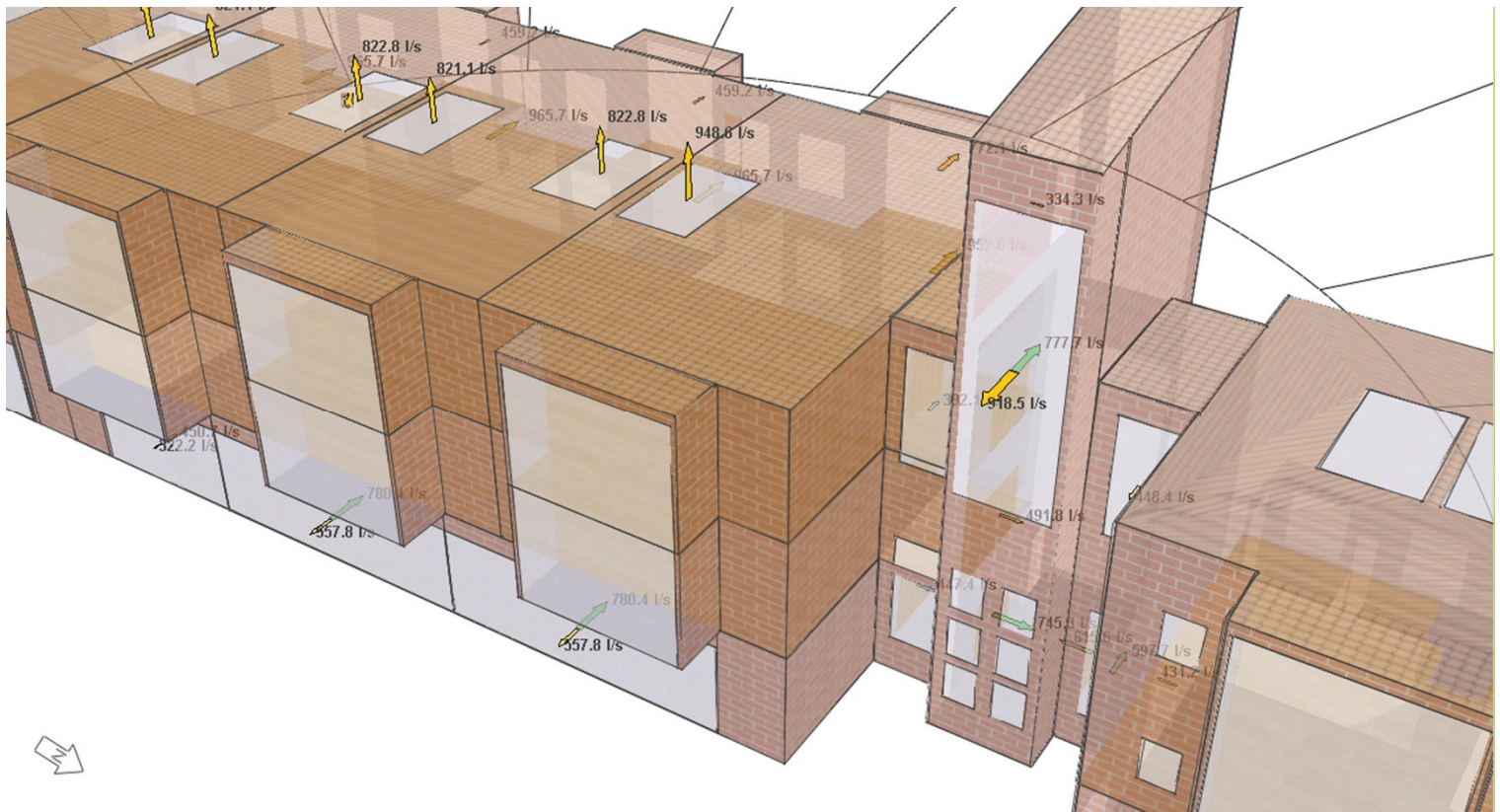


IES <Virtual Environment>

Supporting the <VE> on Apple Mac Computers

Date: Tuesday, 01 December 2009



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Questions and Answers

Introduction

This document provides questions and answers about using IES <Virtual Environment> with Boot Camp[®], part of Mac OS[®] X that enables you to install and run Microsoft[®] Windows[®] (and Windows-based applications) on a Mac[®] computer or with virtualisation tools, which allows users to run applications in each operating system without restarting their computer. Our recommended virtualisation tools are VM Fusion, available from VMWare, Inc. and Parallels Desktop available from Parallels, Inc.

Can I install IES <Virtual Environment> on a Mac computer?

Yes, you can install the IES <Virtual Environment> (32 or 64 bit) on a Mac computer on a Windows partition. The system must use Boot Camp or a virtualisation tool to manage a dual OS configuration and meet the minimum system requirements.

What is Boot Camp?

Boot Camp is a utility provided with the Mac OS X. You can install Windows[®] XP, Windows Vista[®] or Windows 7[®] on an Intel-based Mac computer by partitioning the hard drive. The Boot Camp Assistant guides you through the process. After installation, use Boot Camp to operate your Mac using a dual boot system. You specify the required operating system (Windows OS or Mac OS) when you start the computer. Once you start the computer, the selected OS runs in native mode. If you start the computer in Windows, you can install and run Windows applications at native speeds.

Note: You must purchase the Windows Operating System software separately.

What are virtualisation tools?

Virtualisation tools map the hardware resources of the host computer to a virtual machine using a guest operating system. Use the utility to run applications in the required operating system without restarting. Our recommended virtualisation tools are VM Fusion, available from VMWare, Inc. and Parallels Desktop available from Parallels, Inc.

Note: You must purchase the Windows Operating System software and the virtualisation software separately.

Note: Your Mac must have enough memory to run the Mac OS X and your Mac applications. It also needs memory for the virtual machine's operating system and the applications installed on the virtual machine.

How does Boot Camp differ from virtualization?

Boot Camp is a dual boot configuration that allows the selected operating system to run in native mode. To use virtualization start the computer using the Mac OS, and then use the virtualisation tool to start the Windows OS as a virtual machine. You can then run applications in each operating system without restarting the computer.

Questions and Answers

Which configuration provides the best performance?

For maximum performance, use Boot Camp to run the <Virtual Environment> in a native Windows OS. Virtualisation, however, provides greater convenience and good performance.

What about licensing?

You can use either a standalone or network license of the <Virtual Environment>. Using the virtualisation tools to host a network license is not supported.

Who do I contact for support?

- For questions and issues related to Mac operating systems or Boot Camp, contact Apple. www.apple.com
- For questions and issues related to VM Fusion, contact VMware, Inc. www.vmware.com
- For questions and issues related to Parallels Desktop, contact Parallels, Inc. www.parallels.com
- For questions and issues related to Windows operating systems, contact Microsoft. www.microsoft.com
- For questions and issues related to the <Virtual Environment> contact IES www.iesve.com/support

IES has produced a supporting video which shows how to export files from a Mac SketchUp installation into its software using VMware Fusion. It is available to view at <http://www.youtube.com/user/IESVE>.

What are the Mac hardware requirements?

Operating System	Mac OS X 10.5.x.
Processor	Intel-based Mac (64-bit Windows Vista requires an Intel® Core™ 2 duo or Xeon® processor).
RAM	3-GB minimum
Disk space	Minimum 20-GB for the Mac OS partition, minimum 20-GB for the guest OS partition.
Boot Camp	V 2.0 or higher.

Questions and Answers

What are the Windows system requirements?

Operating System*	<ul style="list-style-type: none">• Windows XP SP3 (32bit or 64 bit).• Windows Vista (32bit or 64 bit).• Windows 7 64-bit (32bit or 64 bit).
Browser	Internet Explorer® 6, SP1 or higher.
Graphics Display	1280 x 1024 monitor and display adapter capable of 24-bit colour. Dedicated video card with hardware support for Microsoft® DirectX® 9 or later recommended.

*For additional information, refer to the system requirements for the <Virtual Environment> - www.iesve.com/support

What are the typical system minimum requirements for virtualisation tools?

Operating System	Mac OS X 10.5.8 or later; Mac OS X 10.6 or later
Processor	Intel-based Mac (64-bit Windows Vista requires an Intel Core 2 duo or Xeon processor).
RAM	Minimum 1GB of RAM (2GB RAM recommended)
Disk space	700MB free disk space for the application and at least 5GB for each virtual machine.

How do I use Boot Camp?

For answers to common questions, visit: <http://www.apple.com/support/bootcamp/>

The basic steps to install Boot Camp are:

- In the Mac OS, locate the Boot Camp Assistant in the Applications > Utilities area.
- Print the Installation and Setup Guide.
- Follow the instruction contained in the Boot Camp Setup Guide to create and pre-format the Windows partition.
- Install Windows.

Warning! Do not format or install Windows on the Mac OS partition.

Note: To complete the install process, you may need access to the Mac Operating System DVD to install the necessary Windows drivers.

After I configure Boot Camp, how do I specify which operating system to use?

You can specify the default Operating System in the Boot Camp assistant. Or, hold the Option key (or 'alt') down when you start, and then choose the required operating system.

Questions and Answers

How do I use virtualisation?

To purchase the software or obtain answers to common questions, visit www.vmware.com or www.parallels.com

The typical steps to install and configure virtualisation tools are:

- Optional - Follow the steps to configure Boot Camp and create a Windows partition on the hard drive.
- Start the computer in the Mac OS.
- Install the virtualisation application. If a Boot Camp partition exists, these tools can detect and use the Boot Camp partition. Alternatively you can create a new virtual machine and install Windows from DVD.
- Once you have installed and configured the virtualisation tool, start the application and then install the <Virtual Environment> on the Windows installation. Use Full Screen mode to maximize the Windows application screen area.

With VM Fusion, enter Unity mode to integrate Windows applications into the Mac OS. With Parallel's desktop, Windows applications automatically appear in the dock. Use options to 'Keep in dock'.

You can dock applications from the Virtual machine to the System Dock in order to launch the <VE> with one single click.

Note: You may wish to setup a Boot camp partition initially then import into a virtualisation tool. This prevents the windows installation from being installed twice and leaves the initial configuration intact. Boot Camp can be configured before or after the virtualisation installation. Configure Boot Camp first to retain Windows customisation.

Should I use a Fat32 or an NTFS partition?

When you install Windows, you can choose to format the Windows partition as Fat32 or NTFS. There are advantages and disadvantages to each. We recommend that you use NTFS.

Fat32

- Ability to read/write Windows files from the Mac OS
- Less secure (no permissions scheme)
- Maximum 32 GB partition size

NTFS

- More secure
- More space efficient
- Supports partition sizes greater than 32 GB
- Read-only in OS X

Notes for laptop users:

- If you are using the laptop keyboard, you may need to press the **fn** (function) key with the **control**, **alt** (option), **delete** keys to start Windows.
- Because a notebook is configured to preserve battery life, the Power Options may need to be adjusted to take full advantage of processor speed. For example, a 2.8 GHz processor may be operating at 1.59 GHz to conserve power using the default Portable/Laptop setting.