

Re: IRQL_NOT_LESS_OR_EQUAL and EWF

Source:

<http://www.tech-archive.net/Archive/WinXP/microsoft.public.windowsxp.embedded/2006-11/msg00089.html>

- *From:* "KM" <konstmor@xxxxxxxxxxxxxxxxxxxx>
 - *Date:* Fri, 3 Nov 2006 11:17:25 -0800
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mike,

Please disregard my question about the SDI file size. It wasn't relevant to your issues.

With Ghost you won't end up with 40Gb size. Ghost will only capture the data sectors on the disk and will also compress the image (you will likely end up with even smaller size than 750M).

When you say "copy the image files to a SDI file", do you mean you used SDI Loader on your dev machine? The thing is that it better be done on the target to preserve disk geometry parameters. Let me put it this way, to get media to boot you should partition and format it on target machine. But again, since you got the image booted you may not want to worry about it now.

What EWF mode do you use? Since you are switching from reading *partition* and writing *disk* it should be EWF RAM Reg mode.

And, I suppose, on the step 7 you write a *different* image to CD, not the same golden image you just captured, right?

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=====

Regards,
KM

KM,

why did you say

```
sdimg myimage.sdi /writedisk:0 /yes
```

"The approach is pretty dangerous since SDI doesn't deal with MBR properly. But since you got your image booted, it is not an issue for you.

Re: IRQL_NOT_LESS_OR_EQUAL and EWF

What's the SDI file size?

Did you try using Ghost or other cloning tools?

Or, better, did you try formatting the target partition and [x]copying all the files and folders of your image over there? "

- what is wrong with SDI file?? i am worried now.....
- the combine size of my image is about 750MB, my hard drive is about 40GB, if i use Ghost, will that create a image of 40GB, which is not what i want

here is my process:

- 1.) build the image using TD
- 2.) copy the image files to a SDI file, the SDI file size is about 750MB, put this image on the network share (will run "net use y: \\192.144.0.1\\shared" to mount it later
- 3.) boot up to WPE, write the image to the disk

>diskpart
diskpart>select disk 0
diskpart>clean
diskpart>create partition primary
diskpart>select partition 1
diskpart>exit
>sdimg y:\image.sdi /writedisk:0: /yes
>diskpart
diskpart>select disk 0
diskpart>select partition 1
diskpart>active
diskpart>exit
>exit

4.) reboot to the image on disk, this will run through FBA process, and etc (why did you say this approach is dangerous?? shoud i format a NTFS partition of about 750 MB, then xcopy all the files)
5.) add some software and configurations to the image and run "fbreseat"

6.) reboot back to WPE, write the image to a SDI file on the network share
>sdimg y:\golden.sdi /readpart:c:
7.) create a bootable CD with the image
here is the script on the CD, which i use to write the image to the target

>diskpart /s format.bat
-----format.bat-----
>select disk 0
>clean
>create partition primary size=750
>assign letter=c
>select partition 1

>sdimg x:\golden.sdi /writepart:c: /yes
>diskpart /s extend.bat

Re: IRQL_NOT_LESS_OR_EQUAL and EWF

```
-----extend.bat-----  
>select disk 0  
>select partition 1  
>extend disk 0  
>active
```

extend.bat will extend the C drive from 750MB to 40GB

could you please let me if you see any problem in my approach. i have been doing this for a while, have not seen any noticeable problem so far

thanks!

p.s. i wil look into your suggestions about blue screen later

KM wrote:

Mike,

Comments inline..

i just read somewhere which mentioned always add EWF components in TD to the image. since i am not booting from read-only media, i don't understand why i need EWF componennts at all.

Well, read-only media is not only the application of EWF. But if you system specs do not require EWF, you don't need to include it.

this doesn't happen consistantly on the system, i just installed my image on a system, it wrote the image to the disk, then reboot; when i login, it says something like "new hardward detected, it needs to be rebooted....."(do you know why it always has to be rebooted

Re: IRQL_NOT_LESS_OR_EQUAL and EWF

twice after
writing the image to disk?),

It doesn't.

Does the new hardware identical to the old hardware where you capture the image from?

Do you use system cloning? If you do, what settings you are removing or keeping?

Also, what new hardware is getting detected? If you click on the notification (or go to Device Manager directly) it will show you.

so I rebooted, then I got this
"IRQL_NOT_LESS_OR_EQUAL " error.

Anything on that BSOD screen beside the IRQL_NOT_LESS_OR_EQUAL?

so I turned off the power, rebooted
again, this time, it worked fine.

if I got the error first time, why I didn't get it the second
time?
should this happen consistently instead of randomly??

With the IRQL_NOT_LESS_OR_EQUAL it may happen inconsistently,
depending on the faulty driver.

How does your \Windows\SetupApi.log file look like after the new image deployment?

In other words, what's the difference you can see in that log file if you compare it before and after the new image install?

oh, my image is using NTFS, so I didn't format my disk, just
write the

That's fine. You don't have to since you are transferring raw disk data.

image to it directly, will that cause this problem.

```
diskpart>select disk 0  
diskpart>clean  
diskpart>create partition primary  
diskpart>select partition 1
```

Re: IRQL_NOT_LESS_OR_EQUAL and EWF

Better make this partition active.

```
sdimg myimage.sdi /writedisk:0 /yes
```

The approach is pretty dangerous since SDI doesn't deal with MBR properly. But since you got your image booted, it is not an issue for you.

What's the SDI file size?

Did you try using Ghost or other cloning tools?

Or, better, did you try formatting the target partition and [x]copying all the files and folders of your image over there?

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Regards,
KM

KM wrote:

mike,

That is a bad one. I suppose you already looked here:

<http://groups-beta.google.com/group/microsoft.public.windowsxp.embedded/search?>

Do you have EWF enabled on the image?

What mode of EWF you use?

Does the BSOD screen show the faulty driver?

Were there any errors in FBALog.txt?

Could you check the Ever Viewer log to see if any error appears there related to the BSOD?

I couldn't quite understand your second sentence. What you meant by "always include EWF in XPE image"?

Are you working with SP2? (EWF on SP1 had some problems on certain MBs).

And, very good approach would be to connect to your target with a KD (Kernel Debugger, WinDbg) from another computer and catch the

Re: IRQL_NOT_LESS_OR_EQUAL and EWF

blue screen to investigate more the call
stack.

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Regards,
KM

"mike-ca" <bosanovav1@xxxxxxxx>

wrote in message

news:1162493295.151008.48440@xx

sometimes when i reboot
my XPE, i got blue screen
with the message
"IRQL_NOT_LESS_OR_EQUAL".

i googled this, someone
suggest to always include
EWF in XPE image to
avoid this problem. is that
true? i don't understand the
connection
here. can anyone explain
this to me.

thanks!