

## Zusammenfassung

### Computer

Prozessor AMD Ryzen 5 5600G with Radeon Graphics  
Hauptspeicher 14202MB (7661MB used)  
Maschinen-Typ Desktop  
Betriebssystem Ubuntu 20.04.4 LTS  
Benutzername oem (OEM Configuration (temporary user))  
Date/Time Do 14 Apr 2022 18:37:16 CEST

### Anzeige

Auflösung 3600x1080 pixels  
OpenGL-Renderer AMD RENOIR (DRM 3.41.0, 5.13.0-39-generic, LLVM 12.0.0)  
X11-Hersteller The X.Org Foundation

### Audio-Geräte

Audio Adapter HDA-Intel - HD-Audio Generic  
Audio Adapter HDA-Intel - HD-Audio Generic

### Eingabegeräte

Power Button

Power Button

### Video Bus

SEM USB Keyboard  
SEM USB Keyboard Consumer Control  
SEM USB Keyboard System Control  
GXT 133 Gaming Mouse  
HD-Audio Generic HDMI/DP,pcm:3  
HD-Audio Generic HDMI/DP,pcm:7  
GXT 133 Gaming Mouse Keyboard  
HD-Audio Generic Front Mic  
HD-Audio Generic Rear Mic  
HD-Audio Generic Line  
HD-Audio Generic Line Out Front  
HD-Audio Generic Line Out Surround  
HD-Audio Generic Line Out CLFE  
HD-Audio Generic Line Out Side  
HD-Audio Generic Front Headphone

### Drucker (CUPS)

HP\_Officejet\_Pro\_8500\_A909g\_C06E17\_  
Officejet-Pro-8500-A909g  
Officejet-Pro-8500-A909g-2

### SCSI-Geräte

Intenso Portable SSD  
MATSHITA DVD-RAM SW820  
ATA Crucial\_CT275MX3  
Generic- SD/MMC/MS/MSPRO

### Betriebssystem

#### Version

Kernel Linux 5.13.0-39-generic (x86\_64)  
Version #44~20.04.1-Ubuntu SMP Thu Mar 24 16:43:35 UTC 2022  
C-Library GNU C Library / (Ubuntu GLIBC 2.31-0ubuntu9.7) 2.31  
Distribution Ubuntu 20.04.4 LTS

#### Aktuelle Sitzung

Computername oem-MS-7B86  
Benutzername oem (OEM Configuration (temporary user))  
Sprache de\_DE.UTF-8 (de\_DE.UTF-8)  
Stammverzeichnis /home/oem

### Verschiedenes

Uptime 3 Stunden 14 Minuten  
Load Average 0,60, 0,86, 0,73  
Available entropy in /dev/random 3859 bits (healthy)

### Kernel-Module

#### Geladene Module

#### isofs

#### nls\_iso8859\_1

intel\_rapl\_msr Driver for Intel RAPL (Running Average Power Limit) control  
via MSR interface

joydev Joystick device interfaces  
 input\_leds Input -> LEDs Bridge  
 intel\_rapl\_common Intel Runtime Average Power Limit (RAPL) common code  
 snd\_hda\_codec\_realtek Realtek HD-audio codec  
 snd\_hda\_codec\_generic Generic HD-audio codec parser  
 ledtrig\_audio LED trigger for audio mute control  
 edac\_mce\_amd AMD MCE decoder  
 snd\_hda\_codec\_hdmi HDMI HD-audio codec  
 kvm\_amd  
 snd\_hda\_intel Intel HDA driver  
 snd\_intel\_dspcfg Intel DSP config driver  
 kvm  
 snd\_intel\_sdw\_acpi Intel Soundwire ACPI helpers  
 snd\_seq\_midi Advanced Linux Sound Architecture sequencer MIDI synth.  
 snd\_seq\_midi\_event MIDI byte <-> sequencer event coder  
 snd\_hda\_codec HDA codec core  
 snd\_rawmidi Midlevel RawMidi code for ALSA.  
 snd\_hda\_core HD-audio bus  
 snd\_hwdep Hardware dependent layer  
 rapl  
 wmi\_bmf WMI embedded Binary MOF driver  
 efi\_pstore EFI variable backend for pstore  
 snd\_pcm Midlevel PCM code for ALSA.  
 snd\_seq Advanced Linux Sound Architecture sequencer.  
 snd\_seq\_device ALSA sequencer device management  
 snd\_timer ALSA timer interface  
 snd Advanced Linux Sound Architecture driver for soundcards.  
 ccp AMD Secure Processor driver  
 soundcore Core sound module  
 sch\_fq\_codel Fair Queue CoDel discipline  
 ipmi\_devintf Linux device interface for the IPMI message handler.  
 ipmi\_msghandler Incoming and outgoing message routing for an IPMI interface.  
 msr x86 generic MSR driver  
 mac\_hid  
 parport\_pc PC-style parallel port driver  
 ppdev  
 lp  
 parport  
 ip\_tables IPv4 packet filter  
 x\_tables {ip,ip6,arp,eb}\_tables backend module  
 autofs4  
 btrfs  
 blake2b\_generic BLAKE2b generic implementation  
 xor  
 zstd\_compress Zstd Compressor  
 hid\_generic HID generic driver  
 usbhid USB HID core driver  
 hid  
 raid6\_pq RAID6 Q-syndrome calculations  
 libcrc32c CRC32c (Castagnoli) calculations  
 dm\_mirror device-mapper mirror target  
 dm\_region\_hash device-mapper region hash  
 dm\_log device-mapper dirty region log  
 uas  
 usb\_storage USB Mass Storage driver for Linux  
 amdgpu AMD GPU  
 iommu\_v2  
 gpu\_sched DRM GPU scheduler  
 i2c\_algo\_bit I2C-Bus bit-banging algorithm  
 drm\_ttm\_helper DRM gem ttm helpers  
 ttm TTM memory manager subsystem (for DRM device)  
 crct10dif\_pclmul T10 DIF CRC calculation accelerated with PCLMULQDQ.  
 drm\_kms\_helper DRM KMS helper  
 crc32\_pclmul

ghash\_clmulni\_intel GHASH hash function, accelerated by PCLMULQDQ-NI  
aesni\_intel Rijndael (AES) Cipher Algorithm, Intel AES-NI instructions optimized  
syscopyarea Generic copyarea (sys-to-sys)  
sysfillrect Generic fill rectangle (sys-to-sys)  
sysimgblt 1-bit/8-bit to 1-32 bit color expansion (sys-to-sys)  
crypto\_simd  
fb\_sys\_fops Generic file read (fb in system RAM)  
cec Device node registration for cec drivers  
nvme  
cryptd Software async crypto daemon  
rc\_core  
ahci AHCI SATA low-level driver  
r8169 RealTek RTL-8169 Gigabit Ethernet driver  
xhci\_pci xHCI PCI Host Controller Driver  
gpio\_amdpt AMD Promontory GPIO Driver  
drm DRM shared core routines  
i2c\_piix4 PIIX4 SMBus driver  
nvme\_core  
realtek Realtek PHY driver  
libahci Common AHCI SATA low-level routines  
xhci\_pci\_renesas  
wmi ACPI-WMI Mapping Driver  
video ACPI Video Driver  
gpio\_generic Driver for basic memory-mapped GPIO controllers

nzeige  
Anzeige  
Auflösung 3600x1080 pixels  
Hersteller The X.Org Foundation  
Version 1.20.13  
Current Display Name :0  
Bildschirme  
Bildschirm 0 1920x1080 Pixel  
Bildschirm 1 1680x1050 Pixel  
OpenGL  
Hersteller AMD  
Renderer AMD RENOIR (DRM 3.41.0, 5.13.0-39-generic, LLVM 12.0.0)  
Version 4.6 (Compatibility Profile) Mesa 21.2.6  
Direct-Rendering Ja  
Erweiterungen  
Composite  
DAMAGE  
DOUBLE-BUFFER  
DPMS  
DRI2  
DRI3  
GLX  
Generic Event Extension  
MIT-SCREEN-SAVER  
MIT-SHM  
Present  
RANDR  
RECORD  
RENDER  
SECURITY  
SHAPE  
SYNC  
X-Resource  
XC-MISC  
XFIXES

XFree86-DGA  
XFree86-VidModeExtension  
XINERAMA  
XInputExtension  
XKEYBOARD  
XTEST  
XVideo  
default screen number: 0

## Entwicklung

### Script-Sprachen

Gambas3 (gbr3) Nicht gefunden

Python 2.7.18

Python2 2.7.18

Python3 3.8.10

Perl 5.30.0

Perl6 (VM) Nicht gefunden

Perl6 Nicht gefunden

PHP Nicht gefunden

Ruby 2.7.0

Bash 5.0.17(1)-release

### Compiler

C (GCC) 9.4.0

C (Clang) Nicht gefunden

D (dmd) Nicht gefunden

Gambas3 (gbc3) Nicht gefunden

Java Nicht gefunden

CSharp (Mono, old) Nicht gefunden

CSharp (Mono) Nicht gefunden

Vala Nicht gefunden

Haskell (GHC) Nicht gefunden

FreePascal Nicht gefunden

Go Nicht gefunden

### Werkzeug-Programme

make 4.2

GDB (Ubuntu 9.2-0ubuntu1~20.04.1) 9.2

strace 5.5

valgrind Nicht gefunden

QMake Nicht gefunden

CMake Nicht gefunden

Gambas3 IDE Nicht gefunden

## Geräte

### Prozessor

#### Processors

#### Package Information

AMD Ryzen 5 5600G with Radeon Graphics	0	0:0	3892,00 MHz
AMD Ryzen 5 5600G with Radeon Graphics	1	0:1	3892,00 MHz
AMD Ryzen 5 5600G with Radeon Graphics	2	0:2	3056,00 MHz
AMD Ryzen 5 5600G with Radeon Graphics	3	0:3	3892,00 MHz
AMD Ryzen 5 5600G with Radeon Graphics	4	0:4	3892,00 MHz
AMD Ryzen 5 5600G with Radeon Graphics	5	0:5	3892,00 MHz
AMD Ryzen 5 5600G with Radeon Graphics	6	0:0	3892,00 MHz
AMD Ryzen 5 5600G with Radeon Graphics	7	0:1	3892,00 MHz
AMD Ryzen 5 5600G with Radeon Graphics	8	0:2	3892,00 MHz
AMD Ryzen 5 5600G with Radeon Graphics	9	0:3	3892,00 MHz
AMD Ryzen 5 5600G with Radeon Graphics	10	0:4	2344,00 MHz
AMD Ryzen 5 5600G with Radeon Graphics	11	0:5	3892,00 MHz

## Hauptspeicher

```

Memory
MemTotal      Total Memory      14202852 KiB
MemFree       Free Memory 1246232 KiB
MemAvailable          7133968 KiB
Buffers                602192 KiB
Cached              5349632 KiB
SwapCached  Cached Swap 0 KiB
Active            4287784 KiB
Inactive          6919864 KiB
Active(anon)           6176 KiB
Inactive(anon)        5552052 KiB
Active(file)          4281608 KiB
Inactive(file)        1367812 KiB
Unevictable           19792 KiB
Mlocked              19792 KiB
SwapTotal  Virtual Memory  2097148 KiB
SwapFree    Free Virtual Memory  2095356 KiB
Dirty        280 KiB
Writeback            0 KiB
AnonPages        5275628 KiB
Mapped          1592980 KiB
Shmem           302892 KiB
KReclaimable           567788 KiB
Slab           744716 KiB
SReclaimable           567788 KiB
SUnreclaim           176928 KiB
KernelStack          33808 KiB
PageTables           67900 KiB
NFS_Unstable            0 KiB
Bounce                0 KiB
WritebackTmp           0 KiB
CommitLimit          9198572 KiB
Committed_AS        15373520 KiB
VmallocTotal           -1 KiB
VmallocUsed           65192 KiB
VmallocChunk           0 KiB
Percpu              33280 KiB
HardwareCorrupted      0 KiB
AnonHugePages          0 KiB
ShmemHugePages         0 KiB
ShmemPmdMapped         0 KiB
FileHugePages          0 KiB
FilePmdMapped          0 KiB
HugePages_Total        0
HugePages_Free          0
HugePages_Rsvd          0
HugePages_Surp          0
Hugepagesize           2048 KiB
Hugetlb                0 KiB
DirectMap4k            1982472 KiB
DirectMap2M            11536384 KiB
DirectMap1G            1048576 KiB
PCI-Geräte
PCI Devices
Host bridge Advanced Micro Devices, Inc. [AMD] Renoir Root Complex
IOMMU Advanced Micro Devices, Inc. [AMD] Renoir IOMMU
Host bridge Advanced Micro Devices, Inc. [AMD] Renoir PCIe Dummy Host Bridge
Host bridge Advanced Micro Devices, Inc. [AMD] Renoir PCIe Dummy Host Bridge
PCI bridge Advanced Micro Devices, Inc. [AMD] Renoir PCIe GPP Bridge (prog-if
00 [Normal decode])
PCI bridge Advanced Micro Devices, Inc. [AMD] Renoir PCIe GPP Bridge (prog-if
00 [Normal decode])
Host bridge Advanced Micro Devices, Inc. [AMD] Renoir PCIe Dummy Host Bridge
PCI bridge Advanced Micro Devices, Inc. [AMD] Renoir Internal PCIe GPP Bridge

```

```

to Bus (prog-if 00 [Normal decode])
PCI bridge Advanced Micro Devices, Inc. [AMD] Renoir Internal PCIe GPP Bridge
to Bus (prog-if 00 [Normal decode])
SMBus Advanced Micro Devices, Inc. [AMD] FCH SMBus Controller (rev 51)
ISA bridge Advanced Micro Devices, Inc. [AMD] FCH LPC Bridge (rev 51)
Host bridge Advanced Micro Devices, Inc. [AMD] Device 166a
Host bridge Advanced Micro Devices, Inc. [AMD] Device 166b
Host bridge Advanced Micro Devices, Inc. [AMD] Device 166c
Host bridge Advanced Micro Devices, Inc. [AMD] Device 166d
Host bridge Advanced Micro Devices, Inc. [AMD] Device 166e
Host bridge Advanced Micro Devices, Inc. [AMD] Device 166f
Host bridge Advanced Micro Devices, Inc. [AMD] Device 1670
Host bridge Advanced Micro Devices, Inc. [AMD] Device 1671
USB controller Advanced Micro Devices, Inc. [AMD] 400 Series Chipset USB 3.1
XHCI Controller (rev 01) (prog-if 30 [XHCI])
SATA controller Advanced Micro Devices, Inc. [AMD] 400 Series Chipset SATA
Controller (rev 01) (prog-if 01 [AHCI 1.0])
PCI bridge Advanced Micro Devices, Inc. [AMD] 400 Series Chipset PCIe Bridge
(rev 01) (prog-if 00 [Normal decode])
PCI bridge Advanced Micro Devices, Inc. [AMD] 400 Series Chipset PCIe Port (rev
01) (prog-if 00 [Normal decode])
PCI bridge Advanced Micro Devices, Inc. [AMD] 400 Series Chipset PCIe Port (rev
01) (prog-if 00 [Normal decode])
PCI bridge Advanced Micro Devices, Inc. [AMD] 400 Series Chipset PCIe Port (rev
01) (prog-if 00 [Normal decode])
Ethernet controller Realtek Semiconductor Co., Ltd. RTL8111/8168/8411 PCI
Express Gigabit Ethernet Controller (rev 15)
Non-Volatile memory controller Samsung Electronics Co Ltd NVMe SSD
Controller SM981/PM981/PM983 (prog-if 02 [NVM Express])
VGA compatible controller Advanced Micro Devices, Inc. [AMD/ATI] Device 1638
(rev c9) (prog-if 00 [VGA controller])
Audio device Advanced Micro Devices, Inc. [AMD/ATI] Device 1637
Encryption controller Advanced Micro Devices, Inc. [AMD] Family 17h (Models
10h-1fh) Platform Security Processor
USB controller Advanced Micro Devices, Inc. [AMD] Renoir USB 3.1 (prog-if 30
[XHCI])
USB controller Advanced Micro Devices, Inc. [AMD] Renoir USB 3.1 (prog-if 30
[XHCI])
Audio device Advanced Micro Devices, Inc. [AMD] Family 17h (Models 10h-1fh)
HD Audio Controller
SATA controller Advanced Micro Devices, Inc. [AMD] FCH SATA Controller [AHCI
mode] (rev 81) (prog-if 01 [AHCI 1.0])
SATA controller Advanced Micro Devices, Inc. [AMD] FCH SATA Controller [AHCI
mode] (rev 81) (prog-if 01 [AHCI 1.0])

```

## Sensoren

### Sensors

```

.../nvme0/temp1 Temperature 32,85°C
.../nvme0/temp2 Temperature 32,85°C
.../nvme0/temp3 Temperature 37,85°C
amdgpu/temp1 Temperature 33,00°C
amdgpu/in0 Voltage 1,44V
amdgpu/in1 Voltage 1,09V

```

## Eingabegeräte

### Input Devices

Power Button

Power Button  
Video Bus  
SEM USB Keyboard  
SEM USB Keyboard Consumer Control  
SEM USB Keyboard System Control  
GXT 133 Gaming Mouse  
HD-Audio Generic HDMI/DP,pcm:3  
HD-Audio Generic HDMI/DP,pcm:7  
GXT 133 Gaming Mouse Keyboard  
HD-Audio Generic Front Mic  
HD-Audio Generic Rear Mic  
HD-Audio Generic Line  
HD-Audio Generic Line Out Front  
HD-Audio Generic Line Out Surround  
HD-Audio Generic Line Out CLFE  
HD-Audio Generic Line Out Side  
HD-Audio Generic Front Headphone

Speicher  
SCSI-Geräte  
Intenso Portable SSD  
MATSHITA DVD-RAM SW820  
ATA Crucial\_CT275MX3  
Generic- SD/MMC/MS/MSPRO  
DMI  
Product  
Name MS-7B86  
Family To be filled by O.E.M.  
Hersteller Micro-Star International Co., Ltd  
Version 4.0  
BIOS  
Date 05/17/2021  
Hersteller American Megatrends International, LLC. (American Megatrends, www.ami.com)  
Version M.D0  
Board  
Name B450-A PRO MAX (MS-7B86)  
Hersteller Micro-Star International Co., Ltd  
Version 4.0  
Serial Number (Not available; Perhaps try running HardInfo as root.)  
Asset Tag To be filled by O.E.M.  
Chassis  
Hersteller Micro-Star International Co., Ltd  
Type [3] Desktop  
Version 4.0  
Serial Number (Not available; Perhaps try running HardInfo as root.)  
Asset Tag To be filled by O.E.M.

Hauptspeicher (SPD)  
SPD  
Please load the eeprom module to obtain information about memory SPD

Ressourcen  
I/O Ports  
0000-0000 PCI Bus 0000:00  
0000-0000 PCI Bus 0000:16  
0000-0000 PCI Bus 0000:16  
0000-0000 PCI Bus 0000:16  
0000-0000 PCI Bus 0000:16  
0000-0000 PCI Bus 0000:16

[illegible]

```
000000000-000000000      Reserved
000000000-000000000      Reserved
000000000-000000000      Reserved
000000000-000000000      pnp 00:01
000000000-000000000      pnp 00:01
000000000-000000000      pnp 00:06
000000000-000000000      pnp 00:01
000000000-000000000      Reserved
000000000-000000000      Reserved
000000000-000000000      Reserved
000000000-000000000      Reserved
000000000-000000000      Reserved
000000000-000000000      Reserved
000000000-000000000      Reserved
000000000-000000000      pnp 00:01
000000000-000000000      pnp 00:01
000000000-000000000      pnp 00:01
```



00000000-00000000	pnp 00:01
00000000-00000000	Reserved
00000000-00000000	Reserved
00000000-00000000	Reserved
00000000-00000000	Reserved
00000000-00000000	Reserved
00000000-00000000	Reserved
00000000-00000000	Reserved
00000000-00000000	Reserved
00000000-00000000	Reserved
00000000-00000000	Reserved
00000000-00000000	Reserved
00000000-00000000	Reserved
00000000-00000000	pnp 00:01
00000000-00000000	pnp 00:06
00000000-00000000	pnp 00:06
00000000-00000000	pnp 00:01
00000000-00000000	pnp 00:06
00000000-00000000	nvme
00000000-00000000	pnp 00:01
00000000-00000000	pnp 00:06
00000000-00000000	nvme
00000000-00000000	pnp 00:06
00000000-00000000	nvme
00000000-00000000	pnp 00:06
00000000-00000000	nvme
00000000-00000000	pnp 00:06
00000000-00000000	nvme
00000000-00000000	pnp 00:06
00000000-00000000	nvme
00000000-00000000	pnp 00:01
00000000-00000000	pnp 00:06
00000000-00000000	nvme
00000000-00000000	PCI Realtek Semiconductor Co., Ltd. RTL8111/8168/8411
PCI Express Gigabit Ethernet Controller (rev 15)	
00000000-00000000	PCI Realtek Semiconductor Co., Ltd. RTL8111/8168/8411
PCI Express Gigabit Ethernet Controller (rev 15)	
00000000-00000000	Module RealTek RTL-8169 Gigabit Ethernet driver
00000000-00000000	pnp 00:06
00000000-00000000	pnp 00:06
00000000-00000000	nvme
00000000-00000000	pnp 00:06
00000000-00000000	nvme
00000000-00000000	pnp 00:01
00000000-00000000	pnp 00:06
00000000-00000000	nvme
00000000-00000000	pnp 00:06
00000000-00000000	nvme
00000000-00000000	pnp 00:01
00000000-00000000	pnp 00:06
00000000-00000000	nvme
00000000-00000000	pnp 00:01
00000000-00000000	pnp 00:01
00000000-00000000	pnp 00:01
00000000-00000000	pnp 00:01
00000000-00000000	pnp 00:01
00000000-00000000	pnp 00:01
00000000-00000000	pnp 00:06
00000000-00000000	pnp 00:06
00000000-00000000	pnp 00:01
00000000-00000000	pnp 00:06

00000000-00000000	Reserved
00000000-00000000	pnp 00:01
00000000-00000000	pnp 00:06
00000000-00000000	Reserved
00000000-00000000	pnp 00:01
00000000-00000000	pnp 00:06
00000000-00000000	Reserved
00000000-00000000	Reserved
00000000-00000000	pnp 00:01
00000000-00000000	pnp 00:01
00000000-00000000	Reserved
00000000-00000000	Reserved
00000000-00000000	Reserved
00000000-00000000	Reserved
00000000-00000000	pnp 00:01
00000000-00000000	pnp 00:06
00000000-00000000	pnp 00:01
00000000-00000000	pnp 00:06
00000000-00000000	Reserved
00000000-00000000	Reserved
00000000-00000000	pnp 00:01

DMA

4        cascade