Operációs rendszerek BSc

3. gyakorlat

2021.02.25.

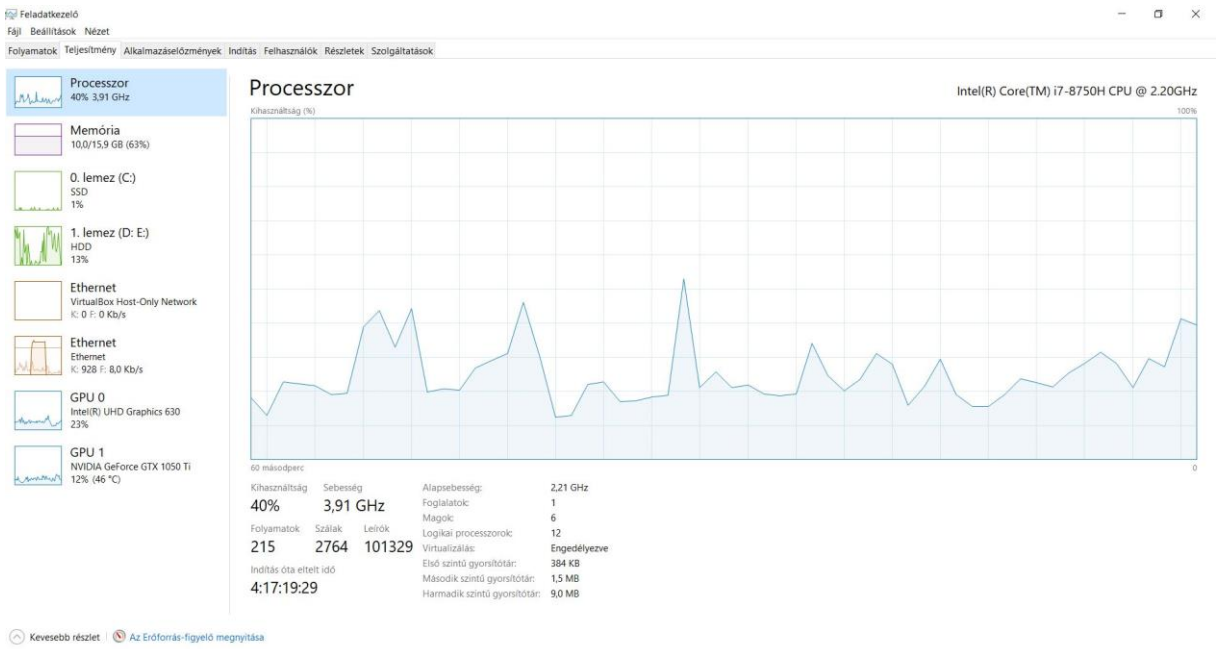
Készítette:

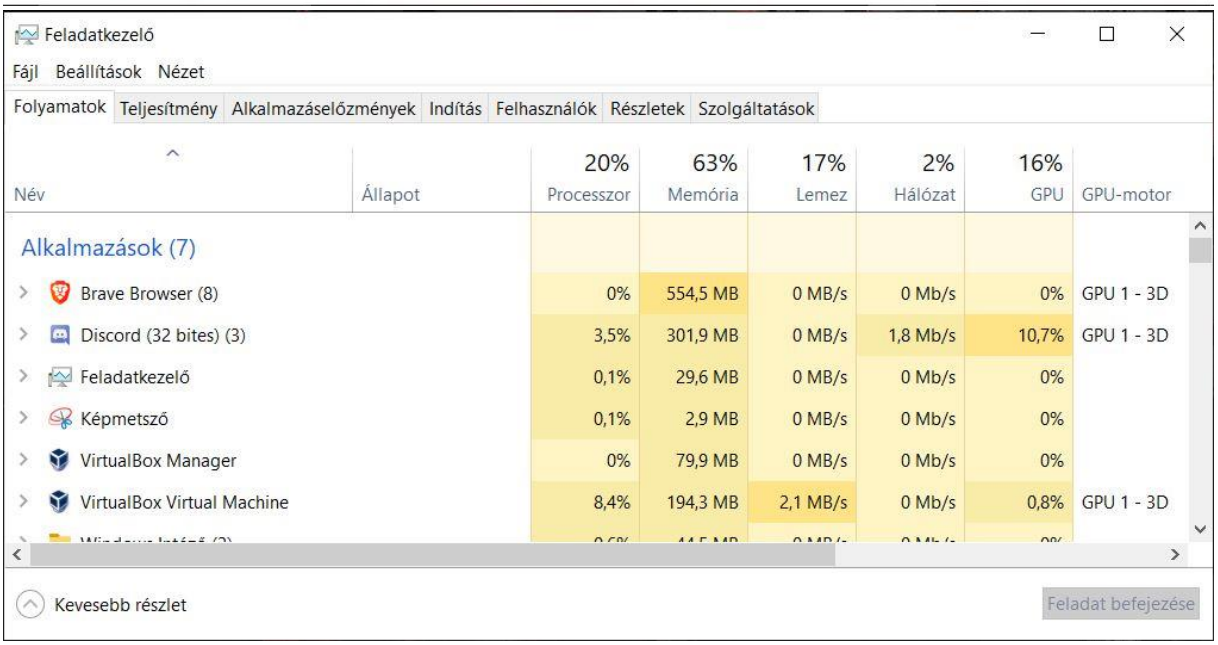
Csősz Péter BSc

Programtervező informatikus

NORS38

1. feladat: Windows belső működésének tanulmányozása



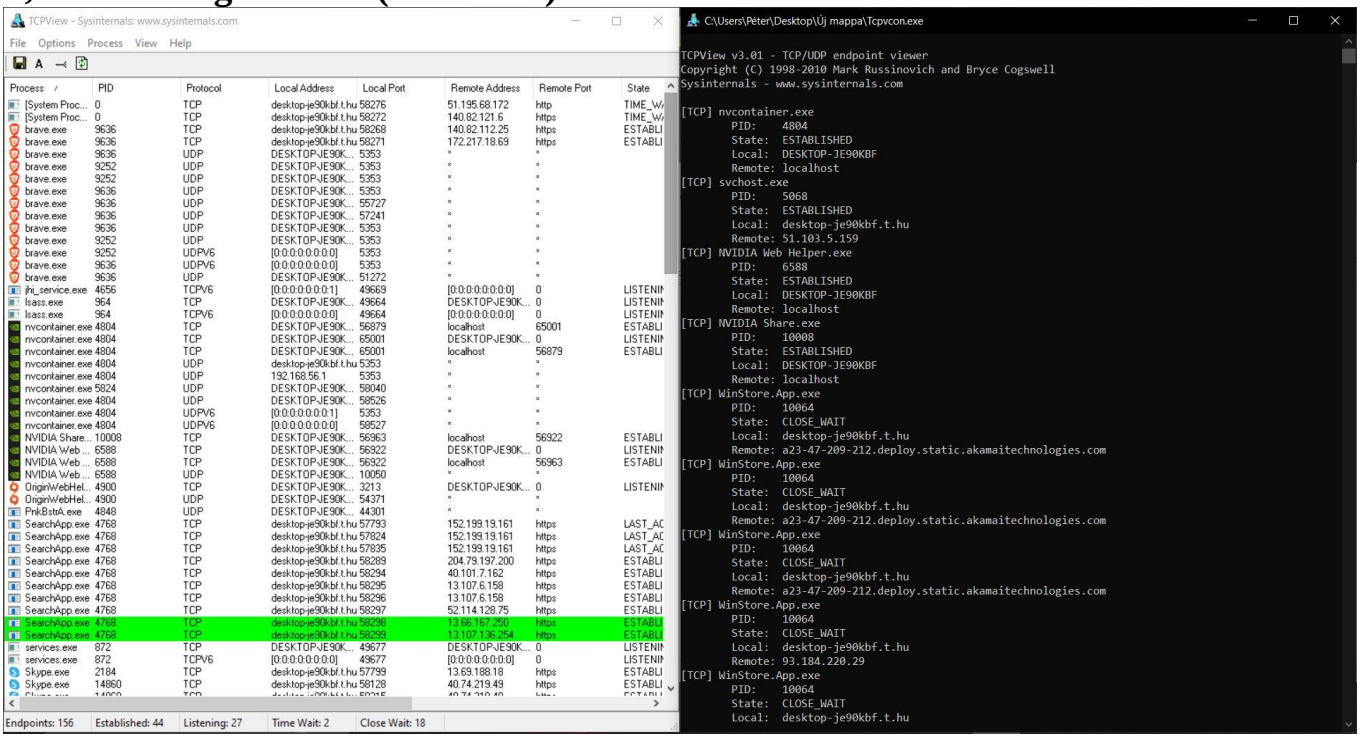


2.Feladat: A Sysinternals Suite programcsomag tanulmányozása.

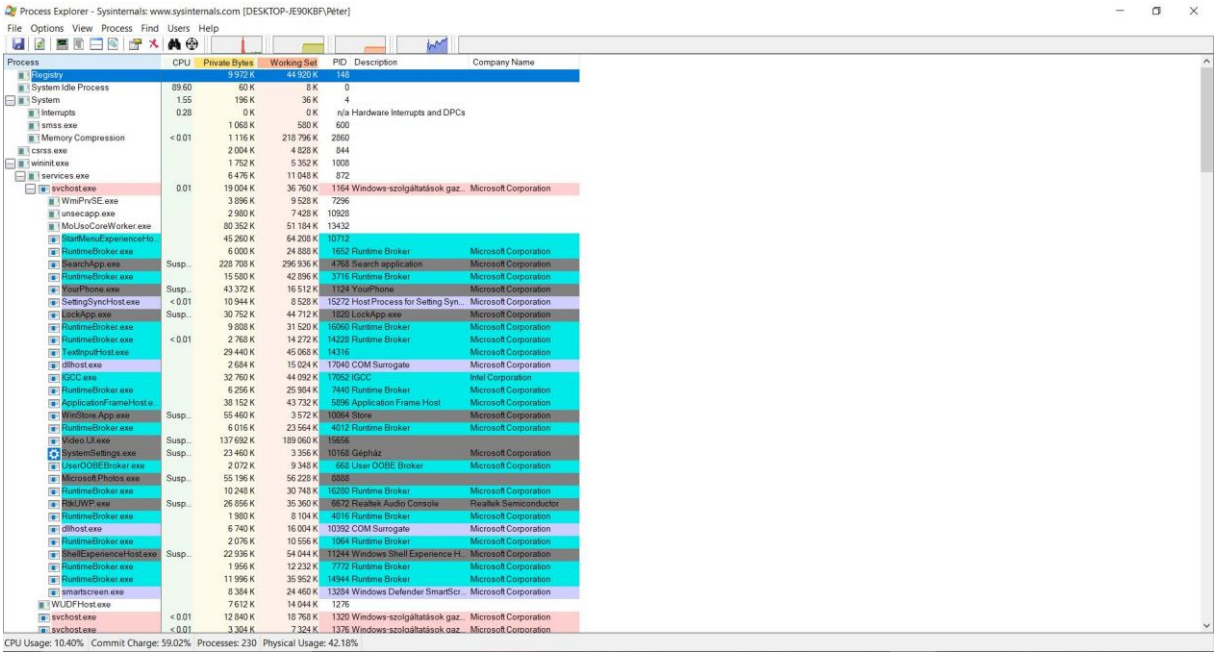
a, File and Disk Utilities (Disk2vhd)

Nem indul el.

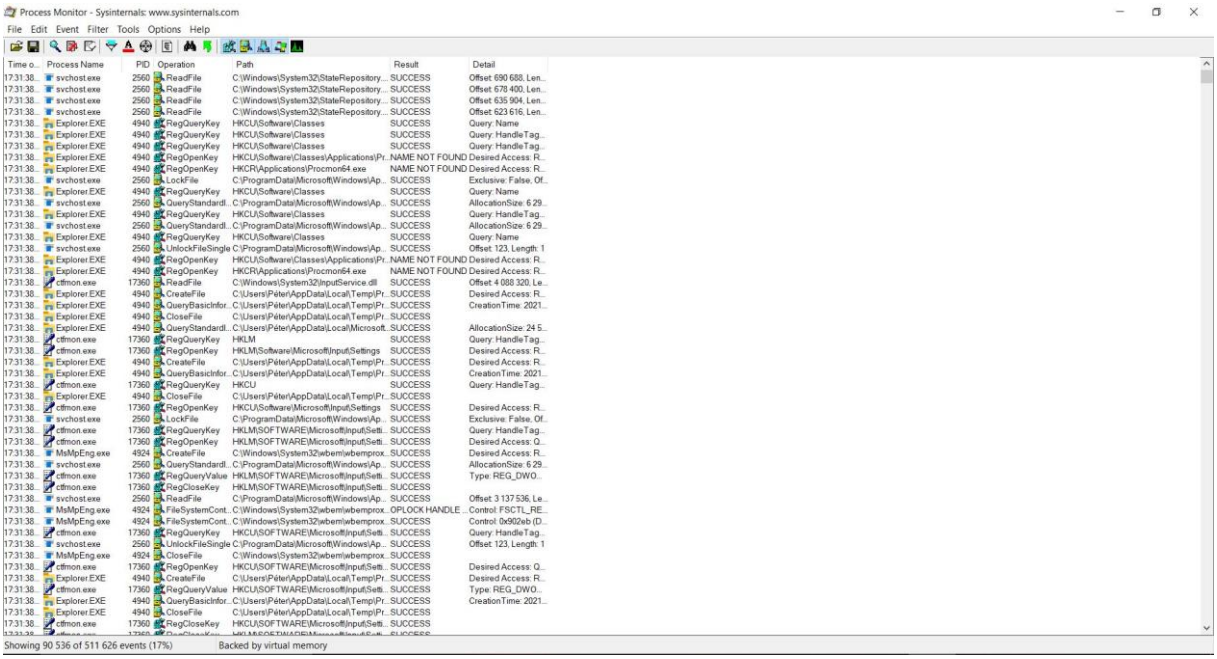
b, Networking Utilities (TCPView)



c, Process Explorer v16.32



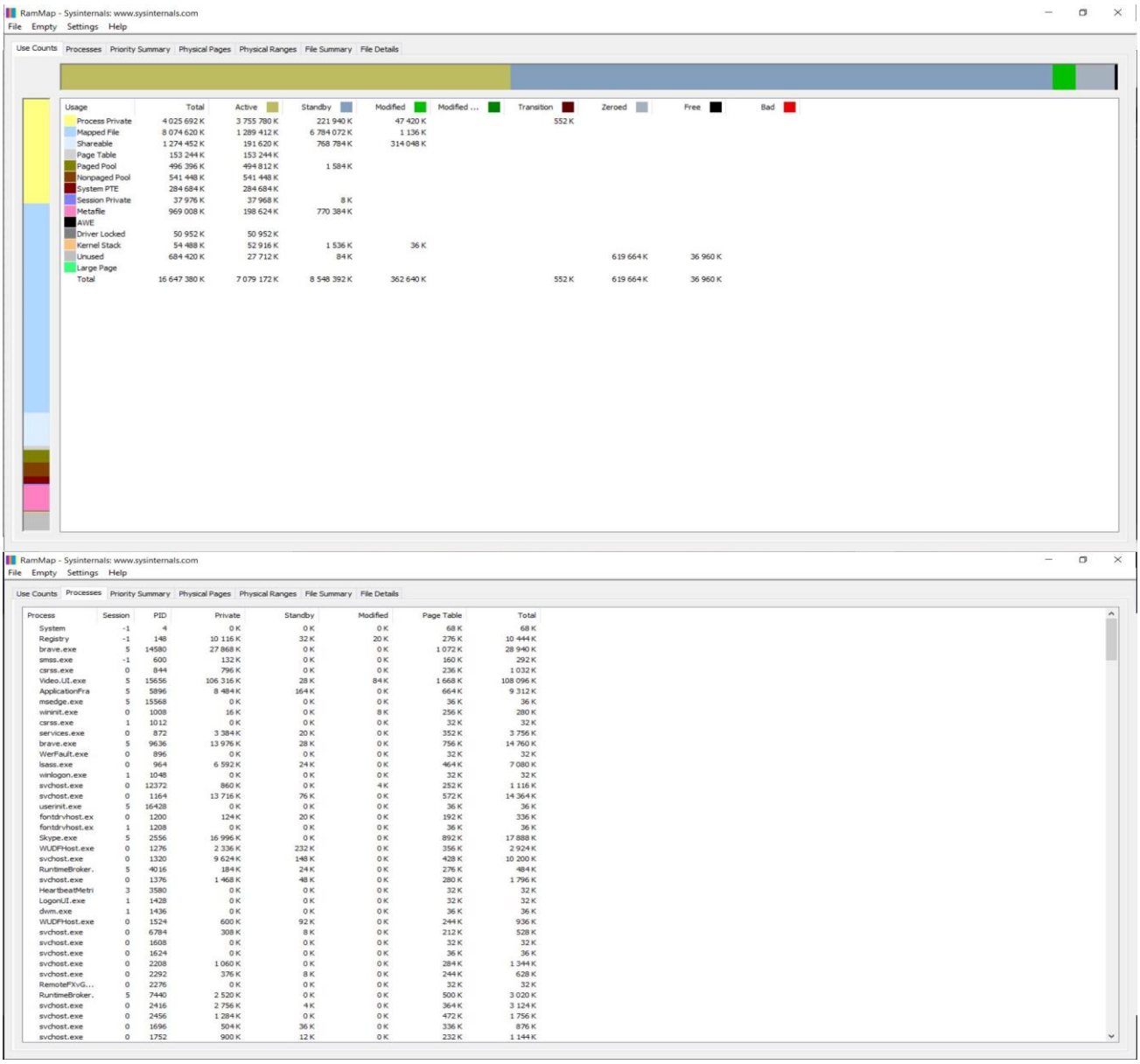
Process Monitor



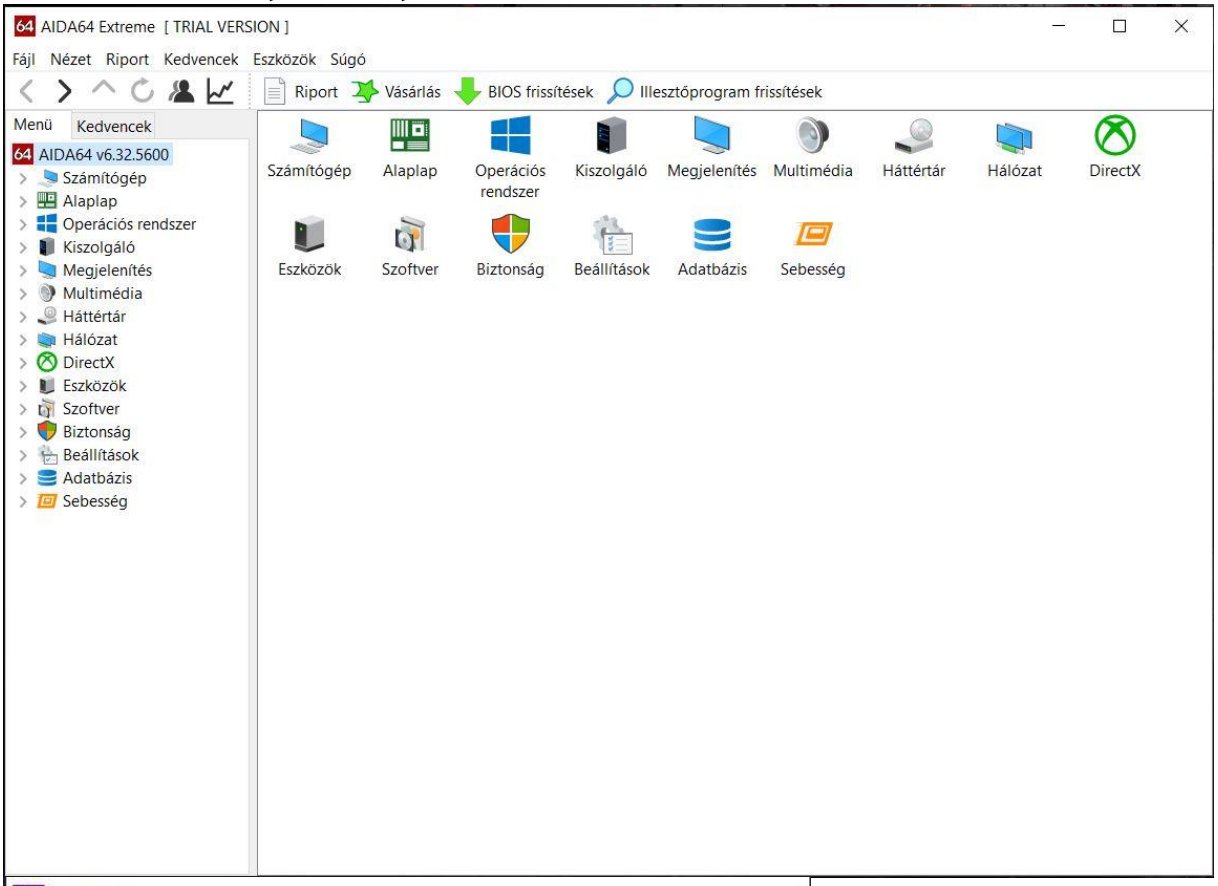
d, Security Utilities (LogonSession)

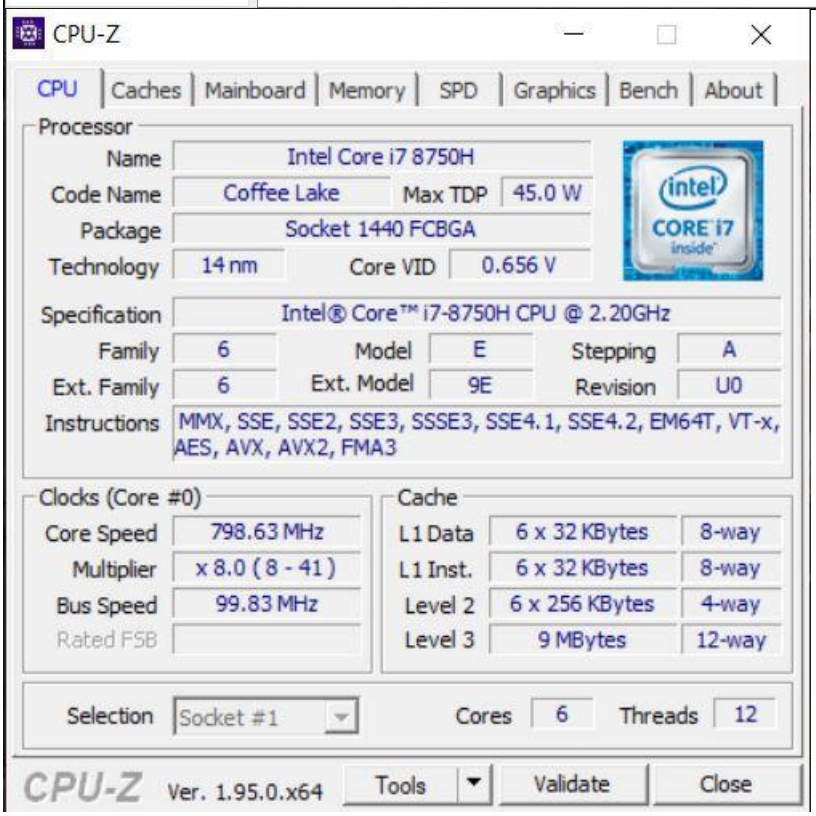
Elindulás után leáll.

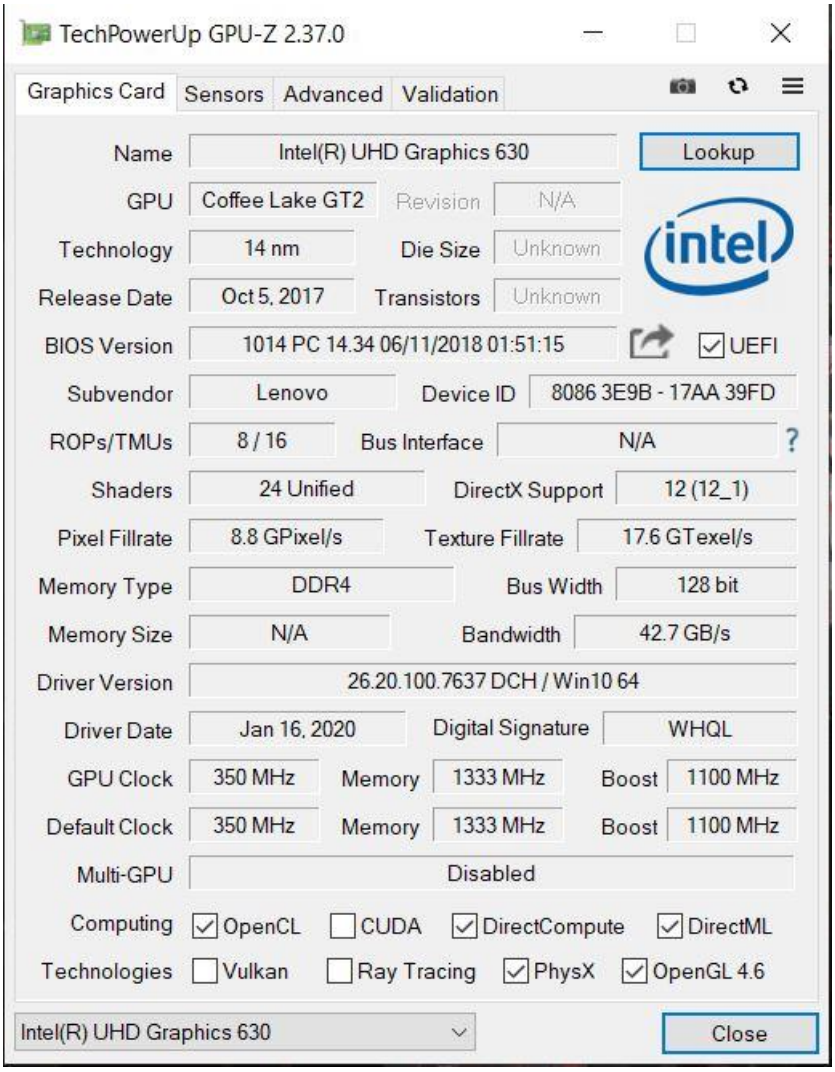
e, Information Utilities (RAMMap)

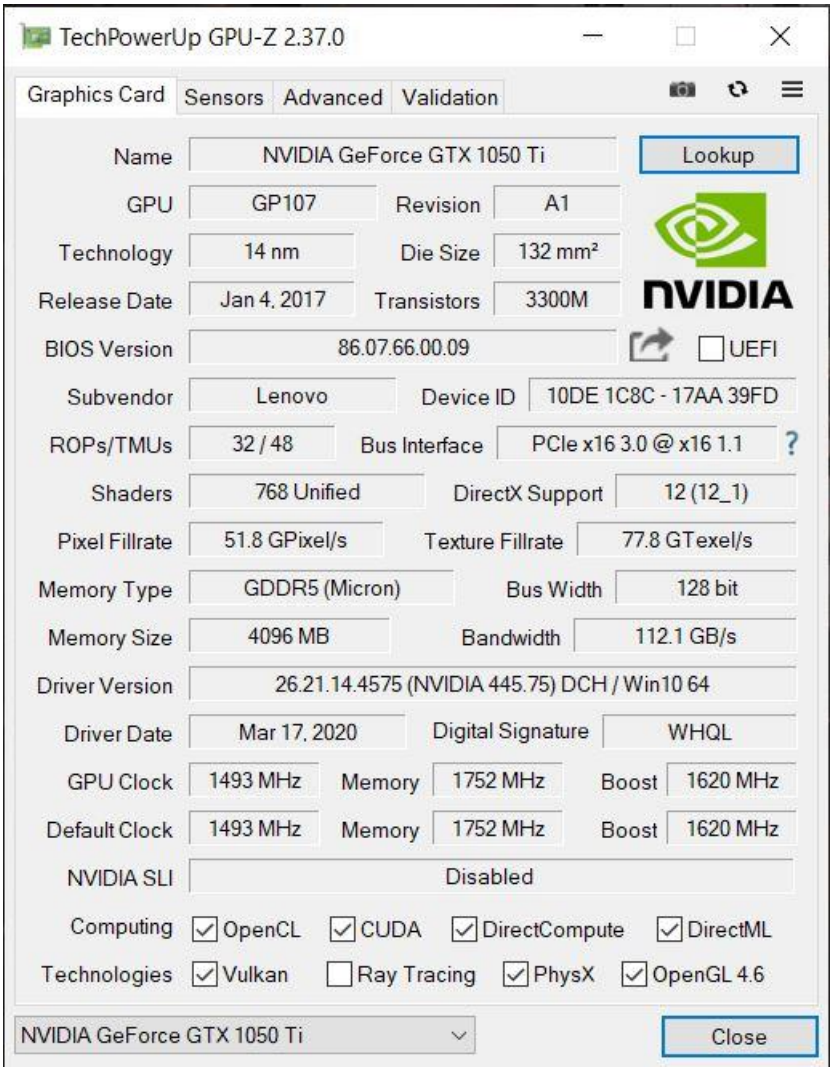


3. feladat: AIDA64, CPU-Z, GPU-Z






TechPowerUp GPU-Z 2.37.0
Graphics Card
Sensors
Advanced
Validation
Name
Intel(R) UHD Graphics 630
Lookup
GPU
Coffee Lake GT2
Revision
N/A
Technology
14 nm
Die Size
Unknown
Release Date
Oct 5, 2017
Transistors
Unknown
BIOS Version
1014 PC 14.34 06/11/2018 01:51:15
UEFI
Subvendor
Lenovo
Device ID
8086 3E9B - 17AA 39FD
ROPs/TMUs
8 / 16
Bus Interface
N/A
Shaders
24 Unified
DirectX Support
12 (12_1)
Pixel Fillrate
8.8 GPixel/s
Texture Fillrate
17.6 GTexel/s
Memory Type
DDR4
Bus Width
128 bit
Memory Size
N/A
Bandwidth
42.7 GB/s
Driver Version
26.20.100.7637 DCH / Win10 64
Driver Date
Jan 16, 2020
Digital Signature
WHQL
GPU Clock
350 MHz
Memory
1333 MHz
Boost
1100 MHz
Default Clock
350 MHz
Memory
1333 MHz
Boost
1100 MHz
Multi-GPU
Disabled
Computing
OpenCL
CUDA
DirectCompute
DirectML
Technologies
Vulkan
Ray Tracing
PhysX
OpenGL 4.6
Intel(R) UHD Graphics 630
Close


TechPowerUp GPU-Z 2.37.0
Graphics Card
Sensors
Advanced
Validation
Name
NVIDIA GeForce GTX 1050 Ti
Lookup
GPU
GP107
Revision
A1
Technology
14 nm
Die Size
132 mm²
Release Date
Jan 4, 2017
Transistors
3300M
NVIDIA
BIOS Version
86.07.66.00.09
UEFI
Subvendor
Lenovo
Device ID
10DE 1C8C - 17AA 39FD
ROPs/TMUs
32 / 48
Bus Interface
PCIe x16 3.0 @ x16 1.1
Shaders
768 Unified
DirectX Support
12 (12_1)
Pixel Fillrate
51.8 GPixel/s
Texture Fillrate
77.8 GTexel/s
Memory Type
GDDR5 (Micron)
Bus Width
128 bit
Memory Size
4096 MB
Bandwidth
112.1 GB/s
Driver Version
26.21.14.4575 (NVIDIA 445.75) DCH / Win10 64
Driver Date
Mar 17, 2020
Digital Signature
WHQL
GPU Clock
1493 MHz
Memory
1752 MHz
Boost
1620 MHz
Default Clock
1493 MHz
Memory
1752 MHz
Boost
1620 MHz
NVIDIA SLI
Disabled
Computing
OpenCL
CUDA
DirectCompute
DirectML
Technologies
Vulkan
Ray Tracing
PhysX
OpenGL 4.6
NVIDIA GeForce GTX 1050 Ti
Close