# Re: Wince OS update Utility

***Source:***
http://www.tech−archive.net/Archive/WindowsCE/microsoft.public.windowsce.platbuilder/2007−10/msg00028.html

- *From*: "Dean Ramsier" <ramsiernospam@xxxxxxxxxx>
- *Date*: Mon, 1 Oct 2007 12:11:03 −0400

The application is in RAM, the operating system is not. If you get an interrupt, generate an exception, or make an OS call then you will be back to running from flash. At that point, you can only hope that you are running from cache, and you won't always be.

You can control interrupts by disabling them, you can ensure you don't make OS calls. But you can't disable exceptions. You have to understand how they could be generated and make sure you do nothing that might cause that to occur (and using the stack is one task that can cause an exception).

−−
Dean Ramsier − eMVP
BSQUARE Corporation

"Sire Buwa" <SireBuwa@xxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message
news:4D7DB1BF−7F0C−4B01−B2FF−68B6257A8833@xxxxxxxxxxxxxxx

> Hi All,
>
> Thanks in advance for all your help. At the moment the Flash erasing functionality works fine. But when I try to write to the flash after deleting
> the required field need to be updated the application stops responding.
>
> But as I mentioned early the same application run without any error when the
> OS image is RAM Image.
>
> At the moment the I manually copy the Application using Active sync. So the
> the Utility application is totally run on RAM.
>
> So is there any reason the Flash Erasing works OK and Flash Write fail ?
>
> Please help me.
> Sira...

"Valter Minute" wrote:

> "Dean Ramsier" <ramsiernospam@xxxxxxxxxx> wrote in
> news:e$gqyb5$HHA.748@xxxxxxxxxxxxxxxxxxxx:
>
> > And make sure no exceptions occur. That means no page
> > faults,
> > stack faults etc. Note that while you have interrupts off,
> > nothing else (including the OS timer) will run. Keeping in
> > mind
> > that the operation can take several *seconds* to complete
> > (the
> > erase, anyway) the system can be disabled for quite a long
> > time.
> > To do this properly is a far more difficult task than what you
> > probably have in mind.
>
> IIRC some flash memories (Intel's strata flash?) allows you to suspend
> and then resume delete operations and this will allow you to re−enable
> interrupts often. Obviously this will slow down the process and will
> made also the task more complex.
> You should consider also that an error during the upgrade operation
> may leave the device in a "bricked" state unless you provide and
> alternate OS image that can be booted or other upgrade mechanism.
>
> −−
> Valter Minute
> (the reply address of this message is invalid)
> (l'indirizzo di reply di questo messaggio non è valido)

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