

1 Debian 9 on the HP Stream Notebook (UEFI + Wireless)

I report my experience installing the latest Debian version on an HP 'Stream' Notebook, which uses the UEFI. It only has a wireless network interface, and the wireless firmware is available as a binary blob, so the firmware has to be provided separately during installation – there are tricks to doing this. The full report is in the 'Interest' section of our website.

'Stream' Specs: 32GB SSD (Flash/eMMC), 1GB RAM, 2 x USB ports, Intel Dual Band Wireless 3165.

Debian 9 Version: size=662700032 name=debian-testing-amd64-xfce-CD-1.iso

Wireless Firmware: size=5523840 name=firmware-iwlwifi_20161130-2_all.deb

Configure UEFI: legacy support + secure boot disabled; clear secure boot keys; uefi boot from usb stick

Prepare Firmware: clear a USB so it is all free space and copy firmware .deb package onto it

Partitioning: tell Debian to use the existing ESP (uefi sysstem partition)

Post-Install: to recover /sbin/ifconfig, run # apt-get install binutils

2 Latex and Loving It! — an Intro. to the Publishing Suite

I thought I would give you a feel for the LaTeX suite of technical and scientific publishing software, which can be used in many other fields.

Look: <https://en.wikipedia.org/wiki/LaTeX>

Access: # /usr/bin/apt-get install texlive-full

Try: search for: Introduction to LaTeX on Linux – LinuxConfig.org.html

wget <https://upload.wikimedia.org/wikipedia/commons/2/2d/LaTeX.pdf>

BOOK: LaTeX: A document preparation system, Users guide and reference manual by Leslie Lamport (Addison-Wesley)

BOOK: The LaTeX Companion by Frank Mittelbach et. al. (Addison-Wesley)

Evaluate: <http://tex.stackexchange.com/questions/1756/why-should-i-use-latex>

Xplore: <http://tex.stackexchange.com/questions/120271/alternatives-to-latex>

3 The Linux Kernel compared with Other Kernels

We had a question at our U3A course recently – "How is the Linux kernel operation different to Windows?" – and we really could not answer it, so here is an overview to help orientate us about that.

Types (search for:) Comparison_of_operating_system_kernels-Wikipedia.html

Linux_Kernel_vs_Other_Kernels_Linux.org.html

Windows_Kernel_vs_Linux_Kernel.html

The_Linux_Kernel_Types_of_Kernels_Linux.org.html

[https://en.m.wikipedia.org/wiki/Kernel_\(operating_system\)](https://en.m.wikipedia.org/wiki/Kernel_(operating_system))

Linux http://en.m.wikipedia.org/wiki/Linux_kernel

http://en.m.wikipedia.org/wiki/User_space

Windows http://en.m.wikipedia.org/wiki/Architecture_of_Windows_NT
