QEMU Status Report

KVM Forum 2019

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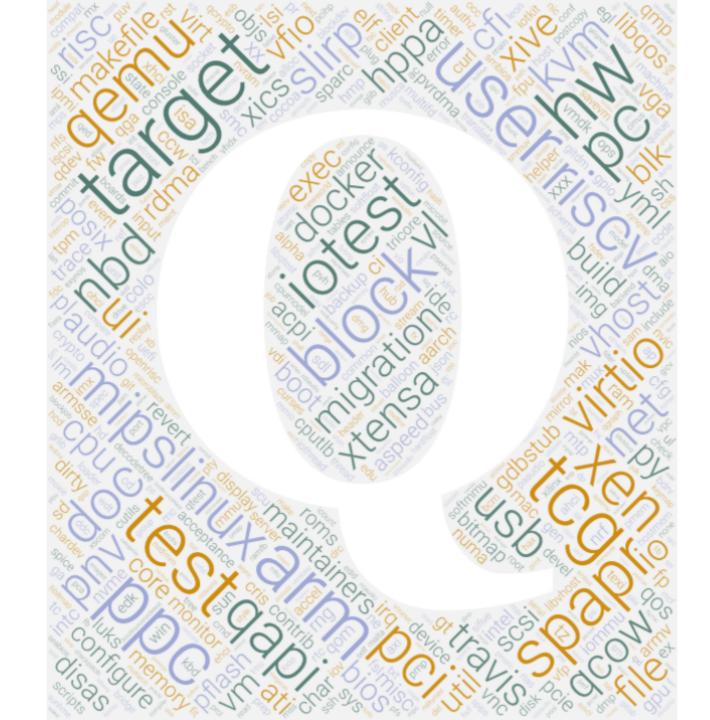
Releases

- 3.1: 11th December 2018
- 4.0: 23rd April 2019 -
- 4.1: 15th August 2019

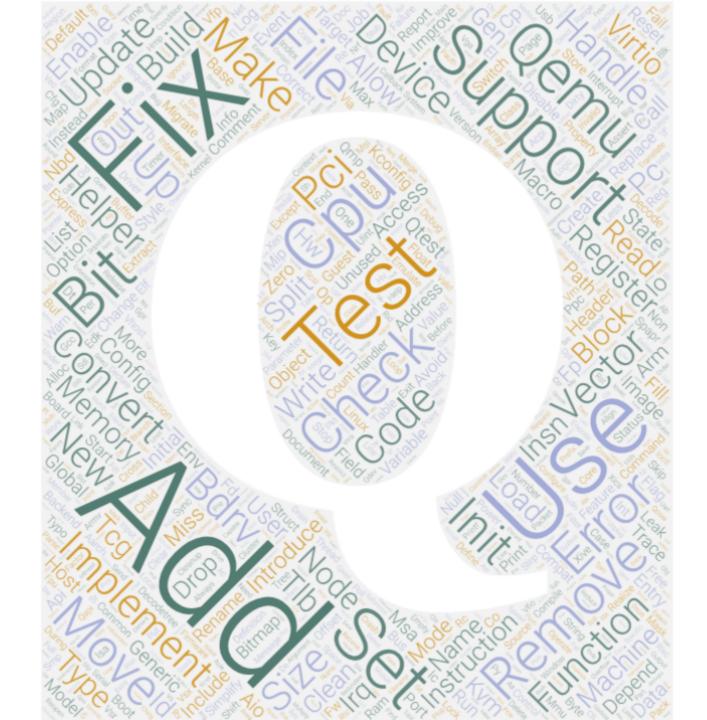
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Largest release ever! (3425 commits)











2019 highlights

- Deprecated Python 2 support
- Kconfig integration

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- Add boards without knowing details of all subsystems
- Easily build QEMU with a subset of supported boards or devices
- "Fast boot" via PVH and mmap
- Sphinx-based documentation



Happily ever after

"1.8.0 release of Kata Containers upgrades the QEMU hypervisor to upstream QEMU 4.0."



Continuous Integration

System ¢	Focus \$	Status \$
Travis	Build combinations, Ubuntu 12/14.04 x86_64 hosts, MacOSX	build passing [1]
Shippable	Docker based cross-compiles (Debian Based)	run shippable [2]
Cirrus Cl	FreeBSD compiles	build passing [3] 🔂
GitLab Cl	Linux compiles and IOTests	pipeline passed [4] 🗗
Coverity	Static analysis	coverity passed 2 new defects [5] &
Patchew	Apply and test patches as they are sent on the mailing list.	patchew passing [6]
LAVA	Aarch64 RISU tests, ARM only	result stream 🗗

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Google Summer of Code + Outreachy

- 5 projects accepted, 4 passed
- Alexander Oleinik: Fuzzing QEMU's implementation of VirtIO devices
- Vanderson M. do Rosario: Improving Measurement of Tiny Code Generation Quality
- Jan Bobek: Support for AVX within TCG
- Aarushi Mehta: io_uring support



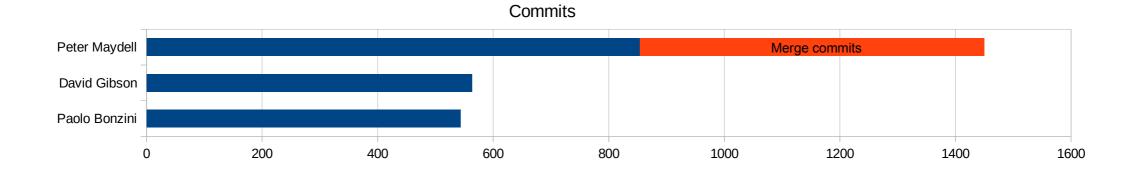
Google Summer of Code updates

- 2 projects from previous years have been merged
- "Kconfig integration" (Akos Kovacs, 2013)
- "qtest Driver Framework" (Emanuele Esposito, 2018)

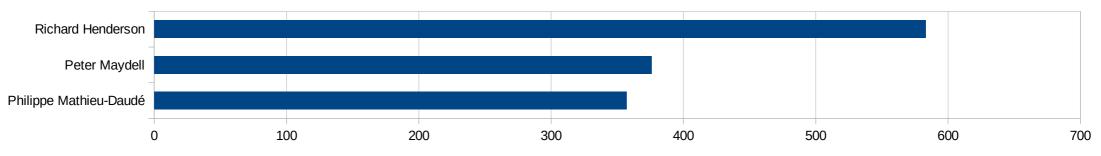


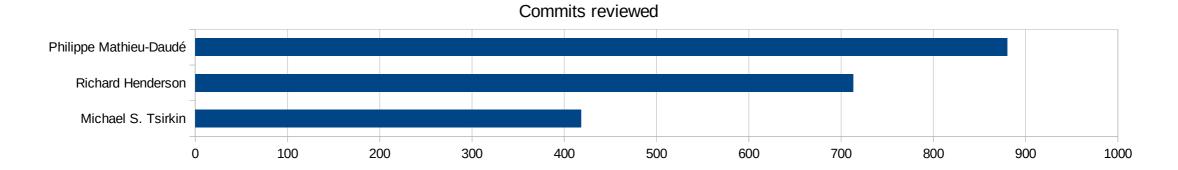
Hall of Fame





Commits authored



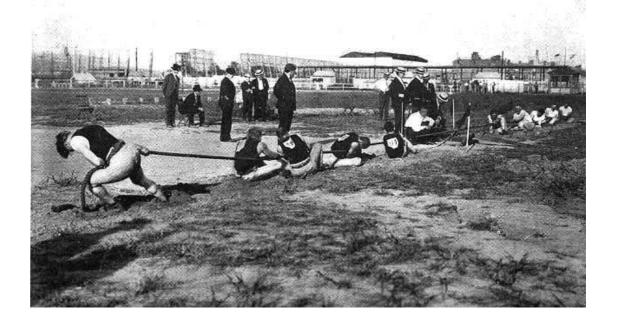


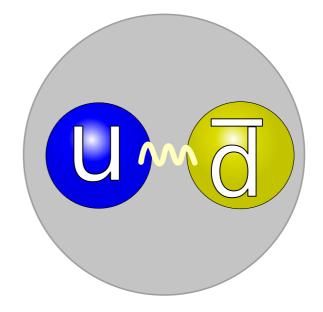


What's next?













Thank you



