

A Windows OS külső segédprogramjainak használata

LogonSession:

Megmutatja melyik felhasználó lépett be a rendszerbe és mikor.

```
Administrator: C:\Windows\System32\cmd.exe
Logon server: DESKTOP-KOH3T6A
DNS Domain:
UPN:

[19] Logon session 00000000:2bb1aed3:
User name: Font Driver Host\UMFD-8
Auth package: Negotiate
Logon type: Interactive
Session: 8
Sid: S-1-5-96-0-8
Logon time: 23/02/2021 00:30:53
Logon server:
DNS Domain:
UPN:

[20] Logon session 00000000:2bb1b945:
User name: Window Manager\DWM-8
Auth package: Negotiate
Logon type: Interactive
Session: 8
Sid: S-1-5-90-0-8
Logon time: 23/02/2021 00:30:53
Logon server:
DNS Domain:
UPN:

[21] Logon session 00000000:2bb1b964:
User name: Window Manager\DWM-8
Auth package: Negotiate
Logon type: Interactive
Session: 8
Sid: S-1-5-90-0-8
Logon time: 23/02/2021 00:30:53
Logon server:
DNS Domain:
UPN:

[22] Logon session 00000000:2bb673bb:
User name: DESKTOP-KOH3T6A\Nex
Auth package: NTLM
Logon type: Interactive
Session: 8
Sid: S-1-5-21-248163269-1521673709-840110519-1001
Logon time: 23/02/2021 07:05:43
Logon server: DESKTOP-KOH3T6A
DNS Domain:
UPN:

[23] Logon session 00000000:2bb673ec:
User name: DESKTOP-KOH3T6A\Nex
Auth package: NTLM
Logon type: Interactive
Session: 8
Sid: S-1-5-21-248163269-1521673709-840110519-1001
Logon time: 23/02/2021 07:05:43
Logon server: DESKTOP-KOH3T6A
DNS Domain:
UPN:

D:\School\Internal suite>
```

Process Utilities(Process Explorer):

Processzek tulajdonságait vizsgálhatjuk, erőforrások eloszlását.

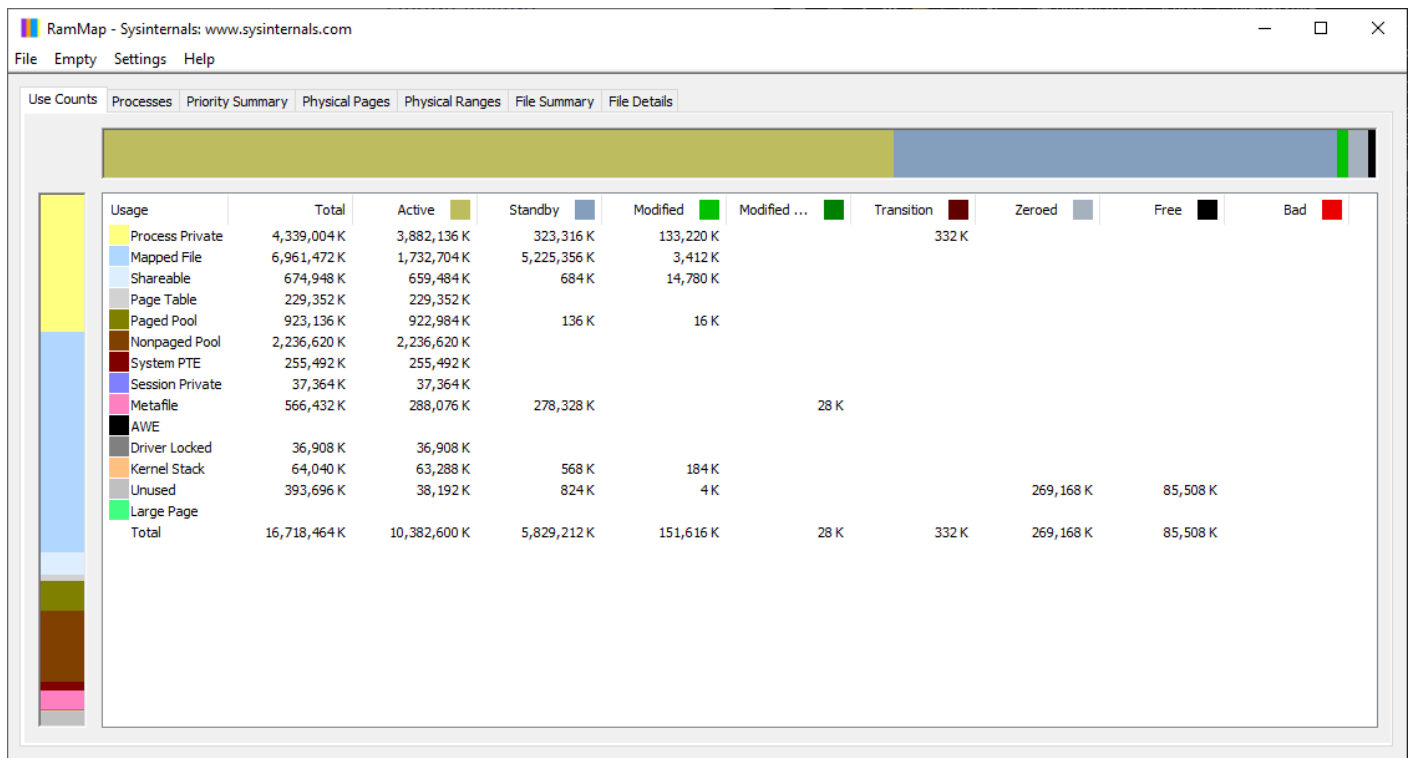
Process Explorer - Sysinternals: www.sysinternals.com [DESKTOP-KOH3T6A\Nex]

FileOptionsViewProcessFindUsersHelp

<

RamMap:

RAM eloszlását vizualizálja kategóriákra osztva, itt akár fel is szabadíthatunk memóriát.



TCPView:

Megtekinthetjük milyen processzek csatlakoznak az internethez, melyik portot, IP címet használják milyen protokoll segítségével.

TCPView - Sysinternals: www.sysinternals.com

FileOptionsProcessViewHelp

A

| Process | PID | Protocol | Local Addr... | Local Port | Remote Address | Remote Port | State | Sent Packets | Sent Bytes | Rcv |
|-----------------|-----|----------|-------------------|-------------|-----------------|-------------|-----------|--------------|------------|-----|
| System | 4 | TCP | desktop-koh36a... | netbios-ssn | DESKTOP-KOH3... | 0 | LISTENING | | | |
| qbittorrent.exe | 272 | TCP | desktop-koh36a... | 35642 | DESKTOP-KOH3... | 0 | LISTENING | 6 | 520 | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 188.173.137.15 | 8069 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 84.224.203.152 | 28902 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 82.78.22.78 | 50405 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 86.101.196.190 | 52351 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 188.143.84.43 | 52497 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 80.98.231.90 | 53692 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 134.255.23.11 | 56404 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 213.222.129.213 | 59602 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59785 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59824 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59830 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59834 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59838 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59839 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59840 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59848 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59850 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59856 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59864 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59865 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59869 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59871 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59878 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59883 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59886 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59892 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59905 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59906 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59907 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59918 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59921 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59922 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59924 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59927 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59928 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59939 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59942 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59950 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59952 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59924 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59927 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59928 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59939 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59942 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59950 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59952 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59964 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59969 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59976 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59978 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59985 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 59999 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 60005 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 60014 | TIME_WAIT | | | |
| [System Proc... | 0 | TCP | desktop-koh36a... | 35642 | 37.120.237.162 | 60033 | TIME_WAIT | | | |

Endpoints: 405

Established: 77

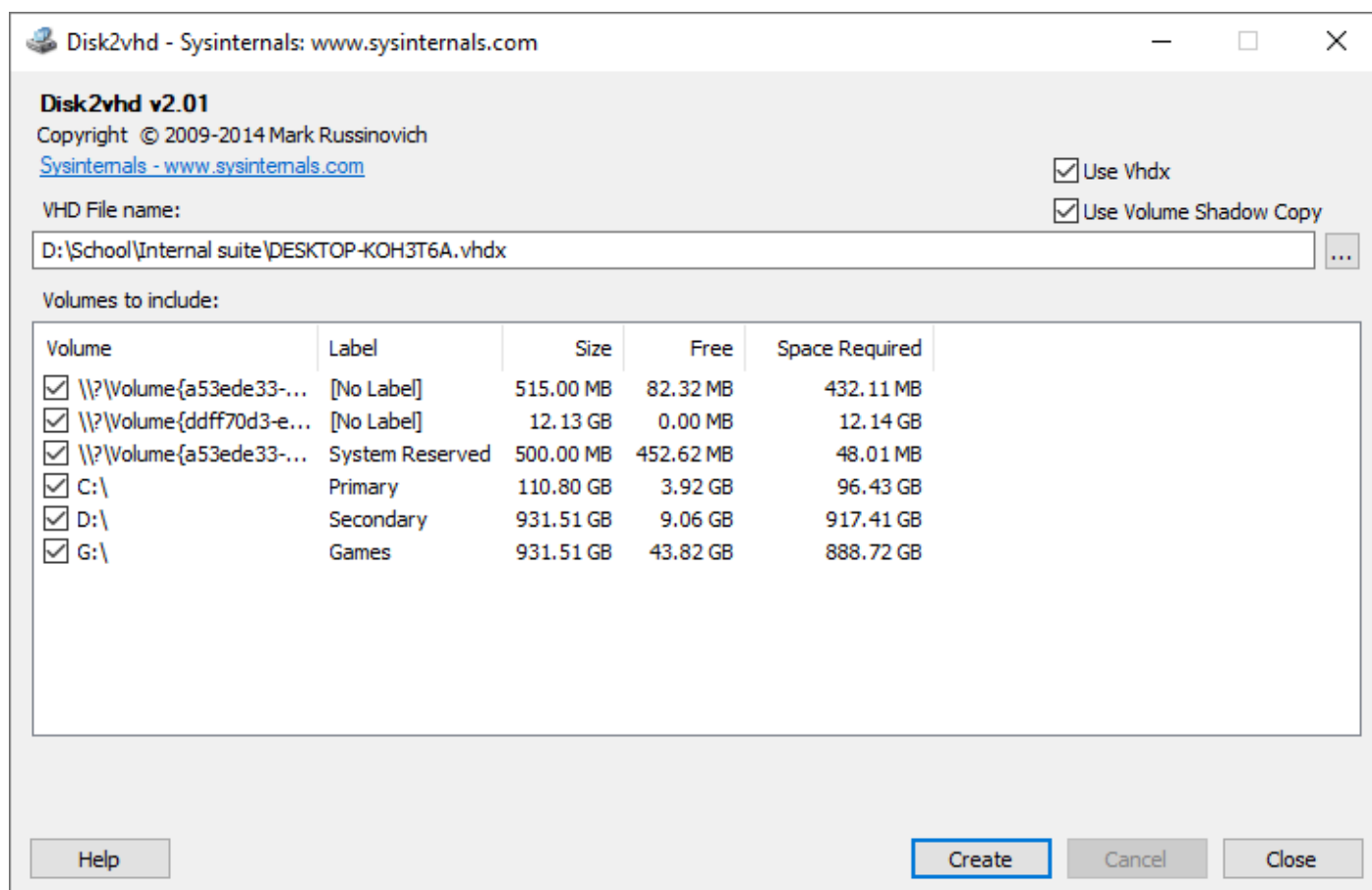
Listening: 71

Time Wait: 79

Close Wait: 16

Disk2vhd:

Át lehet alakítani egy tetszőlegesen kiválasztható háttértárat VHD-re.



Disk2vhd v2.01
Copyright © 2009-2014 Mark Russinovich
[Sysinternals - www.sysinternals.com](http://www.sysinternals.com)

VHD File name:
D:\School\Internal suite\DESKTOP-KOH3T6A.vhdx

☒ Use Vhdx
☒ Use Volume Shadow Copy

Volumes to include:

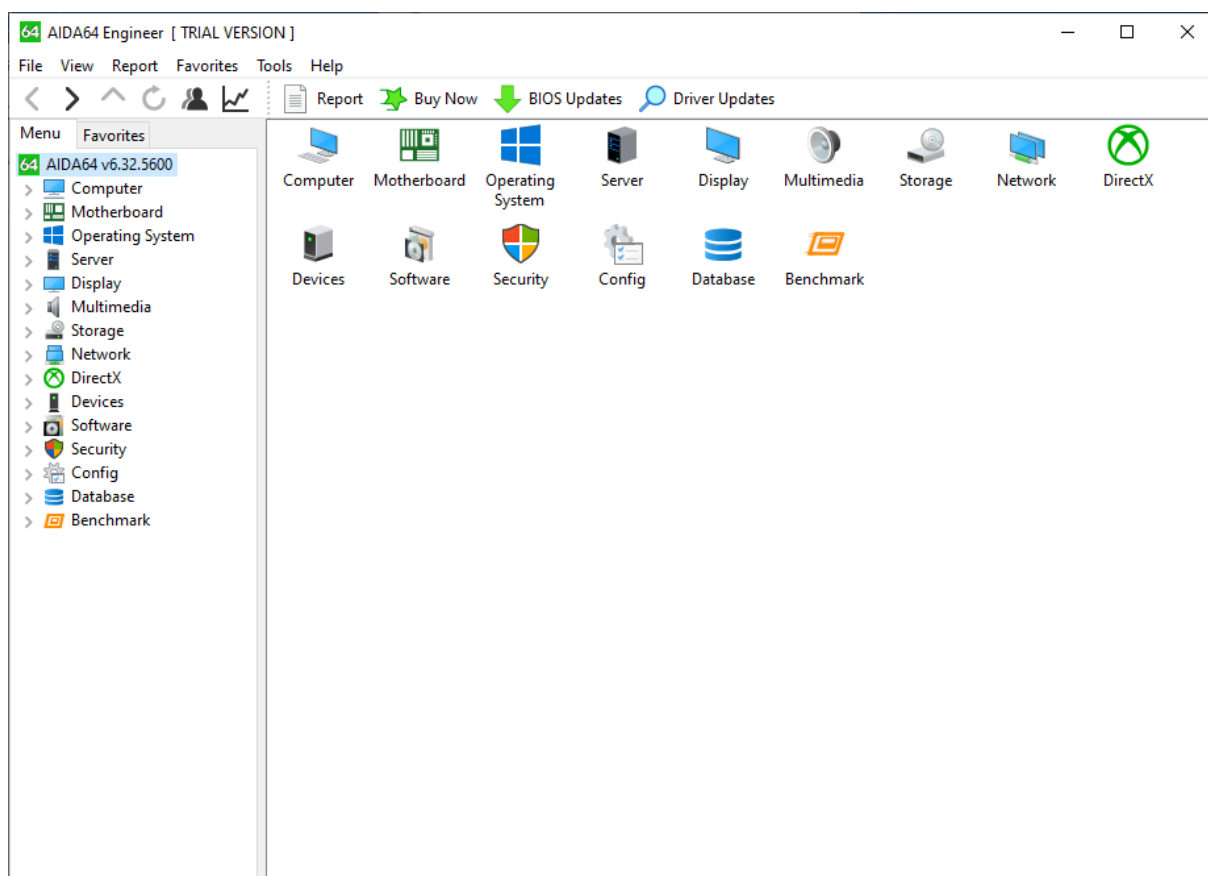
| Volume | Label | Size | Free | Space Required |
|--|-----------------|-----------|-----------|----------------|
| <input checked="" type="checkbox"/> \\?\Volume{a53ede33-... | [No Label] | 515.00 MB | 82.32 MB | 432.11 MB |
| <input checked="" type="checkbox"/> \\?\Volume{ddff70d3-e... | [No Label] | 12.13 GB | 0.00 MB | 12.14 GB |
| <input checked="" type="checkbox"/> \\?\Volume{a53ede33-... | System Reserved | 500.00 MB | 452.62 MB | 48.01 MB |
| <input checked="" type="checkbox"/> C:\ | Primary | 110.80 GB | 3.92 GB | 96.43 GB |
| <input checked="" type="checkbox"/> D:\ | Secondary | 931.51 GB | 9.06 GB | 917.41 GB |
| <input checked="" type="checkbox"/> G:\ | Games | 931.51 GB | 43.82 GB | 888.72 GB |

Help Create Cancel Close

Vizsgálatok programokkal

AIDA64_Engineer:

Reportokat lehet készíteni a rendszerhez kapcsolt hardverek-ről, szoftverekről, driverekről, háttértárakról, GPU/CPU -ról, és a RAM-ról is.



AIDA64 Engineer(Csak az összefoglaló része)

| | |
|------------------|---|
| Version | AIDA64 v6.32.5600 |
| Benchmark Module | 4.5.841.8-x64 |
| Homepage | http://www.aida64.com/ |
| Report Type | Report Wizard [TRIAL VERSION] |

| | |
|------------------|--|
| Computer | DESKTOP-KOH3T6A |
| Generator | Nex |
| Operating System | Microsoft Windows 10 Pro 10.0.19042.804 (Win10 20H2 October 2020 Update) |
| Date | 2021-02-23 |
| Time | 16:04 |

Summary

Computer:

| | |
|-------------------|--|
| Computer Type | ACPI x64-based PC |
| Operating System | Microsoft Windows 10 Pro |
| OS Service Pack | [TRIAL VERSION] |
| Internet Explorer | 11.789.19041.0 |
| Edge | 88.0.705.74 |
| DirectX | DirectX 12.0 |
| Computer Name | DESKTOP-KOH3T6A |
| User Name | Nex |
| Logon Domain | [TRIAL VERSION] |
| Date / Time | 2021-02-23 / 16:04 |

Motherboard:

| | |
|---------------------------------------|--|
| CPU Type | HexaCore Intel Core i5-9400F, 3900 MHz (39 x 100) |
| Motherboard Name | Gigabyte H310M H 2.0 (2 PCI-E x1, 1 PCI-E x16, 2 DDR4 DIMM, Audio, Video, Gigabit LAN) |
| Motherboard Chipset | Intel Kaby Point H310C, Intel Coffee Lake-S |
| System Memory | [TRIAL VERSION] |
| DIMM1: G Skill Aegis F4-3000C16-8GISB | 8 GB DDR4-3000 DDR4 SDRAM (16-18-18-38 @ 1501 MHz) |
| DIMM3: G Skill Aegis F4-3000C16-8GISB | [TRIAL VERSION] |
| BIOS Type | AMI (08/13/2019) |

Display:

| | |
|---------------|---|
| Video Adapter | GeForce GTX 1660 SUPER (6 GB) |
|---------------|---|

| | |
|----------------|---|
| Video Adapter | GeForce GTX 1660 SUPER (6 GB) |
| Video Adapter | GeForce GTX 1660 SUPER (6 GB) |
| Video Adapter | GeForce GTX 1660 SUPER (6 GB) |
| 3D Accelerator | nVIDIA GeForce GTX 1660 Super |
| Monitor | Asus VW195 [19" LCD] (83LMQS020467) |
| Monitor | LG 24MB56 (HDMI) [24" LCD] (220516843009) |

Multimedia:

| | |
|---------------|---|
| Audio Adapter | nVIDIA TU116 HDMI/DP @ nVIDIA TU116 - High Definition Audio Controller |
| Audio Adapter | Realtek ALC887 @ Intel Kaby Point PCH - High Definition Audio Controller (Audio, Voice, Speech) |

Storage:

| | |
|-------------------------|---|
| IDE Controller | Intel(R) 300 Series Chipset Family SATA AHCI Controller |
| Storage Controller | Microsoft Storage Spaces Controller |
| Storage Controller | Xvdd SCSI Miniport |
| Disk Drive | KINGSTON SV300S37A120G (120 GB, SATA-III) |
| Disk Drive | ST1000DM010-2EP102 (1 TB, 7200 RPM, SATA-III) |
| Disk Drive | TOSHIBA DT01ACA100 (1 TB, 7200 RPM, SATA-III) |
| Disk Drive | Xvd (12 GB) |
| SMART Hard Disks Status | OK |

Partitions:

| | |
|------------|-------------------------|
| C: (NTFS) | [TRIAL VERSION] |
| D: (NTFS) | 931.5 GB (8.9 GB free) |
| G: (NTFS) | 931.5 GB (43.8 GB free) |
| Total Size | [TRIAL VERSION] |

Input:

| | |
|----------|---------------------|
| Keyboard | HID Keyboard Device |
| Keyboard | HID Keyboard Device |
| Keyboard | HID Keyboard Device |
| Keyboard | HID Keyboard Device |

| | |
|----------|---------------------|
| Keyboard | HID Keyboard Device |
| Keyboard | HID Keyboard Device |
| Mouse | HID-compliant mouse |
| Mouse | HID-compliant mouse |
| Mouse | HID-compliant mouse |
| Mouse | HID-compliant mouse |
| Mouse | HID-compliant mouse |

Network:

| | |
|---------------------|--|
| Primary IP Address | [TRIAL VERSION] |
| Primary MAC Address | 18-C0-4D-0B-DC-21 |
| Network Adapter | Realtek Gaming GbE Family Controller (192. [TRIAL VERSION]) |
| Network Adapter | TAP-Windows Adapter V9 (10.3 [TRIAL VERSION]) |
| Network Adapter | VirtualBox Host-Only Ethernet Adapter (192. [TRIAL VERSION]) |

Peripherals:

| | |
|-----------------|---|
| Printer | Canon MG4100 series Printer |
| Printer | Fax |
| Printer | Microsoft Print to PDF |
| Printer | Microsoft XPS Document Writer |
| Printer | OneNote (Desktop) |
| Printer | OneNote for Windows 10 |
| USB1 Controller | nVIDIA TU116 - USB Type-C Port Policy Controller |
| USB3 Controller | Intel Kaby Point PCH - USB 3.1 xHCI Host Controller |
| USB3 Controller | nVIDIA TU116 - USB Type-C xHCI Controller |
| USB Device | USB 2.0 Camera |
| USB Device | USB Camera |
| USB Device | USB Composite Device |
| USB Device | USB Composite Device |
| USB Device | USB Composite Device |
| USB Device | USB Composite Device |
| USB Device | USB Input Device |
| USB Device | USB Input Device |
| USB Device | USB Input Device |

| | |
|------------|------------------|
| USB Device | USB Input Device |
| USB Device | USB Input Device |
| USB Device | USB Input Device |
| USB Device | USB Input Device |
| USB Device | USB Input Device |

DMI:

| | |
|-------------------------------|--|
| DMI BIOS Vendor | American Megatrends Inc. |
| DMI BIOS Version | F12 |
| DMI System Manufacturer | Gigabyte Technology Co., Ltd. |
| DMI System Product | H310M H 2.0 |
| DMI System Version | Default string |
| DMI System Serial Number | [TRIAL VERSION] |
| DMI System UUID | [TRIAL VERSION] |
| DMI Motherboard Manufacturer | Gigabyte Technology Co., Ltd. |
| DMI Motherboard Product | H310M H 2.0 |
| DMI Motherboard Version | x.x |
| DMI Motherboard Serial Number | [TRIAL VERSION] |
| DMI Chassis Manufacturer | Default string |
| DMI Chassis Version | Default string |
| DMI Chassis Serial Number | [TRIAL VERSION] |
| DMI Chassis Asset Tag | [TRIAL VERSION] |
| DMI Chassis Type | Desktop Case |

CPU-Z:

A processzorról tudunk egy részletes reportot készíteni. Frekvenciákat, órajelet, memóriát tudunk vele részletesen megvizsgálni, vagy akár egyfajta Benchmark-ot (teljesítménytesztet) is készíthetünk.

Áttekintés:

Benchmark:

The screenshot shows the CPU-Z application window with the 'CPU' tab selected. It displays detailed information about the Intel Core i5-9400F processor, including its code name (Coffee Lake), package (Socket 1151 LGA), technology (14 nm), and core voltage (1.080 V). It also shows the processor's specification (Intel® Core™ i5-9400F CPU @ 2.90GHz), family (6), model (E), stepping (A), and various instructions supported. The 'Clocks (Core #0)' section shows a core speed of 3898.09 MHz, a multiplier of x39.0 (8 - 41), and a bus speed of 99.95 MHz. The 'Cache' section shows L1 Data and L1 Inst. caches of 6 x 32 KBytes (8-way), L2 cache of 6 x 256 KBytes (4-way), and L3 cache of 9 MBytes (12-way). The 'Selection' dropdown is set to 'Socket #1', and 'Cores' and 'Threads' are both set to 6.

The screenshot shows the CPU-Z application window with the 'Bench' tab selected. It displays the results of the CPU benchmark. The 'CPU Single Thread' section shows a score of 2343.9. The 'CPU Multi Thread' section shows a score of 2343.9. The 'Benchmark' dropdown is set to 'Version 17.01.64'. The 'This Processor' dropdown is set to 'Intel® Core™ i5-9400F CPU @ 2.90GHz'. The 'Reference' dropdown is set to '<Please Select>'. The 'Stop' button is highlighted.



A report egy részletét szúrtam be, mert nagyon hosszú lenne egyébként.

| CPU-Z | |
|---------------|-------------------|
| | |
| Binaries | |
| CPU-Z version | 1.95.0.x64 |
| Processors | |
| CPU Groups | 1 |
| CPU Group 0 | 6 CPUs, mask=0x3F |

| | |
|-------------------|---|
| Number of sockets | 1 |
| Number of threads | 6 |

APICs

| | |
|-------------------|----|
| Socket 0 | |
| -- Core 0 (ID 0) | |
| -- Thread 0 | 0 |
| -- Core 1 (ID 2) | |
| -- Thread 1 | 2 |
| -- Core 2 (ID 4) | |
| -- Thread 2 | 4 |
| -- Core 3 (ID 6) | |
| -- Thread 3 | 6 |
| -- Core 4 (ID 8) | |
| -- Thread 4 | 8 |
| -- Core 5 (ID 10) | |
| -- Thread 5 | 10 |

Timers

| | |
|------------|------------|
| ACPI timer | 3.580 MHz |
| Perf timer | 10.000 MHz |
| Sys timer | 1.000 KHz |

Processors Information

| | |
|------------------------|--|
| Socket 1 | ID = 0 |
| Number of cores | 6 (max 6) |
| Number of threads | 6 (max 6) |
| Manufacturer | GenuineIntel |
| Name | Intel Core i5 9400F |
| Codename | Coffee Lake |
| Specification | Intel(R) Core(TM) i5-9400F CPU @ 2.90GHz |
| Package (platform ID) | Socket 1151 LGA (0x1) |
| CPUID | 6.E.A |
| Extended CPUID | 6.9E |
| Core Stepping | U0 |
| Technology | 14 nm |
| TDP Limit | 65.0 Watts |
| Tjmax | 100.0 °C |
| Core Speed | 3400.0 MHz |
| Multiplier x Bus Speed | 34.0 x 100.0 MHz |
| Base frequency (cores) | 100.0 MHz |

| | |
|-----------------------|--|
| Base frequency (ext.) | 100.0 MHz |
| Stock frequency | 2900 MHz |
| Max frequency | 4100 MHz |
| Instructions sets | MMX, SSE, SSE2, SSE3, SSSE3, SSE4.1, SSE4.2, EM64T, VT-x, AES, AVX, AVX2, FMA3 |
| Microcode Revision | 0xB4 |
| L1 Data cache | 6 x 32 KBytes, 8-way set associative, 64-byte line size |
| L1 Instruction cache | 6 x 32 KBytes, 8-way set associative, 64-byte line size |
| L2 cache | 6 x 256 KBytes, 4-way set associative, 64-byte line size |
| L3 cache | 9 MBytes, 12-way set associative, 64-byte line size |
| Max CPUID level | 00000016h |
| Max CPUID ext. level | 80000008h |
| FID/VID Control | yes |

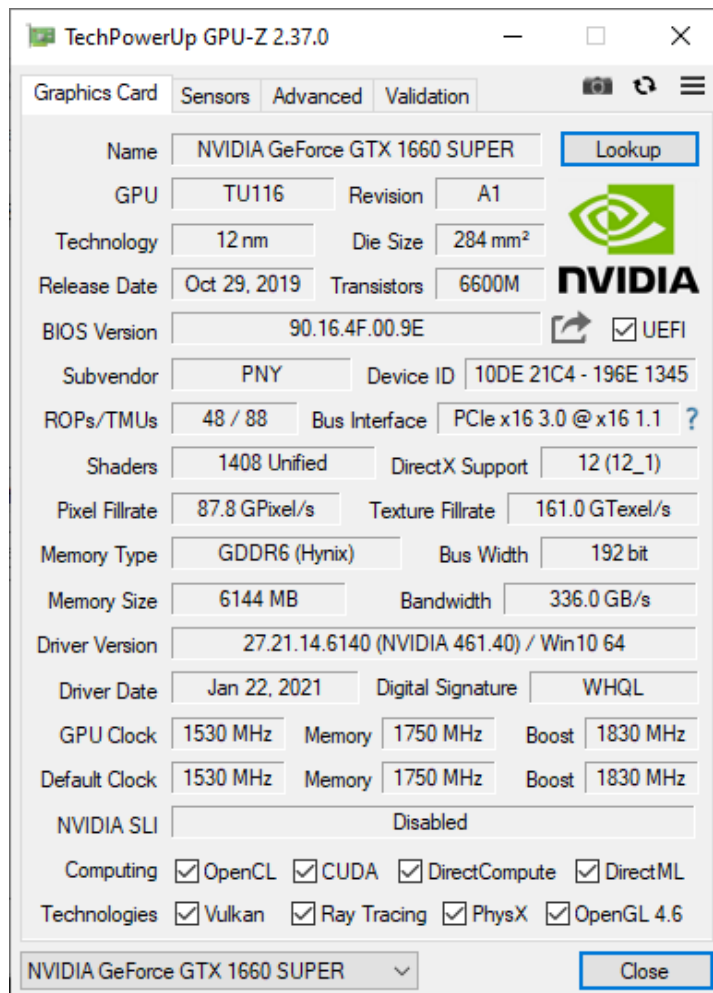
| | |
|-------------------------|--------------------|
| Turbo Mode | supported, enabled |
| Max non-turbo ratio | 29x |
| Max turbo ratio | 41x |
| Max efficiency ratio | 8x |
| Speedshift | Autonomous |
| O/C bins | none |
| Ratio 1 core | 41x |
| Ratio 2 cores | 40x |
| Ratio 3 cores | 40x |
| Ratio 4 cores | 40x |
| Ratio 5 cores | 39x |
| Ratio 6 cores | 39x |
| IA Voltage Mode | PCU adaptive |
| IA Voltage Offset | 0 mV |
| GT Voltage Mode | PCU adaptive |
| GT Voltage Offset | 0 mV |
| LLC/Ring Voltage Mode | PCU adaptive |
| LLC/Ring Voltage Offset | 0 mV |
| Agent Voltage Mode | PCU adaptive |
| Agent Voltage Offset | 0 mV |
| TDP Level | 65.0 W @ 29x |

| | |
|---------------|------------------------------|
| Temperature 0 | 42 degC (107 degF) (Package) |
| Temperature 1 | 41 degC (105 degF) (Core #0) |
| Temperature 2 | 42 degC (107 degF) (Core #1) |
| Temperature 3 | 42 degC (107 degF) (Core #2) |

| | |
|------------------|-----------------------------------|
| Temperature 4 | 41 degC (105 degF) (Core #3) |
| Temperature 5 | 43 degC (109 degF) (Core #4) |
| Temperature 6 | 41 degC (105 degF) (Core #5) |
| Voltage 0 | 0.97 Volts (VID) |
| Voltage 1 | +0.00 Volts (IA Offset) |
| Voltage 2 | +0.00 Volts (GT Offset) |
| Voltage 3 | +0.00 Volts (LLC/Ring Offset) |
| Voltage 4 | +0.00 Volts (System Agent Offset) |
| Power 00 | 19.69 W (Package) |
| Power 01 | 7.80 W (IA Cores) |
| Power 02 | n.a. (GT) |
| Power 03 | 11.89 W (Uncore) |
| Power 04 | n.a. (DRAM) |
| Clock Speed 0 | 3400.00 MHz (Core #0) |
| Clock Speed 1 | 4000.00 MHz (Core #1) |
| Clock Speed 2 | 4000.00 MHz (Core #2) |
| Clock Speed 3 | 3700.00 MHz (Core #3) |
| Clock Speed 4 | 4000.00 MHz (Core #4) |
| Clock Speed 5 | 3100.00 MHz (Core #5) |
| Core 0 max ratio | 41.0 (effective 40.0) |
| Core 1 max ratio | 41.0 (effective 40.0) |
| Core 2 max ratio | 41.0 (effective 40.0) |
| Core 3 max ratio | 41.0 (effective 40.0) |
| Core 4 max ratio | 41.0 (effective 40.0) |
| Core 5 max ratio | 41.0 (effective 40.0) |

GPU-Z:

A GPU-ról ír hasznos információkat. Szenzorokat vizsgálhatunk meg valósidejűleg frissítve. Készíthetünk ezekről a szenzorokról reportot is.



Date , GPU Clock [MHz] , Memory Clock [MHz] , GPU Temperature [°C] , Hot Spot [°C] , Fan Speed (%) [%] , Fan Speed (RPM) [RPM] , Memory Used [MB] , GPU Load [%] , Memory Controller Load [%] , Video Engine Load [%] , Bus Interface Load [%] , Board Power Draw [W] , GPU Chip Power Draw [W] , PCIe Slot Power [W] , PCIe Slot Voltage [V] , 8-Pin #1 Power [W] , 8-Pin #1 Voltage [V] , Power Consumption (%) [% TDP] , PerfCap Reason [] , GPU Voltage [V] , CPU Temperature [°C] , System Memory Used [MB] ,

2021-02-23 16:13:54 , 300.0 , 101.3 , 38.7 , 50.2 , 32 ,
1044 , 838 , 9 , 5 , 0 , 1 , 12.1 ,
2.4 , 9.7 , 12.4 , 2.4 , 12.5 , 9.7 , 16 ,
0.6250 , 51.0 , 9125 ,