

## Re: Desperately want GDIINFO, how can I obtain this structure?

**Source:**

<http://www.tech-archive.net/Archive/Development/microsoft.public.win32.programmer.kernel/2004-08/0392.html>

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**From:** vipin (vipin\_at\_nospam.com)

**Date:** 08/13/04

Date: Fri, 13 Aug 2004 12:24:01 +0530

Hi Brian,

GDIINFO is not part of the PDEV structure. I am not sure if the debugger has the ability of getting to the association of PDEV and GDIINFO, might be as you said windbg might be able to, that would be very interesting. I have to see then. As you already know,

PDEV is a chunk of memory which the driver allocates in the DrvEnablePDev(...) and returns so it gets associated when DrvEnableSurface is called with a drawing surface. So not sure how an offset into pdev structure would give GDIINFO.

Since you are the best person, I ask, do you know why microsoft has this, whats the history behind it?

GeDeviceCaps

PDEVICESTR Reserved.

Brian, Didn't you author a book on display drivers, Is it possible to get hold of the book., any pointers where to look for.

thanks

vipin

"Brian Catlin" <brianc@sannas.org.bad> wrote in message news:OdGYhVPgEHA.3964@TK2MSFTNGP12.phx.gbl...

> "lucy" <losemind@yahoo.com> wrote in message

> news:%23xXOTfOgEHA.2536@TK2MSFTNGP09.phx.gbl...

>>

>> "Brian Catlin" <brianc@sannas.org.bad> wrote in message

>> news:O9G26XJgEHA.1344@TK2MSFTNGP11.phx.gbl...

>>> "lucy" <losemind@yahoo.com> wrote in message

>>> news:OWIT5kCgEHA.644@tk2msftngp13.phx.gbl...

>>>> Dear all,

>>>>

>>>> I am mad about this...

>>>>

>>>> GDIINFO is a Windows System structure, and it is global...

>>>>

microsoft.public.win32.programmer.kernel: Re: Desperately want GDIINFO, how can I obtain this structure?

> > > *But I just don't know where to access it...*  
> > >  
> > > *I searched many places but cannot find how to read its field out...*  
> > >  
> > > *Any thoughts? Please help me! Thank you so much!*  
> > >  
> > > *What information in the GDIINFO structure are you looking for? The Win32*  
*API*  
> > > *GetDeviceCaps will return pretty much everything in the GDIINFO structure*  
> > >  
> > > *-Brian*  
> > >  
> > > *Brian Catlin, Sannas Consulting 310-944-9492*  
> > > *Windows Network, Video, WDM Device Driver Training & Consulting*  
> > > *See WWW.AZIUS.COM.bad for courses and scheduling*  
> > > *REMOVE .BAD FROM EMAIL AND WEB ADDRESS*  
> > >  
> > >  
> > >  
> > *Hi Brian,*  
> >  
> > *thank you very much for your help. I am in need of this field ULONG*  
> > *ulPhysicalPixelCharacteristics;*  
> >  
> > *from the GDIINFO desperately...*  
> >  
> > *I did not see this from GetDeviceCaps... do you have a way to get it?*  
>  
> *There is a kernel debugger extension DLL for display drivers called*  
*GDIKDX.DLL,*  
> *and it has the ability to display just about anything you would like to*  
*know*  
> *regarding display and print drivers, including their data structures.*  
> *Unfortunately, the extension isn't supported after Win2K. >:-{*  
>  
> *On the bright side, using that extension (specifically, the !dpdev*  
*command), you*  
> *can look at the global list of PDEVs, and the GDIINFO structure in them.*  
> *Unfortunately, the extension DLL doesn't display the*  
> *ulPhysicalPixelCharacteristics, but that's OK, you can find it using the*  
> *debugger. There is a global linked list of PDEVs starting at*  
*Win32K!gppdevlist.*  
> *With a little bit of effort, you should be able to find the offset of the*  
> *GDIINFO structure within the PDEV structure.*  
>  
> *If this is too much of a hack for you, then you'll have to write what I*  
*call an*  
> *"intermediate display driver" (some people may refer to this as a filter*  
*driver,*

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- > *but since I wrote the very first one, I get to name it). This is a display*
- > *driver that sits between GDI and the real display driver, allowing you to see*
- > *everything being sent to and from the display driver.*
- >
- > *-Brian*
- >
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