


DeviceIOView v1.02
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Web site: <http://www.nirsoft.net>

Description

DeviceIOView allows you to watch the data transfer between a software or service and a device driver (DeviceIoControl calls). For each call to a device driver, the following information is displayed: Handle, Control Code, number of input bytes, number of output bytes, the name of the device handle, and all the input/output bytes, displayed as Hex dump.

System Requirements

This utility works on Windows 2000, Windows XP, Windows Server 2003, and Windows 7/Vista/2008 (32-bit only). Older versions of Windows are not supported.

Versions History

- Version 1.02:
 - Fixed bug: On some Windows 7 systems, DeviceIOView failed to attach a process and crashed it.
- Version 1.01:
 - DeviceIOView now automatically stops when the process that you inspect is terminated.
 - DeviceIOView now remembers that last sort in select process dialog-box.
- Version 1.00

Using DeviceIOView

DeviceIOView doesn't require any installation process or additional dll files. In order to start using it, simply run the executable file - DeviceIOView.exe After running it, select the process that you want to inspect, and click Ok. After

clicking Ok, DeviceIOView will start to display the information about all calls to device drivers.

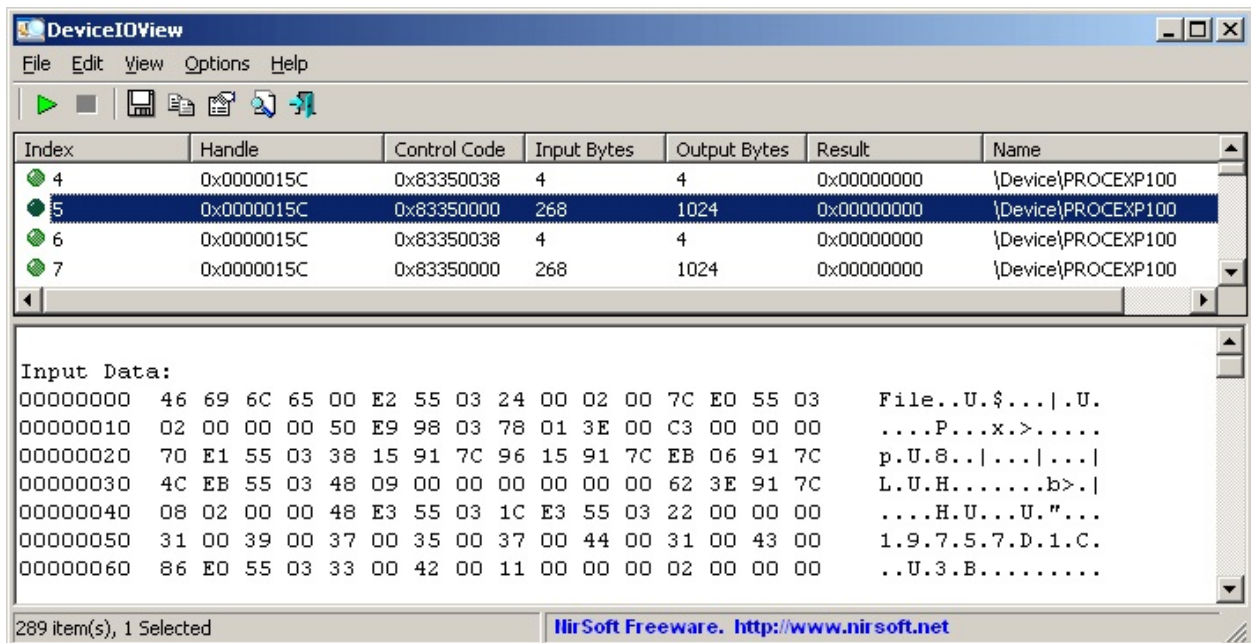
The upper pane displays the list of all device drivers calls. When you select an item in the upper pane, the lower pane displays the input/output bytes, as Hex dump.

Using DeviceIOView In Windows Vista

DeviceIOView can work in Vista even when UAC (User Account Control) is turned on, as long as the process that you wish to inspect run in the same account and security context of DeviceIOView. However, if you want to inspect a process that runs under administrator account, you must also run DeviceIOView as administrator. (right-click on DeviceIOView.exe and choose 'Run As Administrator')

Practical Example For Using DeviceIOView

Process Explorer of Sysinternals/Microsoft uses a device driver to extract handle information of any process. If you set the lower pane of Process Explorer to Handles list, you can watch all the device driver calls made to PROCEXP100 device driver:



The screenshot shows the DeviceIOView application window. The top pane displays a table of device driver calls. The bottom pane shows a hex dump of input data.

Index	Handle	Control Code	Input Bytes	Output Bytes	Result	Name
4	0x0000015C	0x83350038	4	4	0x00000000	\Device\PROCEXP100
5	0x0000015C	0x83350000	268	1024	0x00000000	\Device\PROCEXP100
6	0x0000015C	0x83350038	4	4	0x00000000	\Device\PROCEXP100
7	0x0000015C	0x83350000	268	1024	0x00000000	\Device\PROCEXP100


```
Input Data:
00000000 46 69 6C 65 00 E2 55 03 24 00 02 00 7C E0 55 03   File..U.$...|.U.
00000010 02 00 00 00 50 E9 98 03 78 01 3E 00 C3 00 00 00   ....P...x.>.....
00000020 70 E1 55 03 38 15 91 7C 96 15 91 7C EB 06 91 7C   p.U.8..|...|...|
00000030 4C EB 55 03 48 09 00 00 00 00 00 00 62 3E 91 7C   L.U.H.....b>.|
00000040 08 02 00 00 48 E3 55 03 1C E3 55 03 22 00 00 00   ...H.U...U."...
00000050 31 00 39 00 37 00 35 00 37 00 44 00 31 00 43 00   1.9.7.5.7.D.1.C.
00000060 86 E0 55 03 33 00 42 00 11 00 00 00 02 00 00 00   ..U.3.B.....
```

Translating DeviceIOView to other languages

In order to translate DeviceIOView to other language, follow the instructions below:

1. Run DeviceIOView with /savelangfile parameter:
DeviceIOView.exe /savelangfile
A file named DeviceIOView_lng.ini will be created in the folder of DeviceIOView utility.
2. Open the created language file in Notepad or in any other text editor.
3. Translate all string entries to the desired language. Optionally, you can also add your name and/or a link to your Web site. (TranslatorName and TranslatorURL values) If you add this information, it'll be used in the 'About' window.
4. After you finish the translation, Run DeviceIOView, and all translated strings will be loaded from the language file.
If you want to run DeviceIOView without the translation, simply rename the language file, or move it to another folder.

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Feedback

If you have any problem, suggestion, comment, or you found a bug in my utility, you can send a message to nirsofer@yahoo.com