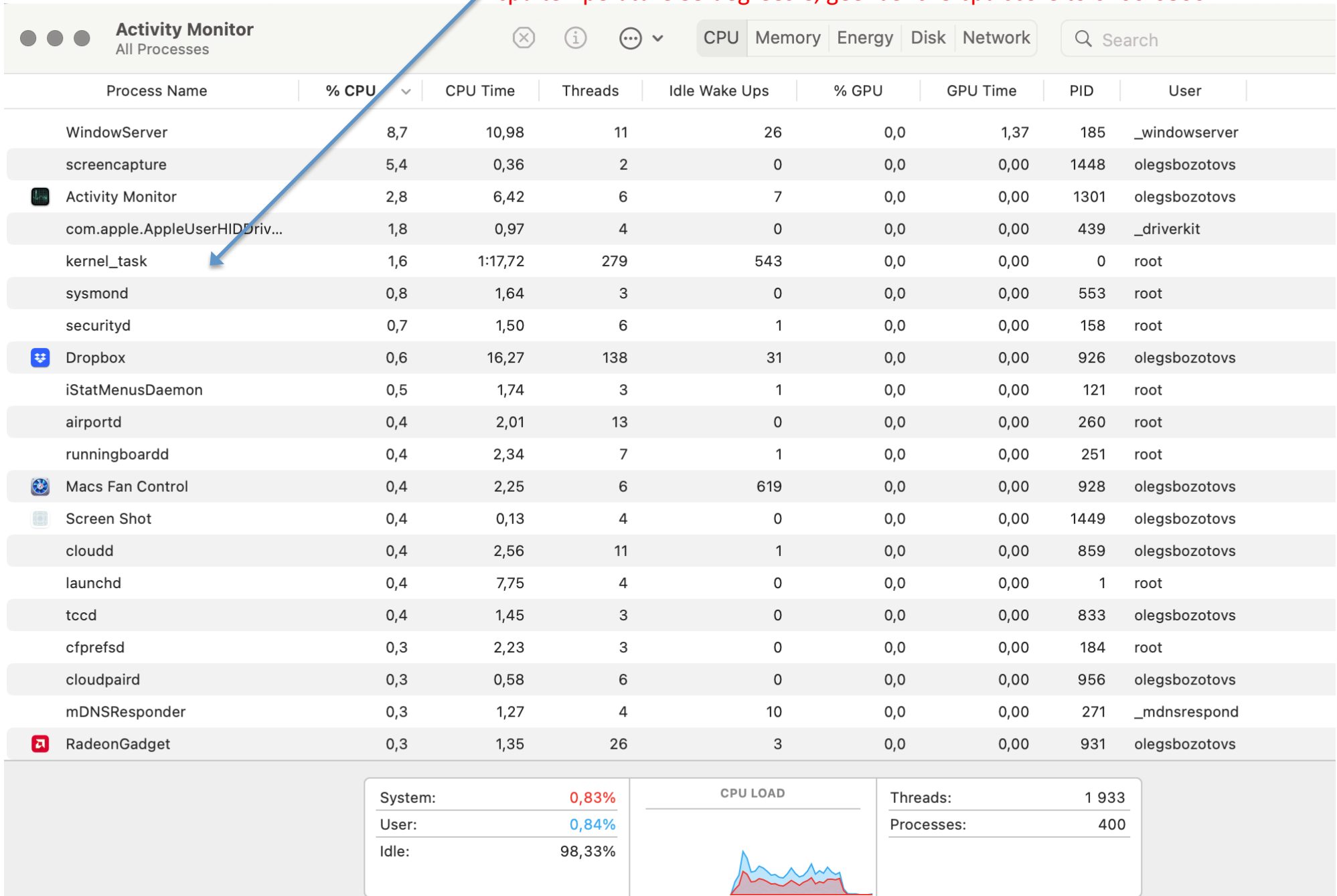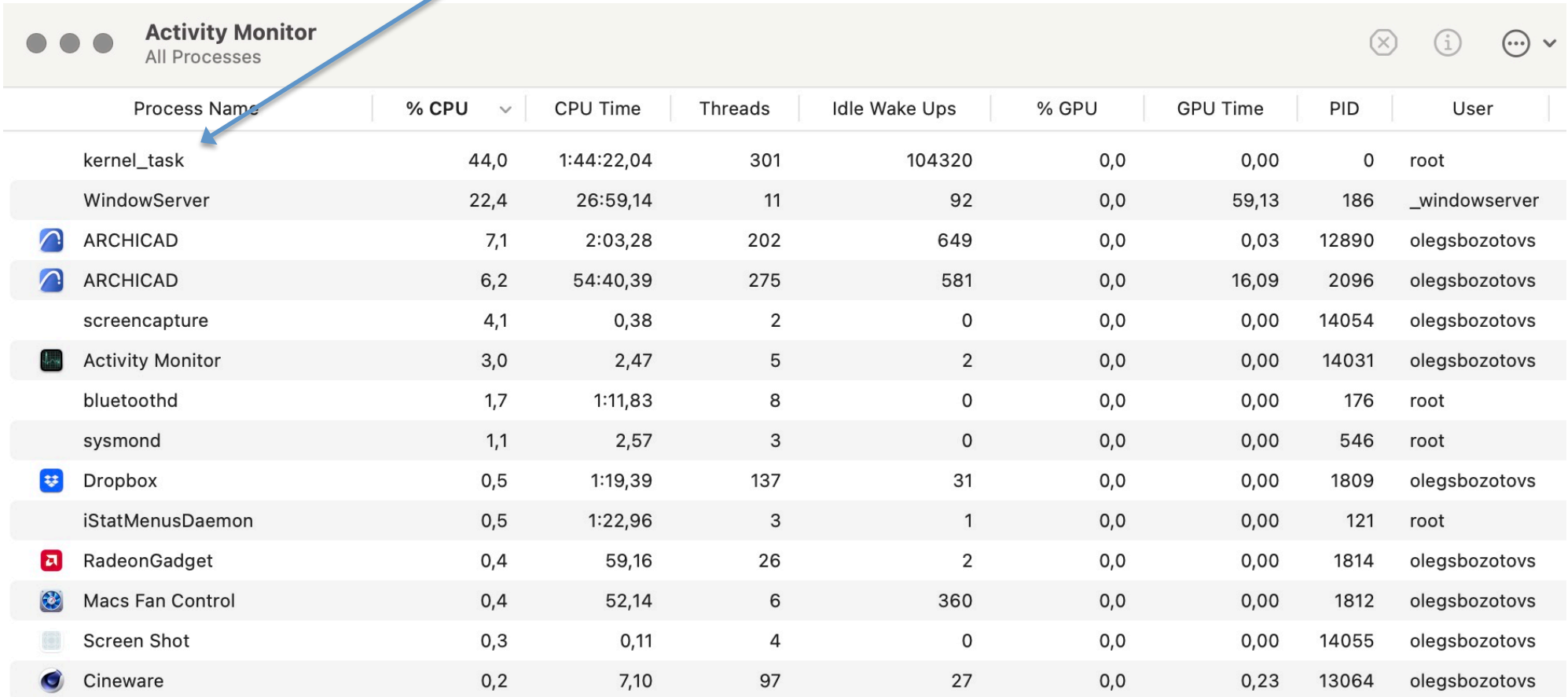# MacPro 4.1/5.1 dual or single CPU with RadeonPro W5700

Normal process, with all OC and GPU RX570, RX580, or RadeonProW5500
cpu temperature 35 degrees C, geekbench5 cpu score to 6700-6800

Activity Monitor
All Processes

⊗ ⓘ ••• ⌄   CPU Memory Energy Disk Network   🔍 Search

Process Name	% CPU ⌄	CPU Time	Threads	Idle Wake Ups	% GPU	GPU Time	PID	User
WindowServer	8,7	10,98	11	26	0,0	1,37	185	_windowserver
screencapture	5,4	0,36	2	0	0,0	0,00	1448	olegsbozotovs
Activity Monitor	2,8	6,42	6	7	0,0	0,00	1301	olegsbozotovs
com.apple.AppleUserHIDDriv...	1,8	0,97	4	0	0,0	0,00	439	_driverkit
kernel_task	1,6	1:17,72	279	543	0,0	0,00	0	root
sysmond	0,8	1,64	3	0	0,0	0,00	553	root
securityd	0,7	1,50	6	1	0,0	0,00	158	root
Dropbox	0,6	16,27	138	31	0,0	0,00	926	olegsbozotovs
iStatMenusDaemon	0,5	1,74	3	1	0,0	0,00	121	root
airportd	0,4	2,01	13	0	0,0	0,00	260	root
runningboardd	0,4	2,34	7	1	0,0	0,00	251	root
Macs Fan Control	0,4	2,25	6	619	0,0	0,00	928	olegsbozotovs
Screen Shot	0,4	0,13	4	0	0,0	0,00	1449	olegsbozotovs
cloudd	0,4	2,56	11	1	0,0	0,00	859	olegsbozotovs
launchd	0,4	7,75	4	0	0,0	0,00	1	root
tccd	0,4	1,45	3	0	0,0	0,00	833	olegsbozotovs
cfprefsd	0,3	2,23	3	0	0,0	0,00	184	root
cloudpaird	0,3	0,58	6	0	0,0	0,00	956	olegsbozotovs
mDNSResponder	0,3	1,27	4	10	0,0	0,00	271	_mdnsrespond
RadeonGadget	0,3	1,35	26	3	0,0	0,00	931	olegsbozotovs

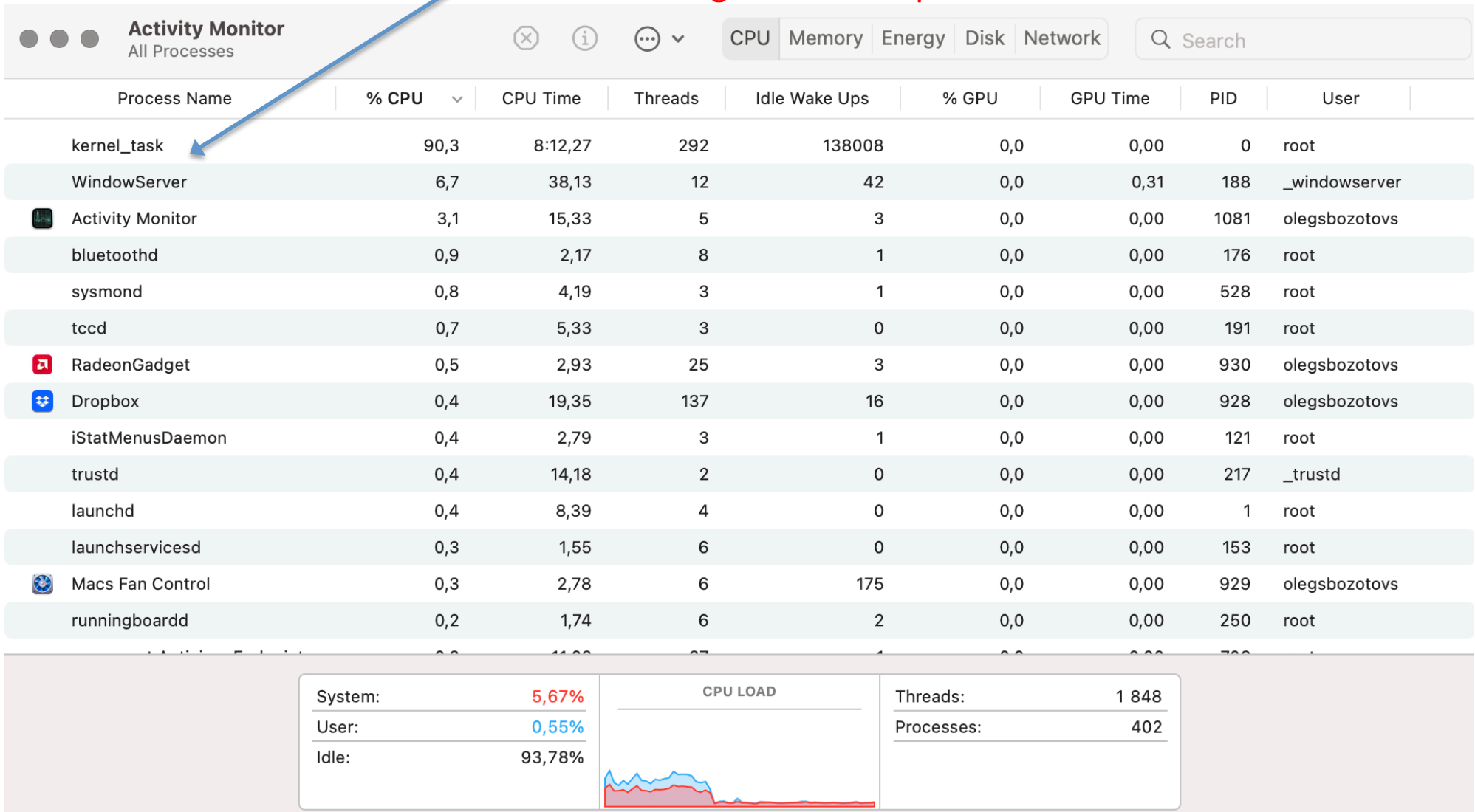| System:	0,83%	CPU LOAD	Threads:	1 933
User:	0,84%		Processes:	400
Idle:	98,33%			

Abnormal continuous process, with RadeonProW5700 WITH ALL OpenCore versions – (at least from 0.5.9) raises the temperature of processors by 10 degrees C, reduces geekbench5 cpu score to 6400
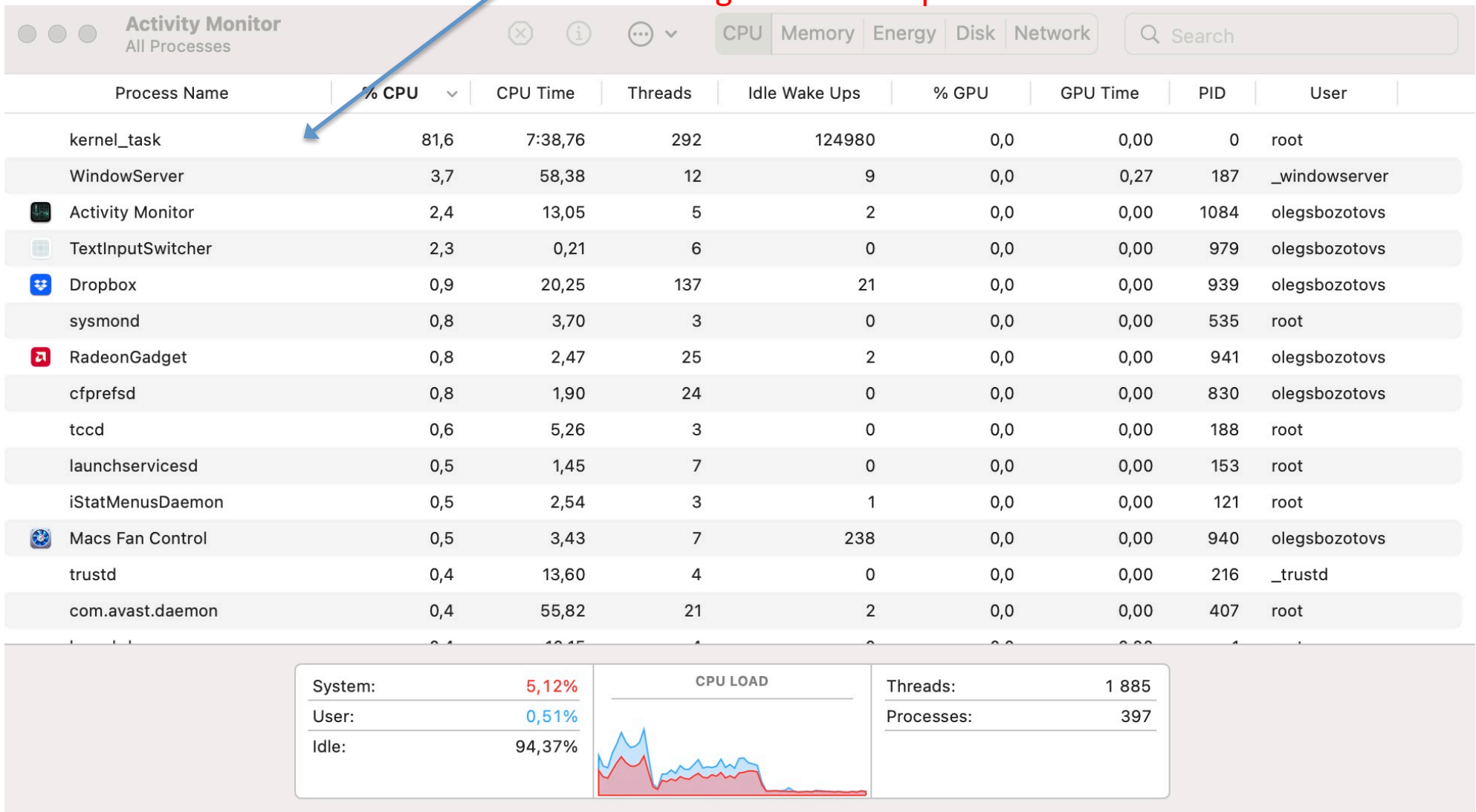
Activity Monitor
All Processes

Process Name	% CPU	CPU Time	Threads	Idle Wake Ups	% GPU	GPU Time	PID	User
kernel_task	44,0	1:44:22,04	301	104320	0,0	0,00	0	root
WindowServer	22,4	26:59,14	11	92	0,0	59,13	186	_windowserver
ARCHICAD	7,1	2:03,28	202	649	0,0	0,03	12890	olegsbozotovs
ARCHICAD	6,2	54:40,39	275	581	0,0	16,09	2096	olegsbozotovs
screencapture	4,1	0,38	2	0	0,0	0,00	14054	olegsbozotovs
Activity Monitor	3,0	2,47	5	2	0,0	0,00	14031	olegsbozotovs
bluetoothd	1,7	1:11,83	8	0	0,0	0,00	176	root
sysmond	1,1	2,57	3	0	0,0	0,00	546	root
Dropbox	0,5	1:19,39	137	31	0,0	0,00	1809	olegsbozotovs
iStatMenusDaemon	0,5	1:22,96	3	1	0,0	0,00	121	root
RadeonGadget	0,4	59,16	26	2	0,0	0,00	1814	olegsbozotovs
Macs Fan Control	0,4	52,14	6	360	0,0	0,00	1812	olegsbozotovs
Screen Shot	0,3	0,11	4	0	0,0	0,00	14055	olegsbozotovs
Cineware	0,2	7,10	97	27	0,0	0,23	13064	olegsbozotovs

Abnormal continuous process, after installing OC 0.8.1 and full patch,
raises the temperature of processors by 10-15 degrees C,
reduces geekbench5 cpu score to 5900

Activity Monitor
All Processes

CPU | Memory | Energy | Disk | Network

Search

Process Name	% CPU	CPU Time	Threads	Idle Wake Ups	% GPU	GPU Time	PID	User
kernel_task	90,3	8:12,27	292	138008	0,0	0,00	0	root
WindowServer	6,7	38,13	12	42	0,0	0,31	188	_windowserver
Activity Monitor	3,1	15,33	5	3	0,0	0,00	1081	olegsbozotovs
bluetoothd	0,9	2,17	8	1	0,0	0,00	176	root
sysmond	0,8	4,19	3	1	0,0	0,00	528	root
tccd	0,7	5,33	3	0	0,0	0,00	191	root
RadeonGadget	0,5	2,93	25	3	0,0	0,00	930	olegsbozotovs
Dropbox	0,4	19,35	137	16	0,0	0,00	928	olegsbozotovs
iStatMenusDaemon	0,4	2,79	3	1	0,0	0,00	121	root
trustd	0,4	14,18	2	0	0,0	0,00	217	_trustd
launchd	0,4	8,39	4	0	0,0	0,00	1	root
launchservicesd	0,3	1,55	6	0	0,0	0,00	153	root
Macs Fan Control	0,3	2,78	6	175	0,0	0,00	929	olegsbozotovs
runningboardd	0,2	1,74	6	2	0,0	0,00	250	root

System:	5,67%	CPU LOAD	Threads:	1 848
User:	0,55%		Processes:	402
Idle:	93,78%			

continuous process, after installing patch 1,2,3
raises the temperature of processors by 10-15 degrees C
reduces geekbench5 cpu score to 6100

Activity Monitor
All Processes

CPU | Memory | Energy | Disk | Network

Q Search

Process Name	% CPU	CPU Time	Threads	Idle Wake Ups	% GPU	GPU Time	PID	User
kernel_task	81,6	7:38,76	292	124980	0,0	0,00	0	root
WindowServer	3,7	58,38	12	9	0,0	0,27	187	_windowserver
Activity Monitor	2,4	13,05	5	2	0,0	0,00	1084	olegsbozotovs
TextInputSwitcher	2,3	0,21	6	0	0,0	0,00	979	olegsbozotovs
Dropbox	0,9	20,25	137	21	0,0	0,00	939	olegsbozotovs
sysmond	0,8	3,70	3	0	0,0	0,00	535	root
RadeonGadget	0,8	2,47	25	2	0,0	0,00	941	olegsbozotovs
cfprefsd	0,8	1,90	24	0	0,0	0,00	830	olegsbozotovs
tccd	0,6	5,26	3	0	0,0	0,00	188	root
launchservicesd	0,5	1,45	7	0	0,0	0,00	153	root
iStatMenusDaemon	0,5	2,54	3	1	0,0	0,00	121	root
Macs Fan Control	0,5	3,43	7	238	0,0	0,00	940	olegsbozotovs
trustd	0,4	13,60	4	0	0,0	0,00	216	_trustd
com.avast.daemon	0,4	55,82	21	2	0,0	0,00	407	root

System:	5,12%
User:	0,51%
Idle:	94,37%

CPU LOAD

Threads:	1 885
Processes:	397

The difference in CPU performance in geekbench5

CPU `173` Compute `276`

ID	Name		Platform	Architecture		Single-core Score	Multi-core Score
15795402	Apple Inc. MacPro5,1 Intel Xeon X5680 3332 MHz (12 cores)	WINDOWS 10	Windows 64	x86_64	RadeonProW5700	618	6729
15765696	MacPro5,1 Intel Xeon X5680 3330 MHz (12 cores)	OS12.4+OC0.8.1 +kext	macOS 64	x86_64	RX570	651	6756
15765449	MacPro5,1 Intel Xeon X5680 3330 MHz (12 cores)	Mojave	macOS 64	x86_64	RX570	656	6686
15764851	MacPro5,1 Intel Xeon X5680 3330 MHz (12 cores)	OS12.4+OC0.8.1 +1,2,3 patch	macOS 64	x86_64	RadeonProW5700	568	6147
15572836	MacPro5,1 Intel Xeon X5680 3330 MHz (12 cores)	OS12.4+OC0.8.0 +kext	macOS 64	x86_64	RadeonProW5700	559	6459
15537416	MacPro5,1 Intel Xeon X5680 3330 MHz (12 cores)	OS12.4+OC0.8.0 +patch	macOS 64	x86_64	RadeonProW5700	591	6441
15536308	MacPro5,1 Intel Xeon X5680 3330 MHz (12 cores)	OS12.4+OC0.8.0	macOS 64	x86_64	RadeonProW5700	526	6416
15535369	MacPro5,1 Intel Xeon X5680 3330 MHz (12 cores)	OS12.4+OC0.8.1 +patch	macOS 64	x86_64	RadeonProW5700	564	5983

CPU `154` Compute `235`

ID	Name		Platform	Architecture		Single-core Score	Multi-core Score
12144160	MacPro5,1 Intel Xeon X5680 3330 MHz (12 cores)	All OS and OC	macOS 64	x86_64	RX580	652	6759
12124975	MacPro5,1 Intel Xeon X5680 3330 MHz (12 cores)	All OS and OC	macOS 64	x86_64	RadeonProW5700	541	6405

my other mac pro 4.1/5.1 single X5680 with other graphics card (RX580 or RadeonProW5500)

| 11805905 | MacPro5,1 Intel Xeon X5680 3330 MHz (6 cores) | macOS 64 | x86_64 | RX580 or W5500 | 671 | 3485 |

the same continuous process appears and the difference in CPU performance is obtained
If I inserted RadeonPro W5700

| 8342760 | MacPro5,1 Intel Xeon X5680 3330 MHz (6 cores) | macOS 64 | x86_64 | RadeonProW5700 | 545 | 3175 |

mac pro 4.1/5.1 dual X5680 with other graphics card (RX580 or RadeonProW5500)

| 15765696 | MacPro5,1 Intel Xeon X5680 3330 MHz (12 cores) | macOS 64 | x86_64 | RX580 or W5500 | 651 | 6756 |

Due to continuous process there is the difference in CPU performance
If I inserted RadeonPro W5700

| 12869514 | MacPro5,1 Intel Xeon X5680 3330 MHz (12 cores) | macOS 64 | x86_64 | RadeonProW5700 | 589 | 6445 |

but when loading windows 10, the CPU performance are restored to normal

| 15795402 | Apple Inc. MacPro5,1 Intel Xeon X5680 3332 MHz (12 cores) | Windows 64 | x86_64 | RX580 or W5500 | 618 | 6729 |

The GPU performance of my RadeonPro W5700
does not differ from the tests that I found on the Internet

Geekbench 5 `448`   Geekbench 4 `96`   Geekbench 3 `0`   Geekbench 2 `0`

CPU `173`   Compute `275`

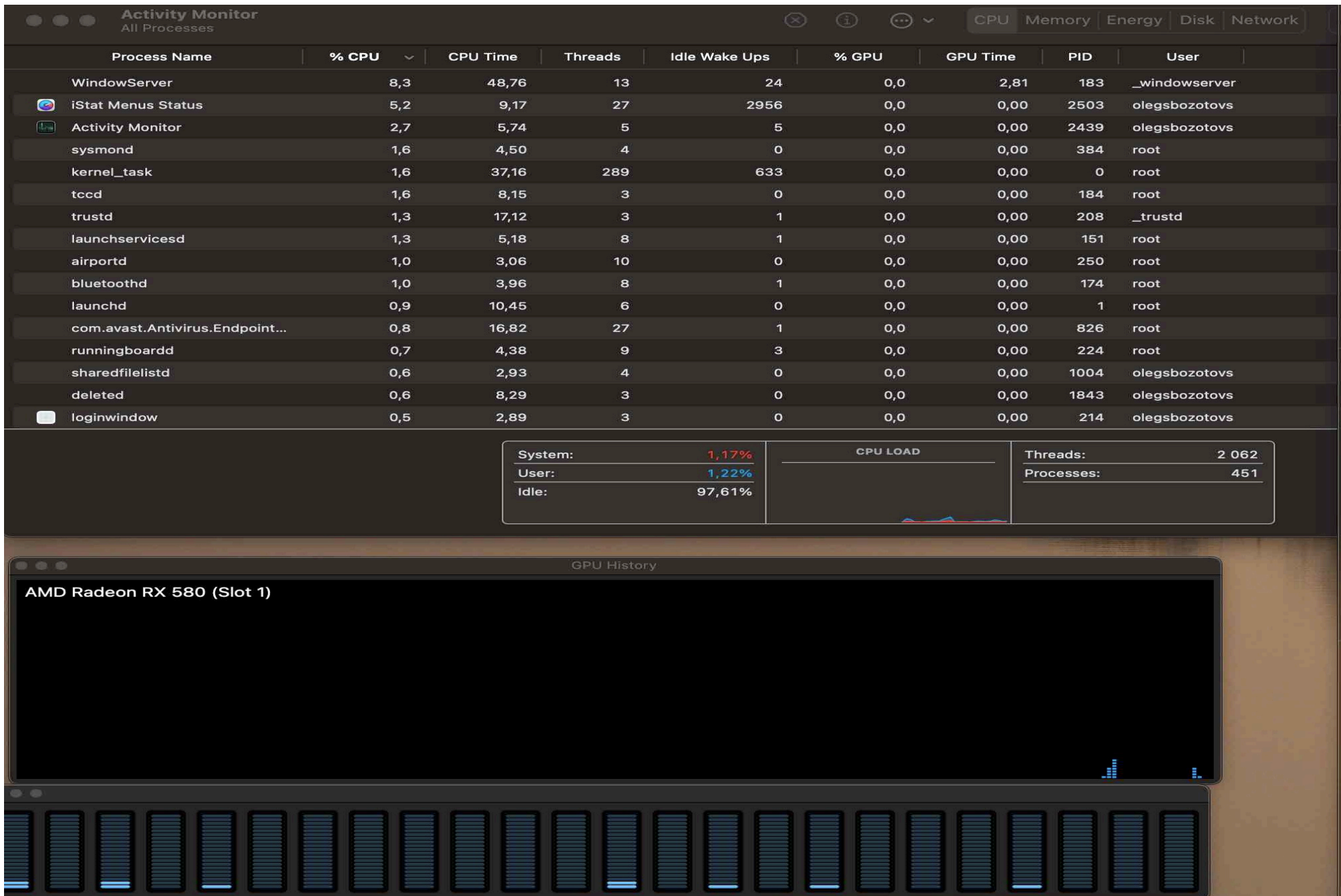| ID ▾	Model		Compute API	Platform	Compute Score
5071744	Apple Inc. MacPro5,1 AMD Radeon Pro W5700	**My RadeonPro W5700 WINDOWS 10**	OpenCL	Windows 64-bit	70237
5010265	MacPro5,1 AMD Radeon Pro W5700		Metal	macOS 64-bit	67976
5010258	MacPro5,1 AMD Radeon Pro W5700 Compute Engine		OpenCL	macOS 64-bit	59385
5007561	MacPro5,1 AMD Radeon Pro W5700		Metal	macOS 64-bit	67439
5007555	MacPro5,1 AMD Radeon Pro W5700 Compute Engine		OpenCL	macOS 64-bit	58162
5001306	MacPro5,1 AMD Radeon Pro W5700		Metal	macOS 64-bit	69071
5001302	MacPro5,1 AMD Radeon Pro W5700 Compute Engine		OpenCL	macOS 64-bit	61852

My RadeonPro W5700
Mac OS 12.4
With different OC config

The difference that occurs with a simple replacement of the GPU-WITH AMDRadeonProW5700 there is a permanent abnormal process

Process Name	% CPU	CPU Time	Threads	Idle Wake Ups	% GPU	GPU Time	PID	User
kernel_task	41,7	7:15,22	301	94866	0,0	0,00	0	root
WindowServer	17,2	28,21	12	73	1,0	0,58	183	_windowserver
iStat Menus Status	5,7	20,05	26	2334	0,0	0,00	1655	olegsbozotovs
Activity Monitor	3,1	13,96	5	2	0,0	0,00	1610	olegsbozotovs
bluetoothd	1,7	3,19	8	0	0,0	0,00	174	root
tccd	1,3	6,90	3	0	0,0	0,00	184	root
trustd	1,3	17,64	3	0	0,0	0,00	214	_trustd
sysmond	1,2	4,78	3	0	0,0	0,00	383	root
launchservicesd	0,8	3,99	8	1	0,0	0,00	151	root
launchd	0,7	8,98	7	1	0,0	0,00	1	root
iStatMenusDaemon	0,5	2,74	4	1	0,0	0,00	117	root
Macs Fan Control	0,5	2,63	6	385	0,0	0,00	1027	olegsbozotovs
com.avast.Antivirus.Endpoint...	0,5	13,25	27	2	0,0	0,00	814	root
runningboardd	0,4	3,24	8	2	0,0	0,00	216	root
sharedfilelistd	0,4	2,22	3	0	0,0	0,00	975	olegsbozotovs
cfprefsd	0,4	3,20	4	1	0,0	0,00	915	olegsbozotovs

System:	3,67%	CPU LOAD	Threads:	1 952
User:	1,18%		Processes:	412
Idle:	95,15%			

The difference that occurs with a simple replacement of the GPU-
WITH Sapphire RX580 (as well as with RX570 and with RadeonProW5500) There is no abnormal process

Process Name	% CPU	CPU Time	Threads	Idle Wake Ups	% GPU	GPU Time	PID	User
WindowServer	8,3	48,76	13	24	0,0	2,81	183	_windowserver
iStat Menus Status	5,2	9,17	27	2956	0,0	0,00	2503	olegsbozotovs
Activity Monitor	2,7	5,74	5	5	0,0	0,00	2439	olegsbozotovs
sysmond	1,6	4,50	4	0	0,0	0,00	384	root
kernel_task	1,6	37,16	289	633	0,0	0,00	0	root
tccd	1,6	8,15	3	0	0,0	0,00	184	root
trustd	1,3	17,12	3	1	0,0	0,00	208	_trustd
launchservicesd	1,3	5,18	8	1	0,0	0,00	151	root
airportd	1,0	3,06	10	0	0,0	0,00	250	root
bluetoothd	1,0	3,96	8	1	0,0	0,00	174	root
launchd	0,9	10,45	6	0	0,0	0,00	1	root
com.avast.Antivirus.Endpoint...	0,8	16,82	27	1	0,0	0,00	826	root
runningboardd	0,7	4,38	9	3	0,0	0,00	224	root
sharedfilelistd	0,6	2,93	4	0	0,0	0,00	1004	olegsbozotovs
deleted	0,6	8,29	3	0	0,0	0,00	1843	olegsbozotovs
loginwindow	0,5	2,89	3	0	0,0	0,00	214	olegsbozotovs

System:	1,17%		CPU LOAD	Threads:	2 062
User:	1,22%			Processes:	451
Idle:	97,61%				

GPU History

AMD Radeon RX 580 (Slot 1)

Hardware
- ATA
- Apple Pay
- Audio
- Bluetooth
- Camera
- Card Reader
- Controller
- Diagnostics
- Disc Burning
- Ethernet
- Fibre Channel
- FireWire
- Graphics/Displays
- Memory
- NVMExpress
- **PCI**
- Parallel SCSI
- Power
- Printers
- SAS
- SATA
- SPI
- Storage
- Thunderbolt/USB4
- USB

Network
- Firewall
- Locations
- Volumes
- WWAN
- Wi-Fi

Software
- Accessibility
- Applications
- Developer
- Disabled Software
- Extensions
- Fonts
- Frameworks
- Installations
- Language & Region
- Legacy Software
- Logs
- Managed Client
- Preference Panes
- Printer Software
- Profiles
- Raw Support
- SmartCards
- Startup Items
- Sync Services

Card	Type	Driver Installed	Slot
Alpine Ridge Thunderbolt 3 NHI	Thunderbolt-Controller	Yes	Slot-4
Alpine Ridge USB 3.1	USB-Controller	Yes	Slot-4
AMD Radeon Pro W5700	gpu-controller	Yes	Slot-1@16,0,0
pci1b21,612	AHCI Controller	Yes	Thunderbolt@145,0,0
pci144d,a808	NVM Express Controller	Yes	Slot-2
pci1002,7314	Unknown	No	Slot-1@16,0,3
pci1002,7316	USB eXtensible Host Controller	Yes	Slot-1@16,0,2
pci1002,ab38	Audio Device	Yes	Slot-1@16,0,1
pcic0a9,540a	NVM Express Controller	Yes	Slot-3

AMD Radeon Pro W5700:

Name:	ATY_GPU
Type:	gpu-controller
Driver Installed:	Yes
MSI:	Yes
Bus:	PCI
Slot:	Slot-1@16,0,0
Vendor ID:	0x1002
Device ID:	0x7312
Subsystem Vendor ID:	0x1002
Subsystem ID:	0x031e
Revision ID:	0x0000
Link Width:	x16
Link Speed:	16.0 GT/s

pci1002,7314:

Type:	Unknown
Driver Installed:	No
MSI:	No
Bus:	PCI
Slot:	Slot-1@16,0,3
Vendor ID:	0x1002
Device ID:	0x7314
Subsystem Vendor ID:	0x1002
Subsystem ID:	0x0408
Revision ID:	0x0000
Link Width:	x16
Link Speed:	16.0 GT/s

pci1002,7316:

Type:	USB eXtensible Host Controller
Driver Installed:	Yes
MSI:	Yes
Bus:	PCI
Slot:	Slot-1@16,0,2
Vendor ID:	0x1002
Device ID:	0x7316
Subsystem Vendor ID:	0x1002
Subsystem ID:	0x7316
Revision ID:	0x0000
Link Width:	x16
Link Speed:	16.0 GT/s

pci1002,ab38:

Type:	Audio Device
Driver Installed:	Yes
MSI:	Yes
Bus:	PCI
Slot:	Slot-1@16,0,1
Vendor ID:	0x1002
Device ID:	0xab38
Subsystem Vendor ID:	0x1002
Subsystem ID:	0xab38
Revision ID:	0x0000
Link Width:	x16
Link Speed:	16.0 GT/s

there is an unknown controller – "USB NAVI 10"

My RadeonPro W5700   Pci1002,7314@0,3

IOService   Q⌄ pci1002   ⊗

IOService:/AppleACPIPlatformExpert/PCI0@0/AppleACPIPCI/IOU0@3/IOPP/PXS1@0/IOPP/pci-bridge@0/IOPP/pci1002,7314@0,3

pci1002,7314@0,3

Class Inheritance: IOPCIDevice : IOService : IORegistryEntry : OSObject   ☑ Registered   Retain Count: 8
                                                                                      ☑ Matched   Busy Count: 0
Bundle   com.apple.iokit.IOPCIFamily   ☑ Active

Property	Type	Value
assigned-addresses	Data	<10 03 0c 82 00 00 00 00 00 00 ea 90 00 00 00 00 00 40 00 00>
> IOInterruptSpecifiers	Array	2 values
class-code	Data	<00 80 0c 00>
> IODeviceMemory	Array	1 value
> IOPowerManagement	Dictionary	4 values
subsystem-vendor-id	Data	<02 10 00 00>
pci-aspm-default	Number	0x0
> IOInterruptControllers	Array	2 values
vendor-id	Data	<02 10 00 00>
name	Data	<"pci1002,7314">
device-id	Data	<14 73 00 00>
IOChildIndex	Number	0x4
acpi-pmcap-offset	Number	0x50
IOPCIResourced	Boolean	True
compatible	Data	<"pci1002,408", "pci1002,7314", "pciclass,0c8000">
> IOServiceDEXTEntitlements	Array	1 value
IOPCIExpressLinkCapabilities	Number	0x400d04
subsystem-id	Data	<08 04 00 00>
revision-id	Data	<00 00 00 00>
IOPCIExpressLinkStatus	Number	0x1104
IOPCIExpressCapabilities	Number	0x2
pcidebug	String	12:0:3
IOName	String	pci1002,7314
reg	Data	<00 03 0c 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 10 03 0c 02 00 00 00 00 00 00 00 00 00 00 00 00 00 40 00 00>

- ⌄ *Root*
  - ↳ MacPro5,1
    - ↳ AppleACPIPlatformExpert
      - ↳ PCI0@0
        - ↳ AppleACPIPCI
          - ↳ IOU0@3
            - ↳ IOPP
              - ↳ PXS1@0
                - ↳ IOPP
                  - ↳ pci-bridge@0
                    - ↳ IOPP
                      - ↳ **pci1002,7314@0,3**
                      - ↳ **pci1002,7316@0,2**

Mac Pro

Karta	Typ	Zainstalowany sterownik	Gniazdo
Radeon Pro W5700	gpu-controller	Tak	Slot-1@7,0,0
pci1002,ab38	Urządzenie audio	Tak	Slot-1@7,0,1
pci1002,7316	Kontroler hosta USB eXtensible	Tak	Slot-1@7,0,2
pci1002,7314	Nieznana	Nie	Slot-1@7,0,3
pci8086,2701	Kontroler NVM Express	Tak	Slot-3
pci1d18,3fc6	Audio	Nie	Slot-4

Radeon Pro W5700:

Nazwa:	ATY_GPU
Typ:	gpu-controller
Zainstalowany sterownik:	Tak
MSI:	Tak
Magistrala:	PCI
Gniazdo:	Slot-1@7,0,0
ID producenta:	0x1002
ID urządzenia:	0x7312
ID producenta podsystemu:	0x1002
ID podsystemu:	0x031e
ID korekty:	0x0000
Szerokość łącza:	x16

pci1002,ab38:

Typ:	Urządzenie audio
Zainstalowany sterownik:	Tak
MSI:	Tak
Magistrala:	PCI
Gniazdo:	Slot-1@7,0,1
ID producenta:	0x1002
ID urządzenia:	0xab38
ID producenta podsystemu:	0x1002
ID podsystemu:	0xab38
ID korekty:	0x0000
Szerokość łącza:	x16

pci1002,7316:

Typ:	Kontroler hosta USB eXtensible
Zainstalowany sterownik:	Tak
MSI:	Tak
Magistrala:	PCI
Gniazdo:	Slot-1@7,0,2
ID producenta:	0x1002
ID urządzenia:	0x7316
ID producenta podsystemu:	0x1002
ID podsystemu:	0x7316
ID korekty:	0x0000
Szerokość łącza:	x16

pci1002,7314:

Typ:	Nieznana
Zainstalowany sterownik:	Nie
MSI:	Nie
Magistrala:	PCI
Gniazdo:	Slot-1@7,0,3
ID producenta:	0x1002
ID urządzenia:	0x7314
ID producenta podsystemu:	0x1002
ID podsystemu:	0x0408
ID korekty:	0x0000
Szerokość łącza:	x16

Even RadeonProW5700
flashed by Macvidcards
has the same problem

Mac Pro (Marek) › Sprzęt › PCI

Sprzęt
- ATA
- Apple Pay
- Audio
- Bluetooth
- Czytnik kart
- Diagnostyka
- Drukarki
- Fibre Channel
- FireWire
- Grafika/monitory
- Kamera
- Karty Ethernet
- Kontroler
- NVMExpress
- Nagrywanie płyt
- PCI
- Pamięć
- Pamięć masowa
- SAS
- SATA
- SCSI równoległe
- SPI
- Thunderbolt/USB4
- USB
- Zasilanie

Sieć
- Lokalizacje
- WWAN
- Wi-Fi
- Woluminy
- Zapora sieciowa

Oprogramowanie
- Aplikacje
- Czcionki
- Deweloper
- Dostępność
- Dzienniki
- Instalacje
- Język i region
- Obsługa formatu RAW
- Oprogramowanie drukarki
- Panele preferencji
- Profile
- Rozszerzenia
- Rzeczy startowe
- SmartCard
- Starsze oprogramowanie
- Szkielety
- Usługi synchronizacji
- Wyłączone oprogramow...
- Zarządzany klient