

QEMU

KVM Forum 2014 Keynote

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Highlights

Evolution Since 1.7

- Project and release management transitioned
- Two major releases (2.0, 2.1), plus 2.2 soon
 - 7 stable releases
- Stronger focus on security
 - 62 commits mentioning “CVE” since v1.7.0
 - Disclosure process being formalized
- Four GSoC projects and one OPW project
- 5053 (5473) commits this year; 5982 (6417) in 2013

Features

New Since 1.7

- Threaded virtio-blk dataplane, vhost-user
- Quorum block driver; support for 4K disks
- Memory hot-add support, Q35 hot-plug
- Little Endian support for Power Architecture
- Full AArch64 emulation; TriCore for v2.2
- Module support for improved packaging
- GTK+ user interface also for Windows

... and much more

Google Summer of Code

Student Projects 2014

- Intel IOMMU (VT-d) emulation – Le Tan
 - Mentor: Jan Kiszka
- virtio and I2C libqos (QTest) support – Marc Móri
 - Mentors: Stefan Hajnoczi, Paolo Bonzini
- Continuous VMState testing – sanidhya
 - Mentor: Juan Quintela
- Tianocore support for Mac OS X – Reza Jelveh
 - Mentor: Alexander Graf

Outreach Program For Women

Projects In Round 8

- Disk image fuzz testing – Maria Kustova
 - Mentor: Stefan Hajnoczi

Top 10 – Contributors

Commit Statistics Since v1.7.0

Authors		Reviewers	
Peter Maydell	437	Eric Blake	439
Richard Henderson	356	Richard Henderson	332
Paolo Bonzini	307	Michael S. Tsirkin	301
Tom Musta	219	Peter Maydell	257
Gerd Hoffmann	217	Paolo Bonzini	243
Markus Armbruster	191	Peter Crosthwaite	190
Fam Zheng	182	Stefan Hajnoczi	179
Kevin Wolf	180	Max Reitz	147
Stefan Hajnoczi	177	Benoît Canet	129
Alexey Kardashevskiy	157	Markus Armbruster	100

Top 10 – Maintainers

Commit Statistics Since v1.7.0

Committers	
Peter Maydell	832
Stefan Hajnoczi	679
Kevin Wolf	530
Paolo Bonzini	440
Alexander Graf	439
Michael S. Tsirkin	427
Gerd Hoffmann	376
Andreas Färber	341
Richard Henderson	304
Michael J. Tokarev	300

Top 10 – Companies

Commit Statistics Since v1.7.0

Authors by company	
Red Hat	2176 ⇒
Linaro	611 ↗
gmail.com	498 ↗
IBM	370 ⇓
twiddle.net	356 ⇓
SUSE	298 ⇓
Xilinx	223 ⇒
Huawei	125 ↗
weilnetz.de	100 ⇓
kamp.de	84 ⇓

Outlook

Future Challenges

- Increase test coverage further
 - More confidence in contributions
- Complete and consolidate QOM conversion efforts
 - More power for management tools and developers
- Business as usual:
 - Integrate new contributors
 - Find reviewers for all areas
 - Grow more maintainers

Enjoy day 2
of KVM Forum 2014!
www.qemu-project.org

Thank you.







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