

LIBVIRT STATUS REPORT 2017



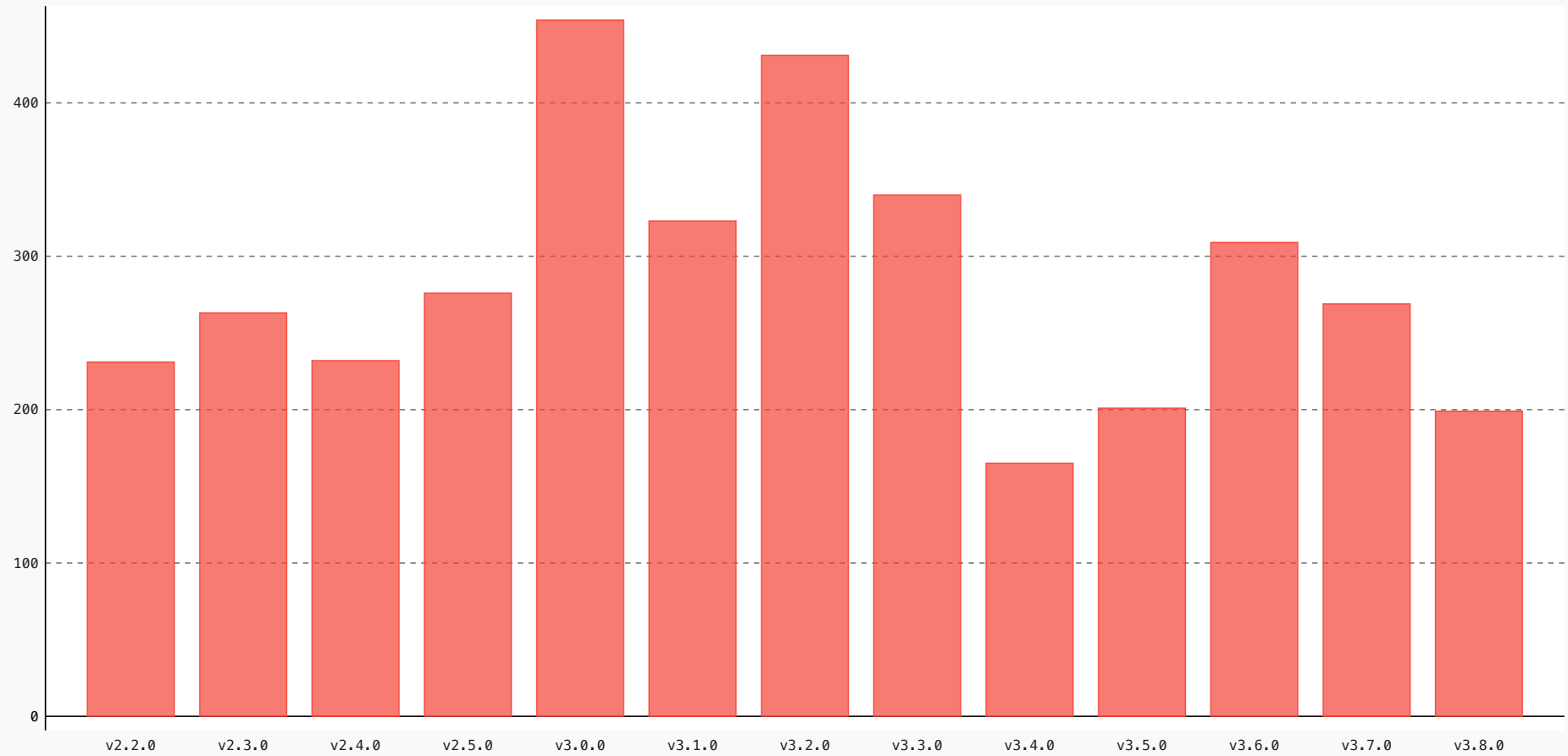
Peter Krempa

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LAST YEAR IN NUMBERS

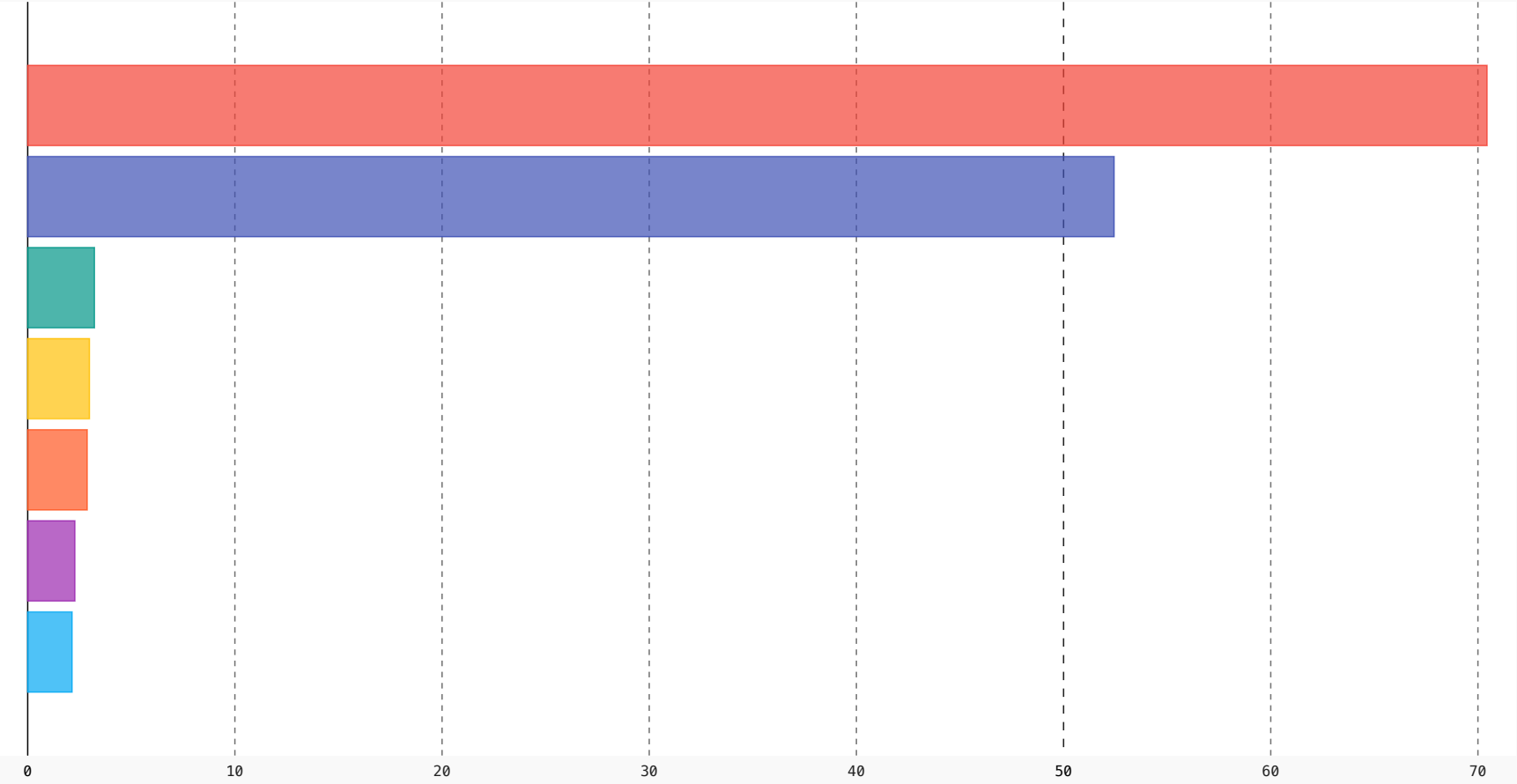
- 1 year and 2 months since KVM Forum 2016
- 13 releases
- 120 authors (61 new)
- 3 694 commits
- 4 672 files changed, 378 176 insertions(+), 88 700 deletions(-)
- 18 985 emails on the mailing list

COMMITTS PER RELEASE



HYPERVISOR POPULARITY

- common
- qemu
- libxl
- vz
- test
- bhyve
- vbox



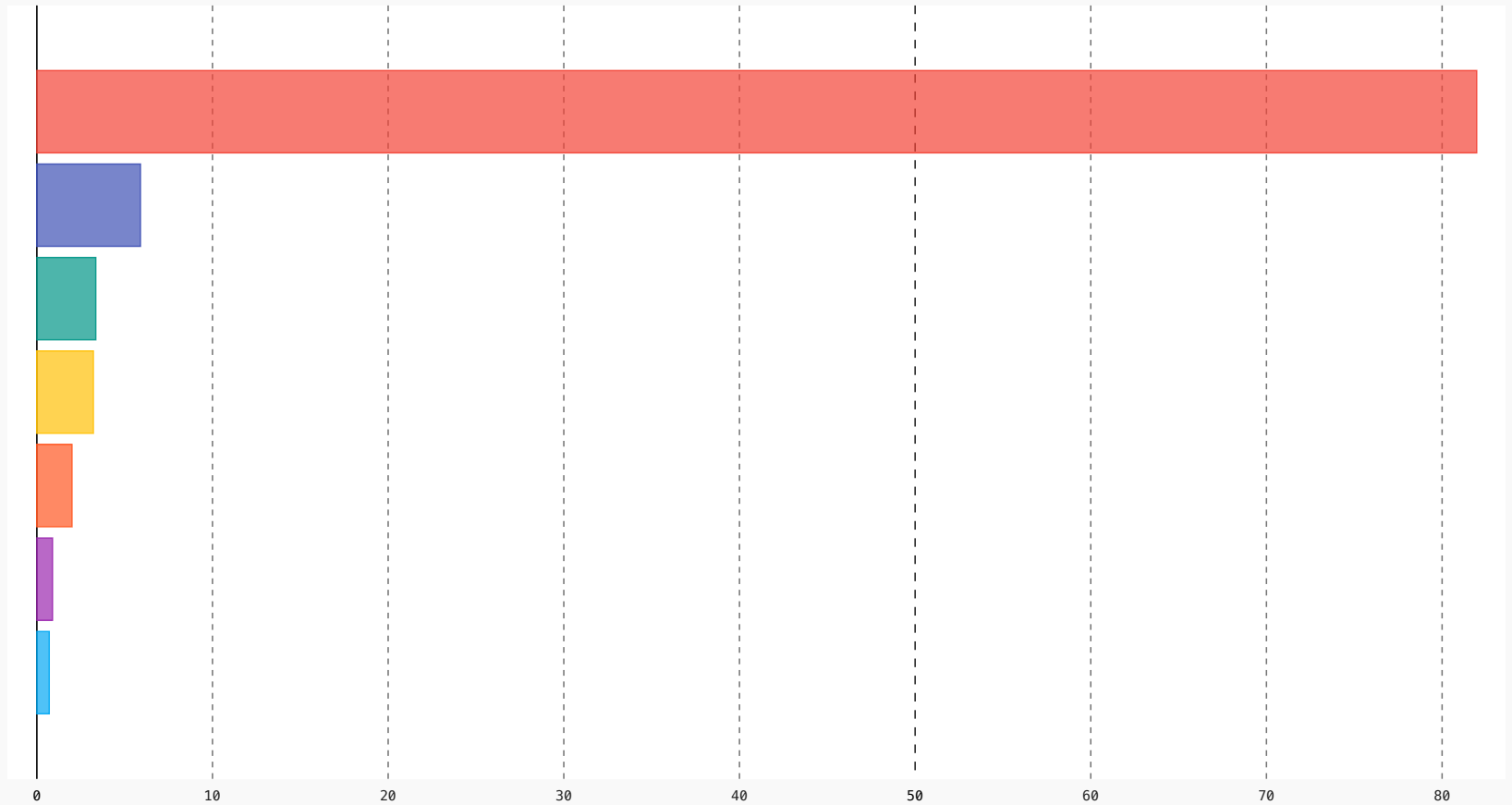
TOP AUTHORS

John Ferlan	527 commits
Peter Krempa	440 commits
Michal Privozník	431 commits

Top 3 authors account for 38% of overall commits.

TOP MOTIVATORS

- Red Hat
- individuals
- IBM
- Virtuozzo
- SuSE
- Datto
- Oracle



PROCESS IMPROVEMENTS

- predictable version numbers
- news file
- review tags

NOTABLE FEATURES

- status/change events for rest of the libvirt objects
- vCPU hotplug and unplug
- Virtuozzo and Veritas storage support
- TLS support for migration and chardevs
- guest CPU ABI guarantees
- user-provided aliases for devices
- mediated devices and vIOMMU support
- sparse streams
- pSeries and s390 enhancements and support
- support for NVDIMM emulation/passthrough and DRM passthrough
- scalability and install footprint improvements

CI STATUS

- workers for centos (6, 7), debian (8, 9), fedora (25, 26, rawhide), freebsd (10, 11)
- most project under libvirt are tested (virt-manager, API bindings etc)
- workers attempt to enable most configure-time options
- Improvements:
 - Ansible playbooks for installation of CI workers
 - Icitool - tool for installation of throwaway guests for building libvirt
 - <https://libvirt.org/git/?p=libvirt-jenkins-ci.git;a=summary>
- Ideas for future?
 - run CI on patchsets
 - do some actual functional testing

COMMUNITY INTERNSHIPS

- GSoC 2017
- 3 interns, only 1 successful project
- **Radostin Stoyanov** created **virt-bootstrap**
 - tool to create libvirt LXC containers from docker images and virt-builder templates
 - integrated into virt-manager since 1.4.2 release

FUTURE?

- blockdev/blockdev-add support
 - TLS for whole backing chain, NBD
 - authentication for any layer of the backing chain
 - LUKS support with snapshots
- external snapshot deletion and reversion support
- cockpit integration
 - libvirt-dbus daemon/bindings
 - virt-xml improvements
- mediated device instantiation via node-device driver
- vsock and vsock-nfs support
- finishing bash completion for virsh