Crashdump bitness

Posted by nachiket - 31 Aug 2011 - 22:41

Hi,
Is there a way to find out if a dump was created using 32bit or 64bit debugger?

Thanks
Nachiket

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Re: Crashdump bitness

Posted by Robert Kuster - 09 Oct 2011 - 15:26

Welcome Nachiket.

You can actually open a 32-bit dump with both a 32- or 64-bit WinDbg. At the same time you can open a 64-bit dump with both variants of WinDbg too. So, how to find out the bitness of a dump in question? When I open a dump on my machine, I get a text that look like this:

32-bit dump; 32- or 64-bit WinDbg: Windows 7 Version 7601 (Service Pack 1) MP (8 procs) Free x64
64-bit dump; 32- or 64-bit WinDbg: Windows 7 Version 7601 (Service Pack 1) MP (8 procs) Free x86 compatible

Alternatively you can use another handy trick: Check out what kind of registers were stored in the dump. For example, RAX will exist only in 64-bit dumps.

32-bit dump; 32- or 64-bit WinDbg: r rax -> Bad register error in 'r rax'
64-bit dump; 32- or 64-bit WinDbg: r rax -> returns the register value

I hope this helps,
Robert

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