



NWinfo

NWinfo is a Win32 program that allows you to obtain system and hardware information.

Features

- Obtain detailed information about SMBIOS, CPUID, S.M.A.R.T., PCI, EDID, and more.
- Support exporting in JSON, YAML, and HTML formats.
- Gathers information directly without relying on WMI.
- Compatible with Windows XP.

Download

The source code is maintained in a git repository at <https://github.com/a1ive/nwinfo>.

You can download the latest version of the binary from [GitHub Releases](#).

CLI (nwinfo)

Usage

```
.\nwinfo.exe OPTIONS
```

Example Command

```
.\nwinfo.exe --format=json --output=report.json --cp=UTF8 --sys --disk --smbios --net
```

This command exports system, disk, SMBIOS, and network information to `report.json` in JSON format.

General Options

- `--format= FORMAT`
Specify output format.
`FORMAT` can be `YAML` (default), `JSON`, `LUA`, `TREE` and `HTML`.
- `--output= FILE`
Write to `FILE` instead of printing to screen.
- `--cp= CODEPAGE`
Set the code page of output text.
`CODEPAGE` can be `ANSI` and `UTF8`.
- `--human`
Display numbers in human readable format.
- `--debug`
Print debug info to stdout.
- `--hide-sensitive`
Hide sensitive data (MAC & S/N).

Hardware Details

- `--cpu[= FILE]`
Print CPUID info.
`FILE` specifies the file name of the CPUID dump.
- `--net[= FLAG, ...]`
Print network info.
 - `GUID`
Specify the GUID of the network interface, e.g. `{B16B00B5-CAFE-BEEF-DEAD-001453AD0529}`
 - `FLAGS`
 - `ACTIVE` Exclude inactive network interfaces.
 - `PHYS` Exclude virtual network interfaces.
 - `ETH` Include Ethernet network interfaces.
 - `WLAN` Include IEEE 802.11 wireless addresses.

`IPV4` Show IPv4 addresses only.

`IPV6` Show IPv6 addresses only.

- `--acpi[= SGN]`

Print ACPI info.

`SGN` specifies the signature of the ACPI table, e.g. `FACP` (Fixed ACPI Description Table).

- `--smbios[= TYPE]`

Print SMBIOS info.

`TYPE` specifies the type of the SMBIOS table, e.g. `2` (Base Board Information).

- `--disk[= FLAG, . .]`

Print disk info.

- `PATH`

Specify the path of the disk, e.g. `\\.\PhysicalDrive0` , `\\.\CdRom0` .

- `FLAGS`

`NO-SMART` Don't print disk S.M.A.R.T. info.

`PHYS` Exclude virtual drives.

`CD` Include CD-ROM devices.

`HD` Include hard drives.

`NVME` Include NVMe devices.

`SATA` Include SATA devices.

`SCSI` Include SCSI devices.

`SAS` Include SAS devices.

`USB` Include USB devices.

- `--smart= FLAG, . . .`

Specify S.M.A.R.T. features.

Features enabled by default: `WMI` , `ATA` , `NVIDIA` , `MARVELL` , `SAT` , `SUNPLUS` , `IODATA` , `LOGITEC` , `PROLIFIC` , `USBJMICRON` , `CYPRESS` , `MEMORY` , `JMICRON` , `ASMEDIA` , `REALTEK` , `MEGARAID` , `VROC` , `ASM1352R` and `HIDERAID` .

Use `DEFAULT` to specify the above features.

Other features are `ADVANCED` , `HD204UI` , `ADATA` , `NOWAKEUP` and `RTK9220DP` .

- `--display`

Print EDID info.

- `--pci[= CLASS]`

Print PCI info.

`CLASS` specifies the class code of pci devices, e.g. `0C05` (SMBus).

- `--usb`

Print USB info.

- `--battery`

Print battery info.

- `--uefi[= FLAG, . .]`

Print UEFI info.

- `FLAGS`

`MENU` Print UEFI boot menus.

`VARS` List all UEFI variables.

- `--audio`

Print audio devices.

- --gpu
Print GPU usage.

System Information

- --sys
Print system info.
- --shares
Print network mapped drives and shared folders.
- --public-ip
Print public IP address.
- --product-policy[= NAME]
Print ProductPolicy.
NAME specifies the name of the product policy.
- --font
Print installed fonts.

PowerShell Script for System Diagnostics

`hw_report.ps1` is a PowerShell script designed to generate and display a detailed hardware and system report using `nwinfo`.

Notes

Windows 11

If the driver cannot be loaded properly, modify the following registry keys:

```
Windows Registry Editor Version 5.00
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\DeviceGuard\Scenarios\HypervisorEnforcedCo  
"Enabled"=dword:00000000
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\DeviceGuard]  
"EnableVirtualizationBasedSecurity"=dword:00000000
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\DeviceGuard\Scenarios\SystemGuard]  
"Enabled"=dword:00000000
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\CI\Config]  
"VulnerableDriverBlocklistEnable"=dword:00000000
```

Windows 7

For earlier versions of Windows 7, the driver may not work properly and requires a SHA1-signed certificate.

Windows XP

This project is compatible with Windows XP using [YY-Thunks](#), but it may not retrieve some hardware information.

Licenses & Credits

This project is licensed under the [Unlicense](#) license.

- [libcpuid](#)
- [SysInv](#)
- [DumpSMBIOS](#)
- [CrystalDiskInfo](#)
- [Nuklear](#)
- [hwdata](#)
- [Linux USB](#)
- [The PCI ID Repository](#)
- [RyzenAdj](#)