

Re: Application xxx has encountered a serious error and must shut

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- *From:* GrahamS <[GrahamS@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:GrahamS@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)>
  - *Date:* Wed, 13 May 2009 09:12:08 -0700
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Dean,

Thanks for the response – had a look at the compiler option you mention and it refers to errors in buffer management code – functions like strcpy etc. Well – as I use purely managed code I would 'expect' that the .Net wrappers would ensure this does not occur :-O.

It did however made me look at my code even more critically – and I have two areas (both in the serial interface) where I do an 'Array.copy' to move incoming data into my own buffers. In both instances I do NOT adequately check the returned data length against my own remaining buffer space :-O – so this 'could' well be the root of my problem. I will be beefing up that code at the very least – even though .Net should NOT be allowing me to do that – or even if it does happen – it should exit gracefully and throw me an exception I can (and would!) catch.

Pity that MS doesn't seem to be monitoring this thread – as we are potentially exposing an underlying problem in the .Net CF 3.5 layers here :-O. I thought that such errors should not be able to occur in 'managed code'.

Thanks again....

Regards

Graham

"Dean Ramsier" wrote:

I believe the message is getting triggered by the C run time library after an error was triggered by its buffer overrun checking code. This is controlled by the /GS compiler option, see the docs for more details.

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Dean Ramsier – eMVP  
BSQUARE Corporation

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"GrahamS" <GrahamS@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message  
news:3ACD8546-4A75-4713-AFFC-35194D4675AE@xxxxxxxxxxxxxxxxxxxx

Hi,

I have a CE application which runs pretty well on a number of embedded  
PC's  
(eBox 2300sx).

I am experiencing seemingly random failures however – some appearing  
days  
after the application is started. These put up a dialog with the above  
message (xxx is my app name).

Similar messages have also reported this as being in 'udevice.exe'.

My app is a Managed C# CF3.5 app and makes extensive use of a TCP  
Socket  
and  
a serial port (Com2).

My app has a full set of exception handlers – with some wrapping threads,  
and one wrapping the whole app – but none of these are triggered when this  
dialog pops up.

1. How do I identify what is causing this dialog ??.
2. How do I prevent it from occurring. There is no user – its a remotely  
located device with no screen, keyboard or mouse and MUST run 24x7  
completely  
unattended. There is a UI but for 'diagnostic' purposes only – plug in a  
screen and see what the device is doing.

I would make it a full 'windows service' if this were a PC – but its CE  
:-O.

My app is run from within a command file so that IF it were to crash out –  
it just gets restarted – this all works until the OS puts up this dialog  
box  
:-O – then one of my threads stops (serial port) until the OK button is  
pressed.

This is making me wonder if I really should be using CE for this project  
at  
all :-(.

I cannot really 'instrument' this any further as adding KITL prevents me  
from using the serial and ethernet ports – on which my app is based. It  
also

Re: Application xxx has encountered a serious error and must shut completely changes the footprint of the device and thus may even mask the issue anyway ??.

It 'looks' to me like an exception outside of my own code – maybe in the 'managed wrappers' ??.

This one has been driving me nuts for many weeks now as I cannot get to the bottom of it – especially as the error message is SO unhelpful!.

NB I replaced the MS SerialPort with OpenNetCF Serial and this seems to have made the occurrence rarer – I thought it had gone away – but yesterday it came back again after running perfectly for a few days :-O.

Finally – it does not appear to happen on ALL boxes – although this may well be a 'red herring' – ie there could be other code changes introduced whilst trying to instrument the problem to locate it ;-O.

I am even now getting to the stage of questioning whether CE is the right choice here – if it can put up a show-stopper like this. My eBox has 128M RAM so maybe I should be thinking about Embedded XP or some other OS ?? – ie one which has better support for 'services'.

Thanks hopefully.

Regards

Graham