Ubuntu ARM
David Mandala
8 April 2009
Topics

- What is Ubuntu ARM edition
- Challenges
- Future
- Community
- Resources
Ubuntu ARM

- Completely based on Ubuntu core technology
  - Complete rebuild of Main & Universe Repositories
  - Built for ARMv5
Ubuntu ARM

- What is Ubuntu ARM edition?
  - Completely based on Ubuntu core technology
  - GNOME desktop, mobile, recompiled for ARMv5 currently
    - Port of Main & Universe Repositories
      - 99% of the main archive and 96% of the Universe repositories compiled
    - Some optimization for VFP and NEON in libraries
Ubuntu ARM

- What is Ubuntu ARM edition?
  - Who is it for?
    - ODMs and OEMs making ARM Laptops and Netbooks, devices where full desktop support is desired/expected.
    - Community
Ubuntu ARM

- Challenges:
  - Historically has been deeply embedded and not a desktop environment
    - No X 2D or Mesa 3D accelerators.
    - Does have hardware acceleration but no drivers yet.
  - LiveCD images, try before install.
  - Upgrade cycle
  - Native Build Systems
  - Generalize Build process
  - No PCI bus
Ubuntu ARM

- Future:
  - 2 and 3D accelerated drivers for the desktop
  - Recompile for ARMv6 with multi core, VFP and NEON support turned on
  - Live daily images on selected ARMv7 hardware platforms
  - Will be for anyone with an ARM notebook or netbook device, to install or upgrade
How do we involve community?
Ubuntu Community

- Open Engagement with the community for ARM platforms:
  - We have entirely transparent community processes.
  - Mobile track at Ubuntu Developer Summit (UDS), specifications that are open to community participation.
  - a Code Of Conduct.
  - a number of open and transparent community councils and boards.
  - We use launchpad.net to make it easy to interact with different projects and community.
Ubuntu Community

- Open Engagement with the community for MID and netbook platforms:
  - Three person dedicated community team that also works to grow and propagate the community.
  - Work to use upstream Open Source software at the heart of our mobile solutions.
    - Engage with upstream communities and work with them.

- These are the driving forces behind change and growth in the Ubuntu
Ubuntu Resources

- https://wiki.ubuntu.com/MobileTeam
- https://edge.launchpad.net/ubuntu/jaunty/armel/+builds
- https://launchpad.net/~ubuntu-mobile
- IRC: FreeNode #ubuntu-mobile
Thank you