

Re: Scalable processor support

Source:

http://www.tech-archive.net/Archive/WinXP/microsoft.public.windowsxp.help_and_support/2006-09/msg01783.htm

- *From:* John John <audetweld@xxxxxxxxxxx>
 - *Date:* Mon, 11 Sep 2006 21:57:20 -0300
-

What? I'm saying that Windows XP Home supports Multicore processors such as the Intel Core 2 Duo or its AMD counterparts on a single socket. These processors include two processing cores per chip, that is, one die (socket) with two CPU cores. Windows XP Home supports these processors. They will be shown as 2 cpu's in the operating system tools but they are seated on one processor socket on the motherboard.

Windows XP Home does NOT however support multiple processors on multi-socket motherboards. Generally speaking these board are reserved for high end workstations and servers. An example of a 2 processor mother board is shown here: <http://www.tyan.com/products/html/thunderh2000m.html> As I said, Windows XP Home does not support these board/processor configurations. Windows XP Professional supports 2 processor motherboards. Here is an example of a 4 processor board: <http://www.supermicro.com/Aplus/motherboard/Opteron/nForce/H8QC8.cfm> Windows XP Professional does NOT support more than 2 processor sockets, to run such a board you would need a Server Operating System or an *nix.

Needless to say that most average home users have little need for multiple processor motherboards. A 2 processor motherboard equipped with 2 dual core processors would in effect be a 4 processor system.

As for your question about different speeds on the same chip I don't know what you are referring to but I can guarantee you that both cores on dual cores have the same clock speed and that multi-socket motherboards must be equipped with matched chips.

John

Daniel wrote:

Hey, are you saying that Toshiba laptops don't come with XP Pro, and you have to upgrade from Home Edition?

Is a Core 2 Duo two separate Processors each with two lines of information, effectively making four lines of information? And why are there different speeds on the same chip?

"John John" wrote:

XP Home supports multi-core processors, such as the Core Duo. It does not support multiple processors on multiple sockets.

Re: Scalable processor support

John

Ron wrote:

This "Scalable Processor support" is not supported as per the Comparison link. "Core Duo" as in T2400 as well as hyperthreading P4 are seen as TWO CPU by an OS. I would like to know clearly and definitively that both CPU's within chip are fully supported by XP HOME w/SP2. It is almost imposible to get the notebook hardware configuration & XP Pro from HP or Toshiba's notebooks. I purchased a Toshiba and the configuration was not available in the Pro lineup so I settled for the hardware I wanted with HOME version of XP knowing that I could replace it if necessary. OEM don't provide a upgrade path option so driver package implementation is very time consuming.

"Bruce Chambers" wrote:

cluelesstotheend wrote:

I have been looking at upgrading my pc with the xp pro upgrade with sp2 as its cheaply available here. Is it possible to upgrade to this if my computer is running xp home and win98 (yes I know I do need two of the upgrades)
cheers

Certainly. WinXP is designed to install and upgrade the existing operating system while simultaneously preserving your applications and data, and translating as many personalized settings as possible. The process is designed to be, and normally is, quite painless. That said, things can go wrong, in a small number of cases. If your data is at all important to you, back it up

Re: Scalable processor support

before proceeding.

The upgrade from WinXP Home to WinXP Pro, in particular, almost always goes smoothly, as both operating systems use the same kernel.

However, do you really need to upgrade? The WinXP Home and WinXP Pro versions are identical when it comes to performance, stability, and device driver and software application compatibility, but are intended to meet different functionality, networking, security, and ease-of-use needs, in different environments. The most significant differences are that WinXP Pro allows up to 10 simultaneous inbound network connections while WinXP Home only allows only 5, WinXP Pro is designed to join a Microsoft domain while WinXP Home cannot, and only WinXP Pro supports file encryption and IIS. (Oh, and WinXP Pro usually costs roughly \$100 USD more than WinXP Home.)

Windows XP Comparison Guide

<http://www.microsoft.com/windowsxp/home/howtobuy/choosing2.asp>

Which Edition Is Right for You

<http://www.microsoft.com/windowsxp/whichxp.asp>

Windows XP Home Edition vs. Professional Edition

http://www.winsupersite.com/showcase/windowsxp_home_pro.asp

Have you verified that all of your Win98 PC's hardware components are capable of supporting WinXP? This information will be found at the PC's manufacturer's web site, and on Microsoft's Windows Catalog: (<http://www.microsoft.com/whdc/hcl/default.mspx>)

You should also take a few minutes to ensure that there are WinXP-specific device drivers available for all of the machine's components. There may not be, if the PC was specifically designed for Win98/Me. Also bear in mind that PCs designed for, sold and run fine with Win9x/Me very often do not meet WinXP's much more stringent hardware quality requirements. This is

Re: Scalable processor support

particularly true of many models in Compaq's consumer-class Presario product line or HP's consumer-class Pavilion product line. WinXP, like WinNT and Win2K before it, is quite sensitive to borderline defective or substandard hardware (particularly motherboards, RAM and hard drives) that will still support Win9x.

HOW TO Prepare to Upgrade Win98 or WinMe

<http://support.microsoft.com/default.aspx?scid=kb:en-us:Q316639>

Upgrading to Windows XP

<http://aumha.org/win5/a/xpupgrad.htm>

--

Bruce Chambers

Help us help you:

<http://dts-l.org/goodpost.htm>

<http://www.catb.org/~esr/faqs/smart-questions.html>

They that can give up essential liberty to obtain a little temporary safety deserve neither liberty nor safety. –Benjamin Franklin