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Hypervisor/Kernel sub-group meeting 29/06/2026

Core Collective Virtualization Group



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29/06/2026

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Agenda

- Proposal for Virtualization sub-groups
- Nested Virtualization
- Real-time

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Modify Virtualization group structure

- Kernel/Hypervisor
  - Rename to Xen
  - Include FF-A
- Cancel FF-A sub-group
- Simulation
  - Rename to Qemu/KVM
- Virtio
  - Keep as is
  - Include Linaro HVAC activities when restarting (virtio-msg)
- Maintenance
  - Remove
  - Keep a monthly cross sync for the whole virtualization group

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Nested Virtualization

- Use cases ?
  - What hypervisors ?
    - pKVM/KVM/Other on top of Xen (AMD)
    - Gunyah (QC, nobody here knows)
  - What sub-hypervisors ?
  - What domain (cloud, phone, embedded, other) ?
    - Testing in the cloud (xen on top of KVM), might already be supported in KVM
    - Xen on xen also useful
    - KVM/pKVM on Xen
    - Simulation (Qualcomm), split acceleration, trap everything and forward to a VMM
- What work is needed ?
  - Nested virtulization in Xen (AMD looking for other contributor)
- Who wants to contribute ?
  - AMD (but not alone) – Xen nested virtualization, development (Xen nested), virtio interfaces
  - Arm: Android on Xen (automotive): solution for KVM in automotive (CrosVM),
    - Involve android auto in the discussion
  - Split acceleration (Qualcomm, Alex) – Modify KVM or ?? – Move to simulation group
    - Need nested first, then special interface to forward to QEMU
    - AMD is looking at a solution based on xen pvguest
    - Start a discussion: Qualcomm/Linaro/AMD on pvguest, mono VM solution
    - Alex work: https://gitlab.com/stsquad/linux/-/commits/trap-me-harder-2?ref_type=heads
    - Goal: TCG run faster (Qualcomm), Simulate a full stack
      - TODO: confirm we will really win some perfs
      - TODO: Push the subject to other people in Qemu (Alex, Mark), QC happy to bring some manpower

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Real-time

- What use cases ?
  - Industrial ?
  - Automotive - Big use case
  - Robotic – New comer
- What hypervisors/guest Oss ?
  - Xen ?
  - Linux ?
  - Zephyr ?
  - Others ?
- What work is needed ?
  - xx
- Who wants to contribute ?
  - xx

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Subjects for next meeting

- Subjects
  - What an hypervisor should trap ?
  - Xx
- When ?
  - Bertrand OoO until 20/07

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Tack
ಧನ್ಯವಾದಗಳು
Merci
Danke
Gracias
Grazie
谢谢
ありがとう
Asante
Thank you
감사합니다
धन्यवाद
Kiitos
شكرًا
ধন্যবাদ
תודה
ధన్యవాదములు
Köszönöm



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