

hLinux

HP's Debian derivative a year later

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Survey

- ▶ Are you a DM/DD?
- ▶ Do you work on a blend?
- ▶ Do you work on a derivative?
- ▶ Do you work for HP?

Helion and hLinux

Helion

- ▶ OpenStack based
- ▶ Offerings in public, private, and hybrid clouds

hLinux

- ▶ Debian Jessie
- ▶ Foreign Packages
 - ▶ Modified for specific needs
 - ▶ Not found in Debian
 - ▶ The goal is to get into Debian wherever possible
- ▶ Kernel
 - ▶ 3.14 and 4.1 longterm kernels
 - ▶ Driver enhancements with External Partners

hLinux - Year 2014

Debian

- ▶ The clear choice

HP Helion

- ▶ Distribution model as “embedded”
- ▶ Unknown update process or exposure to customers
- ▶ Do not want to break or harm Debian and its reputation
- ▶ Avoid Debian getting blamed for our packages

DebConf14

- ▶ Great feedback and enthusiasm
- ▶ Encouragement to use existing tools
- ▶ Get involved!

hLinux - Involvement

- ▶ Overall, we fell short
- ▶ gcc5 effort
 - ▶ Over 60 patches submitted and over 80 bugs closed (not bugs, fixed, etc.)
 - ▶ Great learning exercise
 - ▶ Feedback was great, team is ready to do more
- ▶ Rebuild of entire arm64 archive

hLinux - Rebranding

Protect Debian

- ▶ Intent was to avoid harming Debian
- ▶ Have people come to us where we make changes
- ▶ Done by adding +hLinux to version

Lessons Learned

- ▶ Many, many crazy versions, but all valid according to Debian policy guidelines
- ▶ We were too paranoid
- ▶ All Debian wisdom really is online
 - ▶ Policy manual and mailing lists
 - ▶ However, the wisdom takes time to digest

hLinux - Tooling

Distribution Tools

- ▶ Day 1 used Debian tools, but not the best ones
- ▶ reprepro
- ▶ aptly

Packaging

- ▶ git-buildpackage
- ▶ wrapper for a git hook

hLinux - Areas of Contribution

QA

- ▶ 30 years of HP-UX and Red Hat experience
- ▶ Bring those tools and QA to Debian
- ▶ Access to hardware
- ▶ Testing of Debian testing

HP Servers

- ▶ Manageability and tools

ARM64

- ▶ HP Moonshot m400
- ▶ First class experience
- ▶ uEFI and secure boot support

hLinux - Areas of Contribution (cont.)

QEMU

- ▶ Do not enable SDL, avoid X11 and Pulseaudio
- ▶ Most current QEMU stable version
- ▶ Watch for CVEs

Containers

- ▶ Lots of interest
- ▶ Investigating a solution
- ▶ Manageability

hLinux - Areas of Contribution (cont.)

Security

- ▶ On-going vulnerability scanning
- ▶ re: OVAL Bug #738199 and #794615

Secure Boot

- ▶ kexec-tools, kdump-tools, efibootmgr, sbsigntool, grub2, systemd
- ▶ Very interested in the recently formed group
- ▶ Want to share our learnings

What's in a name?

- ▶ hLinux is an internal name (codename)
- ▶ We are Debian, with some additions
 - ▶ Foreign packages
 - ▶ e.g. kernel, newer packages, missing packages
- ▶ Advantageous for HP and Debian to work together

Thank you!

Big thank you for the help and warm welcome!

Any comments and questions can be sent to:

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