Yocto Project lore: New mailing list tools

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About me

- Involved in Yocto Project since 2013
- Work across the whole embedded stack
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About this talk

- What is public-inbox & lore.kernel.org?
- What is b4?
- Demo
- Patch Attestation & patatt
Acknowledgements

- public-inbox contributors
- Konstantin Ryabitsev
public-inbox

- “Archives-first” mailing list implementation
- Uses git as backing store
- Access via web interface with search, Atom feed, IMAP & NNTP
- Indexed by Message-ID
- [https://public-inbox.org/README.html](https://public-inbox.org/README.html)
lore.kernel.org

- public-inbox instance for Linux Kernel community
- Expanded to include many other project mailing lists
- https://lore.kernel.org/
Yocto mailing lists on lore.kernel.org

- https://lore.kernel.org/openembedded-core/
- https://lore.kernel.org/openembedded-devel/
- https://lore.kernel.org/bitbake-devel/
- https://lore.kernel.org/yocto/
- More: meta-arm, docs, meta-freescale & toaster
b4

- Helper utility to pull patches from public-inbox archives
  - Uses lore.kernel.org by default
- `b4 am`: Download patches to apply with `git am`
- `b4 pr`: Handle pull request messages
- `b4 ty`: Send thank you messages using templates
b4 demo

https://youtu.be/dMzECZIOwto
patatt

- Easy to use, end-to-end attestation for patches sent via email
  - Confirms that an author is not being impersonated

- Implemented using additional message headers
  - Does not obstruct `git am`

- Integrated with b4: `b4 attest`
Links for b4 & patatt

- [https://pypi.org/project/b4/](https://pypi.org/project/b4/)
- [https://pypi.org/project/patatt/](https://pypi.org/project/patatt/)
- Repositories on [https://git.kernel.org/](https://git.kernel.org/)
Doing more with Lore

lore+lei

https://people.kernel.org/monsieuricon/lore-lei-part-1-getting-started
Further Info from Konstantin Ryabitsev

- “Doing more with lore and b4” from Linux Plumbers 2021
  https://www.youtube.com/watch?v=wTpQYM08_Yg

- “Patatt: End-to-end Patch Cryptographic Attestation for Patches” from Linux Security Summit 2021
  https://www.youtube.com/watch?v=xc3TAMQhm1M