



The road to Pi

Fedora on the Raspberry Pi

Presented by

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Red Hatter, IoT Cat Herder, Fedora Contributor

About Me

- Linux user for 20+ years
- Fedora contributor for a long time
- Started hacking on ARM for fun 6.5 years
- Fedora Alt Arch release engineering
- Red Hat IoT platform lead (cat herder)
- Aussie

About Fedora



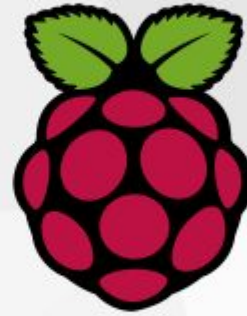
Four Foundations

The four foundations are the core values of the Fedora community:

- Freedom: dedication to free software and content.
- Friends: represents the strength of our community.
- Features: commitment to excellence.
- First: a commitment to innovation.

Contribute

- To get Fedora: <https://getfedora.org/>
- Get started on the Raspberry Pi: https://fedoraproject.org/wiki/Raspberry_Pi
- To find fun things to do: <http://whatcanidoforfedora.org/>
- To get help: <https://ask.fedoraproject.org/>
- To get news: <https://fedoramagazine.org/>



Why so long?

Boring gory details

- Engage with legal to redistribute firmware
- Fedora Board for firmware exception
- Upstream kernel support
- Open Source GPU graphics driver
- Good end user experience
- Typical user is not an advanced Linux User so needs a simple way to get started
- What is the MVP for the above??

Fedora 25 details

- Support for all Spins (GNOME Workstation, Server, Minimal, other UXes)
- Single disk image for RPi 2/3 and others
- Fairly decent desktop support (for \$35 dev)
- 100% pure Fedora! No hacks!
- Easy to enable new features via standard upgrade process during F-25 cycle
- RPi 3 WiFi/Bluetooth planned for F-25 Final
- Currently no sound :-)

Future Developments

- Graphical installer for Windows/MacOS
- RPi 3 aarch64 support in Fedora 26
- RPi 3 compute module support
- HAT support esp the Sense HAT (IoT)!
- Sound/camera/video acceleration
- More... watch this space ;-)

Summary

- We got there eventually, lots still to do
- Still get to deal with early adopter issues due to being early to do mainline kernel and open VC4 GPU driver
- Engaging with upstream is critical (thanks Eric Anolt!!!)
- Polishing the final features for F-25
- Still preparing for Fedora 25 GA onslaught of new users

Getting involved

- See previous contributing slide
- Fedora mailing lists (arm@ iot@ and others)
 - <https://lists.fedoraproject.org/>
- Fedora IRC eg: #fedora-arm #fedora-iot
- Lots of others that I can't think of :)

Questions?



Contact:

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