

Re: JNI EXCEPTION_ACCESS_VIOLATION

Source: <http://coding.derkeiler.com/Archive/Java/comp.lang.java.programmer/2006-08/msg00778.html>

- *From:* "Inácio Ferrarini" <inacio.ferrarini@xxxxxxxxxx>
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Hi there.

I am not experienced (I never did) in coding a dll and access it via Java, but, I would say to you that, if you do not mind, try to use the same DLL via C++ or other windows native language, and, use the same thing on the test app that your Java app uses, and, see if the crash still occurs. This way, you will be able to isolate if the error is internal of the dll or of the way you are using it in Java – even if the error only happens sometimes under certain so quasai conditions – but, as said before, it does not mean that the code is entirely ok.

Hope I Helped,
– Inácio Ferrarini

esandfort wrote:

I have a java application which calls into a VC++ DLL via JNI. Within the DLL, I call some code via a 3rd party API which ultimately does some disk IO. When the "File Writing" code is hit, my application crashes. I get the following error (I'll spare you the entire dump)

```
An unexpected exception has been detected in native code outside the VM.
Unexpected Signal : EXCEPTION_ACCESS_VIOLATION (0xc0000005) occurred at
PC=0x7C9111DE
Function=wcsncpy+0x74F
Library=C:\WINDOWS\system32\ntdll.dll
```

Here are a couple of interesting points...

The code will crash when running under XP Service Pack 2
The code will NOT crash when running under Windows 2000 Service Pack 4

When running on XP, the code will crash if the java program makes either of the following calls before making the JNI call:

```
UIManager.setLookAndFeel("com.sun.java.swing.plaf.windows.WindowsLookAndFeel");
– or –
```

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```
UIManager.setLookAndFeel(UIManager.getSystemLookAndFeelClassName());
```

When running on XP, the code will NOT crash if I omit the setLookAndFeel() call all together, or use an alternate L&F (Metal for example)

I have spent the past couple of days trying to find clues to this problem on the newsgroups, and have had absolutely no luck.

If anyone has any experience with this problem, I would appreciate any leads.

Also – if anyone could recommend any tools and/or techniques that would be useful in debugging a VM crash such as I described above, that would be appreciated as well.

Thanks!

Ed Sandfort