

## Re: Regarding 64 bit machine

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<http://www.tech-archive.net/Archive/Development/microsoft.public.development.device.drivers/2007-06/msg00585.1>

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- *From:* qwert <qwert@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
  - *Date:* Wed, 20 Jun 2007 02:10:01 -0700
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Hi,

Thanks for the info. I have few more doubts. I am new to this.

1. Right now I have intel 64 bit processor (Processor – EM64T ) and windows server 2003 x64 edition. For this I used server 2003 x64 build in wdk. It works. Can I install windows xp x64 edition in a EM64T machine. For this the build is again server 2003 x64 build (If I am correct)???????

2.

WindowsXp-x64 is the Client SKU of the Win2003-Sp1 code-base, and, it's for AMD64. There was no release of a client SKU of the Win2003 OS for the Itanium platform, only the server SKU was released. [I could speculate over the existence of WinXp-IA64, but, that product was deemed not-supported before WinXp-SP2 was released.]

Does the above statement mean that Itanium architectures are only used for servers right now????

so the os in this case will always be windows server 2003.

Am I correct??

we cannot install windows xp x64 edition which is available now on a itanium architecture machine but it can be installed in EM64T machine.

please clear my doubt.

I am a bit confused.

THANKS IN ADVANCE

"Ivan Brugiolo [MSFT]" wrote:

The DDK supports building for 3 architectures, the 3 architectures for which there are versions of Win2003/WinXp. Those architectures are, in strict DDK jargon: `i386`, `AMD64`, `IA64`. Implementation of those architectures have different names and marketing names. For example, `AMD64` is called `x64` in marketing terms, and, CPUs that implement that architecture are, for example, the Athlon64, Operton, Turion64, Core Duo 2, Pentium4-EM64T.

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For the IA64, the story it's simpler. It's marketing name is Itanium, and the only chip available nowadays is the `Itanium-2`.

AMD64 and IA64 architecture can run most of the i386 user-mode binaries under the wow64 environment, but, they cannot run device drivers compiled for i386.

You need to understand if your customer has a machine that falls into the `AMD64` bucket or into the `IA64` bucket.

Then, select the right build environment.

Intel produces both `amd64` and `ia64` chips (under a rather confusing set of names, IMHO), so, it's not clear what your customer has.

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"qwert" <qwert@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message <news:3E56B93F-DFD9-4BD2-8A1A-89A022D4B6F9@xxxxxxxxxxxxxxxxxxxx>

Hi,

I have a driver that is build for xp windows x64 edition,with amd 64 bit processor.

For this I used windows server 2003 x64 free build in wdk environment. For intel 64 bit processor should I build the driver again in IA64 environment ??

I am using an application that links with some of the libs in wdk.

My customer wants 1 application for 32 bit processor and 1 application 64 processor.when I see wdk folders I see there are 3 folders(ia64,amd64,i386)

so basically I have three libs,for example if I try to link hid.lib to my application I have 3 hid.lib s in these folders.cant I use the hid.lib in amd64 for a intel 64 bit processor with windows xp x64 edition os.will it work.I dont have the machine to check right now. cant I have one common application ?

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