

Agenda: x86 Community Call April 2018

Meeting minutes are in:

https://docs.google.com/document/d/1oFfS9XB2i2T_p89kQ6fGTZIfu60qDJXPRtoyPs7fPOk/edit#heading=h.whkmnl81x2pf

We seem to have a number of design related discussion on the agenda, as well as some series.

Project Management stuff to keep the Momentum going

I will keep these in the agenda for progress tracking, but do not expect a discussion unless someone requests so. Open ACTIONS marked in RED, closed in blue.

[RFC XEN PATCH v4 00/41] Add vNVDIMM support to HVM domains

<https://xen.markmail.org/thread/6uzmarlws73mq5d>

Plan forward

Royger to work with Zhang: write down the updated design first. Then resolve the difficult outstanding issues either by mail or if this doesn't work in a meeting.

ACTION (only sent to Royger, not on list): Haozhong Zhang to update the design doc and include it into the next version of the series (1st patch of series).

There were several off-line discussions and a whiteboard discussion. This seems even more complex than we thought. This looks like it is progressing, but Royger/George have come across gaps in relevant sections of ACPI / UEFI / NVDIMM specs, which make resolving this hard.

ACTION: Haozhong Zhang to drop the RFC and CC George and Roger

ACTION: Royger will help and give feedback. George will also be involved as he needs to review the memory side of the series. He will

ACTION: If needed - we can set up a meeting between Zhang and other stakeholders. Lars and John to take over an admin role to make sure developers can focus on the substance.

[PATCH RFC 00/10] x86 passthrough code cleanup

Sent in for meeting agenda by Wei

<https://lists.xenproject.org/archives/html/xen-devel/2018-02/msg01939.html>

ACTION (DONE): John - ask Kevin Tian to give a clear go/no-go decision about the direction of this series

ACTION: Janakarajan Natarajan (AMD) to follow up within AMD

[PATCH 0/7] paravirtual IOMMU interface

Sent in for meeting agenda by George

<https://marc.info/?l=xen-devel&m=151843249327749>

<https://xen.markmail.org/thread/kmxk4hoj2ao65qsa>

ACTION: Paul to resend the series with a clear problem statement. It may also make sense for Andy, Paul and George to sit together

[PATCH v4 0/4] x86/cpuid: enable new cpu features

From: Yang Zhong

Link: <https://lists.xen.org/archives/html/xen-devel/2018-01/msg00049.html>

ACTION (DONE): Lars to point to the existing tool

See http://xenbits.xen.org/gitweb/?p=xen.git;a=tree:f=tools/tests/x86_emulator

Also, if you look in Jan's emulator series, most patches touch both the hypervisor and that test logic, e.g. many patches in <https://xen.markmail.org/thread/roukz6r3gcuhxinn>

ACTION: John will make sure that Yang is following up on this.

UPDATES / Design Discussions

PVHv2 Status (Royger)

Royger will give an update on PVHv2 work.

PCI Emulation - Future Direction (Royger, Stefano, Julien)

Discuss PCI emulation and our future direction. Our current hybrid with QEMU is becoming increasingly problematic.

I would propose that we **cut this off at say 35 minutes after the hour**, if we do not make progress then we set up a separate forum for this, but we should get some of the issues out into the open. We should also propose a Design Session at summit, but may try to progress before by other means.

Blocked Series

[PATCH RFC 00/14] EPT-Based Sub-page Write Protection Support (Zhang Yi)

RFC posted by Zhang Yi Oct 19, 2017

<https://marc.info/?l=xen-devel&m=150840502417156>

<https://xen.markmail.org/thread/m75h6b2aiwk5h7fx>

No acks, reviews only by memaccess maintainers / developers

Issues: Use case for the feature is still not clear and needs discussion

Longer Term - No Code Reviews yet

[PATCH RESEND v1 0/7] Intel Processor Trace virtualization enabling

v1.1 Posted by Kang, Luwei on 15 January 2018.

<https://marc.info/?l=xen-devel&m=151608947805423>

<https://xen.markmail.org/thread/rbaf7cxh2a7wwchf>

Issue: No feedback.

[RFC PATCH v2 00/17] RFC: SGX Virtualization design and draft patches

Latest Posting Date: Mon, 4 Dec 2017

Link: <https://lists.xen.org/archives/html/xen-devel/2017-12/msg00104.html>

From: Boqun Feng

Number of ACKs: 0

Issue: No feedback.

Longer Term - Progressing or Waiting

[PATCH v4 00/28] add vIOMMU support with irq remapping function of virtual VT-d

Sent in for meeting agenda by George

v3 posted by Lan Tianyu on 22 September 2017: marc.info/?l=xen-devel&m=150607140722407

v4 posted by Chao Gao: <https://xen.markmail.org/thread/wfyorbn3nzsio6s7>

Seems to have had review by Roger Pau Monne (1 ACK)

No issues

[RFC Patch v4 0/8] Extend resources to support more vcpus in single VM

Sent in by George

RFC v3 by Lan Tianyu: <https://marc.info/?l=xen-devel&m=150530044827940> (Sep 17)

RFC v4 re-posted by Chao Gao: <https://xen.markmail.org/thread/tlto7b3fadp7kkw6> (Dec 17)

From: Chao Gao

Number of ACKs: 2

Quite a bit of feedback on v4 from a few people up to Feb 28th

Dependencies: Virtual interrupt remapping of virtual VT-d and Changes to IOREQ server is based on Paul Durrant's "x86: guest resource mapping".

[RFC PATCH 0/8] Add guest CPU topology support

Sent in for meeting agenda by George

<https://marc.info/?l=xen-devel&m=151538433419631>

<https://xen.markmail.org/thread/od46uc5nwhshnluz>

Some feedback from Andrew Cooper and Daniel De Graaf

Dependencies: Andrew's CPUID work. Currently, this version doesn't have any dependency. But Andrew thought it was on the wrong direction. So Chao decided to wait for Andrew's work to finish and rework based on CPUID.