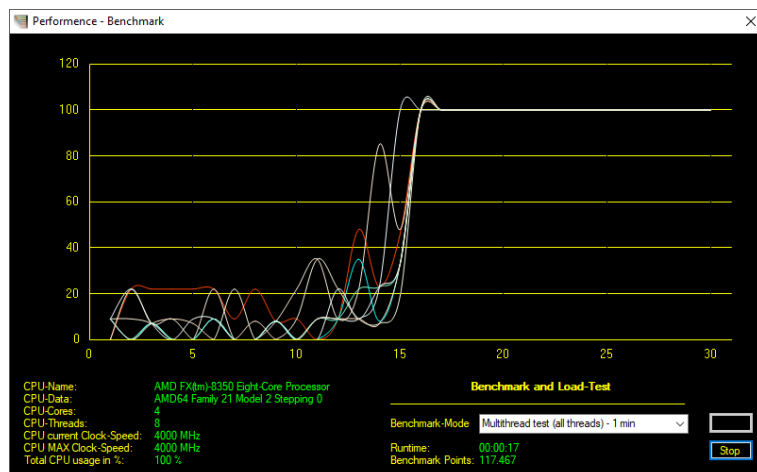


4.0 Benchmark

The SMB comes with an own build in Benchmark feature to stress-test the system for heat or power issues but can also score the CPU power of a system to compare it to others.



- 1 = Live graph of all CPU threads of the load/usage of the system
- 2 = Live CPU information with current clock-speed and total usage/load
- 3 = selection of the Benchmark mode and time
- 4 = runtime of the benchmark and gathered points of the Benchmark
- 5 = starts the Benchmark depending on the selected mode and time
- 6 = stops the currently running Benchmark (if running)



Reference Points:

AMD FX 8350:

Single thread 1 min: 81.471

Multi thread 1 min: 542.355

Intel I7-6700K:

Single thread 1 min: 165.298

Multi thread 1 min: 1.163.434

Intel I7-10700:

Single thread 1 min: 172.055

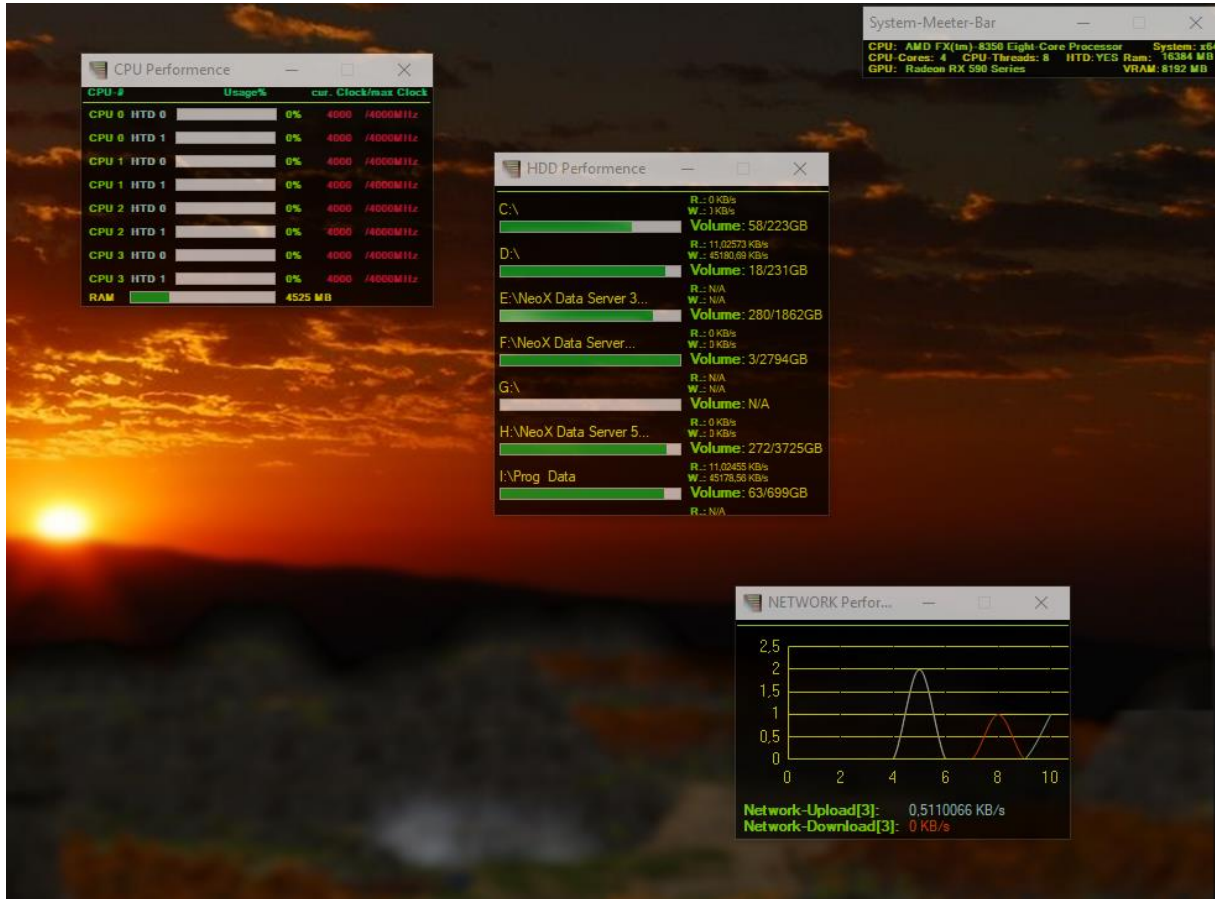
Multi thread 1 min: 2.268.959



5.0 Credits

Thank you for choosing the System-Meeter-Bar in version 3.0.

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2020-09-01 Created for version 3.0