

Re: newbie: ExAllocatePoolWithTag

Source:

<http://www.tech-archive.net/Archive/Development/microsoft.public.development.device.drivers/2004-08/0815.html>

From: Sam Johnson (SamJohnson_at_discussions.microsoft.com)

Date: 08/14/04

Date: Sat, 14 Aug 2004 11:41:03 -0700

At the moment when I need to allocate the memory, I'm actually in the ReceivePackets handler of my NDIS Intermediate driver.

If I acquired a spin lock, could I lower the IRQL for a short period, or would that be illegal, too?

Sam

"Don Burn" wrote:

> *Well what is the situation that has you at DISPATCH_LEVEL? Are you holding
> a spinlock, and if so could you use a different synchronization mechanism?
> Are you doing something in a DPC routine and could you do it from a work
> item so you are at passive?*

>

> --

> *Don Burn (MVP, Windows DDK)
> Windows 2k/XP/2k3 Filesystem and Driver Consulting
> Remove StopSpam from the email to reply*

>

> *"Sam Johnson" <SamJohnson@discussions.microsoft.com> wrote in message
> news:4236C48E-9ED8-48A6-BA10-89B44258F7E5@microsoft.com...*

>> *I need to store some amount of data for a short period of time (until a
> user*

>> *mode application 'collects' it from kernel mode). But as the size of the
>> whole data can is different every time, I thought I'd be better off when I
>> allocate the whole stuff in paged memory, as this won't fail that easily.*

>> *By the way, is there any way to lower the IRQL? I know there are
> appropriate*

>> *functions for this, but I've heard that this would be very dangerous
> solution.....*

>>

>>

>> *What do you think?*

>>

>> *Sam Johnson*

>>

>>

>>
>>
>>
>> *"Don Burn" wrote:*
>>
>>> *Doron,*
>>>
>>> *You're right, its been a long week.*
>>>
>>> *Don*
>>>
>>> *"Doron Holan [MS]" <doronh@nospam.microsoft.com> wrote in message*
>>> *news:OoMjogigEHA.2916@TK2MSFTNGP12.phx.gbl...*
>>>> *i think don meant there is no way to allocate PagedPool at dispatch*
> *level*
>>>> *).*
>>>>
>>>> *d*
>>>>
>>>> *--*
>>>> *Please do not send e-mail directly to this alias. this alias is for*
>>>> *newsgroup purposes only.*
>>>> *This posting is provided "AS IS" with no warranties, and confers no*
>>> *rights.*
>>>>
>>>>
>>>> *"Don Burn" <burn@stopspam.acm.org> wrote in message*
>>>> *news:10hsh0q8t9a9811@corp.supernews.com...*
>>>>> *No, there is no way to allocate NonPagedPool at DISPATCH_LEVEL. So*
> *the*
>>>> *next*
>>>>> *question is why do you need to allocate at dispatch?*
>>>>>
>>>>>
>>>>> *--*
>>>>> *Don Burn (MVP, Windows DDK)*
>>>>> *Windows 2k/XP/2k3 Filesystem and Driver Consulting*
>>>>> *Remove StopSpam from the email to reply*
>>>>>
>>>>> *"Sam Johnson" <Sam Johnson@discussions.microsoft.com> wrote in*
> *message*
>>>>> *news:8B1F14A8-69E8-4C87-8494-294C1626EFDC@microsoft.com...*
>>>>>> *Hello,*
>>>>>>
>>>>>> *I'm rather new to driver development and I've got a question:*
>>>>>> *In my driver I use the ExAllocatePoolWithTag function. As I'm*
> *running*
>>> *on*
>>>>>> *DISPATCH_LEVEL, I need to specify NonPagedPool as a pool type.*
> *But as*
>>>> *I'm*

