A Brief Survey through Genode’s ARMv8 Playground

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1. Introduction

2. Genode Embedded Prospects
   - Kiosk System
   - IoT Gateway
   - Industry control system

3. Roadmap 2020
History of Genode on ARM

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History of Genode on ARM

FYI: https://genodians.org/nfeske/2019-11-20-arm-soc-landscape
Open Source needs Open Hardware
Demonstrator

NXP i.MX 8M Evaluation Kit
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3. Roadmap 2020
Wannacry-Attack at Deutsche Bahn

(Photo: Martin Wiesner)
i.MX-based IoT Gateway from Compulab
Business specific Legacy Application

Interface of SCADA system simulator

(Picture: Eka Nugraha, Ade Gafar Abdullah, Dessy Hakim)
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Roadmap 2020

- Sculpt i.MX 8M on MNT Reform
- Platform Driver
- Extended Virtio Support for VMM
- Hardware-accelerated Graphics
References

Demo branch
https://github.com/skalk/genode/tree/fosdem

MNT Reform
https://mntre.com

USB Armory
https://inversepath.com/usbarmory
Thank you!

Q&A