

NAME

acpi_wmi - ACPI to WMI mapping driver

SYNOPSIS

To compile this driver into the kernel, place the following line in your kernel configuration file:

```
device acpi_wmi
```

Alternatively, to load the driver as a module at boot time, place the following line in loader.conf(5):

```
acpi_wmi_load="YES"
```

DESCRIPTION

The **acpi_wmi** driver provides an interface for vendor specific WMI implementations (e.g. HP and Acer laptops). It creates `/dev/wmistat%d`, which can be read to get information about GUIDs found in the system.

FILES

`/dev/wmistat%d` WMI status device.

SYSCTLS

The following sysctl node is currently implemented:

dev.acpi_wmi.%d.bmof

Managed Object Format (MOF) blob. You can obtain human readable output by `bmf2mof` in `bmfdec` tool. (<https://github.com/pali/bmfdec>)

EXAMPLES

```
# cat /dev/wmistat0
```

```
GUID                INST EXPE METH STR EVENT OID
{5FB7F034-2C63-45E9-BE91-3D44E2C707E4} 1 NO  WMAA NO NO  AA
{95F24279-4D7B-4334-9387-ACCDC67EF61C} 1 NO  NO  NO 0x80+ -
{2B814318-4BE8-4707-9D84-A190A859B5D0} 1 NO  NO  NO 0xA0 -
{05901221-D566-11D1-B2F0-00A0C9062910} 1 NO  NO  NO NO  AB
{1F4C91EB-DC5C-460B-951D-C7CB9B4B8D5E} 1 NO  WMBA NO NO  BA
{2D114B49-2DFB-4130-B8FE-4A3C09E75133} 57 NO  NO  NO NO  BC
{988D08E3-68F4-4C35-AF3E-6A1B8106F83C} 20 NO  NO  NO NO  BD
{14EA9746-CE1F-4098-A0E0-7045CB4DA745} 1 NO  NO  NO NO  BE
{322F2028-0F84-4901-988E-015176049E2D} 2 NO  NO  NO NO  BF
{8232DE3D-663D-4327-A8F4-E293ADB9BF05} 0 NO  NO  NO NO  BG
```

```

{8F1F6436-9F42-42C8-BADC-0E9424F20C9A} 0 NO NO NO NO BH
{8F1F6435-9F42-42C8-BADC-0E9424F20C9A} 0 NO NO NO NO BI
# sysctl -b dev.acpi_wmi.0.bmof |bmf2mof
[abstract]
class Lenovo_BIOSElement {
};

[WMI, Dynamic, Provider("WMIProv"), WmiExpense(1), Description("Bios Setting"),
GUID("{51F5230E-9677-46cd-A1CF-C0B23EE34DB7}"), Locale("MS\0x409")]
class Lenovo_BiosSetting : Lenovo_BiosElement {
    [key, read] String InstanceName;
    [read] Boolean Active;
    [WmiDataId(1), Description("BIOS setting")] String CurrentSetting;
};
...

```

SEE ALSO

acpi(4)

HISTORY

The **acpi_wmi** device driver first appeared in FreeBSD 8.0.

AUTHORS

The **acpi_wmi** driver was written by Michael Gmelin <freebsd@grem.de>.

Work has been inspired by the Linux acpi-wmi driver written by Carlos Corbacho.

See <http://www.microsoft.com/whdc/system/pnppwr/wmi/wmi-acpi.msp> for the specification of ACPI-WMI.

MOF part has been inspired by the Linux wmi-bmof driver written by Andy Lutomirski.

This manual page was written by Michael Gmelin <freebsd@grem.de>.