



Бюллетень обновления

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Выпуск 2024.2

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1. Сводная

- Улучшена функция отказоустойчивости объектного хранилища
- Обновлен сетки
- Исправлены уязвимости
- Обновление ядра

2. Пакеты

Пакет	Версия
httpd	2.4.6-99.rp7.2
mariadb	5.5.68-1.rp7
nginx	1.20.1-2.rp7
notifications-host	0.0.8-1.rp7.1
notifications-mn	0.0.8-1.rp7.1
openssh	7.4p1-24.rp7.1
openssl11	1.1.1g-3.rp7
qemu-kvm-vz	2.12.0-48.9.5.rv7.5
vstorage-ostor	7.10.1-2.rv7
vzkernel	3.10.0-1160.105.1.rv7.214.3

3. Обновление

3.1. httpd-2.4.6-99.rp7.2

Изменения

- Thu Apr 27 2023 Luboš Uhliarik <luhliari@redhat.com> - 2.4.6-99.1
 - Resolves: #2190143 - mod_rewrite regression with CVE-2023-25690
- Tue Mar 21 2023 Luboš Uhliarik <luhliari@redhat.com> - 2.4.6-97.7
 - Resolves: #2177742 - CVE-2023-25690 httpd: HTTP request splitting with mod_rewrite and mod_proxy
- Wed Dec 07 2022 Luboš Uhliarik <luhliari@redhat.com> - 2.4.6-97.6
 - Resolves: #2101997 - HEAD request with a 404 and custom ErrorPage causes corrupt and mixed-up responses
- Tue Mar 22 2022 Luboš Uhliarik <luhliari@redhat.com> - 2.4.6-97.5
 - Resolves: #2065243 - CVE-2022-22720 httpd: HTTP request smuggling vulnerability in Apache HTTP Server 2.4.52 and earlier
- Mon Jan 10 2022 Luboš Uhliarik <luhliari@redhat.com> - 2.4.6-97.4
 - Resolves: #2031072 - CVE-2021-34798 httpd: NULL pointer dereference via malformed requests
 - Resolves: #2031074 - CVE-2021-39275 httpd: out-of-bounds write in ap_escape_quotes() via malicious input
 - Resolves: #1969226 - CVE-2021-26691 httpd: Heap overflow in mod_session
- Mon Jan 10 2022 Luboš Uhliarik <luhliari@redhat.com> - 2.4.6-97.3
 - Resolves: #2035058 - CVE-2021-44790 httpd: mod_lua: possible buffer overflow when parsing multipart content
- Mon Oct 25 2021 Luboš Uhliarik <luhliari@redhat.com> - 2.4.6-97.2
 - Resolves: #2015694 - proxy rewrite to unix socket fails with CVE-2021-40438 fix
- Thu Oct 07 2021 Luboš Uhliarik <luhliari@redhat.com> - 2.4.6-97.1
 - Resolves: #2011729 - CVE-2021-40438 httpd: mod_proxy: SSRF via a crafted request uri-path containing "unix:"
- Wed Oct 07 2020 Lubos Uhliarik <luhliari@redhat.com> - 2.4.6-97
 - Resolves: #1852350 - httpd/mod_proxy_http/mod_ssl aborted when sending a client cert to backend server
 - Resolves: #1785100 - mod_cgid takes CGIDScriptTimeout x 2 seconds for timeout
 - Resolves: #1862499 - Intermittent Segfault in Apache httpd due to pool concurrency issues
- Fri Apr 17 2020 Lubos Uhliarik <luhliari@redhat.com> - 2.4.6-95

- Resolves: #1823262 - CVE-2020-1934 httpd: mod_proxy_ftp use of uninitialized value
- Thu Mar 26 2020 Lubos Uhliarik <luhliari@redhat.com> - 2.4.6-94
 - Resolves: #1565491 - CVE-2017-15715 httpd: <FilesMatch> bypass with a trailing newline in the file name
 - Resolves: #1747283 - CVE-2019-10098 httpd: mod_rewrite potential open redirect
 - Resolves: #1724879 - httpd terminates all SSL connections using an abortive shutdown
 - Resolves: #1715981 - Backport of SessionExpiryUpdateInterval directive
 - Resolves: #1565457 - CVE-2018-1303 httpd: Out of bounds read in mod_cache_socache can allow a remote attacker to cause a denial of service
 - Resolves: #1566531 - CVE-2018-1283 httpd: Improper handling of headers in mod_session can allow a remote user to modify session data for CGI applications
- Tue Oct 08 2019 Lubos Uhliarik <luhliari@redhat.com> - 2.4.6-93
 - Resolves: #1677496 - CVE-2018-17199 httpd: mod_session_cookie does not respect expiry time
- Thu Aug 22 2019 Joe Orton <jorton@redhat.com> - 2.4.6-92
 - httpasswd: add SHA-2 crypt() support (#1486889)
- Wed Jul 31 2019 Lubos Uhliarik <luhliari@redhat.com> - 2.4.6-91
 - Resolves: #1630886 - scriptlet can fail if hostname is not installed
 - Resolves: #1565465 - CVE-2017-15710 httpd: Out of bound write in mod_authnz_ldap when using too small Accept-Language values
 - Resolves: #1568298 - CVE-2018-1301 httpd: Out of bounds access after failure in reading the HTTP request
 - Resolves: #1673457 - Apache child process crashes because ScriptAliasMatch directive
 - Resolves: #1633152 - mod_session missing apr-util-openssl
 - Resolves: #1649470 - httpd response contains garbage in Content-Type header
 - Resolves: #1724034 - Unexpected OCSP in proxy SSL connection

3.2. mariadb-5.5.68-1.rp7

Изменения

- Wed May 13 2020 Michal Schorm <mschorm@redhat.com> - 1:5.5.68-1
 - Rebase to 5.5.68 This is the last upstream release. This major version reached upstream EOL
 - Related to: rhbz#1834835
- Thu Mar 26 2020 Lukas Javorsky <ljavorsk@redhat.com> - 1:5.5.67-2
 - Resolves: rhbz#1689827
- Tue Feb 25 2020 Michal Schorm <mschorm@redhat.com> - 1:5.5.67-1

- Rebase to 5.5.67
- Related to: rhbz#1834835
- CVE's fixed: rhbz#1821939 CVE-2020-2574
- Mon Nov 18 2019 Michal Schorm <mschorm@redhat.com> - 1:5.5.66-1
 - Rebase to 5.5.66
 - Related to: rhbz#1834835
 - CVE's fixed: rhbz#1769276 rhbz#1830110 CVE-2019-2974 CVE-2020-2780
- Sat Aug 17 2019 Honza Horak <hhorak@redhat.com> - 1:5.5.65-1
 - Rebase to 5.5.65 Also fixes: CVE-2019-2737 CVE-2019-2739 CVE-2019-2740 CVE-2019-2805 Resolves: #1741357
 - Revert upstream changes that make the mysql_install_db relocatable because it broke mysql_install_db when run without --rpm arg Resolves: #1731062
 - Add openssl BR that was missing for the tests

3.3. nginx-1.20.1-2.rp7

Изменения

- Tue Jun 01 2021 Felix Kaechele <heffer@fedoraproject.org> - 1:1.20.1-2
 - use different fix for rhbz#1683388 as it introduced permissions issues in 1:1.20.0-2
- Tue May 25 2021 Felix Kaechele <heffer@fedoraproject.org> - 1:1.20.1-1
 - update to 1.20.1 (fixes CVE-2021-23017)
- Fri May 21 2021 Jitka Plesnikova <jplesnik@redhat.com> - 1:1.20.0-4
 - Perl 5.34 rebuild
- Fri Apr 30 2021 Lubos Uhliarik <luhliari@redhat.com> - 1:1.20.0-3
 - Related: #1636235 - centralizing default index.html on nginx
- Wed Apr 21 2021 Felix Kaechele <heffer@fedoraproject.org> - 1:1.20.0-2
 - sync rawhide and EPEL7 spec files again
 - systemd service reload now checks config file (rhbz#1565377)
 - drop nginx requirement on nginx-all-modules (rhbz#1708799)
 - let nginx handle log creation on logrotate (rhbz#1683388)
 - have log directory owned by root (rhbz#1390183, CVE-2016-1247)
 - remove obsolete --with-ipv6 (src PR#8)
 - correction: pcre2 is actually not supported by nginx, reintroduce pcre
- Wed Apr 21 2021 Felix Kaechele <heffer@fedoraproject.org> - 1:1.20.0-1
 - update to 1.20.0

- sync with mainline spec file
- order configure options alphabetically for easier comparing git
- add --with-compat option (rhbz#1834452)
- add patch to fix PIDFile race condition (rhbz#1869026)
- use pcre2 instead of pcre (rhbz#1938984)
- add Wants=network-online.target to systemd unit (rhbz#1943779)
- Mon Feb 22 2021 Lubos Uhliarik <luhliari@redhat.com> - 1:1.18.0-5
 - Resolves: #1931402 - drop gperftools module
- Tue Jan 26 2021 Fedora Release Engineering <releng@fedoraproject.org> - 1:1.18.0-4
 - Rebuilt for https://fedoraproject.org/wiki/Fedora_34_Mass_Rebuild
- Tue Jul 28 2020 Fedora Release Engineering <releng@fedoraproject.org> - 1:1.18.0-3
 - Rebuilt for https://fedoraproject.org/wiki/Fedora_33_Mass_Rebuild
- Mon Jun 22 2020 Jitka Plesnikova <jplesnik@redhat.com> - 1:1.18.0-2
 - Perl 5.32 rebuild
- Fri Apr 24 2020 Felix Kaechele <heffer@fedoraproject.org> - 1:1.18.0-1
 - Update to 1.18.0
 - Increased types_hash_max_size to 4096 in default config
 - Add gpg source verification
 - Add Recommends: logrotate
 - Drop location / from default config (rhbz#1564768)
 - Drop default_sever from default config (rhbz#1373822)
- Wed Jan 29 2020 Fedora Release Engineering <releng@fedoraproject.org> - 1:1.16.1-2
 - Rebuilt for https://fedoraproject.org/wiki/Fedora_32_Mass_Rebuild
- Sun Sep 15 2019 Warren Togami <warren@blockstream.com>
 - add conditionals for EPEL7, see rhbz#1750857
- Tue Aug 13 2019 Jamie Nguyen <jamielinux@fedoraproject.org> - 1:1.16.1-1
 - Update to upstream release 1.16.1
 - Fixes CVE-2019-9511, CVE-2019-9513, CVE-2019-9516
- Thu Jul 25 2019 Fedora Release Engineering <releng@fedoraproject.org> - 1:1.16.0-5
 - Rebuilt for https://fedoraproject.org/wiki/Fedora_31_Mass_Rebuild
- Thu May 30 2019 Jitka Plesnikova <jplesnik@redhat.com> - 1:1.16.0-4
 - Perl 5.30 rebuild
- Tue May 14 2019 Stephen Gallagher <sgallagh@redhat.com> - 1.16.0-3
 - Move to common default index.html

- Resolves: rhbz#1636235

3.4. notifications-host-0.0.8-1.rp7.1

Изменения

- Mon Jun 10 2024 Alexey Eryomin 0.0.8
 - #1063 update post install script

3.5. notifications-mn-0.0.8-1.rp7.1

Изменения

- Mon Jun 10 2024 Alexey Eryomin 0.0.8
 - #1063 update post install script

3.6. openssh-7.4p1-24.rp7.1

Изменения

- Fri May 10 2024 Vyacheslav Anzhiganov <vanzhiganov@rosplatforma.ru> - 7.4p1-24 + 0.10.3-2
 - ban user/hostnames with most shell metacharacters Resolves: CVE-2023-51385
- Thu Jul 20 2023 Dmitry Belyavskiy <dbelyavs@redhat.com> - 7.4p1-23 + 0.10.3-2
 - Avoid remote code execution in ssh-agent PKCS#11 support Resolves: CVE-2023-38408
- Thu Sep 30 2021 Dmitry Belyavskiy <dbelyavs@redhat.com> - 7.4p1-22 + 0.10.3-2
 - avoid segfault in Kerberos cache cleanup (#1999263)
 - fix CVE-2021-41617 (#2008884)

3.7. openssl11-1.1.1g-3.rp7

Изменения

- Mon Mar 29 2021 Robert Scheck <robert@fedoraproject.org> 1.1.1g-3
 - backport from 1.1.1g-15: version bump
 - backport from 1.1.1g-14: CVE-2021-3450 openssl: CA certificate check bypass with X509_V_FLAG_X509_STRICT
 - backport from 1.1.1g-13: Fix CVE-2021-3449 NULL pointer deref in signature_algorithms processing
- Wed Dec 16 2020 Robert Scheck <robert@fedoraproject.org> 1.1.1g-2
 - backport from 1.1.1g-12: Fix CVE-2020-1971 ediparty null pointer dereference
 - backport from 1.1.1g-11.1: Implemented new FIPS requirements in regards to KDF and DH

selftests

- backport from 1.1.1g-11.1: Disallow certificates with explicit EC parameters
- Fri Nov 13 2020 Robert Scheck <robert@fedoraproject.org> 1.1.1g-1
 - backport from 1.1.1g-11: Further changes for SP 800-56A rev3 requirements
 - backport from 1.1.1g-9: Rewire FIPS_drbg API to use the RAND_DRBG
 - backport from 1.1.1g-9: Use the well known DH groups in TLS even for 2048 and 1024 bit parameters
 - backport from 1.1.1g-7: Disallow dropping Extended Master Secret extension on renegotiation
 - backport from 1.1.1g-7: Return alert from s_server if ALPN protocol does not match
 - backport from 1.1.1g-7: SHA1 is allowed in @SECLEVEL=2 only if allowed by TLS SigAlgs configuration
 - backport from 1.1.1g-6: Add FIPS selftest for PBKDF2 and KBKDF
 - backport from 1.1.1g-5: Allow only well known DH groups in the FIPS mode
 - backport from 1.1.1g-1: update to the 1.1.1g release
 - backport from 1.1.1g-1: FIPS module installed state definition is modified

3.8. qemu-kvm-vz-2.12.0-48.9.5.rv7.5

Изменения

- Thu Jun 01 2023 Andrey Drobyshv <andrey.drobyshv@virtuozzo.com> - vz-2.12.0-48.9.5.vz7.5
 - DROP: qemu-img: add compression option to rebase subcommand #PSBM-147336
 - qemu-img: Use zero writes after source backing EOF
 - qemu-img: rebase: use backing files' BlockBackend for buffer alignment
 - qemu-img: rebase: avoid unnecessary COW operations #PSBM-147336
 - qemu-img: add compression option to rebase subcommand #PSBM-147336
- Thu May 18 2023 Andrey Drobyshv <andrey.drobyshv@virtuozzo.com> - vz-2.12.0-48.9.5.vz7.4
 - qemu-img: add compression option to rebase subcommand #PSBM-147336
 - iotests: add test 314 for "qemu-img rebase" with compression #PSBM-147336
- Fri Mar 03 2023 Denis V. Lunev <den@openvz.org> - vz-2.12.0-48.9.5.vz7.3
- Fri Mar 03 2023 Denis V. Lunev <den@openvz.org> - vz-2.12.0-48.9.5.vz7.2
 - qdict: Make qdict_extract_subqdict() accept dst = NULL #VSTOR-63084 #PSBM-145915
 - block: Remove children options from bs → {options,explicit_options} #VSTOR-63084 #PSBM-145915
 - block: Remove child references from bs → {options,explicit_options} #VSTOR-63084 #PSBM-145915

- Tue Feb 28 2023 Andrey Drobyshhev <andrey.drobyshhev@virtuozzo.com> - vz-2.12.0-48.9.5.vz7.1
 - iotests: fix 223: chmod +x
 - Fix libusb-1.0.22 deprecated libusb_set_debug with libusb_set_option
 - test-hmp: blacklist rhel6* machine types
 - virtio-pci: Add subsystem-vendor-id property
 - hw/pci: add Virtuozzo vendor id
 - add Virtuozzo machine types
 - compat: set virtio-pci subsystem vendor-id to Virtuozzo
 - smbios: set platform information in DMI to Virtuozzo
 - i386:pc: do not expose l3 cache by default in VZ machines
 - tests: blacklist rhel6 machtypes from qom-test
 - tests: disable lsi53c895a specific tests, it is compiled out
 - blk: do not select PFLASH device for internal snapshot #PSBM-40704
 - scripts/qemugdb: get pthread_self from "info threads" command
 - scripts/qemugdb: improve "qemu coroutine" command
 - scripts/qemugdb: add coredump.py for coredump patching
 - scripts/qemugdb: backtraces for coroutines in coredump
 - pc: enable hpet #PSBM-43538
 - qcow2: change default L2 table entry size to 8Mb
 - qcow2: remove QCowL2Meta parameter from handle_copied #PSBM-45344 #PSBM-39037
 - qcow2: alloc space for COW in one chunk #PSBM-45344 #PSBM-39037
 - qcow2: check space leak at the end of the image #PSBM-45344 #PSBM-39037
 - qcow2: temporal workaround of broken preallocation #PSBM-45846 #PSBM-45344
 - qemu-iotests: the output of the tests is given in working condition
 - qcow2: set inactive flag
 - iotest 026: wildcard the amount of leaked clusters
 - qcow2: do not COW the empty areas
 - iotest 026: update after preallocate/cow-reduce features
 - qcow2: assert that discard/zero don't overflow or loop forever
 - qcow2: add qcow2_cluster_link_l2() trace args
 - qcow2: fix misleading comment about L2 linking
 - qcow2-cluster: slightly refactor handle_dependencies()
 - qcow2-cluster: make handle_dependencies() logic easier to follow
 - qcow2: allow concurrent unaligned writes to the same clusters

- iotest 046: test simultaneous cluster write error case
- iotest 134: test cluster-misaligned encrypted write
- iotest 172: remove non-supported test parts
- blockdev: fix starting empty cdrom/floppy with discard flag
- hyperv: ensure VP index equal to QEMU cpu_index
- hyperv_testdev: refactor for readability
- hyperv: cosmetic: g_malloc → g_new
- hyperv: synic: only setup ack notifier if there's a callback
- hyperv: allow passing arbitrary data to sint ack callback
- hyperv: address HvSintRoute by X86CPU pointer
- hyperv: make HvSintRoute reference-counted
- hyperv: qom-ify SynIC
- hyperv: block SynIC use in QEMU in incompatible configurations
- hyperv: make overlay pages for SynIC
- hyperv: add synic message delivery
- hyperv: add synic event flag signaling
- hyperv: process SIGNAL_EVENT hypercall
- hyperv: process POST_MESSAGE hypercall
- hyperv_testdev: add SynIC message and event testmodes
- MAINTAINERS: add myself for hyperv*
- hyperv: update copyright notices
- hyperv: skip synic pages setup when in_kvm_only #PSBM-76475
- hyperv: fix SynIC compat logic #PSBM-76475
- vmbus: vmbus implementation
- vmbus: build configuration
- i386: Hyper-V VMBus ACPI DSDT entry
- scsi: add Hyper-V/VMBus SCSI device implementation
- hv-scsi: limit the number of requests per notification
- hv-scsi: treat devices with different lun as missing
- net: add Hyper-V/VMBus net device implementation
- hv-net: add .bootindex support
- loader: allow arbitrary basename for fw_cfg file roms
- vmbus: add support for rom files
- hv-net: define default rom file name

- vmbus: only set up sint_route if configured
- hv-net: follow RHEV convention for rom names
- vmbus: prevent vmbus main event loop recursion
- vmbus: handle instanceid property generically
- hv-scsi: don't define instanceid property
- hv-net: don't define instanceid property
- hv-net: rework config parameters handling #PSBM-81319
- hv-net: fixes for main MAC address handling #PSBM-81319
- hv-net: multicast and unicast receive filtering #PSBM-81319
- hv-net: add support for query-rx-filter qmp #PSBM-81319
- vmbus: force channel notification on open
- vmbus: simulate notification from guest on load
- misc: common Hyper-V/Util protocol definitions
- hv-vss: introduce Hyper-V shadow copy device
- tests: revert "Disable hyperv-testdev" #PSBM-65893 #PSBM-65895
- hv-net: don't overflow the busy packet slots bitmap
- net/tap: add tap_fd_get_info()
- net/tap: allow disabled taps
- net: add qemu_{enable,disable}_all_taps()
- net: enable/disable tap devices on vm start/stop #PSBM-62294
- net: add log to enable/disable tap for investigation #PSBM-67382
- tap: don't change vnet header during capability probing #PSBM-73497
- tap: assume that ufo is always supported #PSBM-73497
- tap: change backend features only on enabled device #PSBM-73497
- hbitmap: add hbitmap_count_between() function
- iotests: fix 056 for vz-7.8-2.10
- vmbus: clean up redundant typedefs
- vmbus: make vmbus-bridge refer to vmbus by pointer
- vmbus: move vmbus-bridge definitions to its own header
- vmbus: make vmbus-bridge creatable with -device
- vmbus: make vmbus irq's be properties of vmbus-bridge
- vmbus: support CONFIG_VMBUS=n
- hv-scsi: add its own config variable
- hv-net: add its own config variable

- nbd: increase size of the PWRITE_ZERO and PDISCARD request #PSBM-75794
- nbd/server: improve nbd_negotiate_send_rep_list
- hmp: block qemu-io command for device without media
- ide: fix crash in IDE cdrom read #PSBM-78096
- qapi: add unmap to BlockDeviceStats #PSBM-75504
- ide: account UNMAP (TRIM) operations #PSBM-75504
- scsi: store unmap offset and nb_sectors in request struct #PSBM-75504
- scsi: move unmap error checking to the complete callback #PSBM-75504
- scsi: account unmap operations #PSBM-75504
- file-posix: account discard operations #PSBM-75504
- qapi: query-blockstat: add driver specific file-posix stats #PSBM-75504
- blk: fix aio context loss on media change #PSBM-62014
- block-stream: increase iteration size #PSBM-73618
- savevm: fix savevm after migration #PSBM-60841
- net ROMs: symlink efi-* images to pxe-*
- block: log i/o errors #PSBM-60862
- qmp: add offset and size to BLOCK_IO_ERROR event
- block: iterate_format with account of whitelisting
- dump: add Windows dump format to dump-guest-memory #PSBM-81849
- dump: use system context in Windows dump #PSBM-81849
- dump: add fallback KDBG using in Windows dump #PSBM-81849
- dump: add Windows live system dump #PSBM-81849
- dump: add automatic dump type #PSBM-85981
- dump: fix Windows dump memory run mapping #PSBM-88084
- qmp, hmp: add PCI subsystem id and vendor id to PCI info #PSBM-88665
- i386:pc: whitelist dynamic vmbus-bridge
- block/replication: drop extra synchronization
- block/backup: drop unused synchronization interface
- backup: rewrite top mode cluster skipping #PSBM-45735
- backup: faster full backup #PSBM-45735
- backup: skip done cluster early #PSBM-45735
- backup: fix 055
- backup: reuse backup_run_incremental for full backup
- backup: rename backup_init_done_bitmap_by_allocated

- backup: refactor backup_run
- Revert "backup: Use copy offloading"
- backup: refactor backup_do_cow - separate copying staff
- backup: move backup_loop function
- backup: drop retrying r/w operations after error.
- backup: move r/w error handling code to r/w functions
- job: publish job_should_pause
- backup: new async model
- backup: use async_status in backup_skip_unallocated_clusters
- bitmap: add bitmap_count_between() function
- backup: move notifier handling to backup workers
- backup: drop old flush_rwlock synchronization
- backup: remove old overlapping requests handling
- backup: fix 065 iotest
- backup: refactor backup_do_cow parameters
- backup: move bitmap handling from backup_do_cow to get_work
- backup: refactor: merge backup_copy_cluster and backup_do_cow
- qemu-coroutine-sleep: drop CoSleepCB
- qemu-coroutine-sleep: add qemu_co_enter_before_timer
- backup: timeout for write notifier.
- backup: fix block-job fail by timeout #PSBM-52593
- backup: add trace events
- backup: fix async access to notifiers list #PSBM-52954
- backup: fix use after free #PSBM-53385
- backup: assume target always zeroed for full backup #PSBM-75655
- drive-backup: drop BDRV_O_INACTIVE for target #PSBM-80029
- backup: fix ratelimit_calculate_delay function usage #PSBM-89011
- block: pass qiov into before_write notifier
- mirror: allow to save buffer for QEMUIOVector in MirrorOp
- coroutine: allow to restart coroutine queue outside of coroutine
- mirror: use synch scheme for drive mirror #PSBM-46969
- mirror: replace bdrv_dirty_bitmap with plain hbitmap #PSBM-46969
- mirror: advance position of block-mirror job only for block-mirror ops #PSBM-48476
- mirror: properly calculate the range to clear copy_bitmap on op done #PSBM-48476

- mirror: fix race between target zero out and before_write_notifier #PSBM-48476
- mirror: throttle guest requests and mirror requests using different counters #PSBM-48911 #PSBM-48913
- block: expose interface to mark tracked request serialising
- mirror: protect notified write from simultaneous read #PSBM-59791
- block/mirror: fix mirror_before_write_notify #PSBM-82240
- mirror: transfer only data areas for full mirrors
- qcow2: move qemu_co_mutex_lock below decryption procedure
- qcow2: split out reading normal clusters from qcow2_co_preadv
- qcow2: async scheme for qcow2_co_preadv #PSBM-64113
- qcow2: bdrv_co_pwritev: move encryption code out of lock
- qcow2: refactor qcow2_co_pwritev: split out qcow2_co_do_pwritev
- qcow2: refactor qcow2_co_pwritev locals scope
- qcow2: Improve Qcow2RWState with debugging information
- qcow2: async scheme for qcow2_co_pwritev #PSBM-64113
- qcow2: add traces for r/w async scheme
- qcow2: improve traces
- qcow2: multiple clusters write compressed #PSBM-49058
- qemu-nbd: add compression flag support #PSBM-48899
- qcow2: separate function for data compression #PSBM-49588
- qcow2: add compress threads #PSBM-49588
- thread-pool: set max_threads to 8 #PSBM-49588
- block/qcow2-bitmap: add qcow2_remove_all_persistent_dirty_bitmaps
- qcow2-snapshot: add traces
- migration: invalidate cache before source start #PSBM-85735
- blockdev: modify blockdev-change-medium to change non-removable device file #PSBM-72968
- block: fix bdrv_check_perm for non-tree subgraph
- tests: add test-bdrv-graph-mod
- block: cheat reopen commit sequence #PSBM-85695
- qcow2: finalize rws in fail_nometa case #HCI-124
- iotests: test subsystem vendor for rhel/vz7 machine types
- block: vz7 hacks for cache metadata cache options #VSTOR-17359, #VSTOR-17849
- backup: add backup_pause handler

- iotests: increase timeout limit to 5s in pause_wait
- iotest 185: fix stream job offset
- iotest 156: fix output
- iotests: fix 066: discard leaves leaked space now
- iotest 67: fix asynchronous command handling
- iotests: 186: drop -device floppy
- iotest 144: fix racy output
- iotest 141: fix racy output
- iotest 141: fix offset in output
- iotests: ask qemu for supported formats
- iotests: fix 139 for not whitelisted quorum and blkverify
- iotests: fix 138 output for config with tcmmalloc
- nbd-backup: increase number of parallel requests
- block/nbd-client: drop max_block restriction from block_status #PSBM-89191
- block/nbd-client: allow wrong conext_id to support vz-7.7 and earlier server #PSBM-89263
- migration: incoming x-vz-nbd-restore #PSBM-78339
- qapi: drop x- from x-block-latency-histogram-set
- block: support compressed write for copy-on-read #PSBM-73618
- block-stream: add compress option #PSBM-73618
- tests: explicitly set "pc" machine type
- iotests: improve QemuIoInteractive
- backup: strict speed limit
- iotests: update 26 output
- iotests: update 60 output
- iotests: update 191 output
- iotests: update 201 and 217 output
- block: don't set the same context #VSTOR-12606
- iotests: Filter second BLOCK_JOB_ERROR from 229
- iotests: fix 141 stream race
- qcow2: avoid lseek on block_status if possible
- blockdev: loosen restrictions on drive-backup source node
- block/backup: rename s/serialize_target_writes/target_backed_by_source
- block/io: add flags to tracked request structure
- block/backup: support fleecing scheme for push backup #PSBM-91232

- iotets: add test for push backup with fleecing #PSBM-91232
- block: revert 70a5afedd from Kewin, it results in regression #PSBM-92500
- migration: update recv bitmap only on dest vm #PSBM-92496
- qcow2: discard bitmap when removed #PSBM-91475
- iotests: ask QEMU for supported formats #PSBM-91381
- iotests: check whitelisted formats #PSBM-91381
- qmp: Postpone command related checks in handle_qmp_command to dispatch #PSBM-92291
- monitor: increase amount of data for monitor to read #PSBM-65707 #PSBM-92291
- block/stream: refactor stream_run: drop goto
- block: add BDRV_REQ_FAKE_READ flag
- block/stream: use BDRV_REQ_FAKE_READ
- blockjob: fix user pause in block_job_error_action
- block: introduce aio task pool
- block/qcow2: move to aio task pool
- block/io: refactor bdrv_co_do_copy_on_readv
- block/io: copy-on-read: use aio task pool
- block/stream: use aio task pool
- nbd: improve CMD_CACHE: add COPY_ON_READ and FAKE_READ
- block: add trace points for copy-on-read enable/disable
- block-stream: improve stream_one_iteration trace point
- block: add block-status trace points
- blk: postpone request execution on a context protected with "drained section" #PSBM-82223
- block/io.c: fix for the allocation failure #PSBM-92102
- block: Use uint64_t for BdrvTrackedRequest byte fields
- block/io: bdrv_pdiscard: support int64_t bytes parameter #PSBM-93339
- iotests: test big qcow2 shrink
- vnc: fix update stalls #VSTOR-21895
- block: fix cheat_reopen_rw logic in bdrv_reopen #PSBM-94264
- qapi: support external bitmaps in block-dirty-bitmap-merge #VSTOR-23008
- iotests: test external snapshot with bitmap copying #VSTOR-23008
- iotests: add test 255 to check bitmap life after snapshot + commit
- block/qcow2-bitmap: get rid of bdrv_has_changed_persistent_bitmaps
- block/qcow2-bitmap: do not release persistent bitmaps on reopen ro #PSBM-94666 #PSBM-94672

- block/qcow2-bitmap: initialize bitmap directory alignment #PSBM-94873
- blockdev: enable non-root nodes for transaction drive-backup source
- x86: add CPU flags supported inside libvirt #PSBM-96228
- tpm: extend TPM emulator with state migration support
- tpm: extend TPM TIS with state migration support
- docs: tpm: add VM save/restore example and troubleshooting guide
- iotests: restrict 254 to support only qcow2
- iotests: 197, 215: ignore large alloc warnings from tcmmalloc
- blockdev: reduce aio_context locked sections in bitmap add/remove
- qapi: implement block-dirty-bitmap-remove transaction action
- iotests: test bitmap moving inside 254
- qapi: add dirty-bitmaps to query-named-block-nodes result
- iotests:182: skip when OFD locks are unavailable
- iotests:241: skip if no SEEK_HOLE/SEEK_DATA support
- block/mirror: Add MirrorBDSOpaque
- file-posix: Update open_flags in raw_set_perm() #PSBM-98588 #PSBM-98594
- block: Add bdrv_child_refresh_perms()
- block/mirror: Fix child permissions
- block/commit: Drop bdrv_child_try_set_perm()
- block: Fix order in bdrv_replace_child()
- block: Add *tighten_restrictions to *check*_perm()
- block: Ignore loosening perm restrictions failures
- iotests: Test failure to loosen restrictions
- block: Fix bdrv_co_truncate overlap check #PSBM-98426
- iotests: fix 124 test_incremental_pause test-case for Virtuozzo
- iotests: Test backup job with two guest writes
- util/hbitmap: update orig_size on truncate
- iotests: Test incremental backup after truncation
- qmp: add format-options parameter to blockdev_change_medium command
- cpus-common: nuke finish_safe_work #PSBM-94403
- nbd: add empty .bdrv_reopen_prepare
- block: move bdrv_can_store_new_dirty_bitmap to block/dirty-bitmap.c
- block/dirty-bitmap: return int from bdrv_remove_persistent_dirty_bitmap
- block/qcow2: proper locking on bitmap add/remove paths

- block/qcow2-bitmap: fix bitmap migration
- iotests: add new test cases to bitmap migration
- blockdev: blockdev-change-medium: support change bs in non-empty blk
- blockdev: save dirty bitmaps on qmp blockdev-change-medium #PSBM-99765
- block/qcow2-bitmap: fix crash bug in qcow2_co_remove_persistent_dirty_bitmap #VSTOR-29045
- block/qcow2-bitmap: don't load inconsistent bitmaps #PSBM-100079
- io/channel: track long write to io channel
- block/backup: race condition with skipping empty clusters #PSBM-98321
- block/qcow2-bitmap: remove inconsistent bitmaps before loading
- migration/block-dirty-bitmap: fix bdrv_next loop #PSBM-100093
- block/stream: early detect no-op
- block/stream: separate stream_block_status
- block/stream: align chunks to top cluster-size
- block/stream: reduce STREAM_CHUNK to 512K
- Revert "iotests: fix 141 stream race"
- Revert "iotest 185: fix stream job offset"
- Revert "block-stream: increase iteration size #PSBM-73618"
- Revert "iotest 141: fix offset in output"
- Revert iotest 30 changes by "block/stream: use aio task pool"
- iotests/030: don't check offset on error path
- block/stream: skip as much as possible in one hunk
- block/stream: trace read request
- block/stream: do not disturb guest by stream block-job #PSBM-100594
- qxl: add subsystem_vendor_id property
- pc: add new vz-7.12 machine type
- tests: check qxl subsystem-vendor-id settings for VZ machine types
- block/stream: give priority to guest writes while streaming #PSBM-100932
- migration/block-dirty-bitmap: fix dirty_bitmap_mig_before_vm_start
- migration/block-dirty-bitmap: rename state structure types
- migration/block-dirty-bitmap: rename dirty_bitmap_mig_cleanup
- migration/block-dirty-bitmap: move mutex init to dirty_bitmap_mig_init
- migration/block-dirty-bitmap: refactor state global variables
- migration/block-dirty-bitmap: rename finish_lock to just lock

- migration/block-dirty-bitmap: simplify dirty_bitmap_load_complete
- migration/block-dirty-bitmap: keep bitmap state for all bitmaps
- migration/block-dirty-bitmap: relax error handling in incoming part
- migration/block-dirty-bitmap: cancel migration on shutdown
- migration/savevm: don't worry if bitmap migration postcopy failed
- qemu-iotests/199: fix style
- qemu-iotests/199: drop extra constraints
- qemu-iotests/199: better catch postcopy time
- qemu-iotests/199: improve performance: set bitmap by discard
- qemu-iotests/199: change discard patterns
- qemu-iotests/199: increase postcopy period
- python/qemu/machine: add kill() method
- qemu-iotests/199: prepare for new test-cases addition
- qemu-iotests/199: check persistent bitmaps
- qemu-iotests/199: add early shutdown case to bitmaps postcopy
- qemu-iotests/199: add source-killed case to bitmaps postcopy

3.9. vstorage-ostor-7.10.1-2.rv7

Изменения

- Mon Apr 08 2024 Yuri Pudgorodskiy 7.10.1-2
 - [ostor-ctl] Added set-name command to change s3 cluster name or password

3.10. vzkernel-3.10.0-1160.105.1.rv7.214.3

Изменения

- Tue Jan 09 2024 Konstantin Khorenko <khorenko@virtuozzo.com> [3.10.0-1160.105.1.vz7.214.3]
 - neighbour: purge nf_bridged skb from foreign device neigh (Pavel Tikhomirov) [PSBM-151735]
- Tue Dec 19 2023 Konstantin Khorenko <khorenko@virtuozzo.com> [3.10.0-1160.105.1.vz7.214.2]
- Tue Dec 19 2023 Konstantin Khorenko <khorenko@virtuozzo.com> [3.10.0-1160.105.1.vz7.214.1]
 - ext4/mfsync: do not BUG_ON on wrong set of files (Alexander Atanasov) [VSTOR-78331]
 - ms/x86/kprobes: Fix kprobes instruction boundary check with CONFIG_RETHUNK (Masami Hiramatsu (Google))
 - mm/memcontrol: prohibit writing to memory.numa_migrate from container (Pavel Tikhomirov) [PSBM-152372]

- netfilter: nf_tables: use list_entry_rcu in nft_do_chain (Pavel Tikhomirov) [PSBM-150147 PSBM-150147]
- ms/netfilter: nf_tables: fix oops during rule dump (Florian Westphal) [PSBM-150147 PSBM-150147]
- ms/netfilter: nf_tables: use call_rcu in netlink dumps (Florian Westphal) [PSBM-150147 PSBM-150147]
- ms/ipc/mqueue.c: only perform resource calculation if user valid (Kees Cook) [PSBM-150648]
- ms/ipc: prevent lockup on alloc_msg and free_msg (Li Rongqing) [PSBM-150648]
- ms/netfilter: compat: initialize all fields in xt_init (Francesco Ruggeri) [PSBM-150648]
- lists: convert list.h to use READ/WRITE_ONCE (Alexander Atanasov) [PSBM-150648]
- usersns: initiallize user_init_ns earlier (Alexander Atanasov) [PSBM-150648]
- ve/usersns: remove all hashed entries before freeing user_namespace (Alexander Atanasov) [PSBM-150648]
- ploop: silence lockdep warning in setting discard_granularity via sysfs (Alexander Atanasov) [PSBM-149698]
- cgroup_freezer: fix memory allocation context when checking freeze timeouts (Alexander Atanasov) [PSBM-150293]
- vznetstat: fix statistics output when getting stats for same device in parallel (Konstantin Khorenko) [PSBM-150027]
- fs/fuse kio: adjust rdma connection parameters - increase retry counts (Kui Liu)
- qed: Fix scheduling in a tasklet while getting stats (Konstantin Khorenko) [PSBM-146761]
- mm/memcontrol: remove excess css_get on task migration with swap (Pavel Tikhomirov) [PSBM-148818 PSBM-148818]
- mm/memcontrol: remove excess put of memory cgroup id refcount on css free (Pavel Tikhomirov) [PSBM-148818 PSBM-148818]
- mm/memcontrol: do not put css when putting page to swap or moving swap page (Pavel Tikhomirov) [PSBM-148702]
- ms/mm: memcontrol: avoid unused function warning (Arnd Bergmann) [PSBM-147036 PSBM-147473 PSBM-147036]
- ms/mm/memcontrol.c: fix a -Wunused-function warning (Qian Cai) [PSBM-147036 PSBM-147473 PSBM-147036]
- ms/mm: memcontrol: add sanity checks for memcg→id.ref on get/put (Vladimir Davydov) [PSBM-147036 PSBM-147473 PSBM-147036]
- ms/memcg: remove memcg_cgroup::id from IDR on mem_cgroup_css_alloc() failure (Kirill Tkhai) [PSBM-147036 PSBM-147473 PSBM-147036]
- ms/mm/memcg: fix refcount error while moving and swapping (Hugh Dickins) [PSBM-147036 PSBM-147473 PSBM-147036]
- ms/mm: memcontrol: fix memcg id ref counter on swap charge move (Vladimir Davydov)

[PSBM-147036 PSBM-147473 PSBM-147036]

- ms/mm: memcontrol: fix swap counter leak on swapout from offline cgroup (Vladimir Davydov) [PSBM-147036 PSBM-147473 PSBM-147036]
- ms/mm: memcontrol: fix cgroup creation failure after many small jobs (Johannes Weiner) [PSBM-147036 PSBM-147473 PSBM-147036]
- ms/mm: memcontrol: uncharge pages on swapout (Johannes Weiner) [PSBM-147036 PSBM-147473 PSBM-147036]
- ploop: properly restore old delta kobject on replace error (Alexander Atanasov) [PSBM-146797]
- ploop: increase logging on errors when opening new deltas (Alexander Atanasov) [PSBM-146836]
- ms/crypto: user - Allow get request with empty driver name (Herbert Xu) [PSBM-147375]
- ms/crypto: user - Allow CRYPTO_MSG_GETALG without CAP_NET_ADMIN (Matthias-Christian Ott) [PSBM-147375]
- ms/crypto: user - make NETLINK_CRYPTO work inside netns (Ondrej Mosnacek) [PSBM-147375]
- ve/net: allow AF_ALG sockets inside a Container (Konstantin Khorenko) [PSBM-147375]
- ve/kmod/crypto: add alias net-pf-16-protocol-21 for crypto_user module (Konstantin Khorenko) [PSBM-147375]
- ve/kmod: allow NETLINK_CRYPTO sockets to autoload crypto_user module (Konstantin Khorenko) [PSBM-147375]
- ve/cgroups: fix subgroups_limit error path handling (Pavel Tikhomirov) [PSBM-147036]
- ploop: sysfs: ignore discard_granularity lockdep false positive (Alexander Atanasov) [PSBM-146987]
- mm: mmap use correct file when updating bean counter (Alexander Atanasov) [PSBM-146968 PSBM-147170]
- ms/fs: drop peer group ids under namespace lock (Christian Brauner) [PSBM-144416 PSBM-144416]
- ms/fs: add mount_setattr() (Christian Brauner) [PSBM-144416 PSBM-144416]
- ms/fs: split out functions to hold writers (Christian Brauner) [PSBM-144416 PSBM-144416]
- ms/namespace: only take read lock in do_reconfigure_mnt() (Christian Brauner) [PSBM-144416 PSBM-144416]
- ms/mount: make {lock,unlock}_mount_hash() static (Christian Brauner) [PSBM-144416 PSBM-144416]
- ms/namespace: take lock_mount_hash() directly when changing flags (Christian Brauner) [PSBM-144416 PSBM-144416]
- ms/vfs: Separate changing mount flags full remount (David Howells) [PSBM-144416 PSBM-144416]

- ms/vfs: Undo an overly zealous MS_RDONLY → SB_RDONLY conversion (David Howells) [PSBM-144416 PSBM-144416]
- ms/VFS: Handle lazytime in do_mount() (Markus Trippelsdorf) [PSBM-144416 PSBM-144416]
- ms/vfs: fix mounting a filesystem with i_version (Mimi Zohar) [PSBM-144416 PSBM-144416]
- ms/VFS: Differentiate mount flags (MS_*) from internal superblock flags (David Howells) [PSBM-144416 PSBM-144416]
- ms/lib: introduce copy_struct_from_user() helper (Aleksa Sarai) [PSBM-144416 PSBM-144416]
- ms/move_mount: allow to add a mount into an existing group (Pavel Tikhomirov) [PSBM-144416 PSBM-144416]
- mount: Rename do_set_group to do_set_group_old (Pavel Tikhomirov) [PSBM-144416 PSBM-144416]
- Revert "mm/memflags/procfs: Allow userspace to set kernel memory allocation flags" (Konstantin Khorenko) [PSBM-141577]
- mm/memflags/procfs: Allow userspace to set kernel memory allocation flags (Alexander Atanasov) [PSBM-141577]
- netfilter: core: Fix compilation with NFT disabled (Konstantin Khorenko)
- configs.minimal: Build a set of NFT modules (Konstantin Khorenko)
- blk-cbt: Don't disable interrupts when working with percpu cache (Nikolay Borisov)
- blk-cbt: Use irq{save,restore} version of the spinlock in blk_cbt_release() (Konstantin Khorenko)
- blk-cbt: Enable interrupts when unlocking in blk_cbt_update_size() (Nikolay Borisov)
- ve/net: Don't skip device_rename() for non-root Container netns (Pavel Tikhomirov) [PSBM-17918 PSBM-145324]
- blk-cbt: Don't open-code DIV_ROUND_UP macro (Nikolay Borisov)
- blk-cbt: Don't open-code is_power_of_2() function (Nikolay Borisov)
- blk-cbt: Factor out common capability check (Nikolay Borisov)
- blk-cbt: Remove needless zeroing (Nikolay Borisov)
- iptables: Fix percpu counter block leak on error path when creating new netns (Pavel Tikhomirov) [PSBM-141114]
- syslog: Virtualize timestamps in the data reported (Konstantin Khorenko) [PSBM-145263]
- kmsg: Virtualize timestamps in /dev/kmsg output (Konstantin Khorenko) [PSBM-145263]
- Revert "ms/KVM: nVMX: Properly handle userspace interrupt window request" (Konstantin Khorenko)
- Revert "ms/KVM: nSVM: implement check_nested_events for interrupts" (Konstantin Khorenko)
- Revert "ms/KVM: SVM: introduce nested_run_pending" (Konstantin Khorenko)
- Revert "ms/KVM: nSVM: Report NMIs as allowed when in L2 and Exit-on-NMI is set"

(Konstantin Khorenko)

- Revert "ms/KVM: SVM: Split out architectural interrupt/NMI/SMI blocking checks" (Konstantin Khorenko)
- Revert "ms/KVM: x86: Fix nmi injection failure when vcpu got blocked" (Konstantin Khorenko)
- Revert "ms/KVM: x86: replace is_smm checks with kvm_x86_ops.smi_allowed" (Konstantin Khorenko)
- Revert "ms/KVM: x86: Replace late check_nested_events() hack with more precise fix" (Konstantin Khorenko)
- Revert "ms/KVM: nVMX: Require immediate-exit when event reinjected to L2 and L1 event pending" (Konstantin Khorenko)
- Revert "ms/KVM: x86: track manually whether an event has been injected" (Konstantin Khorenko)
- Revert "ms/KVM: x86: enable event window in inject_pending_event" (Konstantin Khorenko)
- Revert "ms/Fix detection of kernel git repository in setlocalversion script [take #2]" (Konstantin Khorenko)
- fuse: pcs: a bug in update of dirty status (Alexey Kuznetsov) [VSTOR-62689 VSTOR-62689]
- ploop: Add device name to log messages (Alexander Atanasov) [PSBM-144575]
- ploop: Convert printk to pr_nnnn (Alexander Atanasov) [PSBM-144575]
- fuse: pcs: missing timeout at authentication phase (Alexey Kuznetsov) [VSTOR-62165 VSTOR-62165]
- ploop: Check queue_flags size at compile time (Alexander Atanasov) [PSBM-144163]
- modules: calculate sysfs max path size at compile time to avoid static variable (Alexander Atanasov) [PSBM-143836]
- ms/mm: check for SIGKILL inside dup_mmap() loop (Tetsuo Handa) [PSBM-143415]
- sched/ve: Fix sysinfo syscall inside Containers (Alexander Atanasov) [OVZ-7377]
- ms/ixgbe: Fix packet corruption due to missing DMA sync (Markus Boehme) [PSBM-142789]
- ms/proc: Handle umounts cleanly (Eric W. Biederman) [PSBM-142996]
- ms/devtmpfs: fix the dangling pointer of global devtmpfsd thread (Yangxi Xiang) [PSBM-142996]
- ms/fs/namespace.c: WARN if mnt_count has become negative (Eric Biggers) [PSBM-142996]
- cgroup_freezer: print information about unfreezable process (Pavel Tikhomirov) [PSBM-142970]
- oom: Cast the lockdep spell in the code (Konstantin Khorenko) [PSBM-143283]
- ms/locking/lockdep: Provide lockdep_assert{,_once}() helpers (Peter Zijlstra)
- ms/lockdep: Add lockdep lock state defines (Shuah Khan)
- ms/lockdep: Add lockdep_assert_not_held() (Shuah Khan)

- oom: Drop the OOM timeout message (Konstantin Khorenko) [PSBM-143283]
- oom: Do not mark victim a task without mm (Konstantin Khorenko) [PSBM-143283]
- rebase_logs: Add rebase logs for 3.10.0-1160.76.1.el7 to 3.10.0-1160.80.1.el7 rebase (Konstantin Khorenko) [PSBM-143177]
- netfilter: core: fix NAT hooks collision check (Alexander Mikhailitsyn) [PSBM-142895]
- blk-cbt: fix in_use check in blk_cbt_release (Pavel Tikhomirov) [PSBM-141114]
- blk-cbt: fix count decrement and check in cbt_page_alloc (Pavel Tikhomirov) [PSBM-141114]
- ploop: restrict the standby mode flag to work only on devices supporting it (Alexander Atanasov) [PSBM-142759]
- drivers/vmware: Fixup for balloon report stats to mm core (Konstantin Khorenko) [PSBM-142436]
- drivers/vmware: Balloon report stats to mm core (Alexander Atanasov) [PSBM-142436]
- drivers/hyperv: Balloon report stats to mm core (Alexander Atanasov) [PSBM-142436]
- drivers/virtio: Balloon report stats to mm core (Alexander Atanasov) [PSBM-142436]
- mm: Add counters to be updated by the balloon drivers (Alexander Atanasov) [PSBM-142436]
- ms/rq-qos: use a mb for got_token (Josef Bacik) [PSBM-141883 PSBM-141883]
- ms/rq-qos: set ourself TASK_UNINTERRUPTIBLE after we schedule (Josef Bacik) [PSBM-141883 PSBM-141883]
- ms/rq-qos: don't reset has_sleepers on spurious wakeups (Josef Bacik) [PSBM-141883 PSBM-141883]
- ms/rq-qos: fix missed wake-ups in rq_qos_throttle (Josef Bacik) [PSBM-141883 PSBM-141883]
- ms/wait: add wq_has_single_sleeper helper (Josef Bacik) [PSBM-141883 PSBM-141883]
- ms/blk-wbt: improve waking of tasks (Jens Axboe) [PSBM-141883 PSBM-141883]
- ms/blk-wbt: abstract out end IO completion handler (Jens Axboe) [PSBM-141883 PSBM-141883]
- ms/blk-wbt: fix has-sleeper queueing check (Jens Axboe) [PSBM-141883 PSBM-141883]
- ms/blk-wbt: use wq_has_sleeper() for wq active check (Jens Axboe) [PSBM-141883 PSBM-141883]
- ms/net: Generalise wq_has_sleeper helper (Herbert Xu) [PSBM-141883 PSBM-141883]
- ms/blk-wbt: move disable check into get_limit() (Jens Axboe) [PSBM-141883 PSBM-141883]
- ms/blk-wbt: Avoid lock contention and thundering herd issue in wbt_wait (Anchal Agarwal) [PSBM-141883 PSBM-141883]
- ms/net: neigh: don't call kfree_skb() under spin_lock_irqsave() (Yang Yingliang) [PSBM-141642]
- Revert "ms/net: neigh: use dev_kfree_skb_irq instead of kfree_skb()" (Konstantin Khorenko) [PSBM-141642]

- virtio_balloon: Create debugfs file with the usage information (Alexander Atanasov) [PSBM-140407]
- ms/netfilter: nf_tables: fix chain filter in nf_tables_dump_rules() (Pablo Neira Ayuso) [PSBM-141578]
- ms/netfilter: nf_tables: fix memory leaks on chain rename (Florian Westphal)
- ms/netfilter: nf_tables: fix out-of-bounds in nft_chain_commit_update (Taehee Yoo)
- sunrpc: print debug info for kill-tasks (Pavel Tikhomirov) [PSBM-141604]
- mm/kmemleak: Add support for percpu memory leak detect (Wei Yongjun) [PSBM-141114]
- ms/mm: kmemleak: avoid deadlock on the kmemleak object insertion error path (Catalin Marinas) [PSBM-141114]
- fs/ext4: Tweak to disable "lazytime" mount option by default (Konstantin Khorenko) [PSBM-141577]
- rebase_logs: Add rebase logs for 3.10.0-1160.66.1.el7 to 3.10.0-1160.76.1.el7 rebase (Konstantin Khorenko) [PSBM-141721]
- ms/net: neigh: use dev_kfree_skb_irq instead of kfree_skb() (Yang Yingliang)
- hv_balloon: Create debugfs file with hyper-v balloon usage information (Alexander Atanasov) [PSBM-140409]
- neighbour: make proxy_queue qlen limit per-device (Alexander Mikhailitsyn) [PSBM-140896]
- neigh: fix possible DoS due to net iface start/stop loop (Denis V. Lunev) [PSBM-140896]
- ms/tty: Make lock subclasses available for other tty locks (Peter Hurley)
- Makefile: Define the default EXTRAVERSION value (Konstantin Khorenko)
- Makefile: Fix for "make rpm-pkg" working (Vasily Averin)
- ms/drop_monitor: Add packet alert mode (Ido Schimmel) [PSBM-140937]
- ms/drop_monitor: Add alert mode operations (Ido Schimmel) [PSBM-140937]
- ms/drop_monitor: Require CAP_NET_ADMIN for drop monitor configuration (Ido Schimmel) [PSBM-140937]
- ms/drop_monitor: Reset per-CPU data before starting to trace (Ido Schimmel) [PSBM-140937]
- ms/drop_monitor: Initialize timer and work item upon tracing enable (Ido Schimmel) [PSBM-140937]
- ms/drop_monitor: Split tracing enable / disable to different functions (Ido Schimmel) [PSBM-140937]
- ms/drop_monitor: Use pre_doit / post_doit hooks (Ido Schimmel) [PSBM-140937]
- ms/drop_monitor: Rename and document scope of mutex (Ido Schimmel) [PSBM-140937]
- ms/drop_monitor: Use correct error code (Ido Schimmel) [PSBM-140937]
- ms/drop_monitor: use setup_timer (Geliang Tang) [PSBM-140937]
- ms/drop_monitor: consider inserted data in genlmsg_end (Reiter Wolfgang) [PSBM-140937]

- ms/drop_monitor: add missing call to genlmsg_end (Reiter Wolfgang) [PSBM-140937]
- vtty: fix slave peer lockdep annotation (Cyrill Gorcunov) [PSBM-136773 PSBM-137884 PSBM-140913]
- blk-cbt: disable interrupts before this_cpu_ptr() call (Pavel Tikhomirov) [PSBM-140699]
- fuse: pcs: protection against sync seq numbers wraparound (Alexey Kuznetsov) [VSTOR-55377 VSTOR-55377]
- fs/fuse kio: wording correction in commit_cs_record (dirtying) (Konstantin Khorenko)
- fs/fuse kio: correct data types in tracing calls (Konstantin Khorenko)
- ms/xfrm: fix crash in XFRM_MSG_GETSA netlink handler (Vegard Nossum) [PSBM-141136]
- ms/Fix detection of kernel git repository in setlocalversion script [take #2] (Franck Bui-Huu)
- ms/KVM: x86: enable event window in inject_pending_event (Paolo Bonzini) [PSBM-139278 PSBM-139278]
- ms/KVM: x86: track manually whether an event has been injected (Paolo Bonzini) [PSBM-139278 PSBM-139278]
- ms/KVM: nVMX: Require immediate-exit when event reinjected to L2 and L1 event pending (Liran Alon) [PSBM-139278 PSBM-139278]
- ms/KVM: x86: Replace late check_nested_events() hack with more precise fix (Paolo Bonzini) [PSBM-139278 PSBM-139278]
- ms/KVM: x86: replace is_smm checks with kvm_x86_ops.smi_allowed (Paolo Bonzini) [PSBM-139278 PSBM-139278]
- ms/KVM: x86: Fix nmi injection failure when vcpu got blocked (ZhuangYanying) [PSBM-139278 PSBM-139278]
- ms/KVM: SVM: Split out architectural interrupt/NMI/SMI blocking checks (Paolo Bonzini) [PSBM-139278 PSBM-139278]
- ms/KVM: nSVM: Report NMIs as allowed when in L2 and Exit-on-NMI is set (Paolo Bonzini) [PSBM-139278 PSBM-139278]
- ms/KVM: SVM: introduce nested_run_pending (Paolo Bonzini) [PSBM-139278 PSBM-139278]
- ms/KVM: nSVM: implement check_nested_events for interrupts (Paolo Bonzini) [PSBM-139278 PSBM-139278]
- ms/KVM: nVMX: Properly handle userspace interrupt window request (Sean Christopherson) [PSBM-139278 PSBM-139278]
- cgroup-v1: Allow setting release_agent from root Container user_ns (Konstantin Khorenko) [PSBM-140752]
- net/skbuff: hide high-order-request warning in __alloc_skb() (Pavel Tikhomirov) [PSBM-139948]
- ms/exit: reparent: fix the dead-parent PR_SET_CHILD_SUBREAPER reparenting (Oleg Nesterov)

- ms/exit: fix the setns() && PR_SET_CHILD_SUBREAPER interaction (Oleg Nesterov)
- ms/exit: reparent: document the →has_child_subreaper checks (Oleg Nesterov)
- ms/exit: reparent: fix the cross-namespace PR_SET_CHILD_SUBREAPER reparenting (Oleg Nesterov)
- ms/ext4: prevent partial update of the extent blocks (Zhang Yi) [PSBM-139452]
- ms/ext4: check for inconsistent extents between index and leaf block (Zhang Yi) [PSBM-139452]
- ms/ext4: check for out-of-order index extents in ext4_valid_extent_entries() (Zhang Yi) [PSBM-139452]
- ms/KVM: SVM: Clear the CR4 register on reset (Babu Moger) [PSBM-139465]
- memcg: Add memory accounting for nft expressions (Konstantin Khorenko) [PSBM-140651]
- cgroup: switch from cgroup_mutex to cgroup_root_mutex in proc_cgroup_show (Pavel Tikhomirov) [PSBM-139206]
- pid_ns: Drop global pid_max declaration leftover (Konstantin Khorenko) [PSBM-140308]
- mutex: Disable irqs in spin_[un]lock_mutex() (Konstantin Khorenko) [PSBM-139963]
- mm/tswap: Add a sanity check in tswap_frontswap_store() on deleting a page (Konstantin Khorenko)
- mm/tswap: make tswap_delete_page handle replaced page gracefully (Pavel Tikhomirov) [PSBM-139322]
- ms/cgroup: no need for cgroup_mutex for /proc/cgroups (Shakeel Butt) [PSBM-139206]
- ms/KVM: x86/mmu: Remove the defunct update_pte() paging hook (Sean Christopherson) [PSBM-139163]
- ms/NFSv4: Fix up RCU annotations for struct nfs_netns_client (Trond Myklebust) [PSBM-137154]
- ms/NFSv4: Use the net namespace uniquifier if it is set (Trond Myklebust) [PSBM-137154]
- ms/NFSv4: Clean up initialisation of uniquified client id strings (Trond Myklebust) [PSBM-137154]
- ms/fs: nfs: sysfs: Remove NULL check before kfree (Saurav Girepunje) [PSBM-137154]
- ms/NFS: Add sysfs support for per-container identifier (Trond Myklebust) [PSBM-137154]
- ms/NFS: Cleanup - add nfs_clients_exit to mirror nfs_clients_init (Trond Myklebust) [PSBM-137154]
- ms/NFS: Create a root NFS directory in /sys/fs/nfs (Trond Myklebust) [PSBM-137154]
- ms/Provide a function to create a NUL-terminated string from unterminated data (David Howells) [PSBM-137154]
- fs/fuse: fiq → pending list is killed twice in fuse_invalidate_files() (Liu Kui)
- ms/fs/fuse: missing unlock_page() in fuse_writepage (Liu Kui)
- mm: allow kmem limit bypassing if reclaimable slabs detected (Konstantin Khorenko)

[PSBM-91566 PSBM-137427]

- hide high-order-request warning in pskb_expand_head() (Vasily Averin) [PSBM-136733]
- ve/posix_timers: adjust CLOCK_BOOTTIME for CT (Nikita Yushchenko) [PSBM-136131 OVZ-7298]
- ms/nfs4: skip locks_lock_inode_wait() in nfs4_locku_done if FL_ACCESS is set (Vasily Averin) [PSBM-136295]
- /proc/<pid>/aio: add dummy read method (Nikita Yushchenko)
- ms/fuse: async processing of F_SETLK with FL_SLEEP flag (Vasily Averin) [PSBM-136851]
- ms/fuse: drop obsoleted and incorrect restriction in fuse_setlk (Vasily Averin) [PSBM-136851]
- ms/nfsd4: add refcount for nfsd4_blocked_lock (Vasily Averin) [PSBM-136851]
- fs/namei.c: return error if nd → inode check is empty in handle_dotdot_rcu() (Vasily Averin) [PSBM-92308 PSBM-128194 PSBM-136369]
- ms/ipv6: fix 'disable_policy' for fwd packets (Nicolas Bechtel) [VSTOR-48427]
- ms/ipv6: Provide ipv6 version of "disable_policy" sysctl (David Forster) [VSTOR-48427]
- pfcache: Fix uninitialized s_csum_partial (Kirill Tkhai) [PSBM-134639]
- ms/netfilter: nf_tables: Allow chain name of up to 255 chars (Phil Sutter) [PSBM-136188]
- ms/netfilter: nf_tables: Allow table names of up to 255 chars (Phil Sutter) [PSBM-136188]
- ms/netlink: Introduce nla_strdup() (Phil Sutter) [PSBM-136188]
- ploop: Sanity in kaio_open() (Kirill Tkhai) [PSBM-135881]
- ms/nfsd: fix jiffies/time_t mixup in LRU list (Vasily Averin) [PSBM-102407 PSBM-121875 PSBM-121984 PSBM-129208 PSBM-129647 PSBM-133020 PSBM-133265 PSBM-133274 PSBM-134762 PSBM-134877 PSBM-134905 PSBM-135845]
- ms/kvm: x86: replace kvm_spec_ctrl_test_value with runtime test on the host (Maxim Levitsky) [VSTOR-46513 PSBM-131551]
- ms/mm, oom: pagefault_out_of_memory: don't force global OOM for dying tasks (Vasily Averin)
- binfmt_misc: don't free per-VE object on error path (Nikita Yushchenko)
- ms/ipv6: Call skb_get_hash_flowi6 to get skb → hash in ip6_make_flowlabel (Tom Herbert)
- ms/ipv6: fix sparse errors in ip6_make_flowlabel() (Eric Dumazet) [VSTOR-47671]
- ms/net: reallocate new socket option number for IPV6_AUTOFLOWLABEL (Pablo Neira) [VSTOR-47671]
- ms/ipv6: Implement automatic flow label generation on transmit (Tom Herbert) [VSTOR-47671]
- VE/sysrq-trigger: fix log limiting (Nikita Yushchenko)
- writeback: Write dirty times for WB_SYNC_ALL writeback (Jan Kara) [PSBM-134225]
- mm: Do not drop GFP_NOFAIL in add_to_page_cache_locked (Evgenii Shatokhin) [PSBM-98265 PSBM-98265]

- ploop: Fix partition refcounter leak (Konstantin Khorenko) [PSBM-131919]
- ub: correct _ub_get_css() retvalue for dying/stopped containers (Vasily Averin) [PSBM-123686]
- prctl: allow to setup brk for et_dyn executables (Cyrill Gorcunov) [PSBM-125448]
- net: export "net/core/xfrm*" sysctls for containers (Nikita Yushchenko) [PSBM-132916]
- ms/memcg: prohibit unconditional exceeding the limit of dying tasks (Vasily Averin) [PSBM-132705]
- ms/ipv6: allocate enough headroom in ip6_finish_output2() (Vasily Averin) [PSBM-130907]
- ms/ipc: remove memcg accounting for sops objects in do_semtimedop() (Vasily Averin) [PSBM-128356]
- mm: make PR_SET_THP_DISABLE immediately active (Michal Hocko) [PSBM-124504]
- mm: high order allocation detector (Nikita Yushchenko) [PSBM-92088]
- trace: fix frame skip when saving event stacktrace (Nikita Yushchenko) [PSBM-92088]
- ms/memcg: drop GFP_KERNEL_ACCOUNT use in tty_free_termios() (Vasily Averin)
- memcg: force accounting to specified memcg (Vasily Averin) [PSBM-132705]
- Fix a leak in socket(2) when we fail to allocate a file descriptor. (Al Viro) [PSBM-133610]
- ms/netfilter: remove unused variable (stephen hemminger) [PSBM-133656]
- cgroup/net_prio: virtualize ifpriomap per-ve (Pavel Tikhomirov) [PSBM-123766]
- ve: get_curr_ve: first try getting ve with rcu lock (Pavel Tikhomirov) [PSBM-123766]
- ve: add get_curr_ve helper (Pavel Tikhomirov) [PSBM-123766]
- sock: allow reading and changing sk_userlocks with setsockopt (Pavel Tikhomirov)
- ploop: Check disable_merge only if there is a delta with such method (Kirill Tkhai)
- ploop: Track if we have delta with disable_merge (Kirill Tkhai)
- mm/memcg: do not save call stacks of css_get/put by default (Evgenii Shatokhin) [PSBM-131085 PSBM-131085]
- ext4: Use initial count in ext4_ind_direct_IO() (Kirill Tkhai) [PSBM-129846]
- ms/ext4: fix xfstest generic/269 double revoked buffer bug with bigalloc (Daeho Jeong)
- ms/ext4: handle unwritten or delalloc buffers before enabling data journaling (Daeho Jeong)
- ms/ext4: fix bug for rename with RENAME_WHITEOUT (yangerkun)
- ext4: Fix rebase c55a9acde5aa (Kirill Tkhai)
- fs/ceph: access beyond end of iovec array in dio_get_pagev_size() (Vasily Averin) [PSBM-130693]
- fuse/pcs: missing initialization of client role (Alexey Kuznetsov) [VSTOR-44526]
- fuse: illegal access to file in vstorage (Alexey Kuznetsov)
- ms/ext4: fix EXT_MAX_EXTENT/INDEX to check for zeroed eh_max (Harshad Shirwadkar) [PSBM-129846]

- ms/ext4: fix punch hole for inline_data file systems (Theodore Ts'o) [PSBM-129846]
- ms/ext4: track writeback errors using the generic tracking infrastructure (Theodore Ts'o) [PSBM-129846]
- ub: ub_ratelimit does not initialize ub_ratelimit→lock (Vasily Averin) [PSBM-130602 PSBM-130672]
- ms/xfrm: clean up xfrm protocol checks (Vasily Averin) [PSBM-130602]
- ms/xfrm: Fix warning in xfrm6_tunnel_net_exit. (Vasily Averin) [PSBM-130602]
- ms/xfrm6_tunnel: exit_net cleanup check added (Vasily Averin) [PSBM-130602]
- net/veth: Increase veth max_mtu for k8s and weave-net (Pavel Tikhomirov) [PSBM-130575]
- AMD Milan: update 0001-edac-mce-milan.patch (Vasily Averin)
- mount: fix mounting of detached mounts onto targets that reside on shared mounts (Christian Brauner)
- fs/nfs: break umount cycle if current task does not have enough stack. (Vasily Averin) [PSBM-130309]
- ms/cifs: Limit memory used by lock request calls to a page (Ross Lagerwall) [PSBM-130341]
- RCU pathwalk breakage when running into a symlink overmounting something (Al Viro) [PSBM-129639]
- ms/netfilter: nf_tables: parse element flags from nft_del_setelem() (Pablo Neira Ayuso) [OVZ-7271]
- ms/netfilter: nf_tables: introduce nft_setelem_parse_flags() helper (Pablo Neira Ayuso) [OVZ-7271]
- ms/KVM: AMD Milan Support (root) [PSBM-127051 PSBM-129668 PSBM-129674 PSBM-129872 PSBM-129872]
- pci_ids.h: AMD Milan support (root) [PSBM-127051]
- ms:x86/amd_nb: Add Family 19h PCI IDs (root) [PSBM-127051]
- RHEL7 Perf: Large Increment per Cycle Events for AMD Milan (root) [PSBM-127051]
- RHEL7 Milan Support Patches (root) [PSBM-127051]
- ms:EDAC/MCE Milan patches (root) [PSBM-127051]
- ipv6 tunnels: enable netdevice register inside container (Vasily Averin) [PSBM-127315]
- ploop: Use preallocation for ext4 (Kirill Tkhai) [PSBM-129303]
- net: sched: sch_teql: fix null-pointer dereference (Pavel Tikhomirov) [PSBM-128205]
- memcg: Enable accounting for new namespaces and struct nsproxy (Vasily Averin) [PSBM-120694 PSBM-129409]
- memcg: Enable accounting for pids in nested pid namespaces (Vasily Averin) [PSBM-120694 PSBM-129408]
- memcg: Enable accounting for signals (Vasily Averin) [PSBM-128624 PSBM-129407]
- memcg: enable accounting for netdev_rx_queue objects (Vasily Averin) [PSBM-120694 PSBM-

127831]

- memcg: disable memcg accounting for nf_ct hash tables (Vasily Averin) [PSBM-120694 PSBM-127891]
- ms/ext4: fix fencepost error in lazytime optimization (Theodore Ts'o) [OVZ-7267 OVZ-7270]
- fs/fuse: avoid triggering BUG_ON at file close (Vasily Averin) [VSTOR-43056]
- ms/vsock: fix potential null pointer dereference in vsock_poll() (Stefano Garzarella) [PSBM-128702]
- ms/vsock/vmci: make vmci_vsock_transport_cb() static (Stefano Garzarella) [PSBM-128702]
- ms/vsock/virtio: fix null-pointer dereference in virtio_transport_recv_listen() (Stefano Garzarella) [PSBM-128702]
- ms/vsock: avoid to assign transport if its initialization fails (Stefano Garzarella) [PSBM-128702]
- ms/vsock/vmci: make vmci_vsock_cb_host_called static (Mao Wenan) [PSBM-128702]
- ms/vsock: fix the race conditions in multi-transport support (Alexander Popov) [PSBM-128702]
- ms/vhost/vsock: refuse CID assigned to the guest → host transport (Stefano Garzarella) [PSBM-128702]
- ms/vsock: fix bind() behaviour taking care of CID (Stefano Garzarella) [PSBM-128702]
- ms/vsock: prevent transport modules unloading (Stefano Garzarella) [PSBM-128702]
- ms/vsock/vmci: register vmci_transport only when VMCI guest/host are active (Stefano Garzarella) [PSBM-128702]
- ms/vsock: add multi-transport support (Stefano Garzarella) [PSBM-128702]
- ms/vsock/virtio: Initialize core virtio vsock before registering the driver (Jorge E. Moreira) [PSBM-128702]
- ms/hv_sock: set VMADDR_CID_HOST in the hvs_remote_addr_init() (Stefano Garzarella) [PSBM-128702]
- ms/vsock: move vsock_insert_unbound() in the vsock_create() (Stefano Garzarella) [PSBM-128702]
- ms/vsock: add vsock_create_connected() called by transports (Stefano Garzarella) [PSBM-128702]
- ms/vsock: handle buffer_size sockopts in the core (Stefano Garzarella) [PSBM-128702]
- ms/vsock: add 'struct vsock_sock *' param to vsock_core_get_transport() (Stefano Garzarella) [PSBM-128702]
- ms/vsock/virtio: add transport parameter to the virtio_transport_reset_no_sock() (Stefano Garzarella) [PSBM-128702]
- ms/vsock: add 'transport' member in the struct vsock_sock (Stefano Garzarella) [PSBM-128702]
- ms/vsock: remove include/linux/vm_sockets.h file (Stefano Garzarella) [PSBM-128702]

- ms/vsock: remove vm_sockets_get_local_cid() (Stefano Garzarella) [PSBM-128702]
- ms/vsock/vmci: remove unused VSOCK_DEFAULT_CONNECT_TIMEOUT (Stefano Garzarella) [PSBM-128702]
- netfilter: ipt_CLUSTERIP: fix out-of-bounds accesses in clusterip_tg_check() (Dmitry Vyukov) [PSBM-128405]
- fs/fuse: released handle could be used in fiemap (Alexey Kuznetsov) [VSTOR-42949]
- fs/fuse: a typo resulting in corruption of page cache and kernel crash (Vasily Averin) [VSTOR-42863]
- net: net_assign_generic NULL lead to memory leaks (Vasily Averin) [PSBM-92950 PSBM-128006]
- fs/fuse kio: don't use kio with uninitialized statistic (Ildar Ismagilov) [VSTOR-42099]
- sync: sync_collect_filesystems: fix possible infinite loop (Alexander Mikhailitsyn) [PSBM-127599]
- ve/net: sit: enable in container (Vasily Averin) [PSBM-127315]
- ms/fuse: fix live lock in fuse_iget() (Amir Goldstein) [PSBM-127514]
- kmapset: lost map → size update in kmapset_del_value() (Vasily Averin) [PSBM-127478]
- proc/mounts: fix skipping mount after cursor (Pavel Tikhomirov) [PSBM-127476]
- ve: Add option allowing ioctl(FITRIM) from inside CT (Kirill Tkhai) [PSBM-127082]
- proc/mounts: add cursor (Alexander Mikhailitsyn) [PSBM-126568 PSBM-125812]
- ms/netfilter: nft_compat: use call_rcu for nfnl_compat_get (Florian Westphal) [PSBM-127233]
- fs/fuse kio: share stucked requests count for prometheus stats (Ildar Ismagilov) [VSTOR-41021]
- cgroup/ve: at container start only check virtualizable cgroups. (Valeriy Vdovin) [PSBM-125040]
- fs/ext4: Make "lazytime" mount option by default (Konstantin Khorenko) [PSBM-106544]
- ms/ext4: don't ignore return values from ext4_ext_dirty() (Harshad Shirwadkar)
- disable high-order allocations warnings in slip driver (Vasily Averin) [PSBM-125232]
- configs: change the default cpufreq governor to "performance" (Vasily Averin) [VSTOR-41067 PSBM-125953 PSBM-126006]
- mm/mem_cgroup_iter: Drop dead_count related infrastructure (Konstantin Khorenko) [PSBM-123655 PSBM-123655]
- mm/mem_cgroup_iter: Cleanup mem_cgroup_iter_load() (Konstantin Khorenko) [PSBM-123655 PSBM-123655]
- mm/mem_cgroup_iter: Don't bother saving/checking 'dead_count' anymore (Konstantin Khorenko) [PSBM-123655 PSBM-123655]
- mm/mem_cgroup_iter: NULL-ify 'last_visited' for invalidated iterators (Konstantin Khorenko) [PSBM-123655 PSBM-123655]

- mm/mem_cgroup_iter: Provide `_iter_invalidate()` the dying memcg as an argument (Konstantin Khorenko) [PSBM-123655 PSBM-123655]
- mm/mem_cgroup_iter: Always assign `iter→last_visited` under rcu (Konstantin Khorenko) [PSBM-123655 PSBM-123655]
- mm/mem_cgroup_iter: Make '`iter→last_visited`' a bit more stable (Konstantin Khorenko) [PSBM-123655 PSBM-123655]
- list: introduce `list_for_each_continue()` (Pavel Tikhomirov) [PSBM-125812]
- netfilter: `gpf` inside `xt_find_revision()` (Vasily Averin) [PSBM-126137]
- fs/fuse kio: disable parallel fsyncs and file shrinks (Alexey Kuznetsov) [VSTOR-36154]
- fs/fuse kio: avoid race condition at file expand (Alexey Kuznetsov) [VSTOR-36154]
- cpufreq: intel_pstate: Make reasons for failure more visible (Evgenii Shatokhin) [PSBM-126007]
- ms/cpufreq: intel_pstate: Add reasons for failure and debug messages (Erwan Velu) [PSBM-126007]
- ms/netfilter: nft_compat: check extension hook mask only if set (Pablo Neira Ayuso) [PSBM-125884]
- ploop: Use `bio_kmalloc()` (Kirill Tkhai) [PSBM-98265]
- ms/lock_parent: don't step on stale `→d_parent` of all-but-freed one (Al Viro)
- ve/kmod: make fib modules autoloadable from CT (Pavel Tikhomirov) [PSBM-125002 PSBM-125002]
- configs: enable modules for nft fib rules (Pavel Tikhomirov) [PSBM-125002]
- netfilter: don't set `F_IFACE` on ipv6 fib lookups (Florian Westphal) [PSBM-125002]
- netfilter: nf_tables: fib: use `skb_header_pointer` (Pablo M. Bermudo Garay) [PSBM-125002]
- netfilter: nft_fib: Support existence check (Phil Sutter) [PSBM-125002]
- netfilter: rpfilter: fix incorrect loopback packet judgment (Liping Zhang) [PSBM-125002]
- netfilter: rpfilter: bypass ipv4 lbcast packets with zeronet source (Liping Zhang) [PSBM-125002]
- netfilter: nft_fib_ipv4: initialize `*dest` to zero (Liping Zhang) [PSBM-125002]
- netfilter: nft_fib: convert `htonl` to `ntohl` properly (Liping Zhang) [PSBM-125002]
- netfilter: nf_tables: add fib expression (Florian Westphal) [PSBM-125002]
- ms/ext4: Avoid freeing inodes on dirty list (Jan Kara)
- ms/writeback: Export `inode_io_list_del()` (Jan Kara)
- ms/ext4: handle `ext4_mark_inode_dirty` errors (Harshad Shirwadkar)
- ms/ext4: propagate error values from `ext4_inline_data_truncate()` (Theodore Ts'o)
- ms/ext4: allow `ext4_ext_truncate()` to return an error (Theodore Ts'o)
- ms/ext4: allow `ext4_truncate()` to return an error (Theodore Ts'o)

- ms/netfilter: nf_tables: fix update chain error (JingPiao Chen) [OVZ-7223]
- ms/netfilter: nf_tables: add generation mask to sets (Pablo Neira Ayuso) [OVZ-7223]
- ms/netfilter: nf_tables: add generation mask to chains (Pablo Neira Ayuso) [OVZ-7223]
- ms/netfilter: nf_tables: add generation mask to tables (Pablo Neira Ayuso) [OVZ-7223]
- ms/netfilter: nf_tables: add generic macros to check for generation mask (Pablo Neira Ayuso) [OVZ-7223]
- fcntl: make F_GETOWN(EX) return 0 on dead owner task (Pavel Tikhomirov) [PSBM-124623]
- mm/vmscan: add cond_resched() to loop in shrink_slab_memcg() (Andrey Ryabinin) [PSBM-125095]
- mm: memcg: fix memcg reclaim soft lockup (Xunlei Pang) [PSBM-125095]
- fs/direct-io.c: keep dio_warn_stale_pagecache() when CONFIG_BLOCK=n (Valeriy Vdovin) [PSBM-124609]
- iomap: report collisions between directio and buffered writes to userspace (Valeriy Vdovin) [PSBM-124609]
- ploop: Print mounted sb information on busy stop fail (Kirill Tkhai)
- ploop: Add comment in cached_submit() (Kirill Tkhai)
- ms/nfsd4: readdirplus shouldn't return parent of export (J. Bruce Fields) [PSBM-125025]
- ms: mm: mmu_gather: remove __tlb_reset_range() for force flush (Vasily Averin) [PSBM-124581]
- per-memcg negative dentries accounting (Vasily Averin) [PSBM-104223 OVZ-7225 PSBM-125735]
- overlayfs: relax capable check for trusted prefix xattrs (Andrey Zhadchenko) [PSBM-124532]
- Improve vps_dumpable check in __ptrace_may_access() (Vasily Averin) [PSBM-92107]
- ploop: Forced clear discard alignment (Kirill Tkhai) [PSBM-124496]
- cbt: Update CBT size from check_disk_size_change() (Kirill Tkhai) [PSBM-123819]
- tty: fix infinite loop in n_tty_receive_char() (Evgenii Shatokhin) [PSBM-123043]
- ms/fuse: fix bad inode (Miklos Szeredi) [PSBM-122970]
- fs: Resurrect generic_segment_checks() (Konstantin Khorenko) [OVZ-7243]
- ms/ptrace: fix task_join_group_stop() for the case when current is traced (Oleg Nesterov) [PSBM-123088]
- ms/signal: avoid double atomic counter increments for user accounting (Linus Torvalds) [PSBM-123088]
- ms/fork: Have new threads join on-going signal group stops (Eric W. Biederman) [PSBM-123088 PSBM-124538]
- nat: allow nft NAT and iptables NAT work on the same node (Vasily Averin) [PSBM-123345]
- fs/fuse kio: fix problem with simultaneous map resolving (Ildar Ismagilov) [VSTOR-39656]

- fs/fuse kio: always use memory registrations for iWarp RDMA reads (Ildar Ismagilov)
- ms/tracing: remove WARN_ON in start_thread() (Vasily Averin) [PSBM-122204]
- ms/tracing: Fix race in trace_open and buffer resize call (Vasily Averin) [PSBM-122343]
- ms/extable: Consolidate *kernel_text_address() functions (Vasily Averin) [PSBM-122315]
- ms/extable: Enable RCU if it is not watching in kernel_text_address() (Vasily Averin) [PSBM-122315]
- net: silence high-order-allocation warning in sctp_pack_cookie() (Vasily Averin) [PSBM-122200]
- ipv6: silence high-order allocation warinig in rawv6_sendmsg() (Vasily Averin) [PSBM-122200]
- ms/mm: list_lru: set shrinker map bit when child nr_items is not zero (Yang Shi)
- ms/packet: fix bitfield update race (Willem de Bruijn) [PSBM-123046]
- ms/make sock_alloc_file() do sock_release() on failures (Al Viro) [PSBM-123046]
- ms/socketpair(): allocate descriptors first (Al Viro) [PSBM-123046]
- ms/net: handle error more gracefully in socketpair() (Yann Droneaud) [PSBM-123046]
- ms/netfilter: ipset: Fix calling ip_set() macro at dumping (Jozsef Kadlecik) [PSBM-122965]
- ms/netfilter: ipset: fix suspicious RCU usage in find_set_and_id (Kadlecik József) [PSBM-122965]
- ms/netlink: add a start callback for starting a netlink dump (Tom Herbert) [PSBM-122965]
- ms/netfilter: ipset: Fix the last missing check of nla_parse_deprecated() (Jozsef Kadlecik) [PSBM-122965]
- ms/netfilter: ipset: fix a missing check of nla_parse (Aditya Pakki) [PSBM-122965]
- ms/netfilter: ipset: avoid null deref when IPSET_ATTR_LINENO is present (Florian Westphal) [PSBM-122965]
- ms/netfilter: ipset: Correct rcu_dereference() call in ip_set_put_comment() (Jozsef Kadlecik) [PSBM-123063]
- ms/netfilter: ipset: Fix forceadd evaluation path (Jozsef Kadlecik) [PSBM-123063]
- ms/xfrm: check id proto in validate_tmpl() (Cong Wang) [PSBM-123084]
- ms/net_sched: gen_estimator: fix lockdep splat (Eric Dumazet) [PSBM-123087]
- ms/ip6mr: fix stale iterator (Nikolay Aleksandrov) [PSBM-122990]
- ms/ext4: fix argument checking in EXT4_IOC_MOVE_EXT (Theodore Ts'o) [PSBM-122991]
- ms/mm/memory.c: share the i_mmap_rwsem (Davidlohr Bueso) [PSBM-122663]
- ms/mm/nommu: share the i_mmap_rwsem (Davidlohr Bueso) [PSBM-122663]
- ms/mm/memory-failure: share the i_mmap_rwsem (Davidlohr Bueso) [PSBM-122663]
- ms/uprobes: share the i_mmap_rwsem (Davidlohr Bueso) [PSBM-122663]
- ve/cgroup: At container start check ve's css_set for host-level cgroups. (Valeriy Vdovin)

[PSBM-123506]

- netlink: silence high-order memory allocation warning in netlink_ack (Vasily Averin) [PSBM-120889]
- ms/ipv6: remove null_entry before adding default route (Wei Wang) [PSBM-123045]
- ms/ipv6: repair fib6 tree in failure case (Wei Wang) [PSBM-123045]
- netfilter: nf_tables: allow to filter out rules by table and chain (Vasily Averin) [OVZ-7223]
- ms/netfilter: nft_set_rbtree: bogus lookup/get on consecutive elements in named sets (Pablo Neira Ayuso) [PSBM-121318]
- ms/netfilter: nft_set_rbtree: check for inactive element after flag mismatch (Pablo Neira Ayuso) [PSBM-121318]
- ms/netfilter: nft_set_rbtree: handle element re-addition after deletion (Pablo Neira Ayuso) [PSBM-121318]
- ms/netfilter: nft_rbtree: allow adjacent intervals with dynamic updates (Pablo Neira Ayuso) [PSBM-121318]
- ms/xfrm: policy: match with both mark and mask on user interfaces (Xin Long) [PSBM-123065]
- ms/xfrm: fix a warning in xfrm_policy_insert_list (Xin Long) [PSBM-123065]
- configs.minimal: update minimal configs up to RHEL7.9 kernel base (Vasily Averin)
- ve/device_cgroup: show all devices allowed in ct to fool docker (Pavel Tikhomirov) [PSBM-123668 PSBM-123630]
- ve/net/core: allow to call setsockopt(SO_RCVBUFFORCE) from Containers (Konstantin Khorenko)
- ms/net: rtnetlink: validate IFLA_MTU attribute in rtnl_create_link() (Eric Dumazet) [PSBM-122988]
- ms/net: drop bogus skb with CHECKSUM_PARTIAL and offset beyond end of trimmed packet (Vasily Averin) [PSBM-123062]
- ms/net: make skb_partial_csum_set() more robust against overflows (Eric Dumazet) [PSBM-123062]
- ms/net: Fix usage of pskb_trim_rcsum (Ross Lagerwall) [PSBM-123062]
- ms/netfilter: xt_checksum: ignore gso skbs (Florian Westphal) [PSBM-123062]
- ms/netfilter: ipset: Fix "INFO: rcu detected stall in hash_xxx" reports (Jozsef Kadlec) [PSBM-123086]
- ms/netfilter: Replace spin_is_locked() with lockdep (Lance Roy) [PSBM-123086]
- ms/netfilter: ipset: Convert timers to use timer_setup() (Kees Cook) [PSBM-123086]
- ms/nfsd: Don't add locks to closed or closing open stateids (Trond Myklebust) [PSBM-121984]
- ms/nfsd: Detect unhashed stids in nfsd4_verify_open_stid() (Trond Myklebust) [PSBM-121984]
- ms/nfsd: Fix race in lock stateid creation (Trond Myklebust) [PSBM-121984]

- ms/nfsd4: move find_lock_stateid (Trond Myklebust) [PSBM-121984]
- ms/nfsd: Ensure we don't recognise lock stateids after freeing them (Trond Myklebust) [PSBM-121984]
- ms/nfsd: Fix stateid races between OPEN and CLOSE (Trond Myklebust) [PSBM-121984]
- ms/fs, nfsd: convert nfs4_file.fi_ref from atomic_t to refcount_t (Elena Reshetova) [PSBM-121984]
- ms/fs, nfsd: convert nfs4_cntl_odstate.co_odcount from atomic_t to refcount_t (Elena Reshetova) [PSBM-121984]
- ms/fs, nfsd: convert nfs4_stid.sc_count from atomic_t to refcount_t (Elena Reshetova) [PSBM-121984]
- ms/nfsd: Make init_open_stateid() a bit more whole (Oleg Drokin) [PSBM-121984]
- ms/mm/rmap: share the i_mmap_rwsem (Davidlohr Bueso) [PSBM-122663]
- ms/mm: convert i_mmap_mutex to rwsem (Davidlohr Bueso) [PSBM-122663]
- ms/mm: use new helper functions around the i_mmap_mutex (Davidlohr Bueso) [PSBM-122663]
- ms/mm,fs: introduce helpers around the i_mmap_mutex (Davidlohr Bueso) [PSBM-122663]
- mm, page_alloc: move_freepages should not examine struct page of reserved memory (David Rientjes) [PSBM-123085]
- mm/memcg: cleanup vmpressure from mem_cgroup_css_free() (Andrey Ryabinin) [PSBM-93884 PSBM-122653]
- commoncap: relax setxattr and removxattr checks (Andrey Zhadchenko) [PSBM-122071]
- ploop: Fix crash in purge_lru_warn() (Kirill Tkhai) [PSBM-122035]
- fs/fuse kio: fix processing order of RDMA works during throttle/unthrottle (Ildar Ismagilov) [VSTOR-38354]
- fs/fuse kio: post rdma work requests only after connection is established (Ildar Ismagilov) [VSTOR-38116]
- ploop: Invalidate pagecache on service operations (Kirill Tkhai)
- ploop: Add statistics of fastmap requests, which fails because of cache (Kirill Tkhai)
- ve: Reorder ve → ve_ns assignment in ve_grab_context() (Kirill Tkhai)
- ploop: Add more debug on error (Kirill Tkhai)
- ploop: Preallocate clusters before nullifying on grow (Kirill Tkhai) [PSBM-121772]
- netlink: add an option to set sk → err from userspace (Andrey Zhadchenko) [PSBM-120976]
- netlink: protect NETLINK_REPAIR2 (Andrey Zhadchenko)
- ms/NFSD: Fix a null reference case in find_or_create_lock_stateid() (Vasily Averin) [PSBM-121833]
- ploop: Reduce batch size in populate_holes_bitmap() (Kirill Tkhai) [PSBM-121839]
- ve/kmod: make nfnetlink_log autoloadable upon request from a CT (Pavel Tikhomirov)

[PSBM-121652]

- vmalloc: cancel allocation for oom-killed tasks (Vasily Averin) [PSBM-108091]
- ms/aio: Kill aio_rw_vect_retry() (Kent Overstreet) [PSBM-121197]
- ms/vt: selection, push sel_lock up (Jiri Slaby) [PSBM-121234]
- ms/vt: selection, push console lock down (Jiri Slaby) [PSBM-121234]
- ploop: Wake up on last discard bio from ploop_complete_request() (Kirill Tkhai) [PSBM-121135]
- mm/memcg: optimize mem_cgroup_enough_memory() (Andrey Ryabinin) [PSBM-120968]
- ms/bcache: fix NULL pointer deref in blk_add_request_payload (Lars Ellenberg) [PSBM-121142]
- ploop: kaio: Clear swapfile flag (Kirill Tkhai) [PSBM-107743]
- mm/filemap: fix potential memcg → cache charge leak (Andrey Ryabinin) [PSBM-121046]
- vznetstat: Move the code to drop redundant skb marks to *_xmit() functions #PSBM-122082 (Konstantin Khorenko) [PSBM-122082]
- vznetstat: Skip local skb going from !IFF_LOOPBACK interface (Kirill Tkhai) [PSBM-120713]
- vznetstat: Simplify venet_acct_out_hook() (Kirill Tkhai) [PSBM-120713]
- vznetstat: Kill unused venet_acct_classify_sub_outgoing() (Kirill Tkhai) [PSBM-120713]
- vmscan: don't report reclaim progress if there was no progress. (Andrey Ryabinin) [PSBM-104900]
- tun: Silence allocation failer if user asked for too big header (Andrey Ryabinin) [PSBM-103639]
- memcg: fixes accounting for allocations called in "disabled BH" context (Vasily Averin) [PSBM-108292]
- ploop: Change type of freezing argument on snapshot (Kirill Tkhai) [PSBM-107925]
- ovl: enable kmem accounting for overlayfs inodes (Vasily Averin) [PSBM-108292]
- ovl: introduce new "index=nouuid" option for inodes index feature (Pavel Tikhomirov) [PSBM-11961 PSBM-108115]
- ploop: Wait till fsync_thread goes to sleep on ploop_quiesce() (Kirill Tkhai) [PSBM-108101]
- ploop: Rename label in kaio_fsync_thread() (Kirill Tkhai) [PSBM-108101]
- ploop: zero-out block device statistics at ploop_stop (Valeriy Vdovin) [PSBM-95605]
- mm, memcg: add oom counter to memory.stat memcgroup file #PSBM-107731 (Andrey Ryabinin) [PSBM-107731]
- ipset: enable memory accounting for ipset memory allocations (Vasily Averin) [PSBM-108091]
- ms/KVM: LAPIC: Fix pv ipis use-before-initialization (Wanpeng Li) [PSBM-104805]
- ms/KVM: LAPIC: Fix pv ipis out-of-bounds access (Wanpeng Li) [PSBM-107931]

- cgroup: fixed NULL-pointer dereference in cgroup_release_agent (Valeriy Vdovin) [PSBM-107673]
- x86_64: fix crashes due to bogus iret traps handling #PSBM-107794 (Andrey Ryabinin) [PSBM-107794]
- ploop: Fix race between truncate and i_size_read() (Kirill Tkhai) [PSBM-108008]
- ploop: Add comments about fsync_thread (Kirill Tkhai) [PSBM-108008]
- ploop: Do not do useless preallocation in kaio_submit_alloc() (Kirill Tkhai) [PSBM-108008]
- ploop: Kaio simplify truncate() in kaio_fsync_thread() (Kirill Tkhai) [PSBM-108008]
- ploop: call check_lockout() under ploop → lock (Kirill Tkhai) [PSBM-108002]
- modules: use kvmalloc when creating sysfs attributes for ELF sections (Evgenii Shatokhin) [PSBM-95050 PSBM-108015]
- ploop: Transform never-true check (Kirill Tkhai) [PSBM-107643]
- ploop: Kill unused truncate ioctl() (Kirill Tkhai)
- ploop: Provide interface to pass freezing fs during snapshot (Kirill Tkhai) [PSBM-105630]
- keys, user: Fix high order allocation in user_instantiate() #PSBM-107794 (Andrey Ryabinin) [PSBM-107794 PSBM-108198 PSBM-108198]
- ms/bcache: fix cache_set_flush() NULL pointer dereference on OOM #PSBM-106785 (Eric Wheeler) [PSBM-106785]
- ms/bcache: unregister reboot notifier if bcache fails to unregister device #PSBM-106785 (Zheng Liu) [PSBM-106785]
- ms/bcache: Data corruption fix #PSBM-106785 (Kent Overstreet) [PSBM-106785]
- bcache: Fix crashes of bcache used with raid1 #PSBM-106785 (Andrey Ryabinin) [PSBM-106785]
- vznetstat: Clear skb → mark on entering to VE's IP stack (Kirill Tkhai) [PSBM-107742]
- ipc: add export_operations to mqueue sb (Andrey Zhadchenko) [PSBM-103727]
- rh/fs/dcache: Track & report number of negative dentries (Vasily Averin) [PSBM-107699]
- cgroup: Fixed null pointer dereference at cgroup_mount #PSBM-107596 (Valeriy Vdovin) [PSBM-107596]
- ploop: Disable discard on ploop1 v1 after snapshot (Kirill Tkhai) [PSBM-107598]
- ploop: Allow FUSE to avoid maintaince mode based discard (Kirill Tkhai) [PSBM-107598]
- ploop: Introduce may_allow_falloc_discard() (Kirill Tkhai) [PSBM-107598]
- ploop: Allow to configure FUSE discard_granularity (Kirill Tkhai) [PSBM-107598]
- ploop: Move queue autoconfiguration into add delta stage (Kirill Tkhai) [PSBM-107598]
- ploop: Move blk_queue_make_request() into __ploop_dev_alloc() (Kirill Tkhai) [PSBM-107598]
- ve/perf: forbid perf events syscall in containers (Pavel Tikhomirov) [PSBM-107217]

- ms/ipv4: Namespaceify tcp_fastopen knob (Haishuang Yan) [PSBM-107100]
- ploop: Allow to set discard_granularity for io_kaio (Kirill Tkhai) [PSBM-105347]
- ploop: Zero discard limits on stop (Kirill Tkhai) [PSBM-105347]
- ploop: Move v1 PLOOP_S_NO_FALLOCDISCARD to ploop1_open() (Kirill Tkhai) [PSBM-105347]
- ploop: Refactoring in ploop1_open() (Kirill Tkhai) [PSBM-105347]
- ploop: Clear PLOOP_S_NO_FALLOCDISCARD on restart (Kirill Tkhai) [PSBM-105347]
- ms/teach move_mount(2) to work with OPEN_TREE_CLONE (Pavel Tikhomirov) [PSBM-107263 PSBM-107263]
- ms/vfs: syscall: Add move_mount(2) to move mounts around (Pavel Tikhomirov) [PSBM-107263 PSBM-107263]
- ms/vfs: syscall: Add open_tree(2) to reference or clone a mount (Pavel Tikhomirov) [PSBM-107263 PSBM-107263]
- ms/saner handling of temporary namespaces (Pavel Tikhomirov) [PSBM-107263 PSBM-107263]
- ext4: Handle DAX case in .read_iter (Kirill Tkhai) [PSBM-105347]
- ext4: Convert ext4_file_dax_read() into ext4_file_dax_read_iter() (Kirill Tkhai) [PSBM-105347]
- ext4: Disable ploop's fastmap for DAX (Kirill Tkhai) [PSBM-105347]
- fs/fuse kio: int overflow while calculation of pos in map_truncate_tail() (Ildar Ismagilov) [VSTOR-36154]
- ploop: Formulate "kaio_backed_ext4" module parameter purpose (Kirill Tkhai) [PSBM-105347]
- ploop: Add @id argument to → autodetect() (Kirill Tkhai) [PSBM-105347]
- ms/kernel/kmod: fix use-after-free of the sub_info structure (Martin Schwidefsky) [PSBM-107061]
- ms/netfilter: nfnetlink: correctly validate length of batch messages (take 2) (Andrey Ryabinin) [PSBM-57511 PSBM-106395]
- mm: Reduce access frequency to shrinker_rwsem during shrink_slab (Valeriy Vdovin) [PSBM-99181 PSBM-99181 PSBM-99181]
- ploop: Enable 1M holes with zeroing indexes for io_kaio (Kirill Tkhai) [PSBM-105347 PSBM-129412]
- ploop: io_kaio: Introduce 4K discard_granularity with 1M clearing indexes when possible (Kirill Tkhai) [PSBM-105347]
- ext4: Fix fiemap() with FIEMAP_FLAG_CACHE flag (Kirill Tkhai) [PSBM-105347]
- ms/ext4: add a new ioctl EXT4_IOC_CLEAR_ES_CACHE (Theodore Ts'o) [PSBM-105347]
- ploop: Fix kaio_sync_io() for multy-pages case (Kirill Tkhai) [PSBM-105347]
- ploop: Pass correct argument in kaio_sync_read_many() (Kirill Tkhai) [PSBM-105347]

- net: openvswitch: add capability to specify ifindex of new links (Andrey Zhadchenko) [PSBM-105844 PSBM-105844]
- ms/KVM: X86: Implement "send IPI" hypercall (Wanpeng Li) [PSBM-104805]
- ploop: io_kaio: Protect → fastmap against EXT4_IOC_MOVE_EXT and punch hole (Kirill Tkhai) [PSBM-105347]
- fs: Export mapping_needs_writeback() (Kirill Tkhai) [PSBM-105347]
- ploop: Add @write argument to → fastmap (Kirill Tkhai) [PSBM-105347]
- ploop: Introduce → fastmap_end_io (Kirill Tkhai) [PSBM-105347]
- ve/cgroup: At cgroup_mark(unmark)_ve_roots skip non-virtualized roots (Valeriy Vdovin)
- ve/cgroup: cleanup per_cgroot_data at cgroup mount destruction (Valeriy Vdovin)
- ve/cgroup: added release_agent to each container root cgroup. (Valeriy Vdovin) [PSBM-83887 PSBM-107328]
- ve/cgroup: set release_agent_path for root cgroups separately for each ve. (Valeriy Vdovin) [PSBM-83887 PSBM-121438 PSBM-121438]
- ve/cgroup: private per-cgroup-root data container (Valeriy Vdovin)
- ve/cgroup: Implemented logic that uses 'cgroup → ve_owner' to run release_agent notifications. (Valeriy Vdovin) [PSBM-83887]
- ve/cgroup: moved release_agent from system_wq to per-ve workqueues (Valeriy Vdovin)
- ve/cgroup: Added ve_owner field to cgroup (Valeriy Vdovin)
- ve/cgroup: saving root_css to ve (Valeriy Vdovin)
- cgroup: exported __put_css_set and wrappers to cgroup.h (Valeriy Vdovin)
- cgroup: added rcu node string wrapper for in-cgroup usage. (Valeriy Vdovin)
- ve/cgroup: implemented per-ve workqueue. (Valeriy Vdovin)
- ploop: Fix discard iocb leak (Kirill Tkhai)
- fs/fuse kio: NULL pointer dereference in case of dead map (Ildar Ismagilov) [VSTOR-34510]
- fs/fuse kio: concurrently work shrink and IO operations (Ildar Ismagilov)
- fs/fuse kio: allocate memory for each RDMA RX buffer separately (Ildar Ismagilov)
- fs/fuse kio: calculate network latency properly (Ildar Ismagilov)
- fs/fuse kio: show latency in cs_stats properly (Ildar Ismagilov)
- mm/memcg: fix cache growth above cache.limit_in_bytes (Andrey Ryabinin) [PSBM-106384]
- cgroup: add export_operations to cgroup super block (Andrey Zhadchenko) [PSBM-105889]
- ms/KVM: x86: Fix perfctr WRMSR for running counters (Eric Hankland) [PSBM-104805]
- ms/KVM: x86/pmu: do not mask the value that is written to fixed PMUs (Vasily Averin) [PSBM-104805]
- ms/netfilter: nf_contrack: flush net_gre → keymap_list only from gre helper (Andrey Vagin) [OVZ-7224]

- chardev: Avoid potential use-after-free in 'chrdev_open()' (Will Deacon) [PSBM-106229]
- configs: set overlayfs nfs_export option to true (Valeriy Vdovin) [PSBM-104961]
- net/mlx5: suppress high order allocation (Vasily Averin) [VSTOR-35452]
- memcg/kmem: don't show fake charge in usage and limits (Pavel Tikhomirov) [PSBM-106065]
- ext4: recalculate journal credits as inode depth changes (Lukas Czermer)
- ext4: make sure enough credits are reserved for (Theodore Ts'o)
- mm/memcg: Use per-cpu stock charges for → kmem and → cache counters (Andrey Ryabinin) [PSBM-101300 OVZ-7250 OVZ-7250 OVZ-7250]
- mm: Add and use batched version of __tlb_remove_table() (Andrey Ryabinin) [PSBM-101300]
- ms/mm: per-thread vma caching (Davidlohr Bueso) [PSBM-101300]
- asm-generic/tlb: avoid potential double flush (Peter Zijlstra) [PSBM-101300]
- asm-generic/tlb: Track which levels of the page tables have been cleared (Will Deacon) [PSBM-101300]
- asm-generic/tlb: Track freeing of page-table directories in struct mmu_gather (Peter Zijlstra) [PSBM-101300]
- mm: only drain per-cpu pagevecs once per pagevec usage (Mel Gorman) [PSBM-98148]
- ext4: Avoid sleepable debug check in (Kirill Tkhai)
- ext4: Do read_trylock on fastmap (Kirill Tkhai)
- ext4: Introduce __ext4_es_lookup_extent() (Kirill Tkhai)
- kernfs/sysfs: add ioctl to get fd network namespace tag (Pavel Tikhomirov) [PSBM-105161]
- mempolicy: Prohibit VE processes numa binding syscalls (Kirill Tkhai) [PSBM-92583]
- ve/cgroup: fixup for " ve/cgroup: do not link a CT cpu (Vasily Averin) [PSBM-105237]
- sched/cpupri: Replace NR_CPUS arrays (Peter Zijlstra) [PSBM-105230]
- ms: fs/namespace.c: fix mountpoint reference counter race (Vasily Averin) [PSBM-104964]
- ms: af_packet: set default value for tmo (Mao Wenan) [PSBM-105085]
- ploop: Fix divide by null in purge_lru_warn() (Kirill Tkhai) [PSBM-104867]
- ploop: Inherit stacking limits for ext4 over io_kaio (Kirill Tkhai)
- fs/fuse kio: set the connection params for RDMA properly (Ildar Ismagilov)
- ploop: Introduce fastpath for io_kaio (Kirill Tkhai)
- ext4: Introduce ext4_fastmap() (Kirill Tkhai)
- ext4: Extract logic from ext4_overwrite_io() to underlining function (Kirill Tkhai)
- ploop: Add more debug info into PLOOP_REQ_TRACE_ERROR (Kirill Tkhai)
- ms/mm, page_alloc: drop should_suppress_show_mem (Michal Hocko)
- ms/dynamic debug: line queries failing due to uninitialized local variable

(jbaron@akamai.com) [PSBM-104590]

- ms/ovl: Fix dereferencing possible ERR_PTR() (Ding Xiang) [PSBM-104589]
- nsfs: mark dentry with DCACHE_RCUACCESS (Cong Wang) [PSBM-102357 PSBM-102357]
- tun: Add ioctl() TUNGETDEVNETNS cmd to allow obtaining real net ns of tun device (Kirill Tkhai) [PSBM-102357 PSBM-102357]
- tun: Add ioctl() SIOCGSKNS cmd to allow obtaining net ns of tun device (Kirill Tkhai) [PSBM-102357 PSBM-102357]
- net: Make extern and export get_net_ns() (Kirill Tkhai) [PSBM-102357 PSBM-102357]
- net: Export open_related_ns() (Kirill Tkhai) [PSBM-102357 PSBM-102357]
- nsfs: Add a show_path method to fix mountinfo (Eric W. Biederman) [PSBM-102357 PSBM-102357]
- pidns: expose task pid_ns_for_children to userspace (Kirill Tkhai) [PSBM-102357 PSBM-102357]
- ns: allow ns_entries to have custom symlink content (Kirill Tkhai) [PSBM-102357 PSBM-102357]
- net: add an ioctl to get a socket network namespace (Andrey Vagin) [PSBM-102357 PSBM-102357]
- nsfs: add ioctl to get a parent namespace (Andrey Vagin) [PSBM-102357 PSBM-102357]
- nsfs: add ioctl to get an owning user namespace for ns file descriptor (Andrey Vagin) [PSBM-102357 PSBM-102357]
- kernel: add a helper to get an owning user namespace for a namespace (Andrey Vagin) [PSBM-102357 PSBM-102357]
- take the targets of /proc//ns/ symlinks to separate fs (Al Viro) [PSBM-102357 PSBM-102357]
- dcache.c: call →d_prune() regardless of d_unhashed() (Al Viro) [PSBM-102357 PSBM-102357]
- bury struct proc_ns in fs/proc (Al Viro) [PSBM-102357 PSBM-102357]
- copy address of proc_ns_ops into ns_common (Al Viro) [PSBM-102357 PSBM-102357]
- new helpers: ns_alloc_inum/ns_free_inum (Al Viro) [PSBM-102357 PSBM-102357]
- make proc_ns_operations work with struct ns_common * instead of void * (Al Viro) [PSBM-102357 PSBM-102357]
- switch the rest of proc_ns_operations to working with &...→ns (Al Viro) [PSBM-102357 PSBM-102357]
- netns: switch →get()/→put()/→install()/→inum() to working with &net→ns (Al Viro) [PSBM-102357 PSBM-102357]
- make mntns →get()/→put()/→install()/→inum() work with &mnt_ns→ns (Al Viro) [PSBM-102357 PSBM-102357]
- ms: common object embedded into various structns (Al Viro) [PSBM-102357 PSBM-102357]
- userns: move EXPORT_SYMBOL closer to current_in_userns (Pavel Tikhomirov) [PSBM-

102357 PSBM-102357]

- configs: add/enable options for overlayfs paths absolute resolution (Konstantin Khorenko) [PSBM-58614]
- overlayfs: add mnt_id paths options (Alexander Mikhailitsyn) [PSBM-58614]
- overlayfs: add dynamic path resolving in mount options (Alexander Mikhailitsyn) [PSBM-58614]
- ploop: Disable discard on ioctl(PLOOP_IOC_FREEZE) (Kirill Tkhai) [PSBM-104462]
- ploop: Kill unused PLOOP_S_SYNC (Kirill Tkhai)
- ploop: Use kmem_cache for iocb allocation (Kirill Tkhai)
- ms/memcg: remove tasks/children test from mem_cgroup_force_empty() (Michal Hocko) [PSBM-104451]
- net: Rename net_sem to pernet_ops_rwlock (Kirill Tkhai) [PSBM-104158]
- net: Kill net_mutex (Kirill Tkhai) [PSBM-104158]
- ve: Synchronize vznetstat pernet_operations (Kirill Tkhai) [PSBM-104158]
- mac80211_hwsim: Make hwsim_netgroup IDA (Kirill Tkhai) [PSBM-104158]
- net: Move mutex_unlock() in cleanup_net() up (Kirill Tkhai) [PSBM-104158]
- net: Introduce net_sem for protection of pernet_list (Kirill Tkhai) [PSBM-104158]
- net: Cleanup in copy_net_ns() (Kirill Tkhai) [PSBM-104158]
- net: Assign net to net_namespace_list in setup_net() (Kirill Tkhai) [PSBM-104158]
- net: Move net:netns_ids destruction out of rtnl_lock() and document locking scheme (Kirill Tkhai) [PSBM-104158]
- net: Fix possible race in peernet2id_alloc() (Kirill Tkhai) [PSBM-104158]
- ms/net: Make account struct net to memcg (Kirill Tkhai)
- ms/net: use net → count to check whether a netns is alive or not (Andrey Vagin)
- ms/net: skip generating uevents for network namespaces that are exiting (Andrey Vagin)
- net: Bring clearness to ve_netns deassignment (Kirill Tkhai)
- locking/rwsem: Add down_read_killable() (Kirill Tkhai) [PSBM-104158]
- locking: Add LOCK_CONTENTENDED_RETURN (Kirill Tkhai) [PSBM-104158]
- locking/arch, x86: Add __down_read_killable() (Kirill Tkhai) [PSBM-104158]
- locking/x86: Use named operands in rwsem.h (Miguel Bernal Marin) [PSBM-104158]
- locking/rwsem-xadd: Add killable versions of rwsem_down_read_failed() (Kirill Tkhai) [PSBM-104158]
- x86/asm: Use register variable to get stack pointer value (Andrey Ryabinin) [PSBM-104158]
- ploop: Introduce possibility to use kaio engine for ext4 (Kirill Tkhai) [PSBM-99793]
- fs: direct-io: don't dirtying pages for ITER_BVEC/ITER_KVEC direct read (Ming Lei) [PSBM-99793]

- ext4: Attach write_iter and read_iter (Kirill Tkhai) [PSBM-99793]
- ext4: Introduce ext4_file_write_iter() (Kirill Tkhai) [PSBM-99793]
- ext4: ext4_file_dax_write() switch to iov_iter (Kirill Tkhai) [PSBM-99793]
- fs: More use iov_iter in ext4_file_write() (Kirill Tkhai) [PSBM-99793]
- ext4: ext4_write_checks(): switch to iov_iter (Kirill Tkhai) [PSBM-99793]
- dax: dax_iomap_rw(): switch to iov_iter (Kirill Tkhai) [PSBM-99793]
- ext4: ext4_file_dio_write(): switch to iov_iter (Kirill Tkhai) [PSBM-99793]
- bio_vec-backed iov_iter (Al Viro) [PSBM-99793]
- new helper: iov_iter_npages() (Al Viro) [PSBM-99793]
- direct-io: fix AIO regression (Christoph Hellwig) [PSBM-99793]
- direct-io: fix uninitialized warning in do_direct_IO() (Boaz Harrosh) [PSBM-99793]
- new helper: iov_iter_get_pages() (Al Viro) [PSBM-99793]
- dio: take updating → result into do_direct_IO() (Kirill Tkhai) [PSBM-99793]
- new primitive: iov_iter_alignment() (Al Viro) [PSBM-99793]
- iot_iter: Add iov_iter_alignment() (Kirill Tkhai) [PSBM-99793]
- give → direct_IO() a copy of iov_iter (Al Viro) [PSBM-99793]
- fs: blockdev_direct_IO: switch to iov_iter (Kirill Tkhai) [PSBM-99793]
- fs: Replace iov_length() with its iov_iter synonym iov_iter_count() (Kirill Tkhai) [PSBM-99793]
- ext4: Use iov_iter argument in direct_IO functions (Kirill Tkhai) [PSBM-99793]
- mm: Kill useless mapping_direct_IO() (Kirill Tkhai) [PSBM-99793]
- fs: Kill → direct_IO_bvec (Kirill Tkhai) [PSBM-99793]
- fs: Pass iov_iter to → direct_IO (Kirill Tkhai) [PSBM-99793]
- mm: Use iov_iter in __swap_writepage() (Kirill Tkhai) [PSBM-99793]
- mm: Kill unused → direct_IO_page (Kirill Tkhai) [PSBM-99793]
- kill generic_segment_checks() (Al Viro) [PSBM-99793]
- __btrfs_direct_write(): switch to iov_iter (Al Viro) [PSBM-99793]
- fs: generic_file_direct_write() switch to iov_iter (Kirill Tkhai) [PSBM-99793]
- fs/file.c: don't open-code kvfree() (Al Viro) [PSBM-99793]
- fs/fuse kio: align CS messages to 512 bytes (Ildar Ismagilov) [VSTOR-33830]
- fs/fuse kio: add storage_version attribute to control filesystem (Ildar Ismagilov) [VSTOR-33830]
- FMODE_MOUNT redefine (Vasily Averin)
- netfilter: conntrack: fix false-positive compiler warning in early_drop() (Konstantin Khorenko) [PSBM-103515]

- netfilter: xt_MARK: Add ARP support (Zhang Chunyu) [PSBM-103515]
- ms/netfilter: conntrack: use single slab cache (Florian Westphal) [PSBM-103515]
- ms/netfilter: conntrack: use a single nat bysource table for all namespaces (Florian Westphal) [PSBM-103515]
- ms/netfilter: conntrack: make netns address part of nat bysrc hash (Florian Westphal) [PSBM-103515]
- ms/netfilter: conntrack: use a single expectation table for all namespaces (Florian Westphal) [PSBM-103515]
- ms/netfilter: conntrack: make netns address part of expect hash (Florian Westphal) [PSBM-103515]
- ms/netfilter: conntrack: use get_random_once for nat and expectations (Florian Westphal) [PSBM-103515]
- ms/netfilter: conntrack: check netns when walking expect hash (Florian Westphal) [PSBM-103515]
- ms/netfilter: conntrack: fix calculation of next bucket number in early_drop (Vasily Khoruzhick) [PSBM-103515]
- ms/netfilter: nf_conntrack: Fix possible possible crash on module loading. (Andrey Ryabinin) [PSBM-103515]
- ms/netfilter: conntrack: do not dump other netns's conntrack entries via proc (Liping Zhang) [PSBM-103515]
- ms/netfilter: conntrack: consider ct netns in early_drop logic (Florian Westphal) [PSBM-103515]
- ms/netfilter: conntrack: use a single hashtable for all namespaces (Florian Westphal) [PSBM-103515]
- revert RH patch 9837-net-netfilter-nf_conntrack-don-t-resize-NULL-or-free.patch (Konstantin Khorenko) [PSBM-103515]
- ms/netfilter: conntrack: make netns address part of hash (Florian Westphal) [PSBM-103515]
- ms/netfilter: conntrack: check netns when comparing conntrack objects (Florian Westphal) [PSBM-103515]
- ms/netfilter: conntrack: small refactoring of conntrack seq_printf (Florian Westphal) [PSBM-103515]
- ms/netfilter: conntrack: use nf_ct_key_equal() in more places (Florian Westphal) [PSBM-103515]
- ms/netfilter: conntrack: don't attempt to iterate over empty table (Florian Westphal) [PSBM-103515]
- ms/netfilter: add missing IS_ENABLED(CONFIG_NF_TABLES) check to header-file. (Jeremy Sowden)
- beancounter, memcg: inline some functions for easier debugging (Andrey Ryabinin) [PSBM-98148]

- mnt: allow to add a mount into an existing group (Andrei Vagin) [PSBM-58617 PSBM-58617]
- ms/netlink: do not enter direct reclaim from netlink_trim() (Vasily Averin) [PSBM-104086]
- ms/netlink: do not enter direct reclaim from netlink_dump() (Vasily Averin) [PSBM-104086]
- ms/cgroup: make sure a parent css isn't offlined before its children (Tejun Heo) [PSBM-104029 PSBM-104524]
- mm: Warn on zero uncharge in memcg_uncharge_kmem() (Kirill Tkhai)
- packet: Never charge 0 kmem in packet_sk_charge() (Kirill Tkhai)
- mm/memcg: Fix race on mem cgroup offline/kmem deactivation. (Andrey Ryabinin) [PSBM-98148]
- net/netfilter: make nft NAT working in different netns simultaneously (Konstantin Khorenko) [PSBM-102728 PSBM-103718 PSBM-103746]
- net/netfilter: add a mark to distinguish nft ops (Konstantin Khorenko) [PSBM-102728 PSBM-103746]
- mm: Add RCU read brackets into memcg_uncharge_kmem() (Kirill Tkhai)
- mm: Move memcg_uncharge_kmem() to bottom of __memcg_uncharge_slab() (Kirill Tkhai)
- ms/i40iw: remove bogus call to netdev_master_upper_dev_get (Denis V. Lunev) [VSTOR-33397]
- drm/qxl: qxl_release use after free (Vasily Averin) [PSBM-102320]
- fs/locks: Remove legacy UB_NUMFLOCKS (Andrey Ryabinin) [PSBM-102022]
- ms/drm/qxl: qxl_release leak in qxl_hw_surface_alloc() (Vasily Averin)
- ms/drm/qxl: qxl_release leak in qxl_draw_dirty_fb() (Vasily Averin)
- configs.minimal: update minimal configs up to RHEL7.8 kernel base (Konstantin Khorenko)
- ms/nfsd: memory corruption in nfsd4_lock() (Vasily Averin) [PSBM-102407]
- ms/net: adjust skb → truesize in pskb_expand_head() (Eric Dumazet) [PSBM-102386]
- ploop: redefine of BIO_BDEV_REUSED (Vasily Averin) [PSBM-102864]
- ub: show up to date data counters in beancounter cgroup (Valeriy Vdovin) [PSBM-95266]
- memcg, bc/vm_pages.c: account some swapped memory as used in CT in /proc/meminfo (Andrey Ryabinin) [PSBM-102266]
- ms/ext4: potential crash on allocation error in ext4_alloc_flex_bg_array() (Dan Carpenter) [PSBM-102478]
- ms/ext4: fix potential race between s_group_info online resizing and access (Suraj Jitindar Singh) [PSBM-102478]
- ploop: Add interface to dump cached BAT (Kirill Tkhai)
- config.OpenVZ.minimal: enable infiniband for fast-path for vStorage (Ildar Ismagilov)
- fs/fuse kio: implement support RDMA transport (Ildar Ismagilov) [VSTOR-4310]
- fs/fuse kio: make pcs auth socket independent (Ildar Ismagilov) [VSTOR-4310]

- fs/fuse kio: make pcs rpc socket independent (Ildar Ismagilov) [VSTOR-4310]
- fs/fuse kio: drop external cs connection (Pavel Butsykin) [VSTOR-4310]
- fs/fuse kio: implement internal cs connection (Pavel Butsykin) [VSTOR-4310]
- mm/memcg: save css_get/put stacks (Andrey Ryabinin) [PSBM-98148 PSBM-98148 PSBM-102118 PSBM-98148 PSBM-98148 PSBM-98148]
- mm/memcontrol: offload offline reclaim to background work. (Andrey Ryabinin) [PSBM-101639]
- ms/ext4: fix potential race between s_flex_groups online resizing and access (Suraj Jitindar Singh) [PSBM-101798]
- ms/ext4: fix potential race between online resizing and write operations (Theodore Ts'o) [PSBM-101798]
- ploop: Be overprotective on discard (Kirill Tkhai)
- ploop: Rename bio_discard_inflight_reqs into discard_inflight_reqs (Kirill Tkhai)
- ploop: Rename fast_path_waitq into pending_waitq (Kirill Tkhai)
- ploop: Simplify check in ploop_fast_end_io() (Kirill Tkhai)
- ploop: Disable fast path on in case of pending discard (Kirill Tkhai)
- ploop: Stop fast path reqs living their own lives (Kirill Tkhai)
- ploop: Replace delta under quiesce state (Kirill Tkhai)
- mm/memcontrol: memcg_move_account() get rid of lock_page dependency. (Andrey Ryabinin) [PSBM-101639 PSBM-101757 PSBM-94117]
- ploop: Debug check that we never send discards to header (Kirill Tkhai) [PSBM-101842]
- ms/VFS: use synchronize_rcu_expedited() in namespace_unlock() (NeilBrown) [PSBM-101530]
- ploop: Set discard limits after blk_queue_stack_limits() (Kirill Tkhai) [OVZ-7130]
- ve/net/bridge: make net.bridge.* sysctl visible in Containers (r/o) (Konstantin Khorenko) [PSBM-92107]
- ve/proc/block: show /proc/diskstats inside a Container (Konstantin Khorenko) [PSBM-90491 PSBM-92107]
- ve/bridge: handle netlink messages AF_BRIDGE / RTM_[GSD]ETLINK sent from inside a Container (Konstantin Khorenko) [PSBM-92107]
- net: export "net//neigh//*" sysctls for Container (Konstantin Khorenko) [PSBM-92107]
- openvswitch: allow to create ovs bridges inside Containers (Konstantin Khorenko) [PSBM-92107]
- ve/procfs: make /proc/config.gz visible inside Containers (Konstantin Khorenko) [PSBM-92107]
- configs: provide kernel config via proc (Konstantin Khorenko) [PSBM-92107]
- pfcache: do not drop pfcache checksum during mmap(SHARED) of ro-files (Vasily Averin)

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- mm/filemap: add pfcache support to filemap_map_pages (Andrey Ryabinin) [PSBM-101300]
- ms/mm: add debugfs tunable for fault_around_order (Kirill A. Shutemov) [PSBM-101300]
- ms/mm: cleanup size checks in filemap_fault() and filemap_map_pages() (Kirill A. Shutemov) [PSBM-101300]
- ms/mm: implement \rightarrow map_pages for page cache (Kirill A. Shutemov) [PSBM-101300]
- ms/mm: introduce vm_ops \rightarrow map_pages() (Kirill A. Shutemov) [PSBM-101300]
- ploop: Use ploop_alloc_request() in ploop_bio_queue() (Kirill Tkhai)
- ploop: Add congest argument in ploop_alloc_request() (Kirill Tkhai)
- ploop: Move duplicated initialization into helper (Kirill Tkhai)
- ploop: Delay reusing cluster on discard till previous index flushed (Kirill Tkhai)
- fs/fuse kio: missing ireq's completion_data initialization (Ildar Ismagilov) [PSBM-100294]
- ms/mm: Allocate shrinker_map on appropriate NUMA node (Kirill Tkhai)
- ms/netfilter: nf_tables: fix register ordering (Vasily Averin) [PSBM-101549]
- ms/netfilter: nft_rbtrees: ignore inactive matching element with no descendants (Pablo Neira Ayuso) [PSBM-101492]
- ms/netfilter: nft_rbtrees: introduce nft_rbtrees_interval_end() helper (Pablo Neira Ayuso) [PSBM-101492]
- lost css_put in hwpoison_filter_task() (Vasily Averin)
- mm/memcontrol.c: lost css_put in memcg_expand_shrinker_maps() (Vasily Averin)
- ploop: kaio: Close race between truncate thread and grow (Kirill Tkhai) [PSBM-101533]
- ploop: Move duplicated code to a helper (Kirill Tkhai)
- ploop: Flush data bios on merge before index update (Kirill Tkhai) [PSBM-101510]
- ploop: Sanity check that raw delta is not zero-length (Kirill Tkhai) [PSBM-100675]
- ploop: Add debug check on truncation to kaio_fsync_thread (Kirill Tkhai) [PSBM-101418]
- fuse: Add more debug info into fuse_direct_IO_bvec() (Kirill Tkhai) [PSBM-101418]
- ploop: Read 10 BAT clusters on holes_bitmap population (Kirill Tkhai) [PSBM-101246]
- ploop: Introduce .sync_read_many method (Kirill Tkhai) [PSBM-101246]
- ploop: Teach kaio_sync_io() work with many pages (Kirill Tkhai) [PSBM-101246]
- ploop: Teach dio_sync_io() work with many pages (Kirill Tkhai) [PSBM-101246]
- ploop: Disable holes on io_direct raw images (Kirill Tkhai) [PSBM-101189]
- mm: fix out-of-bounds memory accesses in process_vm_readv() (Evgenii Shatokhin) [PSBM-94695]
- ms/quota: fix potential infinite loop (zhangyi (F)) [PSBM-101043]
- ms/quota: Move locking into clear_dquot_dirty() (Jan Kara) [PSBM-101043]

- ms/quota: Do not dirty bad dquotes (Jan Kara) [PSBM-101043]
- ve/proc: Added separate start time field to task_struct to show in container (Valeriy Vdovin) [PSBM-64123]
- ploop: Fix huge grow of empty image (Kirill Tkhai) [PSBM-101143]
- memcg: access beyond end of shrinker_map (Vasily Averin) [PSBM-100509 PSBM-100694]
- ixgbe: don't check firmware errors (Konstantin Khorenko) [PSBM-100722]
- ms/ixgbe: fix possible deadlock in ixgbe_service_task() (Taehee Yoo) [PSBM-100722]
- ploop: Do not try to update index after REQ_DISCARD in raw format (Kirill Tkhai)
- ms/unix: Show number of pending scm files of receive queue in fdinfo (Kirill Tkhai)
- ms/net: Allow to show socket-specific information in /proc/[pid]/fdinfo/[fd] (Kirill Tkhai)
- ms/ext4: remove extent status procs files if journal load fails (Darrick J. Wong) [PSBM-83691]
- ext4: kill ext4_kv[mz]alloc() (Jan Dakinevich) [PSBM-83044]
- ext4: replace ext4_kv[mz]alloc() with kv[mz]alloc() (Oleg Babin) [PSBM-83044 PSBM-87413 PSBM-101798]
- ms/ext4: kill ext4_kvfree() (Al Viro) [PSBM-83044]
- ploop: Reread bat offsets and length before merge (Kirill Tkhai) [PSBM-100441]
- fuse: don't declare FUSE FIEMAP support for any FUSE fs (Konstantin Khorenko) [OVZ-7145]
- mm: fix hanging shrinker management on long do_shrink_slab (Pavel Tikhomirov) [PSBM-99181 VSTOR-30477]
- kvm/x86: extend info on emulation failure (Denis Plotnikov) [PSBM-99553]
- ms/SUNRPC: The TCP back channel mustn't disappear while requests are outstanding (Trond Myklebust) [PSBM-99764]
- ms/netfilter: x_tables: set module owner for icmp(6) matches (Florian Westphal) [PSBM-99593]
- net: export "net.netfilter.nf_conntrack_helper" sysctl for Container (Konstantin Khorenko) [PSBM-99791]
- ms/netfilter: nft_compat: fix crash when related match/target module is removed (Liping Zhang) [PSBM-99656]
- mm/ksm: Don't WARN if page is still mapped in remove_stable_node() (Andrey Ryabinin) [PSBM-99301]
- ve/kmod: make all nf_* and nft_* autoloadable upon request from a CT (Konstantin Khorenko) [PSBM-99536]
- config.OpenVZ.[debug.]minimal: update up to 3.10.0-1062.4.2.el7 (Konstantin Khorenko) [PSBM-99401]
- ve/kmod: enable autoload for nf_tables_inet module from inside a CT (Konstantin Khorenko) [PSBM-99406]

- ve/kmod: enable autoloader for iptables security tables from inside CT (Vasily Averin) [PSBM-98212]
- rh/dcache: work around buggy iso images (Vasily Averin) [PSBM-95941]
- fs/fuse kio: share bandwidth/IOPS for prometheus stats (Sergey Lysanov) [VSTOR-20601]
- ms/nbd: quiesce request queues to make sure no submissions are inflight (Sagi Grimberg) [PSBM-99114]
- ms/nbd: only clear the queue on device teardown (Josef Bacik) [PSBM-99114]
- nbd: move setting the bd_invalidated out of the loop (Andrey Ryabinin)
- nbd: move nbd_size_update() of of the loop. (Andrey Ryabinin)
- configs.minimal: enable CPU_IDLE_GOV_HALTPOLL/HALTPOLL_CPUIDLE (Konstantin Khorenko)
- fuse: don't perform getattr on each write (Vasily Averin) [PSBM-99138]
- nbd: invalidate bdev after size update (Andrey Ryabinin) [PSBM-99102]
- ms/nbd: use bd_set_size when updating disk size (Josef Bacik) [PSBM-99102]
- ms/nbd: update size when connected (Josef Bacik) [PSBM-99102]
- ms/nbd: fix nbd device deletion (Josef Bacik) [PSBM-99102]
- ms/nbd: don't set the device size until we're connected (Josef Bacik) [PSBM-99102]
- ms/nbd: fix use after free on module unload (Josef Bacik) [PSBM-99102]
- ms/nbd: add device refcounting (Josef Bacik) [PSBM-99102]
- ms/nbd: stop using the bdev everywhere (Josef Bacik) [PSBM-99102]
- sctp: suppress warnings on high order memory allocation on packet transmit (Konstantin Khorenko) [PSBM-99098]
- ve/kmod: allow "nft_compat" module autoloader from inside a Container (Konstantin Khorenko) [PSBM-98948]
- ms/nbd: fix how we set bd_invalidated (Josef Bacik) [PSBM-98887]
- ms/treewide: Add __GFP_NOWARN to k.alloc calls with v.alloc fallbacks (Joe Perches) [PSBM-99042]
- rdma/i40iw: use proper GFP flag for hiding high-order-allocation warning (Konstantin Khorenko) [VSTOR-27273]
- sctp: suppress warnings on high order memory allocation on sctp chunk creation (Konstantin Khorenko) [PSBM-93798]
- block/nbd: add WQ_UNBOUND to the knbd-recv workqueue (Dan Melnic)
- nbd: ignore non-nbd ioctls (Josef Bacik)
- nbd: take tx_lock before disconnecting (Josef Bacik)
- nbd: don't leak nbd_config (Ilya Dryomov)
- nbd: separate out the config information (Josef Bacik)

- nbd: handle single path failures gracefully (Josef Bacik)
- nbd: replace kill_bdev() with __invalidate_device() (Ratna Manoj Bolla)
- nbd: set queue timeout properly (Josef Bacik)
- nbd: set rq → errors to actual error code (Josef Bacik)
- nbd: put socket in error cases (Josef Bacik)
- nbd: handle ERESTARTSYS properly (Josef Bacik)
- ms/ext4: handle the rest of ext4_mb_load_buddy() ENOMEM errors (Konstantin Khlebnikov) [PSBM-98265]
- ms/ext4: use __GFP_NOFAIL in ext4_free_blocks() (Konstantin Khlebnikov) [PSBM-98265]
- ms/block: Fix list corruption of blk stats callback list (Jan Kara) [PSBM-99021]
- ms/block: fix leak of q → rq_wb (Omar Sandoval) [PSBM-99021]
- ms/cfq-iosched: don't call wbt_disable_default() with IRQs disabled (Jens Axboe) [PSBM-99021]
- ms/ext4: use jbd2_inode dirty range scoping (Ross Zwisler)
- ms/jbd2: introduce jbd2_inode dirty range scoping (Ross Zwisler)
- ms/mm: add filemap_fdatawait_range_keep_errors() (Ross Zwisler)
- ms/ext4: do not ask jbd2 to write data for delalloc buffers (Jan Kara)
- ms/jbd2: add support for avoiding data writes during transaction commits (Jan Kara)
- fs-writeback: add cond_resched() in wb_do_writeback() (Andrey Ryabinin) [PSBM-97743]
- ve: add a comment about possible pseudosuper race (Pavel Tikhomirov)
- blk-wbt: increase maximum queue depth to increase performance of writes (Pavel Tikhomirov) [PSBM-96243 PSBM-96243]
- block: enable CONFIG_BLK_WBT* (Pavel Tikhomirov) [PSBM-96243 PSBM-96243]
- ms/block: hook up writeback throttling (Jens Axboe) [PSBM-96243 PSBM-96243]
- ms/blk-wbt: add general throttling mechanism (Jens Axboe) [PSBM-96243 PSBM-96243]
- ms/block: get rid of struct blk_issue_stat (Omar Sandoval) [PSBM-96243 PSBM-96243]
- ms/writeback: track if we're sleeping on progress in balance_dirty_pages() (Jens Axboe) [PSBM-96243 PSBM-96243]
- ms/writeback: mark background writeback as such (Jens Axboe) [PSBM-96243 PSBM-96243]
- ms/writeback: add wbc_to_write_flags() (Jens Axboe) [PSBM-96243 PSBM-96243]
- ms/block: add REQ_BACKGROUND (Jens Axboe) [PSBM-96243 PSBM-96243]
- x86/asm: remove the unused get_limit() method (Pavel Tikhomirov) [PSBM-96243 PSBM-96243]
- ve/net/core: allow to call setsockopt(SO_SNDBUFFORCE) from Containers (Konstantin Khorenko) [PSBM-98794]
- fs/fuse kio: don't wait read requests in case of fsync/flush (Ildar Ismagilov) [VSTOR-11372]

- ve: use host ipt_mask for pseudosuper in setsockopt and request module (Pavel Tikhomirov) [PSBM-98702]
- ms/netfilter: nf_tables: avoid global info storage (Vasily Averin) [PSBM-98682]
- rdma/i40iw: hide high-order-allocation warning in i40iw_save_msix_info() (Vasily Averin) [VSTOR-27273]
- ve/exec: allow trusted exec change both on boot and on running system (Pavel Tikhomirov) [PSBM-98702 PSBM-98702]
- ve/fs/exec: send SIGSEGV to a process trying to execute untrusted files (Pavel Tikhomirov) [PSBM-98702]
- sysfs/ploop: add new device option trusted (Pavel Tikhomirov) [PSBM-98234]
- ve/fs/exec: don't allow a privileged user to execute untrusted files (Pavel Tikhomirov) [PSBM-98094]
- mm/slab: Fix deadlock on attempt to shrink slab. (Andrey Ryabinin)
- ve/kmod, nf_tables: allow nf_tables.ko autoloading on request from ve. (Andrey Ryabinin) [PSBM-98211]
- ploop: Kill noop complete_merge method (Kirill Tkhai)
- ploop: Assign holes_bitmap before merge on merge-no-return point (Kirill Tkhai) [PSBM-98313]
- ms/perf/x86/intel: make reusable LBR initialization code (Jan Dakinevich) [PSBM-75679 PSBM-75679 PSBM-94406 PSBM-100215]
- ms/x86/cpu: Sanitize FAM6_ATOM naming (Peter Zijlstra)
- ms/KVM: x86: set ctxt → have_exception in x86_decode_insn() (Jan Dakinevich) [PSBM-68018]
- ms/KVM: x86: always stop emulation on page fault (Jan Dakinevich) [PSBM-68018]
- ms/KVM: x86: inject exceptions produced by x86_decode_insn (Paolo Bonzini) [PSBM-68018]
- ve/cpu: handle sysfs attributes for CTs (Jan Dakinevich) [PSBM-91808]
- ms/pagemap: Port diff-ms-pagemap-do-not-leak-physical-addresses-to-non-privileged-userspace (Vladimir Davydov) [PSBM-32308 PSBM-33640 PSBM-97881]
- nbd: don't allow invalid blocksize settings (Jens Axboe)
- nbd: stop leaking sockets (Josef Bacik)
- nbd: cleanup workqueue on error properly (Josef Bacik)
- nbd: set the logical and physical blocksize properly (Josef Bacik)
- nbd: cleanup ioctl handling (Josef Bacik)
- nbd: use an idr to keep track of nbd devices (Josef Bacik)
- nbd: use our own workqueue for recv threads (Josef Bacik)
- nbd: move request validity checking into nbd_send_cmd (Christoph Hellwig)
- nbd: remove REQ_TYPE_DRV_PRIV leftovers (Christoph Hellwig)

- nbd: only set MSG_MORE when we have more to send (Josef Bacik)
- nbd: blk_mq_init_queue returns an error code on failure, not NULL (Jeff Moyer)
- nbd: s/<asm/uaccess.h>/<linux/uaccess.h> (Andrey Ryabinin)
- nbd: use dev_err_ratelimited in io path (Josef Bacik)
- nbd: reset the setup task for NBD_CLEAR_SOCK (Josef Bacik)
- nbd: fix 64-bit division (Jens Axboe)
- nbd: use loff_t for blocksize and nbd_set_size args (Josef Bacik)
- nbd: fix setting of 'error' in NBD_DO_IT ioctl (Jens Axboe)
- nbd: add multi-connection support (Josef Bacik)
- nbd: fix use-after-free of rq/bio in the xmit path (Jens Axboe)
- nbd: use BLK_MQ_F_BLOCKING (Josef Bacik)
- nbd: allow block mq to deal with timeouts (Josef Bacik)
- nbd: use flags instead of bool (Josef Bacik)
- nbd: don't shutdown sock with irq's disabled (Josef Bacik)
- nbd: convert to blkmq (Josef Bacik)
- nbd: fix race in ioctl (Vegard Nossum)
- nbd: pass the nbd pointer for flags debugfs (Josef Bacik)
- drivers: use req op accessor (Mike Christie)
- nbd: use correct div_s64 helper (Arnd Bergmann)
- nbd: Create size change events for userspace (Markus Pargmann)
- nbd: ratelimit error msgs after socket close (Dan Streetman)
- nbd: Move flag parsing to a function (Markus Pargmann)
- nbd: Cleanup reset of nbd and bdev after a disconnect (Markus Pargmann)
- nbd: Timeouts are not user requested disconnects (Markus Pargmann)
- nbd: Remove signal usage (Markus Pargmann)
- nbd: Fix debugfs error handling (Markus Pargmann)
- nbd: use → compat_ioctl() (Al Viro)
- signal: turn dequeue_signal_lock() into kernel_dequeue_signal() (Oleg Nesterov)
- nbd: Add locking for tasks (Markus Pargmann)
- nbd: flags is a u32 variable (Markus Pargmann)
- nbd: Rename functions for clearness of recv/send path (Markus Pargmann)
- nbd: Change 'disconnect' to be boolean (Markus Pargmann)
- nbd: Add debugfs entries (Markus Pargmann)
- nbd: Remove variable 'pid' (Markus Pargmann)

- nbd: Move clear queue debug message (Markus Pargmann)
- nbd: Remove 'harderror' and propagate error properly (Markus Pargmann)
- nbd: restructure sock_shutdown (Markus Pargmann)
- nbd: sock_shutdown, remove conditional lock (Markus Pargmann)
- nbd: Fix timeout detection (Markus Pargmann)
- block: have drivers use blk_queue_max_discard_sectors() (Jens Axboe)
- nbd: stop using req → cmd (Christoph Hellwig)
- nbd: Return error pointer directly (Markus Pargmann)
- nbd: Return error code directly (Markus Pargmann)
- nbd: Remove fixme that was already fixed (Markus Pargmann)
- nbd: Restructure debugging prints (Markus Pargmann)
- nbd: Fix device bytesize type (Markus Pargmann)
- nbd: Replace kthread_create with kthread_run (Markus Pargmann)
- nbd: Remove kernel internal header (Markus Pargmann)
- nbd: fix possible memory leak (Sudip Mukherjee)
- nbd: zero from and len fields in NBD_CMD_DISCONNECT. (Hani Benhabiles)
- switch nbd to sockfd_lookup/sockfd_put (Al Viro)
- nbd: remove bogus BUG_ON in NBD_CLEAR_QUE (Michal Belczyk)
- ms/fs/writeback: fix lazytime dirty inode writeback (Andrey Ryabinin)
- ve/modules: Add ts_kmp to allowed modules (Kirill Tkhai) [PSBM-97729]
- ms/libata: Fix ATA request sense (Damien Le Moal) [VSTOR-26930 VSTOR-26930]
- ms/libata: fixup ZAC device disabling (Hannes Reinecke) [VSTOR-26930 VSTOR-26930]
- ms/libata: Implement support for sense data reporting (Hannes Reinecke) [VSTOR-26930 VSTOR-26930]
- ms/libata: Implement NCQ autosense (Hannes Reinecke) [VSTOR-26930 VSTOR-26930]
- ms/libata-scsi: Update SATL for ZAC drives (Hannes Reinecke) [VSTOR-26930 VSTOR-26930]
- ms/libata: Implement ATA_DEV_ZAC (Hannes Reinecke) [VSTOR-26930 VSTOR-26930]
- sunrpc: fix crash when cache_head become valid before update (Pavel Tikhomirov) [PSBM-97738]
- ms/prctl: propagate has_child_subreaper flag to every descendant (Pavel Tikhomirov) [PSBM-96263]
- ms/prctl: introduce the walk_process_tree() helper (Oleg Nesterov) [PSBM-96263]
- ploop: remove module param ploop_major as it can break everything (Pavel Tikhomirov)
- fuse: Wait inflight requests only in case of close_wait (Kirill Tkhai) [PSBM-98031]
- ploop: Fallback to maintainece_mode in ploop v1 format (Kirill Tkhai) [PSBM-97319]

- vhost: suppress high-order-allocation warning for vhost_log (Vasiliy Averin) [PSBM-97775]
- kvm: use kvzalloc for struct kvm allocation (Vasiliy Averin) [PSBM-97483]
- fuse: locking fixup in fuse_open_common() (Vasiliy Averin)
- fuse: optimize writepages search (Maxim Patlasov) [PSBM-59254]
- fuse: remove WARN_ON from fuse_write_file_get() (Vasiliy Averin) [PSBM-97311]
- fuse: fix →end() vs →waitq ordering (Vasiliy Averin) [PSBM-80680 PSBM-97298]
- ms/ext4: cleanup clean_bdev_aliases() calls (zhangyi (F)) [PSBM-96719 PSBM-96719]
- ms/jbd2: discard dirty data when forgetting an un-journalled buffer (zhangyi (F)) [PSBM-96719 PSBM-96719]
- fs/fuse kio: add a sanity check on statistic inc (Konstantin Khorenko) [PSBM-96128]
- ploop: Add comment about ploop_pvd_header::m_FirstBlockOffset (Kirill Tkhai)
- mm/memcg: close potential race of kmem uncharge and reparent. (Andrey Ryabinin) [PSBM-97012]
- mm/memcg: fix race with WARN_ON() check and kmem uncharging. (Andrey Ryabinin) [PSBM-97012]
- mm/memcontrol: warn if memcg reparenting failed to succeed in 20 min (Andrey Ryabinin) [PSBM-96003 VSTOR-24241 PSBM-96533 PSBM-96889 VSTOR-25631 PSBM-94117]
- configs: Enable doublefault exception handler (Konstantin Khorenko)
- ploop: Check that nobody writes to ZERO_PAGE() (Kirill Tkhai) [PSBM-97043]
- fs/nfs: more leaks for busy inodes case. (Andrey Ryabinin)
- fs/super: don't destroy super_block in case of leaked inodes (Andrey Ryabinin) [PSBM-95177]
- ms/x86/build/64: Force the linker to use 2MB page size (H.J. Lu)
- ms/x86: Extend #DF debugging aid to 64-bit (Borislav Petkov)
- ms/mm: vmscan: check if mem cgroup is disabled or not before calling memcg slab shrinker (Yang Shi)
- mm/memcg: reclaim memory.cache.limit_in_bytes from background (Andrey Ryabinin) [VSTOR-24395 PSBM-94761]
- mm/memcontrol: fix memory.high (Andrey Ryabinin)
- fallocation: Unexport FALLOC_FL_CONVERT_UNWRITTEN (Kirill Tkhai)
- ploop: Remove useless variable (Kirill Tkhai)
- ploop: Add comment about S_SWAPFILE (Kirill Tkhai)
- ploop: Kill __dio_io_page() (Kirill Tkhai)
- ploop: Extract extent-related logic from dio_io_page() (Kirill Tkhai)
- ploop: Extract extent-related logic from dio_sync_io() (Kirill Tkhai)
- ploop: Kill unused sync vec functions (Kirill Tkhai)
- ploop: Use BIO_EMPTY_LIST for cleanup (Kirill Tkhai)

- fs/fuse kio: set NULL to stat → kio_stat in failure case (Pavel Butsykin)
- fs/fuse kio: fix fuse_mutex leak in pcs_fuse_stat_fini() (Pavel Butsykin)
- ms/fs/dcache: Fix incorrect nr_dentry_unused accounting in shrink_dcache_sb() (Waiman Long)
- ms/fs/dcache.c: fix spin lockup issue on nlru → lock (Sahitya Tummala)
- ms/lock_parent() needs to recheck if dentry got __dentry_kill'ed under it (Al Viro)
- ms/root dentries need RCU-delayed freeing (Al Viro)
- ploop: Do not split discard bio in kaio (Kirill Tkhai) [PSBM-95772 PSBM-95948]
- vziolimit: fix race by putting throttle.speed check under ub_lock (Pavel Tikhomirov) [PSBM-95815]
- i40iw: use kvzalloc for large allocation of iwdev → mem_resources (Andrey Ryabinin) [VSTOR-23649]
- scsi: aacraid: resurrect correct arc ctrl checks for Series-6 (Konstantin Khorenko) [PSBM-95736]
- fs/fuse kio: reset write_iter for canceled msg (Pavel Butsykin) [VSTOR-21044]
- fs/fuse kio: drop maps on file close (Pavel Butsykin) [VSTOR-24004 PSBM-96165 PSBM-96165]
- ploop: Also decrement active_reqs before bio_endio() in ploop_complete_request() (Kirill Tkhai) [PSBM-95750]
- ploop: Decrement active_reqs before bio_endio() (Kirill Tkhai) [PSBM-95654]
- kvm/x86: add log printing on emulation failure (Denis Plotnikov) [PSBM-95474 PSBM-68018]
- config.OpenVZ: RHEL77 rebase: disable new options which depend on EXPERT (Vasiliy Averin)
- config.OpenVZ.minimal: update up to 3.10.0-1062.el7 (Vasiliy Averin) [PSBM-97159]
- configs: disable FUSE_KIO_NOOP and _NULLIO in debug.minimal config (Vasiliy Averin)
- config.OpenVZ.minimal: add support for e1000[e] and r8169 network cards (Konstantin Khorenko)
- config.OpenVZ.debug: disable CONFIG_AMD_MEM_ENCRYPT (Konstantin Khorenko) [PSBM-93777]
- config.OpenVZ.minimal: enable R8169, PATA_ATIIXP, X86_AMD_PLATFORM_DEVICE, NET_DEVLINK (Konstantin Khorenko) [PSBM-93812]
- configs: disable cpu partial slab support (Konstantin Khorenko) [PSBM-83199]
- config.OpenVZ.debug.minimal: update up to 3.10.0-957.el7 (Konstantin Khorenko) [PSBM-89580]
- configs.OpenVZ: add minimal debug kernel config (Konstantin Khorenko)
- config.OpenVZ.minimal: update up to 3.10.0-957.el7 (Konstantin Khorenko) [PSBM-89580]
- net/netfilter/xt_wdog_tmo.c: author email updated (Konstantin Khorenko) [PSBM-94979]
- net/ipv4/udp_diag.c: author email updated (Konstantin Khorenko) [PSBM-94979]

- tools/testing/selftests/memfd/memfd_test.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- tools/testing/selftests/memfd/fuse_test.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- tools/testing/selftests/memfd/fuse_mnt.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- tools/testing/selftests/memfd/Makefile: copyright update (Konstantin Khorenko) [PSBM-94979]
- net/netfilter/xt_wdog_tmo.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- net/ipv6/netfilter/ip6_vzprivnet.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- net/ipv4/udp_memcontrol.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- net/ipv4/netfilter/ip_vzprivnet.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- mm/tswap.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- mm/tcache.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- mm/page_idle.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- mm/oom_group.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- mm/iov-iter.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- lib/kmapset.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- kernel/ve/vzwdog.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- kernel/ve/vzstat_core.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- kernel/ve/vzstat.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- kernel/ve/vznetstat/vznetstat.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- kernel/ve/vznetstat/ip_vznetstat.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- kernel/ve/vznetstat/ip6_vznetstat.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- kernel/ve/vznetstat/Makefile: copyright update (Konstantin Khorenko) [PSBM-94979]
- kernel/ve/vzlist.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- kernel/ve/vziolimit.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- kernel/ve/vzevent.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- kernel/ve/vzdev.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- kernel/ve/veowner.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- kernel/ve/vecalls.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- kernel/ve/ve.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- kernel/ve/hooks.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- kernel/ve/dummy/pio_nfs.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- kernel/ve/dummy/ip_vzprivnet.c: copyright update (Konstantin Khorenko) [PSBM-94979]

- kernel/ve/dummy/ip6_vzprivnet.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- kernel/ve/dummy/Makefile: copyright update (Konstantin Khorenko) [PSBM-94979]
- kernel/ve/Makefile: copyright update (Konstantin Khorenko) [PSBM-94979]
- kernel/fence-watchdog.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- kernel/bc/vm_pages.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- kernel/bc/sys.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- kernel/bc/statd.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- kernel/bc/proc.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- kernel/bc/misc.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- kernel/bc/io_prio.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- kernel/bc/io_acct.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- kernel/bc/beancounter.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- kernel/bc/Makefile: copyright update (Konstantin Khorenko) [PSBM-94979]
- kernel/bc/Kconfig: copyright update (Konstantin Khorenko) [PSBM-94979]
- kernel/Kconfig.openvz: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/uapi/linux/vzlist.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/uapi/linux/vziptable_defs.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/uapi/linux/vzctl_veth.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/uapi/linux/vzctl_venet.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/uapi/linux/vzctl_netstat.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/uapi/linux/vzcalluser.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/uapi/linux/venet-netlink.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/uapi/linux/beancounter.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/uapi/linux/bc/statd.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/net/udp_memcontrol.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/linux/vzstat.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/linux/vzprivnet.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/linux/vznetstat.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/linux/vziptable_defs.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/linux/vziolimit.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/linux/vzevent.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/linux/vzctl.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/linux/virtinfo.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/linux/venet.h: copyright update (Konstantin Khorenko) [PSBM-94979]

- include/linux/veip.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/linux/ve_proto.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/linux/ve.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/linux/ploop/ploop_stat.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/linux/ploop/ploop_if.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/linux/ploop/ploop.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/linux/ploop/compat.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/linux/pfcache.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/linux/kmapset.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/linux/fence-watchdog.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/bc/vmpages.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/bc/task.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/bc/proc.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/bc/misc.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/bc/io_acct.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/bc/decl.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- include/bc/beancounter.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- fs/ext4/pfcache.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- drivers/scsi/scsi_dbg.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- drivers/net/venetdev.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- drivers/net/veip_mgmt.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- drivers/block/ploop/tracker.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- drivers/block/ploop/sysfs.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- drivers/block/ploop/push_backup.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- drivers/block/ploop/push_backup.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- drivers/block/ploop/ploop_events.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- drivers/block/ploop/ploop_events.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- drivers/block/ploop/ploop1_image.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- drivers/block/ploop/map.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- drivers/block/ploop/io_kaio_map.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- drivers/block/ploop/io_kaio.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- drivers/block/ploop/io_direct_map.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- drivers/block/ploop/io_direct_map.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- drivers/block/ploop/io_direct_events.h: copyright update (Konstantin Khorenko) [PSBM-

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- drivers/block/ploop/io_direct.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- drivers/block/ploop/io.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- drivers/block/ploop/freeblks.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- drivers/block/ploop/freeblks.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- drivers/block/ploop/fmt_raw.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- drivers/block/ploop/fmt_ploop1.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- drivers/block/ploop/events.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- drivers/block/ploop/discard.h: copyright update (Konstantin Khorenko) [PSBM-94979]
- drivers/block/ploop/discard.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- drivers/block/ploop/dev.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- drivers/block/ploop/Makefile: copyright update (Konstantin Khorenko) [PSBM-94979]
- block/blk-cbt.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- arch/x86/kernel/cpuid_fault.c: copyright update (Konstantin Khorenko) [PSBM-94979]
- ploop: Add sanity check on stop (Kirill Tkhai) [PSBM-95247 PSBM-95347]
- ploop: Ignore clusters above holes_bitmap (Kirill Tkhai)
- ploop: Introduce set- and clear- holes_bitmap wrappers (Kirill Tkhai) [PSBM-95509]
- ploop: Do not warn when BAT is wider than disk size (Kirill Tkhai) [PSBM-95293]
- fs/fuse kio: skip iostat count for unknown req types (Pavel Butsykin) [VSTOR-23620]
- fs/fuse kio: fix stack overrun in request_end() (Pavel Butsykin)
- fs/fuse kio: fix inode leak in pcs_fuse_submit() (Pavel Butsykin)
- fs/fuse kio: cosmetic changes in pcs_fuse_prep_rw() (Pavel Butsykin) [VSTOR-23781 VSTOR-23781]
- fs/fuse kio: implement cs_stats statistics info (Pavel Butsykin) [VSTOR-20979]
- fs/fuse kio: convert rpc state id to string (Pavel Butsykin) [VSTOR-20979]
- fs/fuse kio: implement cs statistics accounting (Pavel Butsykin) [VSTOR-20979]
- fs/fuse kio: remove useless pcs_cs initialization (Pavel Butsykin) [VSTOR-20979]
- fs/fuse kio: implement fstat_lat statistics info (Pavel Butsykin) [VSTOR-20979]
- fs/fuse kio: implement fstat statistics info (Pavel Butsykin) [VSTOR-20979]
- fs/fuse kio: implement requests statistics info (Pavel Butsykin) [VSTOR-20979]
- fs/fuse kio: implement pcs_strerror() (Pavel Butsykin) [VSTOR-20979]
- fs/fuse kio: add retry counter for kio requests (Pavel Butsykin) [VSTOR-20979]
- fs/fuse kio: make interface pcs_kio_req_list() for listing kio reqs (Pavel Butsykin) [VSTOR-20979]

- fs/fuse kio: make interface pcs_kio_file_list() for listing kio files (Pavel Butsykin) [VSTOR-20979]
- fs/fuse kio: implement iostat statistics info (Pavel Butsykin) [VSTOR-20979]
- fs/fuse kio: create sysfs stat directory (Pavel Butsykin) [VSTOR-20979]
- fs/fuse: add conn_ctl to fuse_conn struct (Pavel Butsykin) [VSTOR-20979]
- fs/fuse: fix locked kio request send (Pavel Butsykin)
- fs/fuse kio: simplify processing and sending kio requests (Pavel Butsykin)
- fs/fuse kio: make req_classify callback (Pavel Butsykin)
- fs/fuse kio: fix latency time count (Pavel Butsykin)
- ploop: Add lockout on discard requests (Kirill Tkhai)
- ploop: Fix maintainece_type obtaining design problem (Kirill Tkhai) [PSBM-94727]
- fs/fuse kio: keep fuse_file for requests waiting for shrink (Pavel Butsykin) [VSTOR-23034]
- fs/fuse kio: style fix in pcs_fuse_submit() (Pavel Butsykin) [VSTOR-23034]
- fs/fuse kio: add pending kio requests to kqueue (Pavel Butsykin) [VSTOR-23034]
- fs/fuse kio: forward fuse_file pointer to kpcs_req_send() (Pavel Butsykin) [VSTOR-23034]
- ploop: Show whether device supports native discard (Kirill Tkhai) [PSBM-94662]
- ploop: Return maintainece mode ioctls again (Kirill Tkhai) [PSBM-94662]
- ploop: Check for top_delta in ploop_congested() (Kirill Tkhai) [PSBM-94270]
- fuse: Check for req → ff in fuse_request_queue_background() (Kirill Tkhai)
- fuse: do not take fc → lock in fuse_request_send_background() - fixup (Kirill Tkhai)
- ploop: Enable native discard support for kaio engine (Kirill Tkhai) [PSBM-94662]
- fs/fuse kio: add warning about jumbo chunks (Pavel Butsykin) [VSTOR-20372]
- fs/fuse kio: sync pcs_mds_sys_info struct (Pavel Butsykin)
- fs/fuse kio: export io_locality (Pavel Butsykin) [VSTOR-11050]
- fs/fuse kio: add missed sock write in pcs_sock_sendmsg() (Pavel Butsykin) [VSTOR-11050]
- fs/fuse kio: relax congestion avoidance limits (backport from usermode) (Pavel Butsykin) [VSTOR-11050]
- fs/fuse kio: fix a typo in worth_to_grow() (Pavel Butsykin) [VSTOR-11050]
- fs/fuse kio: export fastpath protocol version (Pavel Butsykin) [PSBM-93637]
- fs/fuse kio: fix getting a non-existent pcs inode in kpcs_kill_requests() (Pavel Butsykin)
- fs/fuse kio: fix double free of pfc in process_pcs_init_reply() (Pavel Butsykin) [VSTOR-20922]
- ploop: kaio: Enter standby mode on EIO as well (Kirill Tkhai)
- ploop: Clear abort bit on replace delta (Kirill Tkhai) [VSTOR-22414]
- ploop: Repopulate holes_bitmap on changing delta (Kirill Tkhai)

- ploop: Make PLOOP_IOC_FREEBLKS always return 0 (Kirill Tkhai)
- ploop: Add native discard support parameter (Kirill Tkhai) [PSBM-93731]
- ploop: Fix huge grow with head clusters relocation (Kirill Tkhai) [PSBM-93243]
- ploop: Populate and maintain holes bitmap (Kirill Tkhai) [PSBM-92367 VSTOR-19972]
- ploop: Fallocate cluster in cached_submit() during hole reuse (Kirill Tkhai) [PSBM-92367 VSTOR-19972 PSBM-93873]
- ploop: Zero indexes on discard (Kirill Tkhai) [PSBM-92367 VSTOR-19972]
- ploop: Add .complete_merge method (Kirill Tkhai) [PSBM-92367 VSTOR-19972]
- ploop: Introduce data_off_in_clusters() helper (Kirill Tkhai) [PSBM-92367 VSTOR-19972]
- ploop: Prohibit PLOOP_IOC_UPDATE_INDEX on singular list (Kirill Tkhai) [PSBM-92367 VSTOR-19972]
- ploop: Prohibit discard ioctls (Kirill Tkhai) [PSBM-92367 VSTOR-19972]
- ploop: Introduce ploop_submit_alloc() helper (Kirill Tkhai) [PSBM-92367 VSTOR-19972]
- ploop: Make submit_alloc() return int value (Kirill Tkhai) [PSBM-92367 VSTOR-19972]
- ploop: Export map defines to separate header file (Kirill Tkhai) [PSBM-92367 VSTOR-19972]
- ploop: Fix race between .prepare_merge and .submit_alloc (Kirill Tkhai)
- ploop: Merge repeating prepare_merge patterns in single function (Kirill Tkhai)
- ploop: Do not forget to put io context (Kirill Tkhai)
- ploop: Prohibit discard in case of multi-delta case (Kirill Tkhai) [PSBM-92785]
- ploop: Prohibit custom discard alignment and granularity (Kirill Tkhai)
- ploop: Skip repeated discard (Kirill Tkhai) [PSBM-92656]
- ploop: Enable discard support for ploop1 format backed by io_direct (Kirill Tkhai)
- ploop: Online discard support for dio engine (Kirill Tkhai) [VSTOR-19972]
- ploop: Introduce ploop_can_issue_discard() helper (Kirill Tkhai) [VSTOR-19972]
- ploop: Set up discard limits (Kirill Tkhai) [VSTOR-19972]
- ploop: Never merge discard requests (Kirill Tkhai) [VSTOR-19972]
- ploop: Introduce local variable in ploop_start() (Kirill Tkhai) [VSTOR-19972]
- ploop: Add trim_extent_mappings_tail() helper (Kirill Tkhai) [VSTOR-19972]
- ploop: Add cluster_log local variable (Kirill Tkhai) [VSTOR-19972]
- ploop: Add local variable into dio_submit() (Kirill Tkhai) [VSTOR-19972]
- ploop: Add cluster_size_in_sec() helper (Kirill Tkhai) [VSTOR-19972]
- ploop: Add cluster_size_in_bytes() helper (Kirill Tkhai) [VSTOR-19972]
- ploop: Export whole_block() (Kirill Tkhai) [VSTOR-19972]
- ploop: introduce dio_may_fallocate() helper (Kirill Tkhai) [VSTOR-19972]

- DMA-API: exceeded 7 overlapping mappings of cacheline share (Michael S. Tsirkin) [PSBM-93919]
- memcg: optimize the "Search everything else" loop in mm_update_next_owner() (Oleg Nesterov) [VSTOR-23975]
- memcg: mm_update_next_owner() should skip kthreads (Oleg Nesterov) [VSTOR-23975]
- ms/Documentation: add watermark_scale_factor to the list of vm systcl file (Jerome Marchand) [PSBM-94102]
- mm: extend generic iov iterator API (Dmitry Monakhov) [PSBM-80680]
- ms/mm: scale kswapd watermarks in proportion to memory (Johannes Weiner) [PSBM-94102]
- mm/workingset: Fix workingset_activation() with disabled mem cgroups. (Konstantin Khorenko) [VSTOR-23299]
- mm/workingset: Fix memcg_inc_ws_activate() with disabled mem cgroups. (Andrey Ryabinin)
- mm/workingset: fix workingset_activation() with memcgroups enabled (Andrey Ryabinin)
- mm/workingset: fix possible race with memcg deletion. (Andrey Ryabinin)
- mm, memcg, oom_guarantee: change memcg oom overdraft formula (Andrey Ryabinin) [VSTOR-22575]
- ms/mm/slub.c: run free_partial() outside of the kmem_cache_node → list_lock (Chris Wilson) [PSBM-93885]
- kernfs: keep kernfs node alive for __kernfs_remove() (Konstantin Khorenko) [PSBM-93611]
- net: Allow autoloading contrack nft-helper-* modules (Kirill Tkhai) [PSBM-90319]
- prctl: Fix false positive in validate_prctl_map (Kirill Gorkunov) [PSBM-93526]
- ms/net: use skb_clone to avoid alloc_pages failure. (Martin Zhang) [PSBM-93713]
- ms/tcp: fix potential huge kmalloc() calls in TCP_REPAIR (Eric Dumazet) [PSBM-93672]
- net/skuff: WARN if kmalloc_reserve() fails to allocate memory. (Andrey Ryabinin) [VSTOR-21390]
- net/skbuff: Don't waste memory reserves (Andrey Ryabinin) [VSTOR-21390]
- RDMA/ocrdma: Remove unused STAG array. (Andrey Ryabinin) [VSTOR-21732]
- mm/vmscan: don't shrink active list once more in case we reached nr_to_reclaim (Andrey Ryabinin) [PSBM-92480]
- mm/vmscan: scan active file and anon lists if inactive file list is too short (Andrey Ryabinin) [PSBM-92480]
- mm/page_alloc: fix allocation failure of zone-restricted allocation (Andrey Ryabinin) [PSBM-92274]
- net: silence high-order allocation warning from UDP with big headers. (Andrey Ryabinin) [PSBM-94717]
- tty/vt: avoid high order pages allocation on GIO_UNIMAP ioctl (Konstantin Khorenko)

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- mm/slub: Don't compact memory for high-order optimistic allocation. (Andrey Ryabinin) [VSTOR-20830]
- mm/swap: activate swapped in pages on fault (Andrey Ryabinin) [VSTOR-20859]
- mm/vmscan: active lru protection fixups. (Andrey Ryabinin) [VSTOR-20859]
- ms/mm: workingset: make shadow node shrinker memcg aware (Vladimir Davydov) [VSTOR-19037]
- ms/mm: workingset: per-cgroup cache thrash detection (Johannes Weiner) [VSTOR-19037 PSBM-92480]
- mm/memcg: initialize mem_cgroup_per_zone_info earlier. (Andrey Ryabinin) [PSBM-91933 PSBM-91933]
- ms/mm: workingset: eviction buckets for bigmem/lowbit machines (Johannes Weiner) [VSTOR-19037]
- ms/mm: workingset: separate shadow unpacking and refault calculation (Johannes Weiner) [VSTOR-19037 PSBM-91933]
- ms/mm: workingset: #define radix entry eviction mask (Johannes Weiner) [VSTOR-19037]
- ms/mm: vmscan: pass memcg to get_scan_count() (Vladimir Davydov) [VSTOR-19037]
- i40iw: Use kvzalloc in i40iw_allocate_virt_mem() (Andrey Ryabinin) [VSTOR-20675]
- i40iw: Use kvzalloc to allocate i40iw_handler (Andrey Ryabinin) [VSTOR-20675]
- i40iw: use kvzalloc to allocate array of control qp requests (Andrey Ryabinin) [VSTOR-20675]
- x86: Add __GFP_ORDER_NOWARN to dma allocations (Andrey Ryabinin) [VSTOR-20675]
- ploop: Remove unused argument of __map_extent() (Kirill Tkhai)
- mm/page_alloc: use sched_clock() instead of jiffies to measure latency (Andrey Ryabinin) [VSTOR-19040]
- mm/vmscan: Don't shrink active lrus on the first try. (Andrey Ryabinin) [VSTOR-19037]
- pfcache: don't get inodes which are being freed (Konstantin Khorenko) [PSBM-91819]
- ploop: Kill unneeded PLOOP_S_WAIT_PROCESS bit (Kirill Tkhai)
- ploop: Remove dead "pcss"-related code (Kirill Tkhai)
- ploop: Remove unused argument get_block (Kirill Tkhai)
- x86/pci-dma: don't warn about high order in dma_alloc (Andrey Ryabinin) [VSTOR-20383 VSTOR-20349]
- ms/virtio_balloon: fix another race between migration and ballooning (Jiang Biao) [PSBM-91532]
- ploop compact: remove alloc_head BUG_ON before truncate call (Vasily Averin) [PSBM-90794 PSBM-90794]
- net: export net/core/somaxconn sysctl for unprivileged users (Jan Dakinevich) [PSBM-91032]
- fs/fuse: fix unsafe killing fiq → pending requests (Pavel Butsykin)

- fs/fuse kio: add FUSE_S_FAIL_IMMEDIATELY check in pcs_fuse_submit() (Pavel Butsykin)
- ploop: Fix discard BIOs mis accounting (Kirill Tkhai)
- fs/fuse kio: invalidate files for kio (Pavel Butsykin) [VSTOR-19620]
- fs: Export symbols replace_fd() and create_pipe_files() (Sergey Lysanov) [VSTOR-10187]
- ms/ipvs: remove an annoying printk in netns init (Kirill Tkhai)
- pfcache: silently drop "trusted.pfcache" xattr when set on inappropriate fs (Konstantin Khorenko) [PSBM-90740]
- ms/sunrpc: use SVC_NET() in svcauth_gss_* functions (Vasily Averin) [PSBM-89609]
- seccomp: Add PT_SUSPEND_SECCOMP in __secure_computing (Kirill Gorkunov) [PSBM-90760 PSBM-90547]
- net/ip6ip: Consider VE_FEATURE_IPIP on new net creation (Kirill Gorkunov) [PSBM-84241]
- net/gre: Consider VE_FEATURE_IPGRE on new net creation (Kirill Gorkunov) [PSBM-84241]
- ms/mm/slub: set slub_max_order = 0 by default. (Andrey Ryabinin) [PSBM-83199]
- ms/slub: Make cpu partial slab support configurable (Joonsoo Kim) [PSBM-83199]
- ms/mm: workingset: update shadow limit to reflect bigger active list (Johannes Weiner)
- ms/mm: workingset: size shadow nodes lru basing on file cache size (Vladimir Davydov) [PSBM-83199]
- ms/mm: select HAVE_MOVE_PMD on x86 for faster mremap (Joel Fernandes (Google))
- ms/mm: speed up mremap by 20x on large regions (Joel Fernandes (Google))
- ms/huge pagecache: extend mremap pmd rmap lockout to files (Hugh Dickins)
- fs/fuse kio: make it possible to enable TRACE/DTRACE in the release kernel (Pavel Butsykin) [VSTOR-18383]
- fs/fuse kio: disable duplication FUSE_K* messages to debugfs by default (Pavel Butsykin) [VSTOR-18383]
- fs/fuse kio: bring fuse ktraces to a common view (Pavel Butsykin) [VSTOR-18383]
- fs/fuse kio: deny unavailable ioctl's in kio (Pavel Butsykin)
- fs/fuse kio: add support PCS_CS_IO_SYNC flag (Pavel Butsykin) [VSTOR-19396]
- fs/fuse kio: backport immediate-write attribute handle (Pavel Butsykin) [VSTOR-19396]
- fs/fuse kio: satisfy pure FALLOC_FL_KEEP_SIZE immediately (Pavel Butsykin) [VSTOR-19317]
- fs/fuse kio: fix mapping dereference in a dead map (Pavel Butsykin) [VSTOR-19267]
- ms/drivers/gpu/vga: allocate vga_arb_write() buffer on stack (Dmitry Vyukov) [PSBM-90315]
- fuse: do not wait for completion of inessential writes in fuse fsync (Alexey Kuznetsov) [VSTOR-17311 VSTOR-17311]
- fs/fuse kio: missed cleanup for interrupted shrink request (Pavel Butsykin) [VSTOR-19074]
- mm/page_alloc: add latency to the page_alloc tracepoint (Andrey Ryabinin)
- fs/fuse kio: missed clean di → size.op in failed shrink request (Pavel Butsykin) [VSTOR-18947]

- tcache/tswap: don't shrink tcache/tswap until they are initialized (Konstantin Khorenko) [VSTOR-18694]
- mm/memcg: Fix NULL-ptr dereference when memcg disabled at boot. (Andrey Ryabinin) [VSTOR-18694]
- fs/fuse kio: retry allocation PCS_IREQ_FLUSH request (Pavel Butsykin) [VSTOR-18475]
- fs/fuse kio: fix sreq and msg leak in prepare_map_flush_ireq() (Pavel Butsykin) [VSTOR-18475]
- fs/fuse kio: fix loss of FUSE_FSYNC/FUSE_FLUSH reqs (Pavel Butsykin) [VSTOR-18475]
- ms/sock_diag: fix autoloading of the raw_diag module (Andrei Vagin)
- sunrpc: cache_head leak due queued request (Vasily Averin) [PSBM-80869]
- nfsd: disable UMH client tracking in nested net namespaces (Vasily Averin) [PSBM-90024]
- ms/ksm: replace jhash2 with xxhash (Timofey Titovets) [PSBM-90044]
- ms/xxHash: create arch dependent 32/64-bit xxhash() (Timofey Titovets) [PSBM-90044]
- ms/lib: Add xxhash module (Nick Terrell) [PSBM-90044]
- fuse kio: never ignore fuse_req error during PCS_IOC_GETMAP (Anton Nefedov)
- fuse kio: fix timer setup so it actually delays ireq (Anton Nefedov)
- fuse kio: Round down extent start in fiemap_process_one() (Alexey Kuznetsov) [VSTOR-15535]
- ploop: move to standby after -ENOTCONN too (Anton Nefedov) [VSTOR-17613]
- ploop: move to standby mode after fsync() error too (Anton Nefedov) [VSTOR-17613]
- ploop: move standby mode setting to separate function (Anton Nefedov) [VSTOR-17613]
- fs/fuse kio_pcs: replenish netaddr_cmp() with rdma type (Pavel Butsykin) [VSTOR-17784]
- fbcon: use kvmalloc() for scrollbar buffer (Konstantin Khorenko) [VSTOR-17781]
- ms/dlm: fix possible call to kfree() for non-initialized pointer (Denis V. Lunev) [VSTOR-17522]
- vzstat: account "page_in" and "swap_in" in nanoseconds (Konstantin Khorenko) [VSTOR-16659]
- fs/fuse kio_pcs: fix update cs state after receiving new map (Pavel Butsykin) [VSTOR-17413]
- ploop: convert preallocated_size to absolute offset (Pavel Tikhomirov) [PSBM-89565]
- fs/fuse kio_pcs: invalidation maps in setattr kio (Pavel Butsykin) [VSTOR-16863]
- fs/fuse kio_pcs: cleanup kpcs_setattr_end() (Pavel Butsykin) [VSTOR-16863]
- fs/fuse kio_pcs: make pcs_map_truncate() easier (Pavel Butsykin) [VSTOR-16863]
- mm: cleancache: fix corruption on missed inode invalidation (Pavel Tikhomirov) [PSBM-89050]
- fs/fuse: add assert on i_mutex in fuse_send_write() (Pavel Butsykin) [VSTOR-16876]
- fs/fuse kio_pcs: add assert on i_mutex for PUNCH_HOLE and ZERO_RANGE (Pavel Butsykin) [VSTOR-16876]

- fs/fuse: add assert on i_mutex in fuse_send_unmap() (Pavel Butsykin) [VSTOR-16876]
- ploop kaio: successfull alloc should adjust alloc_head (Vasily Averin) [VSTOR-15471]
- ploop: fix negative discard size in preprocess_discard_req() (Pavel Butsykin)
- ploop: change default of discard granularity and alignment attrs to PAGE_SIZE (Pavel Butsykin)
- ploop: add separate tree for existing discard requests (Denis V. Lunev) [VSTOR-16344]
- ploop: create helper to access ploop_device → entry_tree (Denis V. Lunev) [VSTOR-16344]
- ms/vmscan: memcg: always use swappiness of the reclaimed memcg (Michal Hocko) [PSBM-89726]
- fs/fuse kio_pcs: cleanup in truncate (backport) (Alexey Kuznetsov)
- fs/fuse kio_pcs: NULL pointer dereference in map_submit() → MAP_ARGS() (Pavel Butsykin) [PSBM-89539]
- fs/fuse kio_pcs: NULL pointer dereference on access m → mapping → chunk_size_bits (Pavel Butsykin) [PSBM-89539]
- fs/fuse kio_pcs: fix map leaks in process_ireq_truncate() (Pavel Butsykin) [PSBM-89539]
- fs/fuse kio_pcs: simplify pcs_mapping_truncate() (Pavel Butsykin) [PSBM-89539]
- fs/fuse kio_pcs: fix map leak in pcs_mapping_truncate() (Pavel Butsykin) [PSBM-89539]
- fs/fuse kio_pcs: protect valid_for_truncate() by m → lock's (Pavel Butsykin) [PSBM-89539]
- fs/fuse kio_pcs: fix condition for map resolving in pcs_mapping_truncate() (Pavel Butsykin) [PSBM-89539]
- fs/fuse kio_pcs: forgotten setting of the next phase (Pavel Butsykin) [PSBM-89539]
- fs/fuse kio_pcs: make map_truncate_tail() working as the original from libpcs_client (Pavel Butsykin) [PSBM-89539]
- fuse: Switch unused engines off in Kconfig (Kirill Tkhai) [VSTOR-16325]
- fuse: Prohibit kio engine from containers (Kirill Tkhai) [VSTOR-16325]
- fuse: Fix parse_fuse_opt() return values wrong interpretation (Kirill Tkhai)
- ms/x86/unwind: Disable KASAN checks for non-current tasks (Josh Poimboeuf) [PSBM-149932]
- ms/kprobes: Unpoison stack in jprobe_return() for KASAN (Dmitry Vyukov) [VSTOR-16798]
- ms/kasan: add functions to clear stack poison (Mark Rutland) [VSTOR-16798]
- ms/kprobes: Avoid false KASAN reports during stack copy (Dmitry Vyukov) [VSTOR-16798]
- lib/kmapset: fix undefined behavior in kmapset_cmp() (Pavel Butsykin)
- ms/ksm: React on changing "sleep_millisecs" parameter faster (Kirill Tkhai)
- kexec, kasan: increase KEXEC_AUTO_RESERVED_SIZE under CONFIG_KASAN=y up to 1G (Konstantin Khorenko)
- memcg/debug: warn early when releasing memcg css with non-zero kmem (Konstantin

Khorenko) [PSBM-89892]

- ploop: fix int overflow when calculating used_pos (Pavel Tikhomirov) [PSBM-89565]
- fuse kio: Unexport pcs_ioconn_close() and pcs_ioconn_unregister() (Kirill Tkhai)
- fs/fuse kio_pcs: fix NULL pointer dereference in pcs_mapping_truncate() (Pavel Butsykin)
- ms/ipc/shm: fix use-after-free of shm file via remap_file_pages() (Eric Biggers) [VSTOR-15440]
- mm/vmscan: shrink tcache, tswap upfront everything else (Andrey Ryabinin) [PSBM-89403]
- mm/tcache: rebalance tree if isolation failed (Andrey Ryabinin) [PSBM-89403]
- mm/tcache: don't insert empty reclaim node (Andrey Ryabinin) [PSBM-89403]
- fuse kio: Fix deadlock at pcs_fuse_submit() error path (Kirill Tkhai) [VSTOR-16246]
- fs/fuse kio_pcs: flush rpc work inside pcs_rpc_destroy() (Pavel Butsykin) [VSTOR-16236]
- fuse kio: Move abort & destroy block up in pcs_rpc_send() (Kirill Tkhai) [VSTOR-16236]
- fuse kio: Check for null ep in pcs_rpc_deaccount_msg() (Kirill Tkhai) [VSTOR-16236]
- fuse kio: Stop self-abuse of rpc counter in rpc_queue_work() (Kirill Tkhai) [VSTOR-16236]
- x86,ia32: Restore 32bit personality (Cyrill Gorcunov) [PSBM-76965]
- fs/fuse kio_pcs: drop old mapping after size growth (Pavel Butsykin)
- ms/mm, mempolicy: migrate_to_node should only migrate to node (David Rientjes) [PSBM-89512]
- fuse kio: Hold pcs_rpc counter till sio may be freed (Kirill Tkhai) [VSTOR-15305]
- fuse kio: Fix rpc socket leak on rpc_abort() (Kirill Tkhai) [VSTOR-15305]
- fuse kio: Dereference sk_user_data under rcu (Kirill Tkhai) [VSTOR-15305]
- fuse kio: Introduce pcs_sk_kick_queue() (Kirill Tkhai) [VSTOR-15305]
- fuse kio: Destroy rpc in work func (Kirill Tkhai) [VSTOR-15305]
- fuse kio: Add pcs_cleanup_wq (Kirill Tkhai) [VSTOR-15305]
- fuse kio: Reorder callback assignment (Kirill Tkhai) [VSTOR-15305]
- fuse kio: Use sio eof instead of parent to determ abort (Kirill Tkhai) [VSTOR-15305]
- fuse kio: Use __maybe_unused (Kirill Tkhai) [VSTOR-15305]
- fuse kio: Port "ignore uninitialized CS addresses" commit (Kirill Tkhai) [VSTOR-3415 VSTOR-3415 VSTOR-16083]
- fuse kio: Refactoring in struct pcs_rpc (Kirill Tkhai)
- fuse kio: Differ fuse_pcs_kdirect_claim_op() return values (Kirill Tkhai)
- fuse kio: Do not try to populate fuse_inode::private on second open (Kirill Tkhai)
- ms/x86/asm/64: Clear AC on NMI entries (Andy Lutomirski)
- ms/x86/asm/traps: Disable tracing and kprobes in fixup_bad_iret and sync_regs (Andy Lutomirski)
- ms/x86_64, traps: Rework bad_iret (Andy Lutomirski) [PSBM-89221]

- fuse kio: Fix spelling in process_pcs_init_reply() (Kirill Tkhai)
- fuse kio: Return possibility to handle files served in userspace (Kirill Tkhai) [VSTOR-15947]
- fuse kio: Fix deadlock in kpcs_req_send() (Kirill Tkhai) [VSTOR-15924]
- fs/fuse kio_pcs: fix double free of synchronous requests (Pavel Butsykin)
- fs/fuse kio_pcs: prevention of falling kio reqs to usermode (Pavel Butsykin) [VSTOR-15447]
- fs/fuse kio_pcs: split kpcs_req_send() (Pavel Butsykin) [VSTOR-15447]
- fs/fuse: initialize req → io_inode in fuse_send_unmap() (Pavel Butsykin) [VSTOR-15447]
- fs/fuse: fix mutually exclusive flags in fuse_send_unmap() (Pavel Butsykin) [VSTOR-15447]
- fuse kio: Add debug printk into process_pcs_init_reply() (Kirill Tkhai)
- fuse kio: Protect struct pcs_rpc_engine::{unhashed, ht, nrpcs} (Kirill Tkhai) [VSTOR-15727]
- fuse kio: Fallback to plain fuse in case of version mismatch (Kirill Tkhai)
- fuse kio: Reorder process_pcs_init_reply() and free memory on failure (Kirill Tkhai)
- fuse kio: Introduce cached_op (Kirill Tkhai)
- fuse kio: Refactoring in fuse_show_options() (Kirill Tkhai)
- fuse kio: Revert fuse_request_free() changes (Kirill Tkhai)
- fuse kio: Do not get useless fuse.ko module reference (Kirill Tkhai)
- fuse kio: Add schedule_timeout() into pcs_rpc_fini_verify() (Kirill Tkhai)
- fuse kio: initialize batch in pcs_map shrinker (Konstantin Khorenko) [VSTOR-15801]
- x86/mm/kaiser: Fix build with CONFIG_XEN=n (Andrey Ryabinin)
- fs/fuse kio_pcs: drop rpc connection close in pcs_rpc_engine_fini() (Pavel Butsykin) [VSTOR-15378]
- fs/fuse kio_pcs: remove fuse destroy request (Pavel Butsykin) [VSTOR-15378]
- fs/fuse kio_pcs: fix race between req → end() and request_wait_answer() (Pavel Butsykin) [VSTOR-15378]
- mm: Fix int overflow in callers of do_shrink_slab() (Kirill Tkhai)
- md/bcache: add queue parameter to part_round_stats() call (Konstantin Khorenko) [PSBM-89580]
- mm/init: hide most of start_kernel() from KAsan (Konstantin Khorenko) [PSBM-89047]
- net: reorganize skb_gso_size_check() description to make htmldocs happy (Konstantin Khorenko)
- ms/kasan: depend on CONFIG_SLUB_DEBUG (Jason A. Donenfeld)
- ms/slab, slub: skip unnecessary kasan_cache_shutdown() (Shakeel Butt) [PSBM-89434]
- mm/slab: use monotonic serial number for naming per memcg caches (Konstantin Khorenko) [PSBM-89047]
- ms: Add braces to avoid "ambiguous 'else'" compiler warnings (Linus Torvalds)

- ms/mm/slub: fix slab double-free in case of duplicate sysfs filename (Konstantin Khlebnikov) [PSBM-89047]
- ms/slub: fix leak of 'name' in sysfs_slab_add (Dave Jones) [PSBM-89047]
- ms/slub: Fix possible format string bug. (Tetsuo Handa) [PSBM-89047]
- IB/core: use kvzalloc to allocate ib_device (Jan Dakinevich)
- fs/fuse kio_pcs: time slice for rpc rebinding (Pavel Butsykin) [VSTOR-14031]
- fs/fuse kio_pcs: improve rpc to cpu binding (Pavel Butsykin) [VSTOR-14031]
- pfcache: don't inherit vm_private_data on split and copy (Pavel Tikhomirov) [PSBM-88809]
- fuse kio: Do not zero already zeroed fields in pcs_sockio_init (Kirill Tkhai)
- mm/vmstat: Add more vmstats in containers /proc/vmstat (Andrey Ryabinin) [PSBM-88323]
- mm/vmstat, io_acct: fix PGPIN/PGPGOUT in container's /proc/vmstat. (Andrey Ryabinin) [PSBM-88323]
- ms/unix: add ioctl to open a unix socket file with O_PATH (Andrey Vagin) [PSBM-88786]
- fuse kio: Do not zero already zeroed fields in pcs_find_get_map() (Kirill Tkhai)
- ploop: kthread_create() errors processing (Vasily Averin) [PSBM-88561]
- x86/kvm/vmx: suppress warning on high-order allocation (Jan Dakinevich)
- mm/mempool: Use kvmalloc to allocate array of element pointers (Andrey Ryabinin) [VSTOR-14758]
- ms/mm: kvmalloc does not fallback to vmalloc for incompatible gfp flags (Michal Hocko) [VSTOR-14758]
- /proc/vz/latency: Show max latency in 2 min instead of 5sec. (Andrey Ryabinin)
- fuse kio: Async queueing of fiemap from work (Kirill Tkhai)
- fuse kio: Introduce fiemap_work (Kirill Tkhai)
- fuse kio: Move filter ireq iocount assignment (Kirill Tkhai)
- fuse kio: Move position advance in fiemap_process_one() (Kirill Tkhai)
- fuse kio: Kill fiemap_worker() thread (Kirill Tkhai)
- fuse kio: Move it variable from stack to struct fiemap_iterator (Kirill Tkhai)
- fuse kio: Extract fiemap iteration from fiemap_worker() to separate function (Kirill Tkhai)
- fuse kio: Cleanup in pcs_fuse_submit() (Kirill Tkhai)
- ms/mm/vmscan.c: clear shrinker bit if there are no objects related to memcg (Kirill Tkhai) [PSBM-88027 PSBM-88027]
- ms/mm: add SHRINK_EMPTY shrinker methods return value (Kirill Tkhai) [PSBM-88027]
- ms/mm/vmscan.c: generalize shrink_slab() calls in shrink_node() (Vladimir Davydov) [PSBM-88027]
- ms/mm/vmscan.c: iterate only over charged shrinkers during memcg shrink_slab() (Kirill Tkhai) [PSBM-88027]

- ms/mm/memcontrol.c: export mem_cgroup_is_root() (Kirill Tkhai) [PSBM-88027]
- ms/mm/list_lru.c: set bit in memcg shrinker bitmap on first list_lru item appearance (Kirill Tkhai) [PSBM-88027]
- ms/mm/list_lru.c: pass lru argument to memcg_drain_list_lru_node() (Kirill Tkhai) [PSBM-88027]
- ms/mm/list_lru: pass dst_memcg argument to memcg_drain_list_lru_node() (Kirill Tkhai) [PSBM-88027]
- ms/mm/list_lru.c: add memcg argument to list_lru_from_kmem() (Kirill Tkhai) [PSBM-88027]
- ms/fs: propagate shrinker::id to list_lru (Kirill Tkhai) [PSBM-88027]
- ms/mm, memcg: assign memcg-aware shrinkers bitmap to memcg (Kirill Tkhai) [PSBM-88027]
- ms/mm/memcontrol.c: move up for_each_mem_cgroup{, _tree} defines (Kirill Tkhai) [PSBM-88027]
- ms/mm: assign id to every memcg-aware shrinker (Kirill Tkhai) [PSBM-88027]
- /proc/<pid>/vz_latency: Add scheduling stats (Andrey Ryabinin) [PSBM-87797]
- /proc/<pid>/vz_latency: Show maximal allocation latency in the last second. (Andrey Ryabinin) [PSBM-87797 PSBM-93675]
- /proc/vz/latency: distinguish atomic allocations in irq from in task atomics. (Andrey Ryabinin) [PSBM-87797]
- vz_latency: don't account allocations in interrupts to random tasks (Andrey Ryabinin) [PSBM-87797]
- ploop: avoid crash if ploop request has uninitialized preq_ub (Pavel Tikhomirov) [PSBM-88112]
- ms/sget(): handle failures of register_shrinker() (Al Viro)
- fs/fuse kio_pcs: disable TRACE/DTRACE for release kernel (Pavel Butsykin)
- block: store exec_ub on struct request and use it (Konstantin Khorenko) [PSBM-86910]
- ploop: store exec_ub in ploop request and use it while processing requests (Konstantin Khorenko) [PSBM-86910 PSBM-88112]
- config.OpenVZ.minimal: add some hardware drivers support (Konstantin Khorenko)
- fs/fuse kio_pcs: missed *msg_size setting in rpc_get_hdr() (Pavel Butsykin) [VSTOR-13602]
- rh/fs/dcache.c: Revert "fs/dcache.c: add cond_resched() in shrink_dentry_list()" (Konstantin Khorenko) [PSBM-87864]
- ms/rpc_pipefs: fix double-dput() (Al Viro) [PSBM-73001]
- bc: implement ubc "numproc" limit based on pids cgroup (Konstantin Khorenko) [PSBM-86044 PSBM-86044 PSBM-87662]
- fuse/kio: Add socket io fault injection (Kirill Tkhai)
- fuse kio: Allocate pcs_map from kmem_cache with SLAB_RECLAIM_ACCOUNT flag (Kirill Tkhai) [PSBM-87665]

- fuse kio: Move map_chunk_start() and map_chunk_end() checks (Kirill Tkhai) [PSBM-87665]
- mm/memcg: don't swap cgroup's pages during offline (Andrey Ryabinin) [PSBM-87281]
- fs/fuse kio_pcs: fix NULL pointer dereference in pcs_flushreq_complete() (Pavel Butsykin) [VSTOR-12570]
- fs/fuse kio_pcs: style fix in pcs_fuse_submit() (Pavel Butsykin)
- fuse kio: kio must not fail when not being able to claim a file (Alexey Kuznetsov) [PSBM-86866]
- fs/fuse kio_pcs: throttle async KIO requests (Pavel Butsykin) [VSTOR-12335]
- fs/fuse: add non-blocking request flag (Pavel Butsykin) [VSTOR-12335]
- x86/microcode/intel: hide warning on high order allocation for microcode area (Konstantin Khorenko) [PSBM-86662]
- proc/cpu/cgroup: make boottime in CT reveal the real start time (Pavel Tikhomirov) [PSBM-94263]
- ve/cgroup: do not link a CT cpu cgroup twice into ve_root_list (Konstantin Khorenko) [PSBM-88251]
- kernel/sched: Use kvzalloc to allocate the array of ctl_tables (Andrey Ryabinin)
- sched: fix cfs_rq::nr_iowait accounting (Jan Dakinevich) [PSBM-93850]
- sched: Call calc_load_ve() out of jiffies_lock (Kirill Tkhai) [PSBM-84967 PSBM-84967 PSBM-102573]
- sched: Export calc_load_ve() (Kirill Tkhai) [PSBM-84967]
- sched: Make calc_global_load() return true when it's need to update ve statistic (Kirill Tkhai) [PSBM-84967]
- cgroup: fix css_tryget() to not succeed on offlined css (Andrey Ryabinin) [PSBM-75892]
- fuse kio: control internal tracing with module parameter pcs_loglevel (Alexey Kuznetsov)
- fuse kio: avoid spurious uncork setsockopt on unix socket (Alexey Kuznetsov)
- fuse kio: logging improvements (Alexey Kuznetsov)
- mnt_ns: introduce global list of mount namespaces for debug (Konstantin Khorenko) [PSBM-80869]
- mm/memcg: Bypass charges to offlined cgroup (Andrey Ryabinin) [PSBM-86092]
- fuse kio: Make struct fuse_inode::num_openers int (Kirill Tkhai)
- rcuupdate.h: Switch to READ_ONCE and fix NULL-deref in __task_pid_nr_ns() again (Andrey Ryabinin)
- fs/fuse kio_pcs: fix NULL pointer dereference inside a dead map (Pavel Butsykin)
- fuse kio: Fix NULL pointer dereference in pcs_map_get_locked() (Kirill Tkhai) [PSBM-86458]
- fuse: Relax BUG_ON() in fuse_direct_IO_bvec() (Kirill Tkhai) [PSBM-86446]
- fs/fuse kio_pcs: bugs in integrity protocol for fallocation (Pavel Butsykin) [PSBM-68465]

- fuse kio: missing local client ID initialization (Alexey Kuznetsov) [VSTOR-11651]
- IPoIB: use kvzalloc to allocate an array of bucket pointers (Jan Dakinevich)
- fuse kio: Read file attributes every first open (Maxim Patlasov) [PSBM-86234]
- fuse: Refactor fuse_open_common() (Kirill Tkhai)
- fuse kio: Make KIO to require writeback_cache (Kirill Tkhai)
- ms/proc: do not access cmdline nor environ from file-backed areas (Willy Tarreau) [PSBM-86221]
- ms/lockd: fix "list_add double add" caused by legacy signal interface (Vasily Averin) [PSBM-86390]
- fs/fuse kio_pcs: fix grow work execution with zero (Pavel Butsykin) [PSBM-85945]
- mm/tswap: fix lockup in tswap_evict_page() (Andrey Ryabinin) [PSBM-86344]
- fuse kio: error PCS_ERR_CSD_LACKING is non-fatal (Alexey Kuznetsov) [VSTOR-11692]
- ms/x86/efi-bgrt: Replace early_memremap() with memremap() (Matt Fleming) [PSBM-85888]
- fuse: Teach fuse_blocked_for_wb() handle no files case (Kirill Tkhai)
- fs/fuse kio_pcs: replace pr_info() with ktrace for ireq fatal error (Pavel Butsykin) [VSTOR-11391]
- fs/fuse kio_pcs: enable traces for cs sync (Pavel Butsykin) [VSTOR-11651]
- fuse kio: Check returned FUSE_SETATTR size (Kirill Tkhai)
- fs/fuse kio_pcs: increment PCS_FAST_PATH_VERSION to 1.1 (Pavel Butsykin)
- fs/fuse kio_pcs: add handling FUSE_FLUSH in kio_pcs (Pavel Butsykin) [VSTOR-11064]
- fs/fuse: set inode entry for FUSE_FLUSH request (Pavel Butsykin) [VSTOR-11064]
- mm/memory: Don't charged cowed private pages as cache (Andrey Ryabinin)
- uprobes: Fix the memcg accounting (Oleg Nesterov)
- fs/fuse kio_pcs: fix missing hbuf.uid update for ireq split case (Pavel Butsykin) [VSTOR-11315]
- fs/fuse kio_pcs: handle old map in pcs_cs_submit() (Pavel Butsykin) [VSTOR-11315]
- fuse kio: support unix socket for local CSes (Alexey Kuznetsov) [VSTOR-9817]
- fs/fuse kio_pcs: mapped requests have map version preinitialized (Pavel Butsykin)
- fuse kio: Skip processing of messages above PAGE_SIZE size (Kirill Tkhai) [VSTOR-11208 VSTOR-11208]
- fuse kio: Get msg size in second argument of pcs_sockio::get_msg() (Kirill Tkhai) [VSTOR-11208 VSTOR-11208]
- fs/fuse kio_pcs: add more traces for cs requests (Pavel Butsykin)
- fuse kio: Fix unbalanced queueing and dequeuing pcs_map_entry::sync_work (Kirill Tkhai)
- fuse kio: Add missed spin_lock into sync_timer_work() (Kirill Tkhai)
- fuse kio: Add comment to fuse_release() (Kirill Tkhai)

- fuse kio: Place more pcs_cs_link::cs under rcu dereference (Kirill Tkhai)
- fuse kio: Wait pending requests on final fput() (Kirill Tkhai)
- ms/mm: have filemap_check_and_advance_wb_err clear AS_EIO/AS_ENOSPC (Vasily Averin) [VSTOR-10912]
- ms/fs: use mapping_set_error instead of opencoded set_bit (Vasily Averin) [VSTOR-10912]
- ms/errseq: Always report a writeback error once (Vasily Averin) [VSTOR-10912]
- ms/mm: remove optimizations based on i_size in mapping writeback waits (Vasily Averin) [VSTOR-10912]
- ms/fs: convert sync_file_range to use errseq_t based error-tracking (Vasily Averin) [VSTOR-10912]
- ms/mm: add file_fdatawait_range and file_write_and_wait (Vasily Averin) [VSTOR-10912]
- ms/mm: consolidate dax / non-dax checks for writeback (Vasily Averin) [VSTOR-10912]
- ms/Documentation: add some docs for errseq_t (Vasily Averin) [VSTOR-10912]
- ms/errseq: rename __errseq_set to errseq_set (Vasily Averin) [VSTOR-10912]
- fs/fuse: remove extra check for empty active_list (Pavel Butsykin)
- fs/fuse kio_pcs: fix NULL pointer dereference in cs_keep_waiting() (Pavel Butsykin)
- fuse kio: Do not NULL used pcs_cs_link::cs during connection destruction (Kirill Tkhai)
- fuse kio: Delete excess unlist in pcs_csset_fini() (Kirill Tkhai)
- fs/fuse kio_pcs: fix out of bounds roles_str[] array access (Pavel Butsykin)
- fs/fuse kio_pcs: fix double unlock of m → lock in pcs_map_get_locked() (Pavel Butsykin)
- fs/fuse kio_pcs: pass the file handle for FUSE_SETATTR request (Pavel Butsykin) [VSTOR-10635]
- fs/fuse: export fuse_release_ff() and fuse_write_file() (Pavel Butsykin) [VSTOR-10635]
- fs/fuse kio_pcs: handle error of submit_size_grow() (Pavel Butsykin) [VSTOR-10635]
- fs/fuse kio_pcs: move pcs_ireq_queue_fail() (Pavel Butsykin) [VSTOR-10635]
- fuse kio: infinite loop in processing congestion queue (Alexey Kuznetsov) [VSTOR-10928]
- fuse kio: Use dereferenced cs in cslist_destroy() (Kirill Tkhai)
- fs/fuse: disable optimization fuse and kio_pcs in debug kernel (Pavel Butsykin)
- fuse kio: Arrange rcu modifiers around accesses to pcs_cs_link::cs (Kirill Tkhai)
- fuse kio: Handle fuse_map_resolve() failure in pcs_map_queue_resolve() (Kirill Tkhai)
- fs/fuse kio_pcs: some cleanup ireq_on_error_() (Pavel Butsykin)
- fuse kio: Fix dereferencing of NULL cs in map_replicating() (Kirill Tkhai) [VSTOR-10820]
- fuse kio: Fix fix deadlock during change CS address (Kirill Tkhai)
- fuse kio: Change order around pcs_map_notify_addr_change() (Kirill Tkhai)
- fuse kio: Wait till cs is unused in pcs_csset_fini() (Kirill Tkhai)

- fuse kio: Introduce pcs_cs::use_count instead of ::is_probing (Kirill Tkhai)
- fuse kio: Fix possible use after free in cslist_destroy() (Kirill Tkhai)
- fuse kio: Fix potential use after free (Kirill Tkhai)
- fuse kio: Introduce pcs_cs_list_of_cs_link() (Kirill Tkhai)
- kernel/panic.c: don't dump_stack() in add_taint() (Andrey Ryabinin)
- fuse kio: Remove useless code in pcs_cs_destroy() (Kirill Tkhai)
- fuse kio: invalid assertion (Alexey Kuznetsov)
- fuse kio: cleanup in token enqueue (Alexey Kuznetsov)
- fuse kio: Introduce fast path protocol version, (Kirill Tkhai) [VSTOR-10131]
- fs/locks: add more info for unexpected lock (Pavel Tikhomirov)
- fs/fuse kio_pcs: remove s_subtype check (Pavel Butsykin)
- fuse kio: Cleanup in struct pcs_rpc (Kirill Tkhai)
- fuse kio: Declare pcs_sockio::parent type (Kirill Tkhai)
- fuse kio: Do not requeue requests when connection is dead (Kirill Tkhai) [VSTOR-10354]
- mm/tcache: fix rcu_read_lock()/rcu_read_unlock() imbalance (Andrey Ryabinin) [PSBM-81731]
- fuse kio_pcs: ports from new user-space (Alexey Kuznetsov)
- fs/fuse kio_pcs: check fuse_conn args (Pavel Butsykin)
- fs/fuse: move FUSE_SUPER_MAGIC to magic.h (Pavel Butsykin)
- kio: Stop always breaking connection in pcs_sockio_send() in case of EAGAIN. (Kirill Tkhai) [VSTOR-9848]
- fuse: Try automatically load kio module (Kirill Tkhai)
- nfsd: use kvzalloc() to allocate memory for drc_hashtbl (Oleg Babin) [PSBM-84234 PSBM-84234]
- ms/nfsd: more robust allocation failure handling in nfsd_reply_cache_init (Jeff Layton) [PSBM-84234 PSBM-84234]
- fuse/kio_pcs: use kvmalloc for pcs_fuse_cluster allocation (Oleg Babin)
- tty: use kvmalloc for screenbuffer allocation (Oleg Babin)
- ms/tty: limit terminal size to 4M chars (Dmitry Vyukov)
- ms/relay: Use per CPU constructs for the relay channel buffer pointers (Akash Goel)
- cpuid_fault: Log table updates (Cyrill Gorcunov) [PSBM-84029]
- blkcg: implement bio_associate_blkcg() (Tejun Heo)
- fuse: pcs_kio cancel requests after fused crash (Dmitry Monakhov)
- fuse/kio_pcs: read is broken by FIEMAP patch (Alexey Kuznetsov) [VSTOR-9727]
- mm/memcontrol: try to free all memcg during offline (Andrey Ryabinin) [PSBM-83628]

- mm/vmscan: shrink slabs from offlined cgroups (Andrey Ryabinin) [PSBM-83628]
- ms/sched/autogroup: Fix failure to set cpu.rt_runtime_us (Kirill Tkhai) [PSBM-83624]
- sched/rt: Stop for_each_process_thread() iterations in tg_has_rt_tasks() (Kirill Tkhai) [PSBM-83624]
- ms/fs: Don't leak MNT_INTERNAL away from internal mounts (Al Viro)
- ms/Revert "mm: page_alloc: skip over regions of invalid pfn where possible" (Daniel Vacek) [PSBM-83746]
- fuse/kio_pcs/pcs_map: fix process_flush_req lock leakage (Dmitry Monakhov) [VSTOR-8116]
- fuse/kio_pcs: FIEMAP support (Alexey Kuznetsov)
- fuse/kio_pcs: full fallocate() support (Alexey Kuznetsov)
- fuse/kio_pcs: fallocate support at low pcs protocol level (Alexey Kuznetsov)
- fuse/kio_pcs: adapt prometheus statistics to current vstorage state (Alexey Kuznetsov)
- fuse: support FS_IOC_FIEMAP in i386 compat mode (Alexey Kuznetsov) [PSBM-83731]
- fuse/kio_pcs: support FUSE_FSYNC (Alexey Kuznetsov)
- kernel/lockdep: allow lockdep_set_no_validate_class() (Andrey Ryabinin)
- net: Change number of netlink repair (Kirill Tkhai) [PSBM-83415]
- config.OpenVZ.minimal: enable conntrack netlink interface module (Konstantin Khorenko) [PSBM-85052]
- ms/btrfs: minimal conversion to errseq_t writeback error reporting on fsync (Vasily Averin)
- ms/xfs: minimal conversion to errseq_t writeback error reporting (Vasily Averin)
- ms/ext4: use errseq_t based error handling for reporting data writeback errors (Vasily Averin)
- ms/block: convert to errseq_t based writeback error tracking (Vasily Averin)
- ms/dax: set errors in mapping when writeback fails (Vasily Averin)
- ms/Documentation: flesh out the section in vfs.txt on storing and reporting writeback errors (Vasily Averin)
- ms/mm: set both AS_EIO/AS_ENOSPC and errseq_t in mapping_set_error (Vasily Averin)
- ms/fs: new infrastructure for writeback error handling and reporting (Vasily Averin)
- ms/lib: add errseq_t type and infrastructure for handling it (Vasily Averin)
- ms/mm: don't TestClearPageError in __filemap_fdatawait_range (Vasily Averin)
- ms/mm: clear AS_EIO/AS_ENOSPC when writeback initiation fails (Vasily Averin)
- ms/jbd2: don't clear and reset errors after waiting on writeback (Vasily Averin)
- ms/fs: check for writeback errors after syncing out buffers in generic_file_fsync (Vasily Averin)
- ms/mm: fix mapping_set_error call in me_pagecache_dirty (Vasily Averin) [VSTOR-10912]
- ms/x86/mm: Disable various instrumentations of mm/mem_encrypt.c and mm/tlb.c (Tom

Lendacky)

- ms/staging: rtl8712: fix some confusing indenting (Dan Carpenter)
- ms/tty: nozomi: avoid a harmless gcc warning (Arnd Bergmann)
- ms/memstick: mspro_block: add missing curly braces (Dan Carpenter)
- ms/net-sysfs: remove unused fmt_long_hex (Colin Ian King)
- ms/net/rtnetlink: remove dead code (Eric Engestrom)
- ms/rtnetlink: remove unused ifla_stats_policy (stephen hemminger)
- ms/ACPI / dock: Drop dock_device_ids[] table (Rafael J. Wysocki)
- cifs: drop unused mapping_table_ERRHRD (Konstantin Khorenko)
- venetdev: fix race between veip shutdown and add veip entry (Konstantin Khorenko) [PSBM-90395]
- venetdev: drop src_lh/dst_lh lists from veip_struct (Konstantin Khorenko) [PSBM-90395]
- ve/time/ntp: allow CT ntp adjustment time tuning under VE_FEATURE_TIME feature (Konstantin Khorenko) [PSBM-94635]
- ve/time: introduce CT feature to allow setting date/time (Konstantin Khorenko) [PSBM-94635]
- ve/capability: introduce capable() wrapper which honors CT features (Konstantin Khorenko) [PSBM-94635]
- ve: don't hide cgroup mount root from pseudosuper (Pavel Tikhomirov) [PSBM-86686]
- ve/netfilter/ipset: allow nfnetlink_queue module autoload (Konstantin Khorenko) [PSBM-92694]
- ve/net: allow to change max number of net devices for running CT (Konstantin Khorenko) [PSBM-92132]
- ve/net: warn in case a Container hits ve::netif_max_nr (Konstantin Khorenko) [PSBM-92132]
- ve: prohibit opening proc/self/exe from VE for VD_VE_ENTER_TASK (Pavel Tikhomirov) [PSBM-91689 PSBM-91042]
- ve/meminfo: show "MemAvailable: ..." line in CT's meminfo (Jan Dakinevich) [PSBM-90190]
- ve/sunrpc: prohibit mounting rpc_pipefs in CT without nfsd feature (Pavel Tikhomirov) [PSBM-87836]
- ve/net/neighbour: per-ct limit for neighbour entries (Vasily Averin) [PSBM-87155]
- ve/devmnt: initialize s_mode before deactivate_locked_super to suppress warning (Pavel Tikhomirov) [PSBM-80743]
- ve/mount: allow pseudosuper to temporary exceed the container limit (Pavel Tikhomirov) [PSBM-86511]
- ve/sunrpc: enable rpc_pipefs mounts inside non-init user namespaces (Vasily Averin) [PSBM-86395]
- ve/fs/namespace: allow submounts in non-init usersns (Konstantin Khorenko) [PSBM-86277]

- ve/fs: allow mount fs in init usersns if it's mounted in another usersns (Konstantin Khorenko) [PSBM-68599]
- ve/module: export sysfs_dentries in containers (Stanislav Kinsburskiy) [PSBM-63892]
- ve/sysfs: generic sysfs_set_def_perms() helper introduced (Stanislav Kinsburskiy)
- ve/sysfs: relax sanity check for ns equality in kernfs_find_ns() (Konstantin Khorenko) [PSBM-82259 PSBM-83607]
- ve/kernfs: export kernfs_perms_set() helper (Stanislav Kinsburskiy) [PSBM-83607]
- ve/sysfs: add dentries visibility filter (Stanislav Kinsburskiy) [PSBM-83607]
- ve/kernfs: add new interface to control per-VE nodes visibility (Stanislav Kinsburskiy) [PSBM-83607]
- ve/kernfs: hide forbidden entries in container (Stanislav Kinsburskiy) [PSBM-83607]
- ve/kernfs: fix lookup for kernfs superblock (Konstantin Khorenko) [PSBM-85052]
- ve/kernfs: implement ve-based permissions (Stanislav Kinsburskiy) [PSBM-20892 PSBM-34682 PSBM-83607]
- ms/ACPI / video: remove unused device_decode array (Colin Ian King)
- ms/Disable the __builtin_return_address() warning globally after all (Linus Torvalds)
- ms/arch/x86/kernel/ptrace.c: Remove unused arg_offs_table (chengang@emindsoft.com.cn)
- ms/x86/xen: fix upper bound of pmd loop in xen_cleanhighmap() (Juergen Gross)
- ms/objtool: Fix memory leak in decode_instructions() (Kamalesh Babulal)
- fasync: Fix deadlock between task-context and interrupt-context kill_fasync() (Kirill Tkhai) [PSBM-83102]
- ms/dccp: purge write queue in dccp_destroy_sock() (Eric Dumazet) [PSBM-83692]
- net/dccp: fix use after free in tw_timer_handler() (Andrey Ryabinin) [PSBM-80708]
- ms/dccp: Unlock sock before calling sk_free() (Arnaldo Carvalho de Melo) [PSBM-80708]
- ms/dccp: defer ccid_hc_tx_delete() at dismantle time (Eric Dumazet) [PSBM-80708]
- net/sctp: Replace in/out stream arrays with flex_array (Oleg Babin) [PSBM-82552]
- ms/ipv6: fix backtracking for throw routes (Steven Barth) [PSBM-81798]
- drivers/igb: increase link detection timeout up to 10 sec (Konstantin Khorenko) [PSBM-95074 VSTOR-14627]
- net/drivers/i40e: suppress warning on skb linearization (Jan Dakinevich) [VSTOR-22811]
- bonding: show full hw address in sysfs for slave entries (Konstantin Khorenko) [PSBM-93117]
- drivers/igb: increase link detection timeout up to 5 sec (Konstantin Khorenko) [VSTOR-14627]
- net/drivers/i40e: suppress high order allocation warning (Konstantin Khorenko) [VSTOR-18622]

- bnx2: use kvzalloc() to allocate certain internal data (Jan Dakinevich)
- bnx2x: suppress warnings on DMA memory allocation (Jan Dakinevich)
- cnic: use kvzalloc to allocate memory for csk_tbl (Jan Dakinevich) [PSBM-85534]
- ve: fix reading container state from cgroup (Pavel Tikhomirov) [PSBM-82766]
- x86/cpu: compilation fix for CONFIG_PAGE_TABLE_ISOLATION disabled case (Konstantin Khorenko)
- ve/kthread: fix race when work can be added to stopped kthread worker (Pavel Tikhomirov) [PSBM-82490]
- ve/kthread: pass ve to __call_usermodehelper_exec (Pavel Tikhomirov) [PSBM-82490]
- net/sock: teach sock_kmalloc() to call kvmalloc() when possible (Konstantin Khorenko) [PSBM-82593]
- mm: introduce kvmalloc_check() for safe calls to kvmalloc() (Konstantin Khorenko) [PSBM-82593]
- net/setsockopt: switch high order allocations to kvmalloc() in do_ip_setsockopt() (Konstantin Khorenko) [PSBM-82646]
- ms/x86/ACPI/PCI: Recognize that Interrupt Line 255 means "not connected" (Chen Fan) [PSBM-82172]
- config.OpenVZ.debug: disable kcov code coverage by default (Konstantin Khorenko) [PSBM-69083]
- mm/tcache: initialize 'repeat' variable only once (Andrey Ryabinin)
- mm/tcache: Reset index before repeating invalidation (Andrey Ryabinin) [PSBM-81760]
- mm/memcg: fix margin computation for kmem limit. (Andrey Ryabinin) [PSBM-81818]
- ploop: move discard_* attributes in the tune_attributes group (Andrei Vagin)
- ploop: add a standby mode (Andrei Vagin) [VSTOR-7879]
- fuse pcs_kio: fix page zeroing beond EOF (Dmitry Monakhov)
- fuse kio_pcs: ignore special inodes (Dmitry Monakhov) [VSTOR-8078]
- ploop: Discard bios of size not aligned at 512 bytes (Kirill Tkhai) [PSBM-81576]
- sched/ve: Use cfs_rq::h_nr_running to count loadavg (Kirill Tkhai) [PSBM-81572]
- sched/ve: Iterate only VE root cpu cgroups to count loadavg (Kirill Tkhai) [PSBM-81572]
- sched/ve: Do not show loadavg in child VE cpu cgroups (Kirill Tkhai) [PSBM-81572]
- sched/ve: Link VE root cpu cgroups in separate list (Kirill Tkhai) [PSBM-81572]
- ve/cgroup: Get correct VE init css when ve init_task is moved to child cgroup (Kirill Tkhai) [PSBM-81572 PSBM-81572]
- config.OpenVZ.minimal: disable CONFIG_X86_DECODER_SELFTEST (Dmitry Monakhov)
- fuse kio_pcs: implement logging and prometheus statistics collection v2 (Dmitry Monakhov) [PSBM-81741]

- ms/[media] drxk_hard: fix bad alignments (Mauro Carvalho Chehab)
- mm/memcg: fix overcharging in cgroup try_charge() for !cache_charge (Andrey Ryabinin) [PSBM-81750]
- mm/memcg: Don't charge anon pages as cache (Andrey Ryabinin) [PSBM-81750]
- ve/fs/proc: Make per-thread and per-process allocation latencies. (Andrey Ryabinin) [PSBM-81395]
- ve/kstat/alloc_lat: Initialize alloc_lat to zero at start (Andrey Ryabinin) [PSBM-81395]
- ve/tty: Provide interface for current tty inheritance (Cyrill Gorcunov) [PSBM-76490 PSBM-81687]
- config.OpenVZ: enable modules for in-kernel fast path for vStorage (Konstantin Khorenko) [PSBM-80680]
- fuse_kio_pcs: implement truncate (Dmitry Monakhov) [PSBM-80680]
- fio kio: PCS unblock writepath (Dmitry Monakhov) [PSBM-80680]
- fuse kio: Add pcs engine combo v0.8 (Dmitry Monakhov) [PSBM-80680]
- fuse kio: Add nullio engine (Dmitry Monakhov) [PSBM-80680]
- fuse kio: minimal noop engine skeleton (Dmitry Monakhov) [PSBM-80680]
- fuse: add kdirect io engine v0.1 (Dmitry Monakhov) [PSBM-80680]
- fuse: separate iqueue for clones (Maxim Patlasov)
- fuse: assert i_size boundaries for fuse_direct_IO_bvec (Dmitry Monakhov) [PSBM-80680]
- fuse: remove direct_IO_page (Dmitry Monakhov) [PSBM-80680 PSBM-97905]
- ploop: io_kaio remove direct_IO_page requirement (Dmitry Monakhov) [PSBM-80680]
- ploop: kaio_io_page switch to bvec iter (Dmitry Monakhov) [PSBM-80680]
- ploop: kaio_kreq_alloc specify nr_segs (Dmitry Monakhov) [PSBM-80680]
- ve/page_alloc, kstat: account allocation latencies per-task (Andrey Ryabinin) [PSBM-81395]
- ve/vzstat.h: move some kstat definitions into new header (Andrey Ryabinin) [PSBM-81395]
- ve/kstat/alloc_lat: Don't separate GFP_HIGHMEM and !GFP_HIGHMEM allocation latencies (Andrey Ryabinin) [PSBM-81395]
- ploop: give aligned regions into fuse fallocate() (Andrei Vagin)
- ploop: allow to set discard granularity and alignment attributes (Andrei Vagin)
- ploop: handle discard requests via fallocate (Andrei Vagin)
- fuse: add a new async operation to unmap regions (Andrei Vagin)
- ploop: don't forget to dec preq → io_count on a error path (Andrei Vagin)
- configs.OpenVZ: more options to disable (Konstantin Khorenko)
- ms/inotify: Extend ioctl to allow to request id of new watch descriptor (Kirill Tkhai) [PSBM-81411]
- ms/x86/kvm/vmx: do not use vm-exit instruction length for fast MMIO when running nested

(Vitaly Kuznetsov) [PSBM-81462]

- fs/pipe: Use kvmalloc for pipe buffers (Cyrill Gorcunov) [PSBM-69201]
- ms/net: don't wait for order-3 page allocation (Shaohua Li) [PSBM-81488]
- mm/memcontrol: Fix memcg swpin/swpout stats accounting (Andrey Ryabinin)
- configs.OpenVZ: add minimal kernel config for a KVM VM (Konstantin Khorenko) [PSBM-86445]
- mm: fix memory cgroup leak in case mem cgroup gets offline before kmem counter is 0 (Konstantin Khorenko) [PSBM-81264]
- ms/dm crypt: replace RCU read-side section with rwsem (Konstantin Khorenko)
- ms/mm/memcontrol.c: try harder to decrease [memory,memsw].limit_in_bytes (Andrey Ryabinin) [PSBM-80732]
- mm: try harder to decrease cache.limit_in_bytes (Andrey Ryabinin) [PSBM-80732]
- ms/memcg: refactor mem_cgroup_resize_limit() (Yu Zhao) [PSBM-80732]
- ms/mm: memcontrol: fix transparent huge page allocations under pressure (Johannes Weiner) [PSBM-80732]
- ms/mm: memcontrol: simplify detecting when the memory+swap limit is hit (Johannes Weiner) [PSBM-80732]
- mm/vmscan: call wait_iff_congested() only if we have troubles in recaliming (Andrey Ryabinin) [PSBM-61409]
- mm/vmscan: Use per-zone sum of reclaim_stat to change zone state. (Andrey Ryabinin) [PSBM-61409]
- mm/vmscan: collect reclaim stats across zone (Andrey Ryabinin) [PSBM-61409]
- ms/mm: throttle on IO only when there are too many dirty and writeback pages (Michal Hocko) [PSBM-61409]
- ms/mm, vmscan: enhance mm_vmscan_lru_shrink_inactive tracepoint (Michal Hocko) [PSBM-61409]
- ms/mm, vmscan: extract shrink_page_list reclaim counters into a struct (Michal Hocko) [PSBM-61409]
- ms/mm, vmscan: add active list aging tracepoint (Michal Hocko) [PSBM-61409]
- ms/mm: fix direct reclaim writeback regression (Hugh Dickins)
- ms/mm/compaction: avoid rescanning pageblocks in isolate_freepages (Vlastimil Babka)
- ms/mm/compaction: do not count migratepages when unnecessary (Vlastimil Babka)
- ms/mm, compaction: embed migration mode in compact_control (David Rientjes)
- ms/mm, compaction: add per-zone migration pfn cache for async compaction (David Rientjes)
- ms/mm, compaction: return failed migration target pages back to freelist (David Rientjes)
- ms/mm, migration: add destination page freeing callback (David Rientjes)

- ms/mm/compaction: clean up unused code lines (Heesub Shin) [PSBM-87699]
- ms/mm, compaction: ignore pageblock skip when manually invoking compaction (David Rientjes)
- ms/mm, compaction: determine isolation mode only once (David Rientjes)
- ms/mm/compaction: clean-up code on success of ballon isolation (Joonsoo Kim)
- ms/mm/compaction: check pageblock suitability once per pageblock (Joonsoo Kim)
- ms/mm/compaction: do not call suitable_migration_target() on every page (Joonsoo Kim)
- ms/mm/compaction: disallow high-order page for migration target (Joonsoo Kim)
- ms/mm: compaction: reset scanner positions immediately when they meet (Vlastimil Babka)
- ms/mm: compaction: do not mark unmovable pageblocks as skipped in async compaction (Vlastimil Babka)
- ms/mm: compaction: trace compaction begin and end (Mel Gorman)
- ms/kbuild: add -fno-PIE (Sebastian Andrzej Siewior)
- ms/scripts/has-stack-protector: add -fno-PIE (Sebastian Andrzej Siewior)
- fence-watchdog: print alive messages (Pavel Tikhomirov)
- tcache: Fix race between tcache_invalidate_node() and tcache_attach_page() (Kirill Tkhai)
- tcache: Refactor tcache_shrink_scan() (Kirill Tkhai)
- mm/tcache: invalidate existing page during cleancache_put_page() (Andrey Ryabinin) [PSBM-80712]
- ms/fs, mm: account filp cache to kmemcg (Shakeel Butt) [PSBM-80839]
- tty: Use RCU read lock to iterate tasks and threads in __do_SAK() (Kirill Tkhai) [PSBM-80340]
- tty: Avoid threads files iterations in __do_SAK() (Kirill Tkhai) [PSBM-80340]
- Revert "do_SAK: Don't recursively take the tasklist_lock" (Kirill Tkhai) [PSBM-80340]
- ve/net: partially return ms permission check for ethtool commands (Pavel Tikhomirov)
- ve/fs/files: Shrink big fdtable on close in is_pseudosuper mode (Kirill Tkhai) [PSBM-78827 PSBM-82984]
- ve/fs/files: Add fdtable_align() helper (Kirill Tkhai) [PSBM-78827]
- ve/fs/files: Add new argument to expand_files() (Kirill Tkhai) [PSBM-78827]
- ve/cgroup: hide ve and ub cgroups in CT (Pavel Tikhomirov) [PSBM-80421]
- mm: add *_GFP* flag to hide verified high order allocation warnings (Andrey Ryabinin) [VSTOR-20383 VSTOR-20349]
- mm: add warning about high order allocations (Andrey Ryabinin) [PSBM-79892 PSBM-82202]
- target: use to_stat_tgt_port() to handle files in scsi_tgt_port/ (Andrei Vagin) [VSTOR-13021]
- target: rename user_helper back to alua_user_helper (Andrei Vagin) [VSTOR-12238]
- target: move blkio_cgroup from attrib/ to param/ (Andrei Vagin) [VSTOR-10194]

- target: fix a locking scheme of persistent reservations (Andrei Vagin) [VSTOR-10675]
- target: allow to set a blkio cgroup for a backstore (Andrei Vagin)
- target: set ALUA_TG_PT_STANDBY if a backing store is in standby mode (Andrei Vagin) [VSTOR-7879]
- target: call alua helper before reporting group states to initiator (Andrei Vagin)
- target: move alua user helper from group to device (Andrei Vagin)
- target: pass a device name to an alua user helper (Andrei Vagin)
- target: add an user-mode helper to handle changes of a group state (Andrei Vagin)
- target: add read/write/sync latency counter (Andrey Grafin)
- target: add histogram for LUN statistics (Andrey Grafin)
- target: add extra counters for LUN statistics (Konstantin Khorenko)
- target: don't call an unmap callback if a range length is zero (Andrei Vagin) [PSBM-79534]
- ms/vhost: synchronize IOTLB message with dev cleanup (Jason Wang) [PSBM-90318]
- net/vhost: Replace kmalloc with kvmalloc for order>=3 (Oleg Babin) [PSBM-81803]
- vhost-net: enable zerocopy tx by default (Michael S. Tsirkin) [PSBM-52390]
- KVM: x86/vPMU: handle access to LBR stack regardless of PMU counters presence (Jan Dakinevich) [PSBM-94429]
- KVM: x86: Don't re-execute instruction when not passing CR2 value (Liran Alon) [PSBM-89859]
- ms/KVM: X86: Fix scan ioapic use-before-initialization (Wanpeng Li) [PSBM-90292]
- ms/KVM: hyperv: idr_find needs RCU protection (Paolo Bonzini)
- ms/KVM: x86: Add support for VMware backdoor Pseudo-PMCs (Arbel Moshe)
- ms/KVM: x86: SVM: Intercept #GP to support access to VMware backdoor ports (Liran Alon)
- ms/KVM: x86: VMX: Intercept #GP to support access to VMware backdoor ports (Liran Alon)
- ms/KVM: x86: Emulate only IN/OUT instructions when accessing VMware backdoor (Liran Alon)
- ms/KVM: x86: Add emulation_type to not raise #UD on emulation failure (Liran Alon)
- ms/KVM: x86: Always allow access to VMware backdoor I/O ports (Liran Alon)
- ms/KVM: x86: Add module parameter for supporting VMware backdoor (Liran Alon) [PSBM-84046 PSBM-84046]
- KVM: x86: add a stub for MSR_PLATFORM_INFO (Denis Plotnikov) [PSBM-95187]
- kvm: move actual VM memory shrink out of kvm_lock (Konstantin Khorenko) [PSBM-95077 PSBM-95077 PSBM-100158 PSBM-100474 PSBM-96262]
- kvm: move VMs which we skip during shrink to vm_list tail (Konstantin Khorenko) [PSBM-95077 PSBM-95077]
- ms/KVM: x86: Do not clear RFLAGS.TF when a singlestep trap occurs. (Kyle Huey) [PSBM-

92865]

- ms/KVM: x86: Add kvm_skip_emulated_instruction and use it. (Kyle Huey) [PSBM-92865]
- ms/KVM: VMX: Reorder some skip_emulated_instruction calls (Kyle Huey) [PSBM-92865]
- ms/KVM: x86: Add a return value to kvm_emulate_cpuid (Kyle Huey) [PSBM-92865]
- ms/KVM: x86: thoroughly disarm LAPIC timer around TSC deadline switch (Radim Krčmář) [PSBM-86578 PSBM-86578]
- ms/KVM: x86: really disarm lapic timer when clearing TMICT (Radim Krčmář) [PSBM-86578 PSBM-86578]
- ms/KVM: x86: handle 0 write to TSC_DEADLINE MSR (Radim Krčmář) [PSBM-86578 PSBM-86578]
- ms/KVM: LAPIC: Keep timer running when switching between one-shot and periodic mode (Wanpeng Li) [PSBM-86578 PSBM-86578]
- ms/KVM: LAPIC: Introduce limit_periodic_timer_frequency (Wanpeng Li) [PSBM-86578 PSBM-86578]
- ms/KVM: LAPIC: Fix lapic timer mode transition (Wanpeng Li) [PSBM-86578 PSBM-86578]
- kvm: Map PFN-type memory regions as writable (if possible) (KarimAllah Ahmed) [PSBM-84046]
- kvm: x86: hyperv: delete dead code in kvm_hv_hypercall() (Dan Carpenter)
- kvm: x86: hyperv: guest → host event signaling via eventfd (Roman Kagan)
- kvm: x86: factor out kvm.arch.hyperv (de)init (Roman Kagan)
- ms/KVM: x86/vPMU: ignore access to LBR-related MSRs (Jan Dakinevich) [PSBM-75679]
- KVM: async_pf: Let guest support delivery of async_pf from guest mode (Wanpeng Li) [PSBM-56498]
- Revert "ms/KVM: x86: reset MMU on KVM_SET_VCPU_EVENTS" (Konstantin Khorenko) [PSBM-62341 PSBM-63993 PSBM-64259 PSBM-63253 PSBM-63962]
- ms/KVM: i8254: use atomic_t instead of pit.inject_lock (Radim Krčmář) [PSBM-56972]
- ms/KVM: i8254: add kvm_pit_reset_reinject (Radim Krčmář) [PSBM-56972]
- ms/KVM: i8254: simplify atomics in kvm_pit_ack_irq (Radim Krčmář) [PSBM-56972]
- ms/kvm:vmx: more complete state update on APICv on/off (Roman Kagan) [PSBM-46939]
- ms/kvm/x86: Pass return code of kvm_emulate_hypercall (Andrey Smetanin) [PSBM-44419]
- kvm: do not SetPageDirty for file mappings (Maxim Patlasov) [PSBM-43243]
- md: add support for dm-crypted ploops (Maxim Patlasov) [PSBM-53386]
- ms/crypto: scatterwalk - Fix test in scatterwalk_done (Herbert Xu)
- ms/crypto: gcm - Filter out async ghash if necessary (Herbert Xu)
- ms/crypto: hash - Fix page length clamping in hash walk (Herbert Xu)
- ms/crypto: user - lock crypto_alg_list on alg dump (Mathias Krause)

- ms/crypto: af_alg - Forbid bind(2) when nokey child sockets are present (Herbert Xu) [PSBM-53860]
- ms/crypto: af_alg - Allow af_af_alg_release_parent to be called on nokey path (Herbert Xu) [PSBM-53860]
- ms/crypto: skcipher - Add crypto_skcipher_has_setkey (Herbert Xu) [PSBM-53860]
- ploop: fix trim_extent_mappings() locking (Vasily Averin) [PSBM-78538 PSBM-45999]
- ploop: fix dio_invalidate_cache() (Maxim Patlasov) [PSBM-73999]
- ploop: add dependency for CBT in Kconfig (Cyrill Gorcunov)
- ploop/modules: set module author for Virtuozzo modules (Konstantin Khorenko) [PSBM-43847]
- ploop/license: put correct copyrights into file headers (Konstantin Khorenko) [PSBM-43847]
- ploop: make error messages about intersecting extents more verbose (v2) (Maxim Patlasov)
- ploop: fix race on map → levels[] update (Maxim Patlasov)
- ploop: push_backup: ploop_pb_get_pending should wait again instead of ENOENT (Maxim Patlasov) [PSBM-68608]
- ploop: show ino and sdev for ploop images in sysfs (Andrei Vagin) [PSBM-68404]
- ploop: fix typo in ploop_pb_get_first_req_from_tree (Maxim Patlasov) [PSBM-67513]
- block/ploop: Add resched points in ploop thread. (Andrey Ryabinin) [PSBM-66617]
- ploop: push_backup: BUG() on list corruption in ploop_pb_add_req_to_tree() (Maxim Patlasov) [PSBM-65786 PSBM-65786]
- ploop: fix IS_PSTORAGE() macro: add check for "vstorage" (Maxim Patlasov)
- ploop: pio_nfs does not require PLOOP_REQ_ISSUE_FLUSH (v2) (Maxim Patlasov)
- ploop: add comments about possible leaks (Konstantin Khorenko) [PSBM-52219]
- ploop: don't leak ploop_freeblks_ctl_extent (Dmitry Safonov) [PSBM-51362]
- ploop: push_backup: ploop_pb_init must always spawn health_monitor (Maxim Patlasov)
- ploop: push_backup: avoid deadlock on PLOOP_PEEK (Maxim Patlasov)
- ploop: push_backup: avoid preq → state corruption (Maxim Patlasov)
- ploop: ploop_grow must nullify holes (Maxim Patlasov) [PSBM-55685]
- ploop: push_backup: fix pbd → ppb_lock deadlock (Maxim Patlasov)
- ploop: add support for dm-crypted ploops (Andrey Ryabinin) [PSBM-50858]
- ploop: keep frozen block device pointer instead of super_block pointer (Andrey Ryabinin) [PSBM-50858]
- ploop: drop bdev refcounter on freeze_bdev() failure (Andrey Ryabinin)
- ploop: io_direct: delay f_op → fsync() until index_update for reloc requests (v3) (Maxim Patlasov) [PSBM-47026 PSBM-47026]
- ploop: factor out add preq to fsync_queue (Maxim Patlasov)

- ploop: factor → write_page() out (Maxim Patlasov) [PSBM-104572]
- ploop: fix freeze/thaw ioctls (Maxim Patlasov) [PSBM-49699]
- ploop: fix free_list starvation (Maxim Patlasov) [PSBM-49454]
- ploop: introduce plo → blockable_reqs counter (Maxim Patlasov) [PSBM-49454]
- ploop: introduce plo → free_qlen counter (Maxim Patlasov) [PSBM-49454]
- ploop: fix fsync_reqs accounting (Maxim Patlasov) [PSBM-49454]
- ploop: release plo → ctl_mutex for thaw_bdev in PLOOP_IOC_THAW handler (Vladimir Davydov) [PSBM-49699]
- ploop: add PLOOP_IOC_FREEZE and PLOOP_IOC_THAW ioctls (Maxim Patlasov) [PSBM-49091]
- ploop: reloc vs extent_conversion race fix (Dmitry Monakhov) [PSBM-47107 PSBM-49143]
- ploop: push_backup: implement timeout functions (Maxim Patlasov) [PSBM-48082]
- ploop: push_backup: health monitor thread (Maxim Patlasov) [PSBM-48082]
- ploop: push_backup: add timeout tunable (Maxim Patlasov)
- ploop: push_backup: extend pb_set (Maxim Patlasov)
- ploop: push_backup: factor rb_erase() out (Maxim Patlasov)
- ploop: push_backup: introduce pb_set structure (Maxim Patlasov) [PSBM-48082 PSBM-48082]
- ploop: fixup barrier handling during relocation (Maxim Patlasov)
- ploop: fix barriers for PLOOP_E_RELOC_NULLIFY (Maxim Patlasov)
- ploop: generalize issue_flush (Dmitry Monakhov)
- ploop: remove preflush from dio_submit (Maxim Patlasov)
- ploop: resurrect delay_fua for io_direct (Maxim Patlasov)
- ploop: minor rework of → write_page() io method (Dmitry Monakhov)
- ploop: resurrect delayed_fua for io_kaio (Maxim Patlasov)
- ploop: minor rework of ploop_req_delay_fua_possible (Maxim Patlasov) [PSBM-47107]
- ploop: deadcode cleanup in dio_submit() (Dmitry Monakhov)
- ploop: skip redundant fsync for REQ_FUA in post_submit (Dmitry Monakhov)
- ploop: fix barriers for ordinary requests (Maxim Patlasov)
- ploop: io_kaio: fix silly bug in kaio_complete_io_state() (Maxim Patlasov)
- ploop: fix counting bio_qlen (Maxim Patlasov)
- ploop: fix gendisk disk_stats to be seen on partition (Maxim Patlasov) [PSBM-48266]
- ploop: "Parallels loopback device" → "Virtuozzo loopback device" (Konstantin Khorenko) [PSBM-43847]
- ploop: push_backup: PLOOP_PEEK mode of ioctl(PLOOP_IOC_PUSH_BACKUP_IO) (Maxim

Patlasov) [PSBM-47764]

- ploop: push_backup: rework lockout machinery (Maxim Patlasov) [PSBM-47680 PSBM-47680]
- ploop: push_backup: copy stop status back to userspace (Maxim Patlasov) [PSBM-47429]
- ploop: io_direct: delay f_op → fsync() until FLUSH|FUA (v2) (Maxim Patlasov) [PSBM-47026]
- ploop: push_backup: merge pbd → cbt_map back to CBT (Maxim Patlasov) [PSBM-47429]
- ploop: push_backup: improve ioctl(PLOOP_IOC_PUSH_BACKUP_IO) (Maxim Patlasov) [PSBM-45000]
- ploop: push_backup: introduce ppb → reported_map (Maxim Patlasov) [PSBM-45000 PSBM-104530]
- ploop: push_backup: implement auto destroy (Maxim Patlasov) [PSBM-45000]
- ploop: push_backup: factor out destroy (Maxim Patlasov) [PSBM-45000]
- ploop: get rid of direct calls to file → f_op → fsync() (Maxim Patlasov)
- ploop: get rid of dio_fsync() (Maxim Patlasov)
- ploop: io_direct: check for fsync fop on startup (Maxim Patlasov)
- ploop: get rid of FOP_FSYNC (Maxim Patlasov)
- ploop: avoid costly user-controllable kmalloc() calls (Andrey Ryabinin) [PSBM-47303]
- ploop: push_backup: optimize ploop_pb_put_reported() (Maxim Patlasov) [PSBM-45000]
- ploop: push_backup: optimize ploop_pb_get_pending() (Maxim Patlasov) [PSBM-45000]
- ploop: push_backup: show uuid (Maxim Patlasov) [PSBM-45000]
- ploop: push_backup: fix ploop_push_backup_io_read() (Maxim Patlasov) [PSBM-45000]
- ploop: force journal commit after dio_post_submit() (Dmitry Monakhov) [PSBM-45730]
- ploop: push_backup cleanup (Maxim Patlasov)
- ploop: wire push_backup into state-machine (Maxim Patlasov)
- ploop: implement PLOOP_IOC_PUSH_BACKUP_IO (Maxim Patlasov) [PSBM-45000]
- ploop: introduce pbd (Maxim Patlasov) [PSBM-45000]
- ploop: io_direct must fsync after fallocate (Maxim Patlasov) [PSBM-45326 PSBM-46146]
- ploop: must acquire write access on space allocation (Maxim Patlasov) [PSBM-20150]
- ploop: use FALLOC_FL_CONVERT_UNWRITTEN in io_direct (Maxim Patlasov) [PSBM-22381]
- ploop: replace BLOCK_UNINIT (Maxim Patlasov) [PSBM-22381]
- ploop: fix direct_io prealloc checks (Maxim Patlasov) [PSBM-22381]
- ploop: update gendisk disk_stats (Maxim Patlasov) [PSBM-41247]
- ploop: rename extent maps management funtions (Alexey V. Vissarionov)
- ploop: disable WRITE SAME for io_kaio (Maxim Patlasov) [PSBM-41965]
- ploop: release io_context on ploop_thread() exit (Maxim Patlasov) [PSBM-39956]

- ploop: do not use fiemap beyond eof (Maxim Patlasov) [PSBM-26762 PSBM-39251]
- ploop: use GFP_NOIO in ploop_make_request (Vladimir Davydov) [PSBM-38842]
- ploop: fix race on prealloc request (Maxim Patlasov) [PSBM-35095]
- ploop: dio_fastmap() must refresh bvec_merge_data (Maxim Patlasov)
- ploop: fix processing sync bios (Maxim Patlasov) [PSBM-33630]
- ploop: added into pvd header new close signatures (Andrey Smetanin) [PSBM-33882]
- ploop: fix busyloop on secondary discard bio (Andrey Smetanin) [PSBM-30451]
- ploop: add a separate queue for discard bio-s (v2) (Andrey Smetanin) [PSBM-27676]
- ploop: added printk of function, line, backtrace before ploop_set_error (Andrey Smetanin)
- ploop: force FUA of nullified blocks for BAT grow (Andrey Smetanin) [PSBM-31969]
- ploop: mark reloc reqs to force FUA/fsync(kaio) for index update I/O (Andrey Smetanin) [PSBM-31222 PSBM-31225 PSBM-31321 PSBM-31222 PSBM-31225 PSBM-31321]
- ploop: mark reloc reqs to force FUA before write of relocated data (Andrey Smetanin) [PSBM-31222 PSBM-31225 PSBM-31321]
- ploop: make image fsync at I/O complete if it's required by FUA/fsync force flag or by req → req_rw (Andrey Smetanin) [PSBM-31222 PSBM-31225 PSBM-31321 PSBM-31222 PSBM-31225 PSBM-31321]
- ploop: do preflush or postfua according force FUA/flush flags, and delay FUA if possible but add force FLUSH to req if so (Andrey Smetanin) [PSBM-31222 PSBM-31225 PSBM-31321 PSBM-31222 PSBM-31225 PSBM-31321]
- ploop: direct: to support truly FLUSH/FUA of req we need mark first bio FLUSH, write all bios and mark last bio as FLUSH/FUA (Andrey Smetanin) [PSBM-31222 PSBM-31225 PSBM-31321 PSBM-31222 PSBM-31225 PSBM-31321]
- ploop: define struct ploop_request → state flags to force pre FLUSH before write IO and FUA/fsync at I/O complete (Andrey Smetanin) [PSBM-31222 PSBM-31225 PSBM-31321 PSBM-31222 PSBM-31225 PSBM-31321]
- ploop: added ploop_req_delay_fua_possible() func that detects possible delaying of upcoming FUA to index update stage (Andrey Smetanin) [PSBM-31222 PSBM-31225 PSBM-31321 PSBM-31222 PSBM-31225 PSBM-31321]
- ploop: notify blktrace about bio completions (Andrey Smetanin)
- ploop: warning on "disk full" condition (Andrey Smetanin)
- ploop: make manual abort transition verbose (Andrey Smetanin)
- ploop: zero blocks on reuse (Andrey Smetanin) [PSBM-25391]
- ploop: roll back alloc_head on ENOSPC (Andrey Smetanin) [PSBM-24694]
- ploop: put top-delta back if merge failed (Andrey Smetanin) [PSBM-25252]
- ploop: fix spurious hole complains (Andrey Smetanin)
- ploop: expose open_count to sysfs (Andrey Smetanin) [PSBM-24754]

- ploop: ensure non-empty delta list on running ploop (Andrey Smetanin) [PSBM-25102]
- ploop: bug on bad fiemap (v2) (Andrey Smetanin) [PSBM-26762]
- ploop: add ioctl to limit size of top delta (v2) (Andrey Smetanin) [PSBM-22002]
- ploop: prioritize BAT operations (Andrey Smetanin)
- ploop: fix race in ploop_tracker_init() (Andrey Smetanin) [PSBM-22993]
- ploop: fix check_zero optimization v2 (Andrey Smetanin) [PSBM-23452]
- ploop: fix a race condition on relocation of blocks (Andrey Smetanin) [PSBM-23905]
- ploop: support 4K block-size of host block-device (Andrey Smetanin) [PSBM-21989]
- ploop: skip writes of zeroes to unallocated blocks by default (Andrey Smetanin) [PSBM-22506 PSBM-22381]
- ploop: reverse order of fdatawait and fsync fop (Andrey Smetanin)
- ploop: fix sync delay for sync requests (Andrey Smetanin) [PSBM-22381]
- ploop: fix iblk-to-sector calculations (Andrey Smetanin) [PSBM-22961]
- ploop: rework accounting images_size (Andrey Smetanin) [PSBM-20432]
- ploop: report holes in pio_direct (v2) (Andrey Smetanin) [PSBM-20770]
- ploop: prevent disclosure 4 bytes of the stack kernel (Andrey Smetanin)
- ploop: prevent dangerous ploop-umount (Andrey Smetanin) [PSBM-21474]
- ploop: check new size of block device on ioctl(GROW) (Andrey Smetanin) [PSBM-21027]
- ploop: fix dio_fsync wait (Andrey Smetanin) [PSBM-18049]
- ploop: fix accounting ploop_io_images_size (Andrey Smetanin) [PSBM-19906]
- ploop: fixed deadlock by interrupts off inside lookup_extent_mapping (Andrey Smetanin) [PSBM-32614]
- ploop: fix deadlock inside dio_alloc_sync - lock inside while() but unlock outside (Andrey Smetanin)
- ploop: purge plo → map on merge (Maxim Patlasov) [PSBM-27891]
- ploop: set PLOOP_MAP_IDENTICAL bit on merge (Maxim Patlasov) [PSBM-24408]
- ploop: update i_size on preallocation (Maxim Patlasov)
- ploop: support of explicit unplug: unplug callback (Maxim Patlasov) [PSBM-18168]
- ploop: support of explicit unplug: start and stop plugging (Maxim Patlasov) [PSBM-18168]
- ploop: check ENOSPC callback (Maxim Patlasov) [PSBM-18168]
- ploop: port io_kaio module (Maxim Patlasov) [PSBM-18168]
- ploop: congestion detection (Maxim Patlasov) [PSBM-18168 PSBM-11585]
- ploop: generic support of writeback control (Maxim Patlasov) [PSBM-18168 PSBM-11585]
- ploop: check error from freeze_bdev (Maxim Patlasov) [PSBM-28460]
- ploop: fix file → f_count leak in raw_complete_snapshot() (Kirill Tkhai)

- ploop: add ploop to the tree (Maxim V. Patlasov) [PSBM-51358 PSBM-51358]
- cbt: selfdeadlock in __blk_cbt_set() (Vasily Averin) [PSBM-89323]
- cbt: bitmap corruption caused by ipi (Vasily Averin) [PSBM-89323]
- block: cbt: fix potential deadlock (Maxim Patlasov)
- cbt: license: put correct copyrights into file headers (Konstantin Khorenko) [PSBM-43847]
- cbt: don't leak ce_reserved64 in cbt_ito userspace (Dmitry Safonov) [PSBM-51361]
- cbt: blk_cbt_update_size() must return if cbt → block_max not changed (Maxim Patlasov)
- cbt: blk_cbt_update_size() should not copy uninitialized data (Maxim Patlasov) [PSBM-48120]
- cbt: fix possible race on alloc_page() (Maxim Patlasov)
- cbt: new api: blk_cbt_map_merge() (Maxim Patlasov) [PSBM-47429 PSBM-47429]
- cbt: fix panic in blk_cbt_map_copy_once() (Maxim Patlasov) [PSBM-47416]
- cbt: fix cbt → block_max calculation (Maxim Patlasov)
- cbt: add uuid arg to blk_cbt_map_copy_once() (Maxim Patlasov) [PSBM-45000]
- cbt: add blk_cbt_map_copy_once() helper (Maxim Patlasov) [PSBM-45000 PSBM-104530]
- cbt: fix page allocation (Maxim Patlasov)
- cbt: make __blk_cbt_set() smarter (Maxim Patlasov)
- cbt: introduce CBT_PAGE_MISSED (Maxim Patlasov)
- cbt: factor out alloc_page (Maxim Patlasov) [PSBM-45000]
- config.OpenVZ: enable cbt - changed block tracking (Konstantin Khorenko) [PSBM-34156]
- cbt: introduce changed block tracking (Dmitry Monakhov) [PSBM-34156 PSBM-54928]
- fuse: skip invalidate_inode_pages2 on truncate (Maxim Patlasov) [PSBM-76437]
- fuse: ioctl(FIEMAP) support (Maxim Patlasov) [PSBM-68226]
- fuse: fallocate must return error if mode is not supported (Maxim Patlasov)
- fuse: add support for fallocate(FL_ZERO_RANGE) (Maxim Patlasov)
- fuse: ioctl() to bind fuse device to input queue (Maxim Patlasov)
- fuse: fuse_prepare_write() cannot handle page from killed request (Maxim Patlasov) [PSBM-54547]
- fuse: cleanup fuse_wait_on_page_writeback (Maxim Patlasov)
- fuse: fuse_blocked_for_wb must check rw_files (Maxim Patlasov) [PSBM-57460]
- fuse: trust server file size unless opened (Maxim Patlasov) [PSBM-57047]
- fuse: ratelimint dio complains (Maxim Patlasov) [PSBM-55782]
- fuse: fuse_send_writepage() must check FUSE_S_FAIL_IMMEDIATELY (Maxim Patlasov)
- fuse: relax i_mutex coverage in fuse_fsync (Maxim Patlasov) [PSBM-55919]
- fuse: queue work for aio_complete (v3) (Maxim Patlasov) [PSBM-54547]

- fuse: process small sync direct reads synchronously (Maxim Patlasov)
- fuse: enable synchronous close for both "pstorage://" and "vstorage://" fs types (Andrey Zaitsev) [PSBM-47206]
- fuse: increase min/max_dirty_pages up to 256/512 MB (Vladimir Davydov)
- fuse: resend interrupted release (Maxim Patlasov) [PSBM-45428 VSTOR-11275]
- fuse: virtualize file system (Stanislav Kinsburskiy) [OVZ-6498 PSBM-85886]
- fuse: release cleanup (Maxim Patlasov)
- fuse: fix deadlock in fuse_flush() (Maxim Patlasov) [PSBM-29381]
- fuse: invalidate_files backward compatibility mode (Maxim Patlasov)
- fuse: report details of aio failure (Maxim Patlasov) [PSBM-23696]
- fuse: fail lost-lease notification if async_read (Maxim Patlasov)
- fuse: skip waiting for fuse writeback (Maxim Patlasov)
- fuse: prevent queueing new requests after (Maxim Patlasov)
- fuse: kill requests on "lost-lease" event (Maxim Patlasov)
- fuse: add "killed" bit to fuse request (Maxim Patlasov)
- fuse: add page_cache bit to fuse request (Maxim Patlasov)
- fuse: the list of all opened files (Maxim Patlasov)
- fuse: do not flush files opened ro (Maxim Patlasov) [PSBM-20562]
- fuse: add mount option to disable close_wait (Maxim Patlasov)
- fuse: make umount synchronous (Maxim Patlasov) [PSBM-19305]
- fuse: print initialized flag in conn info (Maxim Patlasov)
- fuse: extend report on pstorage errors (Maxim Patlasov)
- fuse: do not use RELEASE on directory (Maxim Patlasov) [PSBM-17195]
- fuse: add missed fuse_file_put() (Maxim Patlasov)
- fuse: cleanups in fuse writeback (Maxim Patlasov) [PSBM-16442 PSBM-16442]
- fuse: pass "fc" to fuse_invalidate_files() (Maxim Patlasov)
- fuse: implement invalidate_files notification (Maxim Patlasov) [PSBM-16105]
- fuse: account read/write requests into iopslimit (Maxim Patlasov)
- fuse: improve bdi dirty memory limits for fuse (Maxim Patlasov) [PSBM-13700 PSBM-45497]
- fuse: enable async_dio for pcs (Maxim Patlasov)
- fuse: optimize fuse_vma_close() (Maxim Patlasov)
- fuse: account directio requests into ioacct (Maxim Patlasov)
- fuse: wire iolimit sleep-hook into directio path. (Maxim Patlasov)
- fuse: account read/write requests into iostat (Maxim Patlasov)

- fuse: i_size to be updated on first open (Maxim Patlasov) [PSBM-13636]
- fuse: reimplement synchronous close (Maxim Patlasov)
- fuse: Wait for real writeback to finish on file (Maxim Patlasov)
- fuse: some fairness in handling writeback (Maxim Patlasov)
- fuse: Fuse ctl file with connection info (Maxim Patlasov)
- fuse: Show open files in fusectl (Maxim Patlasov)
- fuse: Show active requests in fusectl files (Maxim Patlasov)
- fuse: fuse-ve-odirect sysctl (Maxim Patlasov) [PSBM-18167]
- fuse: direct_enable mount option (Maxim Patlasov) [PSBM-18167]
- fuse: Turn writeback cache on (Maxim V. Patlasov)
- fuse: kaio support (Maxim Patlasov) [PSBM-18167]
- ms/fuse: Protect ff → reserved_req via corresponding fi → lock (Kirill Tkhai)
- ms/fuse: Protect fi → nlookup with fi → lock (Kirill Tkhai)
- ms/fuse: Introduce fi → lock to protect write related fields (Kirill Tkhai)
- ms/fuse: Convert fc → attr_version into atomic64_t (Kirill Tkhai)
- ms/fuse: Add fuse_inode argument to fuse_prepare_release() (Kirill Tkhai)
- ms/fuse: Wake up req → waitq of only if not background (Kirill Tkhai)
- ms/fuse: Optimize request_end() by not taking fiq → waitq.lock (Kirill Tkhai)
- ms/fuse: umount should wait for all requests (Miklos Szeredi)
- ms/fuse: fix double request_end() (Miklos Szeredi)
- ms/fuse: Kill fasync only if interrupt is queued in queue_interrupt() (Kirill Tkhai)
- ms/fuse: Use hash table to link processing request (Kirill Tkhai)
- ms/fuse: fix unlocked access to processing queue (Miklos Szeredi)
- ms/fuse: kill req → intr_unique (Kirill Tkhai)
- ms/fuse: change interrupt requests allocation algorithm (Kirill Tkhai)
- ms/fuse: do not take fc → lock in fuse_request_send_background() (Kirill Tkhai)
- ms/fuse: introduce fc → bg_lock (Kirill Tkhai)
- ms/fuse: use list_first_entry() in flush_bg_queue() (Kirill Tkhai)
- ms/fuse: set FR_SENT while locked (Miklos Szeredi)
- ms/fuse: Fix use-after-free in fuse_dev_do_write() (Kirill Tkhai)
- ms/fuse: Fix use-after-free in fuse_dev_do_read() (Kirill Tkhai)
- ms/fuse: reduce allocation size for splice_write (Andrey Ryabinin)
- ms/fuse: use kvmalloc to allocate array of pipe_buffer structs. (Andrey Ryabinin)
- ms/fuse: convert to errseq_t based error tracking for fsync (Jeff Layton)

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- ms/fuse: fix use after free issue in fuse_dev_do_read() (Sahitya Tummala)
 - ms/fuse: clear FR_PENDING flag when moving requests out of pending queue (Tahsin Erdogan)
 - ms/fuse: use filemap_check_errors() (Miklos Szeredi)
 - ms/fuse: don't mess with blocking signals (Al Viro)
 - ms/fs/fuse: fix ioctl type confusion (Jann Horn)
 - ms/fuse: separate pqueue for clones (Miklos Szeredi)
 - ms/fuse: introduce per-instance fuse_dev structure (Miklos Szeredi)
 - ms/fuse: device fd clone (Miklos Szeredi)
 - ms/fuse: abort: no fc → lock needed for request ending (Miklos Szeredi)
 - ms/fuse: no fc → lock for pqueue parts (Miklos Szeredi)
 - ms/fuse: no fc → lock in request_end() (Miklos Szeredi)
 - ms/fuse: cleanup request_end() (Miklos Szeredi)
 - ms/fuse: request_end(): do once (Miklos Szeredi)
 - ms/fuse: add req flag for private list (Miklos Szeredi)
 - ms/fuse: pqueue locking (Miklos Szeredi)
 - ms/fuse: abort: group pqueue accesses (Miklos Szeredi)
 - ms/fuse: cleanup fuse_dev_do_read() (Miklos Szeredi)
 - ms/fuse: move list_del_init() from request_end() into callers (Miklos Szeredi)
 - ms/fuse: duplicate → connected in pqueue (Miklos Szeredi)
 - ms/fuse: separate out processing queue (Miklos Szeredi)
 - ms/fuse: simplify request_wait() (Miklos Szeredi)
 - ms/fuse: no fc → lock for iqueue parts (Miklos Szeredi)
 - ms/fuse: allow interrupt queuing without fc → lock (Miklos Szeredi)
 - ms/fuse: iqueue locking (Miklos Szeredi)
 - ms/fuse: dev read: split list_move (Miklos Szeredi)
 - ms/fuse: abort: group iqueue accesses (Miklos Szeredi)
 - ms/fuse: duplicate → connected in iqueue (Miklos Szeredi)
 - ms/fuse: separate out input queue (Miklos Szeredi)
 - ms/fuse: req state use flags (Miklos Szeredi)
 - ms/fuse: simplify req states (Miklos Szeredi)
 - ms/fuse: don't hold lock over request_wait_answer() (Miklos Szeredi)
 - ms/fuse: simplify unique ctr (Miklos Szeredi)
 - ms/fuse: rework abort (Miklos Szeredi)

- ms/fuse: fold helpers into abort (Miklos Szeredi)
- ms/fuse: use per req lock for lock/unlock_request() (Miklos Szeredi)
- ms/fuse: req use bitops (Miklos Szeredi)
- ms/fuse: simplify request abort (Miklos Szeredi)
- ms/fuse: call fuse_abort_conn() in dev release (Miklos Szeredi)
- ms/fuse: fold fuse_request_send_nowait() into single caller (Miklos Szeredi)
- ms/fuse: check conn_error earlier (Miklos Szeredi)
- ms/fuse: account as waiting before queuing for background (Miklos Szeredi)
- ms/fuse: reset waiting (Miklos Szeredi)
- ms/fuse: fix background request if not connected (Miklos Szeredi)
- ms/fuse: add memory barrier to INIT (Miklos Szeredi)
- ms/fuse: flush requests on umount (Miklos Szeredi)
- ms/fuse: use list_for_each_entry() for list traversing (Dong Fang)
- netfilter/vzprivnet: Fix memleaks of 'struct seq_operations' (Andrey Ryabinin)
- vzprivnet: classify_write() cleanup (Vasily Averin)
- vzprivnet: Enable module in configs (Pavel Tikhomirov) [PSBM-43685]
- ip6_vzprivnet: Add ip6_vzprivnet driver (Konstantin Khorenko)
- ip_vzprivnet: Add ip_vzprivnet driver (Konstantin Khorenko)
- fence-watchdog/arptables: add ability to filter by watchdog timeout (Pavel Tikhomirov)
- fence-watchdog: Add xt_wdog_tmo netfilter match (Pavel Tikhomirov) [PSBM-23253]
- fence-watchdog: Add fence-watchdog driver (Pavel Tikhomirov)
- connector: add VE SS hook (Stanislav Kinsburskiy) [PSBM-60227]
- connector: take VE from socket upon callback (Stanislav Kinsburskiy)
- connector: containerize "connector" proc entry (Stanislav Kinsburskiy)
- proc connector: send events to both VEs if not in VE#0 (Stanislav Kinsburskiy)
- proc connector: use per-ve netlink sender helper (Stanislav Kinsburskiy)
- proc connector: take namespaces from VE (Stanislav Kinsburskiy)
- proc connector: pass VE to event fillers (Stanislav Kinsburskiy)
- proc connector: take number of listeners and per-cpu conters from VE (Stanislav Kinsburskiy)
- proc connector: call proc-related init and fini routines explicitly (Stanislav Kinsburskiy)
- proc connector: add per-ve init and fini routines (Stanislav Kinsburskiy)
- proc connector: add pid namespace awareness (Stanislav Kinsburskiy)
- proc connector: use generic event helper for exit event (Stanislav Kinsburskiy)

- proc connector: use generic event helper for coredump event (Stanislav Kinsburskiy)
- proc connector: use generic event helper for comm event (Stanislav Kinsburskiy)
- proc connector: use generic event helper for ptrace event (Stanislav Kinsburskiy)
- proc connector: use generic event helper for sid event (Stanislav Kinsburskiy)
- proc connector: use generic event helper for id event (Stanislav Kinsburskiy)
- proc connector: use generic event helper for exec event (Stanislav Kinsburskiy)
- proc connector: use generic event helper for fork event (Stanislav Kinsburskiy)
- proc connector: generic proc_event_connector() helper introduced (Stanislav Kinsburskiy)
- connector: take cn_already_initialized from VE (Stanislav Kinsburskiy)
- connector: per-ve helpers introduced (Stanislav Kinsburskiy)
- connector: use device stored in VE (Stanislav Kinsburskiy)
- connector: per-ve init and fini helpers introduced (Stanislav Kinsburskiy)
- connector: introduce VE-aware get_cdev() helper (Stanislav Kinsburskiy)
- connector: store all private data on VE structure (Stanislav Kinsburskiy)
- connector: remove redundant input callback from cn_dev (Stanislav Kinsburskiy) [PSBM-60227]
- connector: bump skb → users before callback invocation (Florian Westphal) [PSBM-71904]
- ms/kernel/ucount.c: mark user_header with kmemleak_ignore() (Luis R. Rodriguez) [PSBM-76924]
- ms/module: Fix load_module() error path (Peter Zijlstra) [PSBM-69081]
- ms/module: Optimize __module_address() using a latched RB-tree (Peter Zijlstra) [PSBM-69081]
- ms/new helper: wait_event_killable_exclusive() (Stanislav Kinsburskiy) [PSBM-53581]
- ms/pidns: fix NULL dereference in __task_pid_nr_ns() (Eric Dumazet) [PSBM-75247]
- ms/trylock_super(): replacement for grab_super_passive() (Konstantin Khlebnikov) [PSBM-73370]
- ms/kernel/kcmp.c: drop branch leftover typo (Cyrill Gorcunov)
- ms/x86: Fix norandmaps/ADDR_NO_RANDOMIZE (Oleg Nesterov)
- ms/workqueue: fix ghost PENDING flag while doing MQ IO (Roman Pen) [PSBM-69788]
- ms/devpts: fix null pointer dereference on failed memory allocation (Colin Ian King) [PSBM-67757]
- ms/pty: Remove pty_unix98_shutdown() (Peter Hurley) [PSBM-67757]
- ms/x86/spinlocks/paravirt: Fix memory corruption on unlock (Raghavendra K T) [PSBM-68212]
- ms/x86/ticketlock: Fix spin_unlock_wait() livelock (Oleg Nesterov) [PSBM-68212]
- ms/x86/spinlock: Replace ACCESS_ONCE with READ_ONCE (Christian Borntraeger) [PSBM-

68212]

- ms/ /proc/PID/status: show all sets of pid according to ns (Chen Hanxiao) [PSBM-62139]
- ms/kprobes/x86: Return correct length in __copy_instruction() (Eugene Shatokhin) [PSBM-66876]
- ms/kcmp: fs/epoll: wrap kcmp code with CONFIG_CHECKPOINT_RESTORE (Cyrill Gorcunov) [PSBM-60161]
- ms/procfs: fdinfo: extend information about epoll target files (Cyrill Gorcunov) [PSBM-60161]
- ms/kcmp: add KCMP_EPOLL_TFD mode to compare epoll target files (Cyrill Gorcunov) [PSBM-60161]
- ms/pid_ns: Fix race between setns'ed fork() and zap_pid_ns_processes() (Kirill Tkhai)
- ms/prctl: Allow local CAP_SYS_ADMIN changing exe_file (Kirill Tkhai) [PSBM-66313]
- ms/ipc/shm: Fix shmat mmap nil-page protection (Davidlohr Bueso) [PSBM-61275]
- ms/pidns: fix free_pid() to handle the first fork failure (Kirill Tkhai) [PSBM-56705]
- ms/tracing/filter: Do not allow infix to exceed end of string (Steven Rostedt (Red Hat)) [PSBM-60885]
- ms/futex: Fix potential use-after-free in FUTEX_REQUEUE_PI (Peter Zijlstra) [PSBM-62103]
- ms/ipsec: Fix aborted xfrm policy dump crash (Evgenii Shatokhin) [PSBM-78287]
- ms/xfrm_user: validate XFRM_MSG_NEWAE incoming ESN size harder (Andy Whitcroft) [PSBM-63199]
- ms/xfrm_user: validate XFRM_MSG_NEWAE XFRMA_REPLAY_ESN_VAL replay_window (Andy Whitcroft) [PSBM-63199]
- ms/pvclock: introduce seqcount-like API (Paolo Bonzini) [PSBM-60589]
- ms/iovec: make sure the caller actually wants anything in memcpy_fromiovecend (Sasha Levin) [PSBM-59577]
- ms/kernel/groups: Account group_info allocations (Andrey Ryabinin) [PSBM-56703]
- ms/percpu: fix this_cpu_sub() subtrahend casting for unsigneds (Greg Thelen) [PSBM-63424]
- ms/cgroup: fix rmdir EBUSY regression in 3.11 (Hugh Dickins) [PSBM-53314]
- ms/kernel/groups: Use __GFP_NOWARN on user triggerable allocation (Andrey Ryabinin) [PSBM-56703]
- ms/posix_acl: Clear SGID bit when setting file permissions (Jan Kara)
- ms/block: fix use-after-free in sys_ioprio_get() (Omar Sandoval)
- block/nbd: use REQ_TYPE_DRV_PRIV instead of REQ_TYPE_SPECIAL (Konstantin Khorenko) [PSBM-54928]
- dm-crypt: add ability to use keys from the kernel key retention service (Andrey Ryabinin) [PSBM-44218]
- ms/keys: fallback to user_match if type → match is not available. (Andrey Ryabinin) [PSBM-

60876]

- ms/KEYS: don't let add_key() update an uninstantiated key (Eric Biggers) [PSBM-73342]
- sunrpc: take net from task client only is available (Stanislav Kinsburskiy) [PSBM-69434]
- sunrpc: do not place task to sleep if has to be killed (Stanislav Kinsburskiy) [PSBM-68214]
- sunrpc: use rpc_killall_tasks helper when "kill_tasks" toggle is raised (Stanislav Kinsburskiy)
- sunrpc: fix race between "kill_tasks" set and actual task killing (Stanislav Kinsburskiy) [PSBM-68214]
- sunrpc: pending tasks kill helper added (Stanislav Kinsburskiy) [PSBM-66510]
- sunrpc: bring back SUNRPC task abort logic (Stanislav Kinsburskiy) [PSBM-66510]
- sunrpc: add "kill-tasks" proc entry (Stanislav Kinsburskiy) [PSBM-66510]
- lib/stackdepot.c: bump stackdepot capacity from 16MB to 128MB (Dmitry Vyukov) [PSBM-69081]
- kcov: do not instrument lib/stackdepot.c (Alexander Potapenko) [PSBM-69081]
- config.OpenVZ: add kcov code coverage (Konstantin Khorenko) [PSBM-56169]
- ms/kcov: properly check if we are in an interrupt (Andrey Konovalov) [PSBM-56169]
- ms/kcov: don't profile branches in kcov (Andrey Ryabinin) [PSBM-56169]
- ms/kcov: don't trace the code coverage code (James Morse) [PSBM-56169]
- ms/kernel: add kcov code coverage (Dmitry Vyukov) [PSBM-56169 PSBM-56169]
- modules: set module author for Virtuozzo modules (Konstantin Khorenko) [PSBM-43847]
- license: put correct copyrights into file headers (Konstantin Khorenko) [PSBM-43847 PSBM-40069]
- kernel: call task_work_run() before exit_task_namespaces() (Andrei Vagin) [PSBM-68266]
- wait: Teach do_wait() to know entered tasks (Kirill Tkhai)
- irq: make definition of irq_set_vcpu_affinity() static (Alexey V. Vissarionov)
- trace: add debug prints to nail down busyloop in tracing_read_pipe (Stanislav Kinsburskiy) [PSBM-53928 PSBM-53928]
- ms/scsi: libsas: fix error when getting phy events (Jason Yan) [PSBM-85057 PSBM-85057]
- scsi: rollback to reset request in a request timer handler (Denis Plotnikov) [PSBM-92312]
- ms/mvsas: fix misleading indentation (Luis de Bethencourt)
- scsi: fix the issue that iscsi_if_rx doesn't parse nlmsg properly (Xin Long)
- debug/scsi: debug Scsi_Host recovery (Maxim Patlasov) [PSBM-44228]
- scsi/debug: make scsi error loud (Dmitry Monakhov) [PSBM-54665]
- rh/drm: fix compilation (Konstantin Khorenko) [PSBM-69674]
- Kconfig.openvz: force CGROUP_PERF if compiling VZ Containers code (Konstantin Khorenko) [PSBM-51360]

- config: Enable CONFIG_TCM_QLA2XXX module (Konstantin Khorenko) [PSBM-73161]
- config.OpenVZ: increase default value for vm.mmap_min_addr (Konstantin Khorenko) [PSBM-56697]
- config-vz: add DISABLE_DEV_COREDUMP=n option (Konstantin Khorenko) [PSBM-54194]
- config.OpenVZ: add more options (disabled) which depend on EXPERT (Konstantin Khorenko) [PSBM-69674]
- config.OpenVZ: add mhvtl virtual tape module (Konstantin Khorenko) [PSBM-69293]
- drivers/target/mhvtl: introduce a virtual tape module (Konstantin Khorenko) [PSBM-69293]
- drivers/bnx2x: Limit setting of the max mtu (Andrey Ryabinin) [PSBM-77016]
- config.OpenVZ.debug: enable panic-on-oops in debug kernel (Konstantin Khorenko)
- config.OpenVZ: disable RH_KABI_SIZE_ALIGN_CHECKS (Andrey Ryabinin)
- config.OpenVZ: enable TAP accounting (Konstantin Khorenko) [PSBM-27713]
- config.OpenVZ.debug: Enable audit subsystem in config" (Konstantin Khorenko) [PSBM-38898]
- config.OpenVZ: enable NBD module (Konstantin Khorenko) [PSBM-31858]
- x86: "pages zeroing on free" option introduced (Stanislav Kinsburskiy) [PSBM-33071]
- config.OpenVZ: enable fencing watchdog for HA cluster support (Konstantin Khorenko) [PSBM-40736]
- config.OpenVZ: enable CONFIG_LOCALVERSION_AUTO (Konstantin Khorenko) [PSBM-34957]
- ve/seccomp, ptrace: Save original BPF program when setting the filer (Cyrill Gorcunov) [PSBM-55593]
- ms/seccomp, ptrace: add support for dumping seccomp filters (Tycho Andersen) [PSBM-55322 PSBM-55593]
- ms/seccomp: add ptrace options for suspend/resume (Andrew Vagin) [PSBM-39517 PSBM-90547]
- x86: Show vcpu cpuflags in cpuinfo (Kirill Tkhai)
- x86: cpuinfo: Refactor c_start() (Kirill Tkhai)
- arch/x86: disable cpuid faulting on reboot and cpu offline (Vladimir Davydov) [PSBM-30548 PSBM-33638]
- arch/x86: only enable cpuid faulting for containers (Vladimir Davydov) [PSBM-30516 PSBM-33638]
- arch/x86: introduce cpuid override (Vladimir Davydov) [PSBM-28682 PSBM-33638]
- ms/x86: drop _PAGE_FILE and pte_file()-related helpers (Kirill A. Shutemov) [PSBM-52992 PSBM-54928]
- ms/asm-generic: drop unused pte_file* helpers (Kirill A. Shutemov) [PSBM-52992]
- ms/ipc/shm: handle removed segments gracefully in shm_mmap() (Kirill A. Shutemov) [PSBM-52992]

- ms/mm, thp: Do not make page table dirty unconditionally in touch_p[mu]d() (Kirill Tkhai) [PSBM-78359]
- mm/memcg: limit page cache in memcg hack (Andrey Ryabinin) [PSBM-77547]
- ms/mm: memcontrol: use vmalloc fallback for large kmem memcg arrays (Johannes Weiner) [PSBM-76752]
- ms/mm: introduce kv[mz]alloc helpers (Andrey Ryabinin) [PSBM-76752]
- ms/x86/mm: Make in_compat_syscall() work during exec (Dmitry Safonov)
- ms/x86/hugetlb: Adjust to the new native/compat mmap bases (Dmitry Safonov)
- ms/x86/mm: Make mmap(MAP_32BIT) work correctly (Dmitry Safonov)
- ms/x86/mm: Introduce mmap_compat_base() for 32-bit mmap() (Dmitry Safonov)
- ms/x86/mm: Add task_size parameter to mmap_base() (Dmitry Safonov)
- ms/x86/mm: Introduce arch_rnd() to compute 32/64 mmap random base (Dmitry Safonov)
- ms/x86: standardize mmap_rnd() usage (Kees Cook)
- x86/mm: Support mremap()'ing vdso vma (Dmitry Safonov)
- x86/vdso: Add 64-bit vdso map API (Dmitry Safonov) [PSBM-67017]
- ve/vdso: virtualized monotonic gettime through vdso (Andrey Ryabinin) [PSBM-66451 PSBM-66888 PSBM-68050]
- x86/vdso/prctl: Return size of vdso blob for ARCH_MAP_VDSO_32 (Dmitry Safonov)
- x86/vdso/prctl: fail if vdso present in ARCH_MAP_VDSO_32 (Dmitry Safonov) [PSBM-66485]
- x86/arch_prctl/vdso: add ARCH_MAP_VDSO_* (Dmitry Safonov) [PSBM-28517]
- x86/vdso: Fix build failure with GCC5 (Andrey Ryabinin)
- ve/vdso: x86 — Disable virtualization in native x86-32 mode (Cyrill Gorcunov) [PSBM-30093]
- ve/vdso: x86 — Eliminate race in vdso allocation, v2 (Cyrill Gorcunov) [PSBM-30093]
- ve/vdso: x86-32 — Implement kernel version virtualization (Cyrill Gorcunov) [PSBM-30093]
- ve/vdso: x86-64 — Implement kernel version virtualization (Cyrill Gorcunov) [PSBM-30093]
- arch: x86: perf_event_intel: do not taint kernel when irq loop is stuck (Vladimir Davydov) [PSBM-49258]
- mm/memcg: get precise stat2 counters for statistics. (Andrey Ryabinin) [PSBM-69332]
- mm/memcg: improve mem_cgroup_dcachе_is_low() performance. (Andrey Ryabinin) [PSBM-68644 PSBM-69145]
- mm: memcontrol: add stats for reclaimable and unreclaimable stats (Vladimir Davydov) [PSBM-54816 PSBM-54816 PSBM-54816 PSBM-54816]
- memcg/bc: account dcachе size (Vladimir Davydov) [PSBM-20089]
- vziolimit/fs/ext4: allow to throttle due to iolimit while reading directory blocks (Vladimir Davydov)
- config.OpenVZ: add "vziolimit" module (Konstantin Khorenko) [PSBM-20104]

- cfq/vziolimits: add virtinfo hook for vziolimits (Dmitry Monakhov) [PSBM-20104]
- vziolimit: port diff-ubc-iostat-wire-vziolimit-into-deadline-io_scheduler (Dmitry Monakhov) [PSBM-20104]
- vziolimit: add bc cgroup control (Dmitry Monakhov) [PSBM-32281]
- vziolimit: Add vziolimit driver (Dmitry Monakhov) [PSBM-20104]
- sched/vziolimit: Port diff-fairsched-do-not-account-iothrottled-tasks-in-loadavg-core (Vladimir Davydov) [PSBM-33642]
- mm/iolimits: fix double I/O accounting for iolimits (Andrew Perepechko)
- pfcache/fork: don't inherit vm_private_data on fork (Pavel Tikhomirov) [PSBM-44587]
- pfcache/ub: account pfcache peer files in ub0 (Andrey Ryabinin) [PSBM-56167]
- pfcache: hide trusted.pfcache from listxattr (Pavel Tikhomirov) [PSBM-52180]
- ve/xattr: allow to set trusted.xxx for container admin (Pavel Tikhomirov) [PSBM-51102 OVZ-6791 PSBM-51009]
- ve/xattr: prohibit getxattr/setxattr trusted.pfcache (Pavel Tikhomirov) [PSBM-51102 OVZ-6791]
- ext4: don't iterate over sbi→s_es_list more than the number of elements (Konstantin Khorenko) [PSBM-83335]
- rh/ext4: release leaked posix acl in ext4_xattr_set_acl (Stanislav Kinsburskiy) [PSBM-81384]
- rh/ext4: release leaked posix acl in ext4_acl_chmod (Stanislav Kinsburskiy) [PSBM-81384]
- pfcache: do not account peer files to memcg (Vladimir Davydov)
- pfcache/ext4: drop pfcache csum on fallocate (Dmitry Monakhov) [PSBM-33644]
- ms/ext4: fix lazytime optimization (Dmitry Monakhov)
- ms/ext4: add optimization for the lazytime mount option (Dmitry Monakhov)
- ext4: Add ioctl EXT4_IOC_SET_RSV_BLOCKS V2 (Dmitry Monakhov) [PSBM-25929]
- ext4: add mfsync support (Dmitry Monakhov) [PSBM-18567 PSBM-34909 PSBM-34910]
- pfcache: iterate peer list only for shared pages (Maxim Patlasov)
- pfcache: add hashed peers for ext4 (Konstantin Khorenko) [PSBM-20098]
- pfcache: add generic mapping peers (Konstantin Khlebnikov) [PSBM-20098 PSBM-52992 PSBM-52992 PSBM-89047 PSBM-99561]
- ms/vfs: Remove second variable named error in __dentry_path (Pavel Tikhomirov) [PSBM-34245]
- ms/vfs: reinitialize error for resetart in prepend_path as in ms (Pavel Tikhomirov) [PSBM-34245]
- xfs: allow to mount xfs fs inside a Container (Konstantin Khorenko) [PSBM-72401 PSBM-72401 PSBM-86369]
- ms/xfs: rework buffer dispose list tracking (Dmitry Monakhov) [PSBM-55577]

- ms/xfs-convert-buftarg-lru-to-generic-code-fix (Andrew Morton) [PSBM-55577]
- ms/xfs: convert buftarg LRU to generic code (Dmitry Monakhov) [PSBM-55577]
- Revert: [fs] xfs: rework buffer dispose list tracking (Dmitry Monakhov) [PSBM-55577]
- ms/xfs_qm: lost hunk from "ms/list_lru: add helpers to isolate items" (Vladimir Davydov) [PSBM-42319]
- ms/xfs_qm: lost hunk from "ms/list_lru: introduce list_lru_shrink_{count,walk}" (Vladimir Davydov) [PSBM-42319]
- ms/xfs: fix dquot isolation hang (Vladimir Davydov) [PSBM-42319]
- ms/xfs: convert dquot cache lru to list_lru (Vladimir Davydov) [PSBM-42319 PSBM-42319]
- ext4: ext4_fill_super() should handle register_shriker() errors (Vasily Averin)
- ve/xfs: add missing ub_io_account_dirty in set_page_dirty (Vladimir Davydov)
- ms/ext4: improve extents status tree trace point (Zheng Liu) [PSBM-70858]
- ext4: send abort uevent on ext4 journal abort (Dmitry Monakhov) [PSBM-68848]
- ve/fs/ext4: allow container's root to change immutable attribute. (Andrey Ryabinin) [PSBM-60148]
- ext4: add generic uevent infrastructure (Dmitry Monakhov) [PSBM-66618]
- ext4: Discard preallocated block before swap_extents (Dmitry Monakhov)
- ms/ext4: improve ext4lazyinit scalability (Dmitry Monakhov) [PSBM-49658]
- ve/ext4: treat panic_on_errors as remount-ro_on_errors in CTs (Dmitry Monakhov)
- ext4: fix race aio-dio vs freeze_fs (Dmitry Monakhov) [PSBM-39352 PSBM-104084]
- ms/fs: add dirtytime_expire_seconds sysctl (Dmitry Monakhov)
- ms/fs: make sure the timestamps for lazytime inodes eventually get written (Dmitry Monakhov)
- ms/vfs: add find_inode_nowait() function (Dmitry Monakhov)
- ms/vfs: add support for a lazytime mount option (Dmitry Monakhov) [PSBM-20411]
- jbd2: raid amnesia protection for the journal (Dmitry Monakhov) [PSBM-15484]
- ext4: fallocation mode - convert and extend (Dmitry Monakhov) [PSBM-22381]
- ms/ext4: use ext4_ext_next_allocated_block instead of mext_next_extent (Dmitry Monakhov)
- ext4: update defragmentation codebase (Konstantin Khorenko)
- ext4: Fix error handling after filesystem abort (Dmitry Monakhov)
- jbd2: make shure that we do not miss aborted state (Dmitry Monakhov)
- ext4: pfcache_csum mount option (Konstantin Khlebnikov)
- ext4: make data=writeback mode safe (Kirill Tkhai)
- ext4: quarantine rename atomic behavior (Kirill Tkhai)
- ext4: Provide a balloon nipple for management (Konstantin Khorenko) [PSBM-41222]

- ext4: Don't show the active balloon to user (Maxim V. Patlasov)
- ext4: Teach statfs to report reduced disk usage (Maxim V. Patlasov)
- ext4: Teach the fs where the balloon inode is (Maxim V. Patlasov)
- fs/ext4: ext4_ioctl should check for CAP_SYS_ADMIN, not for CAP_SYS_RESOURCE (Konstantin Khorenko)
- fs/ext3: add_dirent_to_buf() should return an error, not always 0 (Konstantin Khorenko)
- fs/ext3: check for CAP_SYS_ADMIN, not CAP_SYS_RESOURCE in ext3_ioctl() (Konstantin Khorenko)
- blk/ploop: Add BLKPG_GET_PARTITION operation (Kirill Tkhai)
- ext4/ploop: ask ploop about ENOSPC condition (Kirill Tkhai)
- block/ploop: export put_io_context_active() (Maxim V. Patlasov)
- vzstat: initial patch (Konstantin Khorenko) [PSBM-54928 PSBM-89684 VSTOR-16659]
- ve/mm/kstat: Port diff-ve-kstat-disable-interrupts-around-seqcount-write-lock (Vladimir Davydov) [PSBM-33650]
- sched: Account task_group::cpustat,taskstats,avenrun (Konstantin Khorenko) [PSBM-33642]
- core: Add glob_kstat, percpu kstat and account mm stat (Kirill Tkhai)
- ipv6/sit: account and don't WARN on ip_tunnel_prl structs allocation (Andrey Ryabinin) [PSBM-58330]
- net: fix false-positive deadlock detection for sk_receive_queue lock (Pavel Tikhomirov) [VSTOR-18951]
- tcp: sendpage should not handle Slab objects (Vasily Averin) [PSBM-90529]
- ms/udp: must lock the socket in udp_disconnect() (Eric Dumazet) [PSBM-57512]
- ms/neigh: disallow un-init_net to change thresh of neigh (Gao feng) [PSBM-59964 PSBM-63020]
- ms/net: fix creation adjacent device symlinks (Alexander Y. Fomichev) [PSBM-58300]
- ms/net: prevent of emerging cross-namespace symlinks (Alexander Y. Fomichev) [PSBM-58300 PSBM-58300]
- config.OpenVZ: add and enable INET_RAW_DIAG - RAW: socket monitoring interface (Konstantin Khorenko) [PSBM-51614]
- ms/net: sysctl: fix a kmemleak warning (Li RongQing) [PSBM-76924]
- ms/net: raw sockets diag interface compilation fix (Konstantin Khorenko)
- ms/ipv6: add IPV6_HDRINCL option for raw sockets (Hannes Frederic Sowa) [PSBM-51614]
- ms/net: ip, raw_diag—Use jump for exiting from nested loop (Cyrill Gorcunov) [PSBM-51614]
- ms/net: ip, diag: include net/inet_sock.h (Arnd Bergmann) [PSBM-51614]
- ms/net: ip, diag—Add diag interface for raw sockets (Cyrill Gorcunov) [PSBM-51614]

- rh/net: add recursion limit to GRO (sd@queasysnail) [PSBM-53507]
- net: Iterate only online cpus in __snmp6_fill_stats64() (Kirill Tkhai) [PSBM-50993]
- net: Allow pass cpu mask into snmp_fold_field{, 64}() (Kirill Tkhai)
- net: Add ipv6 statistics cpu notifier (Kirill Tkhai)
- ve/pid: Export kernel.pid_max via ve cgroup (Pavel Tikhomirov) [PSBM-48397]
- ve/netns: limit number of network namespaces per container (Andrei Vagin) [PSBM-49690]
- net: packet: rework rx/tx ring pages accounting (Vladimir Davydov) [PSBM-47873 PSBM-63654]
- ms/af_packet: remove a stray tab in packet_set_ring() (Dan Carpenter)
- ms/af_unix: move unix_mknod() out of bindlock (WANG Cong) [PSBM-56179]
- net/af_unix: charge buffers to kmemcg (Vladimir Davydov) [PSBM-34562]
- ms/net: sock: move →sk_shutdown out of bitfields (Andrey Ryabinin) [PSBM-47023]
- ms/netfilter: account ebt_table_info to kmemcg (Kirill Tkhai)
- ms/netfilter: ipset: fix ip_set_list allocation failure (Andrey Ryabinin) [PSBM-87338]
- ve/modules: allow NFS modules autoload in Containers (Stanislav Kinsburskiy) [PSBM-58178]
- ve/net/ip6tables: fix autoloading of the ip6table_raw module from CT (Andrey Ryabinin) [PSBM-50548 PSBM-54244]
- ve/netfilter/ipset: allow modules autoload (Pavel Tikhomirov) [PSBM-46102]
- ve/netlink: allow IPVS netlink messages to CT init usersns (Pavel Tikhomirov) [PSBM-63883]
- ve/net/ipvs: allow IPVS modules autoload in CT (Pavel Tikhomirov) [PSBM-63883]
- ve/net/vxlan: enable support and autoload in a container (Pavel Tikhomirov) [PSBM-53629]
- ve/kmod/ebtable: allow to autoload ebtable_* modules from inside a CT (Konstantin Khorenko) [PSBM-66435]
- ve/kmod/whitelist: allow dummy module autoloading (Pavel Tikhomirov) [PSBM-43329 PSBM-52061]
- ve/kmod/whitelist: allow overlay fs module autoloading (Dmitry Safonov) [PSBM-51043]
- ms/kmod: remove false positive warning "waiting module removal not supported: please upgrade" (Rusty Russell) [PSBM-27580 OVZ-6748 PSBM-47877]
- FIXME: to drop: ve/kernel/taint: Port diff-taint-message-enhanced-with-dump (Vladimir Davydov) [PSBM-25867 PSBM-33650 PSBM-52719]
- ve/kmod: Allow netfilter conntrack inside VE (Cyrill Gorcunov) [PSBM-47359]
- ve/kmod: Add modules to whitelist for c/r sake (Cyrill Gorcunov) [PSBM-46789 PSBM-46789]
- ve/kmod: list of allowed to autoload in CT modules (Dmitry Safonov) [PSBM-41216 PSBM-41216]
- ve/kmod: allow to autoload nf_log_ipv4[6] (Vladimir Davydov) [PSBM-38573]

- ve/kmod: Add rules for new {ip, ip6, x}table modules (Kirill Tkhai) [PSBM-33631]
- ve/kmod: Add rules for autoloading (new) nf_tables (Kirill Tkhai) [PSBM-33631]
- ve/kmod: Port autoloading from CT (Konstantin Khorenko) [PSBM-28910 PSBM-38666]
- ms/tty: n_hdlc: get rid of racy n_hdlc.tbuf (Alexander Popov) [PSBM-61962]
- ms/tty: n_hdlc, fix lockdep false positive (Jiri Slaby) [PSBM-61963]
- ms/tty: Fix unsafe ldisc reference via ioctl(TIOCGETD) (Peter Hurley) [PSBM-53939]
- ve/vtty: Don't free console mapping until no clients left (Cyrill Gorcunov) [PSBM-39463]
- ve/tty: vtty — Drop TTY_PINNED_BY_OTHER bit (Cyrill Gorcunov)
- ve/vtty: Don't close unread master peer if slave is nonzero (Cyrill Gorcunov) [PSBM-41985 PSBM-41672]
- ve/vtty: n_tty — Allow write on sole slave vtty peer (Cyrill Gorcunov) [PSBM-40740]
- ve/vtty: Don't zap termios fields on slave peer (Cyrill Gorcunov) [PSBM-41057]
- ve/vtty: Make indices to match pcs6 scheme (Cyrill Gorcunov) [PSBM-40088]
- ve/tty: Use ve_capable in vhangup syscall (Cyrill Gorcunov) [PSBM-40053]
- ve/tty: vt — Implement per VE support for console and terminals (Cyrill Gorcunov) [PSBM-34533 PSBM-34532 PSBM-34107 PSBM-32686 PSBM-32685 PSBM-80049]
- ve/tty: vt — Fix nil dereference due to race (Cyrill Gorcunov) [PSBM-37929]
- ve/vt: Drop debug vars from console code (Cyrill Gorcunov)
- ve/tty: vt — Add dummy stubs (Cyrill Gorcunov) [PSBM-34324]
- ve/tty: console — Enhance container console to support per VE ops (Cyrill Gorcunov) [PSBM-34357]
- ve/tty: vzcon — Add container dummy console support (Cyrill Gorcunov) [PSBM-32686]
- ve/tty: Disable /dev/console in VE environment (Cyrill Gorcunov) [PSBM-32686 PSBM-32728]
- ms/audit: fix a double fetch in audit_log_single_execve_arg() (Paul Moore)
- ve/audit: allow changing loginuid for VE root (Pavel Tikhomirov) [PSBM-64487]
- ms/x86/coredump: Always use user_regs_struct for compat_elf_gregset_t (Dmitry Safonov)
- ms/x86/signal: Remove bogus user_64bit_mode() check from sigaction_compat_abi() (Dmitry Safonov)
- ms/x86/signal: add SA_{X32,IA32}_ABI sa_flags (Dmitry Safonov) [PSBM-28517]
- ms/x86/ptrace: down with test_thread_flag(TIF_IA32) (Dmitry Safonov) [PSBM-28517]
- ms/x86/coredump: use pr_reg size, rather than TIF_IA32 flag (Dmitry Safonov) [PSBM-28517]
- memcg: charge kmem allocations accounted to UBC in PCS6 to memcg (Konstantin Khorenko) [PSBM-54928 PSBM-54928]
- mm/memcg: Don't enable interrupts too soon. (Andrey Ryabinin) [PSBM-76011]
- mm: issue panic() on bad page/pte bugs if panic_on_warn is set (Andrey Ryabinin) [PSBM-70168]

- ms/kasan: support panic_on_warn (Dmitry Vyukov) [PSBM-75786]
- ms/mm: mempool: kasan: don't pool mempool objects in quarantine (Andrey Ryabinin) [PSBM-73165]
- kasan: fix races in quarantine_remove_cache() (Dmitry Vyukov) [PSBM-69081]
- kasan: drain quarantine of memcg slab objects (Greg Thelen) [PSBM-69081]
- kasan: eliminate long stalls during quarantine reduction (Dmitry Vyukov) [PSBM-69081]
- kasan: update kasan_global for gcc 7 (Dmitry Vyukov) [PSBM-69081]
- ms/mm/mempolicy: Add cond_resched() in queue_pages_pte_range() (Andrey Ryabinin) [PSBM-79273]
- kasan: remove the unnecessary WARN_ONCE from quarantine.c (Alexander Potapenko) [PSBM-69081]
- x86, kasan, ftrace: Put APIC interrupt handlers into .irqentry.text (Alexander Potapenko) [PSBM-69081]
- kasan: avoid overflowing quarantine size on low memory systems (Alexander Potapenko) [PSBM-69081]
- kasan: improve double-free reports (Andrey Ryabinin) [PSBM-69081]
- mm/kasan: get rid of →state in struct kasan_alloc_meta (Andrey Ryabinin) [PSBM-69081]
- mm/kasan: get rid of →alloc_size in struct kasan_alloc_meta (Andrey Ryabinin) [PSBM-69081]
- mm/kasan, slub: don't disable interrupts when object leaves quarantine (Andrey Ryabinin) [PSBM-69081]
- mm/kasan: fix corruptions and false positive reports (Andrey Ryabinin) [PSBM-69081]
- lib/stackdepot.c: use __GFP_NOWARN for stack allocations (Kirill A. Shutemov) [PSBM-69081]
- mm, kasan: switch SLUB to stackdepot, enable memory quarantine for SLUB (Alexander Potapenko) [PSBM-69081]
- kasan/quarantine: fix bugs on qlist_move_cache() (Joonsoo Kim) [PSBM-69081]
- kasan: add newline to messages (Dmitry Vyukov) [PSBM-69081]
- mm, kasan: don't call kasan_krealloc() from ksize(). (Alexander Potapenko) [PSBM-69081]
- lib/stackdepot: avoid to return 0 handle (Joonsoo Kim) [PSBM-69081]
- lib/stackdepot.c: allow the stack trace hash to be zero (Alexander Potapenko) [PSBM-69081]
- mm: kasan: initial memory quarantine implementation (Alexander Potapenko) [PSBM-69081]
- mm, kasan: fix compilation for CONFIG_SLAB (Alexander Potapenko) [PSBM-69081]
- mm, kasan: stackdepot implementation. Enable stackdepot for SLAB (Alexander Potapenko) [PSBM-69081]
- arch, ftrace: for KASAN put hard/soft IRQ entries into separate sections (Alexander Potapenko) [PSBM-69081]

- mm, kasan: add GFP flags to KASAN API (Alexander Potapenko) [PSBM-69081]
- mm/mempool: avoid KASAN marking mempool poison checks as use-after-free (Matthew Dawson) [PSBM-69081]
- mm, kasan: SLAB support (Alexander Potapenko) [PSBM-69081]
- kasan: various fixes in documentation (Andrey Konovalov) [PSBM-69081]
- Documentation: kasan: fix a typo (Wang Long) [PSBM-69081]
- kasan: show gcc version requirements in Kconfig and Documentation (Joe Perches) [PSBM-69081]
- mm/memcg: sleep if mem_cgroup_force_empty_list() stumped on busy page (Andrey Ryabinin) [PSBM-70021 PSBM-76011]
- mm: Count list_lru_one::nr_items lockless (Kirill Tkhai) [PSBM-69296]
- mm: Make list_lru_node::memcg_lrus RCU protected (Kirill Tkhai)
- mm: Add rcu field to struct list_lru_memcg (Kirill Tkhai) [PSBM-69296]
- ms/mm/huge_memory.c: respect FOLL_FORCE/FOLL_COW for thp (Keno Fischer) [PSBM-70151]
- mm/memcg: reclaim only kmem if kmem limit reached (Andrey Ryabinin) [PSBM-69226]
- ms/mm: use sc → priority for slab shrink targets (Josef Bacik) [PSBM-69226]
- ms/x86, efi, kasan: #undef memset/memcpy/memmove per arch (Andrey Ryabinin)
- mm/memcg: reclaim memory on reaching kmem limit. (Andrey Ryabinin) [PSBM-68242 PSBM-70556]
- ms/mm: vmscan: fix IO/refault regression in cache workingset transition (Andrey Ryabinin) [PSBM-68029]
- ms/mm: vmscan: reduce size of inactive file list (Rik van Riel) [PSBM-68029]
- ms/vmscan: fix increasing nr_isolated incurred by putback unevictable pages (Jaewon Kim) [PSBM-68029]
- ms/mm: Follow-up for "larger stack guard gap, between vmas" (Hugh Dickins) [PSBM-67431]
- ms/mm: larger stack guard gap, between vmas (Hugh Dickins) [PSBM-67431]
- ms/memcg: make mem_cgroup_read_stat() unsigned (Greg Thelen) [PSBM-56256]
- ms/mm/list_lru.c: avoid error-path NULL pointer deref (Alexander Polakov) [PSBM-67300]
- ms/mm/memcontrol.c: fix the margin computation in mem_cgroup_margin() (Li RongQing) [PSBM-67076]
- mm/memcg, ub: fix overflow in mem_cgroup_apply_beancounter() (Andrey Ryabinin)
- ms/mm: prevent KASAN false positives in kmemleak (Dmitry Vyukov) [PSBM-66617]
- mm: fix false positive WARN on fs reenterence (Andrey Ryabinin) [PSBM-58279]
- ms/mm/memcontrol.c: fix order calculation in try_charge() (Andrey Ryabinin) [PSBM-62827]
- mm/memcg: don't release memcg → css too early (Andrey Ryabinin) [PSBM-62827]

- ve/memcg: enable kmem accounting for all cgroups (Vladimir Davydov) [PSBM-62827]
- mm/memcg: make __memcg_activate_kmem() to actually activate kmem (Andrey Ryabinin) [PSBM-62827]
- mm/memcg: fix kmem pages uncharging uncharge_batch() (Andrey Ryabinin) [PSBM-62827]
- ms/mm: memcg: fix race condition between memcg teardown and swapin (Johannes Weiner) [PSBM-62080]
- ms/mm, oom: remove task_lock protecting comm printing (David Rientjes) [PSBM-56178]
- mm/memcontrol: fix shmем accounting (Andrey Ryabinin) [PSBM-58984]
- ms/mm: memcontrol: only mark charged pages with PageKmemcg (Vladimir Davydov) [PSBM-51558]
- ms/mm: memcontrol: teach uncharge_list to deal with kmem pages (Vladimir Davydov) [PSBM-51558]
- ms/mm: memcontrol: revert use of root_mem_cgroup res_counter (Johannes Weiner) [PSBM-51558 PSBM-58993]
- ms/usersns, pidns: Force thread group sharing, not signal handler sharing. (Eric W. Biederman) [PSBM-44152]
- ms/mm: memcontrol: use page lists for uncharge batching (Johannes Weiner) [PSBM-51558]
- ms/mm: memcontrol: rewrite uncharge API (Johannes Weiner) [PSBM-51558 PSBM-70742]
- ms/mm: memcontrol: rewrite charge API (Johannes Weiner) [PSBM-51558 PSBM-70741]
- ms/mm: memcontrol: remove ordering between pc→mem_cgroup and PageCgroupUsed (Johannes Weiner) [PSBM-51558]
- ms/mm: memcontrol: catch root bypass in move precharge (Johannes Weiner) [PSBM-51558]
- ms/mm: memcontrol: simplify move precharge function (Johannes Weiner) [PSBM-51558]
- ms/mm: memcontrol: remove explicit OOM parameter in charge path (Michal Hocko) [PSBM-51558]
- ms/mm: memcontrol: retry reclaim for oom-disabled and __GFP_NOFAIL charges (Johannes Weiner) [PSBM-51558]
- ms/mm: huge_memory: use GFP_TRANSHUGE when charging huge pages (Johannes Weiner) [PSBM-51558]
- ms/mm: memcontrol: reclaim at least once for __GFP_NORETRY (Johannes Weiner) [PSBM-51558]
- ms/mm: memcontrol: rearrange charging fast path (Johannes Weiner) [PSBM-51558]
- ms/mm: memcontrol: fold mem_cgroup_do_charge() (Johannes Weiner) [PSBM-51558]
- ms/memcg: sanitize __mem_cgroup_try_charge() call protocol (Johannes Weiner) [PSBM-51558]
- ms/memcg: do not replicate get_mem_cgroup_from_mm in __mem_cgroup_try_charge (Michal Hocko) [PSBM-51558]
- ms/memcg: get_mem_cgroup_from_mm() (Johannes Weiner) [PSBM-51558]

- ms/memcg: remove unnecessary !mm check from try_get_mem_cgroup_from_mm() (Johannes Weiner) [PSBM-51558]
- ms/mm: memcg: push !mm handling out to page cache charge function (Johannes Weiner) [PSBM-51558]
- ms/mm: memcg: inline mem_cgroup_charge_common() (Johannes Weiner) [PSBM-51558]
- mm/memcontrol: res_counter → page_counter transition (Andrey Ryabinin) [PSBM-54816 PSBM-54816 PSBM-54816 PSBM-91915]
- mm: memcontrol: fix meminfo:Sunreclaim output in containers (Vladimir Davydov)
- memcg: add mem_cgroup_get/put helpers (Vladimir Davydov) [PSBM-38581 PSBM-37915 PSBM-17930 PSBM-26973]
- net/mm/packet: Pre-account maximum socket buffer into cg memory (v3) (Pavel Emelyanov) [PSBM-33584]
- mm/netlink: Make all in-cg memory be kmem accounted (Pavel Emelyanov) [PSBM-33584 PSBM-93761]
- net/mm/udp: Charge ingress buffers into cg memory (Pavel Emelyanov) [PSBM-33584 PSBM-39084]
- net/mm/tcp: Limit orphan sockets per-cg (Pavel Emelyanov) [PSBM-33584 PSBM-34215]
- net: resurrect parent_cg_proto() (Konstantin Khorenko) [PSBM-89047]
- net/mm/tcp: Charge socket buffers into cg memory (v3) (Pavel Emelyanov) [PSBM-33584]
- kernel/freezer: don't freeze stopped & about to be ptraced task (Andrey Ryabinin) [PSBM-40683]
- ms/freezer: Do not freeze tasks killed by OOM killer (Cong Wang) [PSBM-38758]
- oom: fix NULL ptr deref on oom if memory cgroup is disabled (Vladimir Davydov) [PSBM-43328]
- oom: make berserker more aggressive (Vladimir Davydov)
- oom: zap unused oom_scan_process_thread arguments (Vladimir Davydov)
- oom: do not ignore score of exiting tasks (Vladimir Davydov)
- mm: memcontrol: check more carefully if current is oom killed (Vladimir Davydov)
- oom: do not select child that has already been killed (Vladimir Davydov) [PSBM-40842]
- ve/memcg: do not ignore oom_guarantee for unlimited cgroups (Vladimir Davydov) [PSBM-44683]
- oom: resurrect berserker mode (Vladimir Davydov) [PSBM-42320 PSBM-38581 PSBM-37915 PSBM-17930 PSBM-26973 PSBM-17930]
- oom: pass points and overdraft to oom_kill_process (Vladimir Davydov) [PSBM-42320 PSBM-38581 PSBM-37915 PSBM-17930 PSBM-26973]
- oom: rework logic behind memory.oom_guarantee (Vladimir Davydov) [PSBM-42320 PSBM-38581 PSBM-37915 PSBM-17930 PSBM-26973 PSBM-37915]
- oom: drop OOM_SCAN_ABORT (Vladimir Davydov) [PSBM-42320 PSBM-38581 PSBM-37915]

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- oom: introduce oom timeout (Vladimir Davydov) [PSBM-42320 PSBM-38581 PSBM-37915 PSBM-17930 PSBM-26973 PSBM-38581]
- oom: rework locking design (Vladimir Davydov) [PSBM-42320 PSBM-38581 PSBM-37915 PSBM-17930 PSBM-26973]
- memcg: add lock for protecting memcg → oom_notify list (Vladimir Davydov) [PSBM-38581 PSBM-37915 PSBM-17930 PSBM-26973]
- exit: clear TIF_MEMDIE after exit_task_work (Vladimir Davydov) [PSBM-44683]
- ms/mm: oom_kill: clean up victim marking and exiting interfaces (Vladimir Davydov) [PSBM-26973]
- ms/oom: thaw the OOM victim if it is frozen (Vladimir Davydov) [PSBM-26973]
- ms/oom: add helpers for setting and clearing TIF_MEMDIE (Vladimir Davydov) [PSBM-26973]
- ms/mm, oom: remove unnecessary exit_state check (Vladimir Davydov) [PSBM-26973]
- oom: do not dump all tasks info on each oom kill (Vladimir Davydov)
- ms/vhost/net: extend device allocation to vmalloc (Michael S. Tsirkin) [PSBM-42199]
- ms/mm: replace vma → sharead.linear with vma → shared (Kirill A. Shutemov) [PSBM-52992]
- ms/rmap: drop support of non-linear mappings (Kirill A. Shutemov) [PSBM-52992]
- ms/selftests: add memfd/sealing page-pinning tests (Andrew Vagin) [PSBM-39834]
- ms/selftests: add memfd_create() + sealing tests (Andrew Vagin) [PSBM-39834]
- ms/shm: add memfd_create() syscall (Andrew Vagin) [PSBM-39834]
- prctl: remove one-shot limitation for changing exe link (Stanislav Kinsburskiy) [PSBM-26967 PSBM-47315]
- prctl: reduce requirements to exe link change (Stanislav Kinsburskiy) [PSBM-50867]
- ve/prctl_set_mm: allow to change mm content in ve (Stanislav Kinsburskiy) [PSBM-26967]
- ms/mm/slub.c: list_lock may not be held in some circumstances (David Rientjes)
- ms/memcg: rework memcg_update_kmem_limit synchronization (Vladimir Davydov) [PSBM-54816]
- mm: memcontrol: fix race between kmem uncharge and charge reparenting (Vladimir Davydov) [OVZ-6756 PSBM-54816 PSBM-62827 PSBM-62827]
- ms/mm: fix regression in remap_file_pages() emulation (Kirill A. Shutemov) [PSBM-52992]
- ms/mm: remove rest usage of VM_NONLINEAR and pte_file() (Kirill A. Shutemov) [PSBM-52992 PSBM-70740]
- ms/proc: drop handling non-linear mappings (Kirill A. Shutemov) [PSBM-52992]
- ms/mm: drop vm_ops → remap_pages and generic_file_remap_pages() stub (Kirill A. Shutemov) [PSBM-52992 PSBM-54928]
- ms/mm: drop support of non-linear mapping from fault codepath (Kirill A. Shutemov)

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- ms/mm: drop support of non-linear mapping from unmap/zap codepath (Kirill A. Shutemov) [PSBM-52992]
- ms/mm: replace remap_file_pages() syscall with emulation (Kirill A. Shutemov) [PSBM-52992]
- mm: memcontrol: add memory.numa_migrate file (Vladimir Davydov) [PSBM-50875 PSBM-76970]
- mm/page_alloc: don't return freed pages from alloc_pages() (Andrey Ryabinin) [PSBM-49918]
- mm: default collapse huge pages if there's at least 1/4th ptes mapped (Vladimir Davydov) [PSBM-48885]
- mm: memcontrol: fix race between user memory reparent and charge (Vladimir Davydov) [PSBM-49117]
- config: disable numa balancing by default (Vladimir Davydov) [PSBM-49131]
- mm: vmscan: never wait on writeback pages (Vladimir Davydov) [PSBM-48115]
- ms/mm: memcontrol: reclaim when shrinking memory.high below usage (Johannes Weiner) [PSBM-48546]
- mm: charge/uncharge kmemcg from generic page allocator paths (Vladimir Davydov)
- mm: memcontrol: drop memcg_kmem_commit_charge (Vladimir Davydov)
- arch: x86: don't charge kernel page tables to kmemcg (Vladimir Davydov)
- ms/x86/kasan: instrument user memory access API (Andrey Ryabinin)
- ms/mm/kasan: add API to check memory regions (Andrey Ryabinin)
- ms/mm/kasan: print name of mem[set,copy,move]() caller in report (Andrey Ryabinin)
- ms/kernel/sysrq: restore touch_nmi_watchdog() in show_state_filter() (Andrey Ryabinin) [PSBM-47486]
- kernel/sysrq: reset watchdog on all cpus while during sysrq-w (Andrey Ryabinin) [PSBM-47486]
- ms/dcache: lift the "already marked killed" case into shrink_dentry_list() (Al Viro)
- ms/dcache: don't need rcu in shrink_dentry_list() (Miklos Szeredi) [PSBM-87815]
- ve/mm: introduce min threshold for dcache (Vladimir Davydov) [PSBM-34161]
- dcache: zap dentry_lru_del() (Vladimir Davydov)
- ms/dcache: don't remove from shrink list in select_collect() (Al Viro) [PSBM-44210]
- ms/dcache: dentry_kill(): don't try to remove from shrink list (Vladimir Davydov) [PSBM-44210]
- rh/memcg: make mem_cgroup_sum_all_stat_events() iterate possible cpus instead of online (Vasily Averin)
- ms/memcg: make mem_cgroup_read_{stat|event}() iterate possible cpus instead of online (Tejun Heo)

- mm: memcontrol: account shmem pages (Vladimir Davydov)
- arch: x86: fix accounting page tables to kmemcg (Vladimir Davydov)
- mm/vmalloc: add v[mz]alloc_account helpers (Vladimir Davydov)
- mm: memcontrol: add swapin/out stats (Vladimir Davydov) [PSBM-46104]
- ms/mm: slab: free kmem_cache_node after destroy sysfs file (Dmitry Safonov) [PSBM-43010]
- ms/slub: do not assert not having lock in removing freed partial (Steven Rostedt) [PSBM-43010]
- ms/slub: use lockdep_assert_held (Peter Zijlstra) [PSBM-43010]
- memcg: ignore memory.low for cgroups w/o tasks (Vladimir Davydov) [PSBM-44192]
- ms/vmscan: do not force-scan file lru if its absolute size is small (Vladimir Davydov)
- memcg: never fail kmem allocations (Vladimir Davydov)
- ub/mm/writeback: do not check dirty limits for ub0 (Vladimir Davydov)
- ve/mm/page-writeback: Introduce per-CT dirty memory limit (Andrey Ryabinin) [PSBM-33841]
- ve/mm: allow container's root to ignore mlock limit (Andrey Ryabinin) [PSBM-41405]
- ms/kasan: fix kmemleak false-positive in kasan_module_alloc() (Andrey Ryabinin) [PSBM-41328]
- ms/include/linux/kmemleak.h: needs slab.h (Andrew Morton)
- ve/mm,oom: print information about ve of killed task (Andrey Ryabinin) [PSBM-40610]
- ms/mmu-notifier: add clear_young callback (Vladimir Davydov) [PSBM-32460]
- ms/proc: add kpagecgroup file (Vladimir Davydov) [PSBM-32460]
- ms/memcg: add page_cgroup_ino helper (Vladimir Davydov) [PSBM-32460]
- ms/x86/mm, kasan: Silence KASAN warnings in get_wchan() (Andrey Ryabinin)
- ms/x86/process: Unify 32bit and 64bit implementations of get_wchan() (Thomas Gleixner)
- ms/x86/process: Add proper bound checks in 64bit get_wchan() (Thomas Gleixner)
- ms/x86/asm/entry: Create and use a 'TOP_OF_KERNEL_STACK_PADDING' macro (Andrey Ryabinin)
- memcg: do not allow to disable oom from inside a container (Vladimir Davydov)
- ms/memcg: change oom_info_lock to mutex (Michal Hocko)
- ms/memcg, oom: lock mem_cgroup_print_oom_info (Michal Hocko)
- memcg: do not loop in mem_cgroup_reclaim if killed (Vladimir Davydov)
- kexec, kasan: increase KEXEC_AUTO_RESERVED_SIZE under CONFIG_KASAN=y (Andrey Ryabinin) [PSBM-39339 PSBM-56847]
- kasan: introduce single-shot mode and enable it by default (Andrey Ryabinin) [PSBM-39339]
- kasan: always taint kernel on report. (Andrey Ryabinin) [PSBM-39339]

- kasan: update reported bug types for not user nor kernel memory accesses (Andrey Konovalov) [PSBM-39339]
- mm, slub, kasan: enable user tracking by default. (Andrey Ryabinin) [PSBM-39339]
- arch: x86: charge page tables to memcg/kmem (Vladimir Davydov) [PSBM-33840 PSBM-34562]
- gfp: add `__get_free_kmem_pages` helper (Vladimir Davydov)
- gfp: inc `__GFP_BITS_SHIFT` (Konstantin Khorenko)
- pipe: uncharge page on `→ steal` (Vladimir Davydov)
- fs: account anon pipe buffers to memcg/kmem (Vladimir Davydov) [PSBM-39052]
- vmalloc: account to memcg/kmem (Vladimir Davydov) [PSBM-33839]
- mm: vmscan: fix `do_try_to_free_pages()` livelock (Lisa Du) [PSBM-35155]
- mm: vmscan: fix the page state calculation in `too_many_isolated` (Vinayak Menon) [PSBM-35155]
- config.OpenVZ: add KASan support for debug kernels (Konstantin Khorenko) [PSBM-39339]
- ms/x86/kasan: Add message about KASAN being initialized (Andrey Ryabinin) [PSBM-26429]
- ms/x86/kasan: Fix boot crash on AMD processors (Andrey Ryabinin) [PSBM-26429]
- ms/x86/kasan: Flush TLBs after switching CR3 (Andrey Ryabinin) [PSBM-26429]
- ms/x86/kasan: Fix KASAN shadow region page tables (Andrey Ryabinin) [PSBM-26429]
- ms/kasan: Makefile: shut up warnings if `CONFIG_COMPILE_TEST=y` (Andrey Ryabinin) [PSBM-26429]
- ms/mm/mempool.c: kasan: poison mempool elements (Andrey Ryabinin) [PSBM-26429]
- ms/mm, mempool: poison elements backed by slab allocator (Andrey Ryabinin) [PSBM-26429]
- ms/kasan, module: move `MODULE_ALIGN` macro into `<linux/moduleloader.h>` (Andrey Ryabinin) [PSBM-26429]
- ms/kasan, module, vmalloc: rework shadow allocation for modules (Andrey Ryabinin) [PSBM-26429]
- ms/kasan: enable instrumentation of global variables (Andrey Ryabinin) [PSBM-26429]
- ms/kernel: add support for `.init_array.*` constructors (Andrey Ryabinin) [PSBM-26429]
- ms/mm: vmalloc: pass additional `vm_flags` to `__vmalloc_node_range()` (Andrey Ryabinin) [PSBM-26429]
- ms/mm: vmalloc: add flag preventing guard hole allocation (Andrey Ryabinin) [PSBM-26429]
- ms/kasan: enable stack instrumentation (Andrey Ryabinin) [PSBM-26429]
- ms/x86_64: kasan: add interceptors for `memset/memmove/memcpy` functions (Andrey Ryabinin) [PSBM-26429]
- ms/lib: add kasan test module (Andrey Ryabinin) [PSBM-26429]

- ms/kmemleak: disable kasan instrumentation for kmemleak (Andrey Ryabinin) [PSBM-26429]
- ms/fs: dcache: manually unpoison dname after allocation to shut up kasan's reports (Andrey Ryabinin) [PSBM-26429]
- ms/mm: slub: add kernel address sanitizer support for slub allocator (Andrey Ryabinin) [PSBM-26429]
- ms/mm: slub: introduce metadata_access_enable()/metadata_access_disable() (Andrey Ryabinin) [PSBM-26429]
- ms/mm: slub: share object_err function (Andrey Ryabinin) [PSBM-26429]
- ms/mm: slub: introduce virt_to_obj function (Andrey Ryabinin) [PSBM-26429]
- ms/mm: page_alloc: add kasan hooks on alloc and free paths (Andrey Ryabinin) [PSBM-26429]
- ms/x86_64: add KASan support (Andrey Ryabinin) [PSBM-26429]
- ms/kasan: disable memory hotplug (Andrey Ryabinin) [PSBM-26429]
- ms/kasan: add kernel address sanitizer infrastructure (Andrey Ryabinin) [PSBM-26429]
- ms/mm: slub: SLUB_DEBUG=n: use the same alloc/free hooks as for SLUB_DEBUG=y (Andrey Ryabinin) [PSBM-26429]
- ms/mm: move slab related stuff from util.c to slab_common.c (Andrey Ryabinin) [PSBM-26429]
- ms/MIPS: Use NUMA_NO_NODE instead of -1 for node ID. (Andrey Ryabinin) [PSBM-26429]
- ms/mm/vmalloc: use wrapper function get_vm_area_size to caculate size of vm area (Andrey Ryabinin) [PSBM-26429]
- ms/mm/vmscan: never isolate more pages than necessary (Vladimir Davydov) [PSBM-35275]
- mm/compaction: fix too_many_isolated() (Konstantin Khorenko)
- mm: Port diff-mm-add-sysctl-vm.force_scan_thresh (Vladimir Davydov) [PSBM-29968 PSBM-33640 PSBM-77547]
- ms/headers: Support GCC 5 (Cyrill Gorcunov)
- ms/memcg: issue memory.high reclaim after refilling percpu stock (Vladimir Davydov)
- ms/memcg: do not call high reclaim if !_GFP_WAIT (Konstantin Khorenko)
- ms/memcg: port memory.high (Vladimir Davydov)
- memcg: count oom kills (Vladimir Davydov) [PSBM-20089]
- memcg: add oom_guarantee (Vladimir Davydov) [PSBM-20089]
- ms/mm/memcg: do not use vmalloc for mem_cgroup allocations (Vladimir Davydov)
- mm/memcg: remove memcg from kmemcg_sharers list on css free (Vladimir Davydov)
- ms/mm/vmscan.c: don't forget to free shrinker → nr_deferred (Vladimir Davydov)
- tswap: Add optimization for zero-filled pages (Kirill Tkhai) [PSBM-66499]

- ve/mm/cleancache: count only successful put in the cleancache_puts counter (Andrey Ryabinin) [PSBM-63964]
- cleancache: avoid pointless cleancache_invalidate_inode() calls. (Andrey Ryabinin) [PSBM-63908]
- fs/cleancache: fix data invalidation in the cleancache during direct_io (Andrey Ryabinin) [PSBM-63908]
- meminfo: show size of tswap (Andrey Ryabinin)
- meminfo: show size of tcache (Vladimir Davydov)
- mm: transcendent swap cache (Vladimir Davydov) [PSBM-32063 PSBM-72584 PSBM-77015]
- mm/frontswap: invalidate expired data on a dup-store failure (Vladimir Davydov) [PSBM-34269 PSBM-34269]
- memcg: allow to disable cleancache per memcg (Vladimir Davydov) [PSBM-34163]
- mm: introduce transcendent file cache (Vladimir Davydov) [PSBM-31757 PSBM-72584 PSBM-77015 PSBM-77154 PSBM-78354]
- mm/vmscan: Introduce PF_MEMCG_RECLAIM task flag to identify memcg reclaim. (Andrey Ryabinin)
- ms/cleancache: remove limit on the number of cleancache enabled filesystems (Vladimir Davydov) [PSBM-31915]
- ms/cleancache: forbid overriding cleancache_ops (Vladimir Davydov) [PSBM-31915]
- ms/cleancache: zap uuid arg of cleancache_init_shared_fs (Vladimir Davydov) [PSBM-31915]
- ms/fs/ocfs2: copy fs uuid to superbblock (Vladimir Davydov) [PSBM-31915]
- ms/memcg: port low limit (Vladimir Davydov) [PSBM-31752]
- ms/slub: make dead caches discard free slabs immediately (Vladimir Davydov) [PSBM-25018]
- ms/slub: never fail to shrink cache (Vladimir Davydov) [PSBM-25018]
- ms/slub: fix off by one in number of slab tests (Vladimir Davydov) [PSBM-25018]
- ms/memcg: reparent list_lrus and free kmemcg_id on css offline (Vladimir Davydov) [PSBM-25018]
- ms/list_lru: add helpers to isolate items (Vladimir Davydov) [PSBM-25018]
- ms/memcg: free memcg_caches slot on css offline (Vladimir Davydov) [PSBM-25018]
- ms/slab: link memcg caches of the same kind into a list (Vladimir Davydov) [PSBM-25018]
- ms/slab: embed memcg_cache_params to kmem_cache (Vladimir Davydov) [PSBM-25018]
- ms/mm/slab_common: move kmem_cache definition to internal header (Vladimir Davydov) [PSBM-25018]
- ms/fs: make shrinker memcg aware (Vladimir Davydov) [PSBM-25018]
- ms/list_lru: introduce per-memcg lists (Vladimir Davydov) [PSBM-25018]
- ms/list_lru: organize all list_lrus to list (Vladimir Davydov) [PSBM-25018]

- ms/list_lru: get rid of → active_nodes (Vladimir Davydov) [PSBM-25018]
- ms/memcg: add rwsem to synchronize against memcg_caches arrays relocation (Vladimir Davydov) [PSBM-25018]
- ms/memcg: rename some cache id related variables (Vladimir Davydov) [PSBM-25018]
- ms/vmscan: per memory cgroup slab shrinkers (Vladimir Davydov) [PSBM-25018]
- ms/fs: consolidate {nr,free}_cached_objects args in shrink_control (Vladimir Davydov) [PSBM-25018]
- ms/list_lru: introduce list_lru_shrink_{count,walk} (Vladimir Davydov) [PSBM-25018]
- ms/mm: vmscan: invoke slab shrinkers from shrink_zone() (Konstantin Khorenko) [PSBM-25018]
- ms/memcg: zap memcg_slab_caches and memcg_slab_mutex (Vladimir Davydov) [PSBM-25018]
- ms/slub: use sysfs'es release mechanism for kmem_cache (Vladimir Davydov) [PSBM-25018]
- ms/slub: fix memcg_propagate_slab_attrs (Vladimir Davydov) [PSBM-25018]
- ms/memcg: zap memcg_name argument of memcg_create_kmem_cache (Vladimir Davydov) [PSBM-25018]
- ms/memcg: zap *memcg*{charge,uncharge}_slab (Vladimir Davydov) [PSBM-25018]
- ms/memcg: fix possible use-after-free in memcg_kmem_get_cache() (Vladimir Davydov) [PSBM-25018]
- ms/memcg: use generic slab iterators for showing slabinfo (Vladimir Davydov) [PSBM-25018]
- ms/slab: print slabinfo header in seq show (Vladimir Davydov) [PSBM-25018]
- ms/mm/slab: Give s_next and s_stop slab-specific names (Vladimir Davydov) [PSBM-25018]
- ms/mm/slab: Sharing s_next and s_stop between slab and slub (Vladimir Davydov) [PSBM-25018]
- ms/memcg: zap memcg_can_account_kmem (Vladimir Davydov) [PSBM-25018]
- ms/memcg: move memcg_update_cache_size to slab_common.c (Vladimir Davydov)
- ms/memcg: don't call memcg_update_all_caches if new cache id fits (Vladimir Davydov)
- ms/memcg: move memcg_{alloc,free}_cache_params to slab_common.c (Vladimir Davydov)
- ms/mm: vmscan: remove shrink_control arg from do_try_to_free_pages() (Vladimir Davydov)
- ms/mm: vmscan: move call to shrink_slab() to shrink_zones() (Vladimir Davydov)
- ms/mm: vmscan: respect NUMA policy mask when shrinking slab on direct reclaim (Vladimir Davydov)
- ms/mm: vmscan: call NUMA-unaware shrinkers irrespective of nodemask (Vladimir Davydov)
- ms/slab: delete cache from list after __kmem_cache_shutdown succeeds (Vladimir Davydov)

- ms/memcg: cleanup kmem cache creation/destruction functions naming (Vladimir Davydov)
- ms/memcg: memcg_kmem_create_cache: make memcg_name_buf statically allocated (Vladimir Davydov)
- ms/memcg: get rid of memcg_create_cache_name (Vladimir Davydov)
- ms/memcg, slab: merge memcg_{bind,release}_pages to memcg_{un}charge_slab (Vladimir Davydov)
- ms/mm/sl[aou]b: Move kmallocXXX functions to common code (Christoph Lameter)
- ms/slob: Rework #ifdeffery in slab.h (Christoph Lameter)
- ms/sl[au]b: charge slabs to kmemcg explicitly (Vladimir Davydov)
- ms/slub: rework sysfs layout for memcg caches (Vladimir Davydov)
- ms/slub: adjust memcg caches when creating cache alias (Vladimir Davydov)
- ms/memcg, kmem: use is_root_cache instead of hard code (Qiang Huang)
- ms/memcg: don't need to free memcg via RCU or workqueue (Li Zefan)
- ms/memcg: kill memcg refcnt (Li Zefan)
- ms/memcg: don't need to get a reference to the parent (Li Zefan)
- ms/memcg: use css_get/put for swap memcg (Li Zefan)
- ms/memcg: use css_get/put when charging/uncharging kmem (Li Zefan)
- ms/memcg: use css_get() in sock_update_memcg() (Li Zefan)
- ms/vfs: fix dentry LRU list handling and nr_dentry_unused accounting (Linus Torvalds) [PSBM-83551]
- ms/fs/super.c: fix lru_list leak for real (Al Viro)
- ms/super: fix for destroy lrus (Glauber Costa)
- ms/list_lru: dynamically adjust node arrays (Glauber Costa) [PSBM-42319]
- mm: workingset: convert shrinker to count/scan API (Vladimir Davydov)
- ms/fs: convert inode and dentry shrinking to be node aware (Dave Chinner)
- ms/list_lru: remove special case function list_lru_dispose_all. (Glauber Costa)
- ms/dcache: convert to use new lru list infrastructure (Dave Chinner)
- ms/shrinker: Kill old → shrink API. (Dave Chinner)
- md/raid5: use new shrinker API (Dmitry Safonov)
- ms/shrinker: convert remaining shrinkers to count/scan API (Dave Chinner)
- ms/hugepage: convert huge zero page shrinker to new shrinker API (Glauber Costa)
- ms/drivers: convert shrinkers to new count/scan API (Vladimir Davydov) [PSBM-34838 PSBM-42317]
- ms/fs: convert fs shrinkers to new scan/count API (Vladimir Davydov) [PSBM-34838]
- ms/vmscan: per-node deferred work (Glauber Costa)

- ms/shrinker: add node awareness (Dave Chinner)
- ms/inode: move inode to a different list inside lock (Glauber Costa)
- ms/inode: convert inode lru list to generic lru list code. (Dave Chinner)
- ms/shrinker: convert superblock shrinkers to new API (Dave Chinner) [OVZ-6646 PSBM-42760]
- ms/mm: new shrinker API (Dave Chinner)
- ms/dcache: remove dentries from LRU before putting on dispose list (Dave Chinner) [PSBM-83551]
- ms/dentry: move to per-sb LRU locks (Dave Chinner)
- ms/super: fix calculation of shrinkable objects for small numbers (Glauber Costa)
- mm: make task with TIF_MEMDIE die faster (Kirill Tkhai)
- mm: add independed bio pool for swapout (Kirill Tkhai) [PSBM-14619]
- mm/fuse/oom: Show writeback_temp stats in oom message (Maxim Patlasov)
- mm/swap: do not uncharge on reuse_swap_page (Vladimir Davydov)
- mm/swap: comment about managing swap inside a CT (Konstantin Khorenko)
- mm: Do not leak node data to CT's /proc/vmstat (Kirill Tkhai)
- mm: Add oom_group to set custom oom_score_adj (Kirill Tkhai)
- rh/mm: Drop off Live Kernel Self Migration (TRACK_DIRTY_PAGES) (Cyrill Gorcunov)
- ms/mm: softdirty: keep bit when zapping file pte (Peter Feiner)
- ms/mm: softdirty: clear VM_SOFTDIRTY flag inside clear_refs_write() instead of clear_soft_dirty() (Cyrill Gorcunov)
- ms/kmemcg: don't allocate extra memory for root memcg_cache_params (Andrey Vagin)
- ms/mm: save soft-dirty bits on swapped pages (Cyrill Gorcunov)
- dummy: add dummy modules for service vz init script (Konstantin Khorenko) [PSBM-31333 PSBM-20104 PSBM-31333]
- vzlist: add vzlist from 2.6.32-x as is (Dmitry Guryanov) [PSBM-20095 PSBM-20095 PSBM-20095 PSBM-19217]
- vznetstat: Port diff-vznetstat-support-of-resetting-of-traffic-statistics-on-running-CTs (Vladimir Davydov) [PSBM-21243 PSBM-21243 PSBM-33650]
- vznetstat: apply vznetstat patches from 2.6.32 as is (Stanislav Kinsburskiy) [PSBM-20094 PSBM-20094 PSBM-32912 PSBM-20094 PSBM-32072 PSBM-19217 PSBM-33650 PSBM-34837 PSBM-35011 PSBM-35178 PSBM-35178 PSBM-52219 PSBM-79502]
- ub: add heuristic check for memory overcommit (Stanislav Kinsburskiy) [PSBM-45695 PSBM-48891]
- ub: show swapin/out in /proc/bc/<bc>/vmaux (Vladimir Davydov) [PSBM-46104]
- ve/fs/sync: per containter sync and syncfs (Stanislav Kinsburskiy) [PSBM-39583 PSBM-39583 PSBM-44125 PSBM-44125 PSBM-44684]

- ub/fs/writeback: per-CT fs writeback (Andrey Ryabinin) [PSBM-33841 PSBM-43375]
- ubc: proc show stats in ve user ns (Pavel Tikhomirov) [PSBM-40433]
- ub: sync exec_ub on fork (Vladimir Davydov) [PSBM-54928]
- ub/fs: resurrect sync accounting (Vladimir Davydov) [PSBM-34007]
- ub/fs: account writeback io (Stanislav Kinsburskiy) [PSBM-34007 PSBM-34007]
- ub: resurrect iostat and ioprio reporting (Stanislav Kinsburskiy) [PSBM-34007]
- ub: resurrect ioprio_set IOPRIO_WHO_UBC (Vladimir Davydov) [PSBM-34007]
- ub/memcg: introduce ub_total_pages (Stanislav Kinsburskiy) [PSBM-33849 PSBM-34035 PSBM-47147]
- mm/bc: Port diff-bc-shmem-fix-accounting-on-error-path (Vladimir Davydov) [PSBM-22198 PSBM-33637]
- ub/netfilter: account x_tables to ub (Vladimir Davydov) [PSBM-20089]
- ubc: initial patch (Konstantin Khorenko) [PSBM-20665 PSBM-20540 PSBM-24622 PSBM-28377 PSBM-26039 PSBM-15568 PSBM-20089 PSBM-39435 PSBM-20089 PSBM-20089 PSBM-29895 PSBM-31973 PSBM-33729 PSBM-33732 PSBM-20089 PSBM-20089 PSBM-20089 PSBM-33487 PSBM-20089 PSBM-20089 PSBM-20089 PSBM-20089 PSBM-28682 PSBM-31006 PSBM-33637 PSBM-34035 PSBM-34035 PSBM-34035 PSBM-34007 PSBM-34007 PSBM-34007 PSBM-39327 PSBM-52219 PSBM-86044 PSBM-86044]
- ub: Track task mm ub (Kirill Tkhai)
- ub: Execute posix timers in ub0 (Kirill Tkhai)
- ub: Add dirty page accounting (Kirill Tkhai)
- ub: Set ub0 to do softirq (Kirill Tkhai)
- ub: Account siginfo (Kirill Tkhai)
- ub: Show task ub info in /proc/[pid]/status etc (Kirill Tkhai)
- ve/proc: Port diff-ve-proc-add-buffers-field-to-meminfo (Vladimir Davydov) [PSBM-19448 PSBM-34444 PSBM-33650]
- ub: Split meminfo_proc_show() (Kirill Tkhai)
- ub: Add address_space::dirtied_ub (Kirill Tkhai)
- ub: Account file struct (Kirill Tkhai)
- ub: Show ub memory on sysrq mem show (Kirill Tkhai)
- ub: Add flock accounting (Kirill Tkhai)
- ub: Add pty accounting (Kirill Tkhai)
- ms/netlink: fix an use-after-free issue for nlk groups (Vasily Averin) [PSBM-71747]
- ve/netlink: allow messages with family PF_BRIDGE type RTM_xxxNEIGH in CT (Pavel Tikhomirov) [PSBM-53629]
- netlink/diag: report flags for netlink sockets (Andrey Vagin) [PSBM-28386]

- netlink: add an ability to restore messages in a receive queue (Andrey Vagin) [PSBM-28386]
- netlink: allow to set peeking offset for sockets (Stanislav Kinsburskiy) [PSBM-28386 PSBM-48484 PSBM-28386 PSBM-57921]
- net: Add dependence xt_socket match on nf_conntrack_ipv4 (Kirill Tkhai) [PSBM-69269]
- net: Mark conntrack users in nftables (Kirill Tkhai) [PSBM-51050]
- net: Mark conntrack users in xtables (Kirill Tkhai) [PSBM-51050 PSBM-54823 PSBM-54823]
- net: Primitives to enable conntrack allocation (Stanislav Kinsburskiy) [PSBM-51050 PSBM-54823 PSBM-56500]
- ve/nf_conntrack: expose "nf_conntrack_events*" in containers (Stanislav Kinsburskiy) [PSBM-40044]
- ve/nf_conntrack: expose "nf_conntrack_acct" in containers (Stanislav Kinsburskiy) [PSBM-40044]
- ve/nf_conntrack: expose "nf_conntrack_max" in containers (Stanislav Kinsburskiy) [PSBM-40044]
- ve/nf_conntrack: allow expose of privileged sysctl inside containers (Stanislav Kinsburskiy) [PSBM-40044 PSBM-40044 PSBM-54530]
- ms/netfilter: Restore xt_connlimit version 0 (Kirill Tkhai) [PSBM-40186]
- config.OpenVZ: enable netfilter module xt_match_wdog_tmo (Konstantin Khorenko) [PSBM-40736]
- ms/netfilter: Allow xt_owner in any user namespace (Eric W. Biederman) [PSBM-69409]
- netfilter: always create netfilter per-net objects for ipv4/ipv6 (Stanislav Kinsburskiy) [PSBM-68767]
- netfilter: always create per-net "filter" tables objects (Stanislav Kinsburskiy) [PSBM-58574]
- netfilter: check per-ve netfilter status on actual operation (Stanislav Kinsburskiy) [PSBM-58574]
- netfilter: ve_ippt_permitted() helper introduced (Stanislav Kinsburskiy) [PSBM-58574]
- ms/bridge: drop netfilter fake rtable unconditionally (Florian Westphal) [PSBM-64412]
- ms/netfilter: x_tables: avoid warn and OOM killer on vmalloc call (Marcelo Ricardo Leitner) [PSBM-62203]
- ms/netfilter: nfnetlink: correctly validate length of batch messages (Phil Turnbull) [PSBM-57511]
- netfilter/x_tables: account entry offsets allocations (Andrey Ryabinin) [PSBM-54407]
- ve/netfilter: rectify ebtlog inside CT (Dmitry Safonov) [PSBM-54183]
- ve/netfilter: rectify nflog inside CT (Dmitry Safonov) [PSBM-54183 PSBM-83551]
- ve/netfilter: use ve_printk for BUGPRINT in ebttables (Dmitry Safonov) [PSBM-56707]
- ms/netfilter: x_tables: check for bogus target offset (Cyrill Gorcunov) [PSBM-49001]
- ve/netfilter: get UID and GID from container user ns on rule match (Stanislav Kinsburskiy)

[PSBM-43609]

- ve/netfilter: allow adding matches from the container initial user namespace (Stanislav Kinsburskiy) [PSBM-43609]
- ve/netfilter: ve_printk for "nf_contrack: table full" (Vasily Averin)
- ve/netfilter: Check for permissions while looking for target and match (Kirill Tkhai) [PSBM-28910]
- ve/netfilter/cred: add ve_capable to check capabilities relative to the current VE (v2) (Konstantin Khorenko) [PSBM-39077]
- ve/netfilter: Add autoloading of sockopt modules (Kirill Tkhai) [PSBM-28910]
- ve/netfilter: Implement pernet net → ct.max / virtualize "nf_contrack_max" sysctl (Kirill Tkhai) [PSBM-18322]
- ve/netfilter: Implement pernet expect_max / virtualize "net.netfilter.nf_contrack_expect_max" sysctl (Konstantin Khorenko) [PSBM-18322]
- ve/netfilter: Add pernet permission checks in ip_tables (Kirill Tkhai) [PSBM-18322 PSBM-27181 PSBM-34192 PSBM-34657]
- ve/netfilter: Implement net_ipt_permitted() etc (Kirill Tkhai) [PSBM-18322 PSBM-31451]
- ve/netfilter: Implement ip_contrack_disable_ve0 module option (Stanislav Kinsburskiy) [PSBM-18322]
- ve/netfilter: Restore revision 0 "contrack" match support (Kirill Tkhai) [PSBM-18322 PSBM-51365]
- ve/netfilter: Restore revision 0 "owner" match support (Kirill Tkhai) [PSBM-18322]
- ve/netfilter: MARK — drop off @table entity to support rhel5 containers, v2 (Kirill Tkhai) [PSBM-30390]
- ve/netfilter: Restore revision 0 "connmark" match / "CONNMARK" target support (Kirill Tkhai) [PSBM-18322 PSBM-51365]
- ve/netfilter: Restore revision 0 "TOS" target support (Kirill Tkhai) [PSBM-18322]
- ve/netfilter: Restore revision 0 "tos" match support (Kirill Tkhai) [PSBM-18322]
- ve/netfilter: Restore revision 0 "mark" match and "MARK" target support (Stanislav Kinsburskiy) [PSBM-18322 PSBM-51365]
- ve/netfilter: Restore revision 0 "iprange" match support (Kirill Tkhai) [PSBM-18322]
- ve/netfilter: Basic ve transformations (Stanislav Kinsburskiy) [PSBM-18322 PSBM-39077 PSBM-98211 PSBM-103071]
- ms/netfilter: Add {ipt,ip6t}_osf aliases for xt_osf (Kirill Tkhai) [PSBM-33929]
- ve/futex/timeout: adjust futex timeout to absolute (Kirill Tkhai) [PSBM-14471]
- ve: Use @real_start_timespec in uptime_proc_show (Cyrill Gorcunov) [PSBM-41406]
- ve: Add interface for @start_timespec and @real_start_timespec adjustment (Cyrill Gorcunov) [PSBM-41311 PSBM-41406]
- timers should not get negative argument (Vasily Averin) [PSBM-48475]

- ve/posix-timers: reference ve monotonic clock from ve start (v2) (Kirill Tkhai) [PSBM-13860 PSBM-34017 PSBM-18284 PSBM-18284]
- radix-tree: save previous gfp_t tags in radix tree for dirty memory accounting (Konstantin Khorenko) [PSBM-18056 PSBM-27696 PSBM-83551 PSBM-83551 PSBM-100579]
- VE/sysrq-trigger: make it VE-namespace aware (Stanislav Kinsburskiy) [PSBM-20664]
- config: enable BCACHE as a module" (Konstantin Khorenko) [PSBM-55594 PSBM-79461]
- bcache: check correctly for bcache cgroup subsystem presence (Konstantin Khorenko)
- config.OpenVZ: OpenVZ related config options are added (Stanislav Kinsburskiy) [PSBM-32460 PSBM-34741]
- mpi: export arithmetic functions required for in-kernel DSA implementation (Konstantin Khorenko)
- ms/mpi: revert "Revert "crypto: GnuPG based MPI lib - (Stanislav Kinsburskiy)
- ms/mpi: revert "Remove unused code from MPI library" (Dmitry Kasatkin)
- ve/kthread: khelper kthread in a container introduced (Stanislav Kinsburskiy)
- ve/kthread: introduce kthread_run_ve() helper (Stanislav Kinsburskiy)
- ve/kthread: kthreads creation facility introduced (Stanislav Kinsburskiy)
- kthread: make of a new kthread's queuing code to a callback (Stanislav Kinsburskiy)
- block: suppress hard lockup warning in elv_drain_elevator (Vladimir Davydov) [PSBM-44480]
- block: Export disk_type,block_class and disk_name (Kirill Tkhai)
- ms/cfq-iosched: fix oom cfq_queue ref leak in cfq_set_request() (Tejun Heo) [PSBM-41334]
- ms/cfq-iosched: fix async oom queue handling (Tejun Heo) [PSBM-41334]
- ms/cfq-iosched: simplify control flow in cfq_get_queue() (Tejun Heo) [PSBM-41334]
- ms/cfq-iosched: remove @gfp_mask from cfq_find_alloc_queue() (Maxim Patlasov) [PSBM-39956]
- drivers/core/sysfs: respect ns when removing sys dev link (Vladimir Davydov) [PSBM-25801]
- KMAPSET: set of key-value mappings with build-in (Stanislav Kinsburskiy) [PSBM-34437]
- ve: add one more SHUTDOWN hook chain (Stanislav Kinsburskiy)
- Use ve init task's css instead of opening cgroup via vfs (Vladimir Davydov) [PSBM-48629 PSBM-74490 PSBM-48721]
- signal: don't rearm a posix-timer if siginfo was queued from user-space (Author: Thomas Gleixner) [PSBM-67221]
- ve/signal: Ignore signals from wrong ve (Stanislav Kinsburskiy) [PSBM-17903 PSBM-40896 PSBM-17903]
- signal: make SIGKILL top priority signal (Konstantin Khorenko)
- pidns: add proc mount option 'hidepidns=0 | 1' (Konstantin Khlebnikov)

- pidns: Disable pid allocation if pid_ns_prepare_proc() is failed in alloc_pid() (Kirill Tkhai) [PSBM-56705]
- pid: export symbol nex_pidmap (Dmitry Guryanov) [PSBM-20095]
- ms/pidns: Make the pidns proc mount/umount logic (Konstantin Khlebnikov)
- PIDNS: implement change_pid_ns() (Konstantin Khlebnikov)
- pid_ns: Virtualize pid_max (Kirill Tkhai) [PSBM-121530]
- fs/ceph: honor kernel direct aio changes v2 (Dmitry Monakhov) [PSBM-54817]
- ve/aio: Add a handle to checkpoint/restore AIO context (Stanislav Kinsburskiy) [PSBM-42488 PSBM-41425 PSBM-42488 PSBM-42488 PSBM-42488]
- ms/aio: Multiply passed nr_events in io_setup() (Kirill Tkhai) [PSBM-47075 PSBM-47209]
- ve/fs: Export fs.aio-max-nr via ve cgroup (Cyrill Gorcunov) [PSBM-45646]
- ve/fs/aio: aio_nr & aio_max_nr variables virtualization (Stanislav Kinsburskiy) [PSBM-29017 PSBM-47209 PSBM-47209]
- fs/aio: kernel direct aio (Stanislav Kinsburskiy) [PSBM-18169 PSBM-42312 PSBM-54817]
- overlayfs: unmark overlayfs as tech preview (Konstantin Khorenko) [PSBM-52379]
- ve/fs/overlay: allow overlayfs to be used inside a Container (Pavel Tikhomirov) [PSBM-47280 PSBM-86153 PSBM-121284]
- ve/fs/writeback: filter per-container inodes earlier (Andrey Ryabinin) [PSBM-39583]
- fs: ioctl_fiemap must check what fiemap_write_and_wait_range returns (Maxim Patlasov) [PSBM-68454]
- fs: FIEMAP should sync only required range with FIEMAP_FLAG_SYNC (Maxim Patlasov) [PSBM-68226]
- ms/fs: Fix race when checking i_size on direct i/o read (Steven Whitehouse)
- ms/fs/file.c:fdtable: avoid triggering OOMs from alloc_fdmem (Eric W. Biederman)
- fs/block_dev: fix NULL ptr deref in freeze_bdev() (Andrey Ryabinin) [PSBM-50858]
- ms/fs/super.c: fix WARN on alloc_super() fail path (Pavel Tikhomirov) [PSBM-43294]
- ve: remove sync_mutex (Andrey Ryabinin)
- fs: fix accounting pipe buffers to kmemcg (Vladimir Davydov)
- ve: remove sysctl_fs_sync_enable and use ve_fs_sync_behavior instead (Pavel Tikhomirov) [PSBM-34286 PSBM-34285]
- ve/fs: namespace — Don't fail on permissions if @ve → devmnt_list is empty (Cyrill Gorcunov) [PSBM-48188 PSBM-58329]
- ve/fs: namespace — Ignore device permissions during restore (Cyrill Gorcunov) [PSBM-48188]
- ve/fs: add per-VE limit of mount points (Stanislav Kinsburskiy) [PSBM-34438 PSBM-42825 PSBM-42825 PSBM-69880 PSBM-69880 PSBM-69880 OVZ-7039]
- ms/fsnotify: Make fdinfo to always success (Cyrill Gorcunov) [PSBM-40337]

- ve/fs: Allow to mount ext4 and binfmt_misc under non-root ns (Kirill Tkhai) [PSBM-40100]
- ve/fs/inotify: do not impose limit on the number of instances by default (Vladimir Davydov) [PSBM-39048]
- ve/fs: Port diff-ve-fs-security-check-for-mount (Vladimir Davydov) [PSBM-33650]
- mm/fs: Port diff-mm-debug-memallocation-caused-fs-reentrance (Vladimir Davydov) [PSBM-34112]
- ve/fs/ioprio: confine ioprio_{set, get}(IOPRIO_WHO_USER) to current ve (Vladimir Davydov)
- fs: add fadvise file_operation (Kirill Tkhai) [PSBM-54928 PSBM-54928]
- tmpfs: shmем_fallocate must return ERESTARTSYS (Maxim Patlasov) [PSBM-43399]
- fs/shmem: skip "relatime" in shmem_parse_options() (Kirill Tkhai)
- vfs/nfs: add set_flags wrapper (Kirill Tkhai)
- rh/fs: unwind changes on shift_arg_pages error path (Kirill Tkhai)
- rh/fs: introduce "fs.relatime_interval" sysctl (Kirill Tkhai)
- ve/fs: introduce "fs.fsync-enable" and "fs.odirect-enable" sysctls (Konstantin Khorenko) [PSBM-17903 PSBM-17157 PSBM-34286 PSBM-34285 PSBM-34286]
- ve/binfmt_misc: destroy all nodes on ve stop (Vladimir Davydov) [PSBM-39154]
- ve/fs/binfmt: virtualization (Stanislav Kinsburskiy) [PSBM-39154 PSBM-39154 PSBM-17903 PSBM-40100 PSBM-47737 PSBM-85685 PSBM-85052]
- ve/fs/binfmt: move all internal data to structure (Stanislav Kinsburskiy)
- ve/devpts: Assign containers @devpts_sb on first mount (Cyrill Gorcunov) [PSBM-34931]
- ve/fs/devpts: don't require newinstance (Konstantin Khlebnikov)
- ve/fs: virtualize devtmpfs file system (Stanislav Kinsburskiy) [PSBM-35077 PSBM-35146 PSBM-39077]
- nfsd: return file system superblock time granulaty on FSINFO request (Stanislav Kinsburskiy) [PSBM-66572]
- ve/nfsd: do not print nfscld warning in a container (Stanislav Kinsburskiy) [PSBM-43468]
- ve/nfsd: disable legacy recovery tracking for containers (Stanislav Kinsburskiy) [PSBM-43468]
- ve/nfsd: enable UMH client tracker in a container (Stanislav Kinsburskiy) [PSBM-102363]
- ve/sunrpc: containerize kthreads (Stanislav Kinsburskiy)
- ve/fs/nfsd: NFSd containerization (Stanislav Kinsburskiy)
- ms/NFS/CIFS/SUNRPC: don't allow to freeze execution (Stanislav Kinsburskiy) [PSBM-50671 PSBM-54822]
- ms/NFS: Don't call COMMIT in →releasepage() (Trond Myklebust) [PSBM-77949]
- nfs: abort delegation in dying VE (Stanislav Kinsburskiy) [PSBM-77061]
- ve/fs/nfs: NFS containerization (Stanislav Kinsburskiy)

- ve/fs: mark virtual filesystems as virtualized (Konstantin Khlebnikov)
- VE/FS: containerize filesystems access (Konstantin Khorenko)
- ms/autofs: show pipe inode in mount options (Stanislav Kinsburskiy) [PSBM-41217 PSBM-41961]
- ve/fs/autofs: mark autofs as virtualized (Stanislav Kinsburskiy) [PSBM-26968 PSBM-86138]
- ve/fs/locks: Make CAP_LEASE work in containers (Evgenii Shatokhin) [PSBM-46199]
- ve/fanotify: Use ve-capable instead of plain capable test (Cyrill Gorcunov) [PSBM-41409]
- ve/fs/namei: fix capabilities check in sys_renameat2 () to support Containers (Stanislav Kinsburskiy)
- ve/fs/namei: check containers capabilities in may_linkat() (Stanislav Kinsburskiy) [PSBM-40567]
- ve/fs/cred: add ve_capable to check capabilities relative to the current VE (v2) (Andrew Vagin) [PSBM-39077]
- VE/FS: allow to mknod inside ct (Vladimir Davydov)
- ve/fs: Port diff-ve-fs-allow-to-remove-swapfile-hardlinks (Vladimir Davydov) [PSBM-25310 PSBM-33650]
- fs: exec_mmap() arg corrected (Konstantin Khorenko)
- fs: Mask appropriate filesystems FS_VIRTUALIZED (Kirill Tkhai)
- fs: Restrict ve sync methods (Kirill Tkhai)
- fs: Split statfs_by_dentry() (Kirill Tkhai)
- fs: Show saved signal mask in /proc/[pid]/status (Kirill Tkhai)
- fs: Lower ioprio in case of ioprio_set() called from CT (Kirill Tkhai)
- ms/epoll: Make fdinfo to always success (Cyrill Gorcunov) [PSBM-41386]
- ms/epoll: fix use-after-free in eventpoll_release_file (Konstantin Khlebnikov)
- OpenVZ 7 config file (Stanislav Kinsburskiy)
- sched: Count loadavg under rq::lock in calc_load_nohz_start() (Kirill Tkhai) [PSBM-68052]
- ms/sched/numa: Fix use-after-free bug in the task_numa_compare (Gavin Guo) [PSBM-62208]
- ve/sched: sched_show_task: call task_ve_name() under RCU lock (Andrey Ryabinin) [PSBM-60139]
- ms/sched: Fix race on toggling cfs_bandwidth_used (Ben Segall) [PSBM-51056]
- ve/sched: make load balancing more aggressive (Vladimir Davydov)
- sched: debug: show nr_failed_migrations_cpulimit (Vladimir Davydov)
- ms/sched/fair: Initialize throttle_count for new task-groups lazily (Konstantin Khlebnikov) [PSBM-50099]
- sched: use topmost limited ancestor for cpulimit balancing (Vladimir Davydov) [PSBM-

49203]

- ve/fairsched: Resurrect proc fairsched files (Vladimir Davydov) [PSBM-48824]
- ms/sched/core: Fix unserialized r-m-w scribbling stuff (Kirill Tkhai)
- sched: disable dumping cfs info on sysrq trigger (Vladimir Davydov) [PSBM-41140]
- ve/sched: Hide steal time from inside CT (Kirill Tkhai) [PSBM-26588 PSBM-23431]
- sched: Port diff-sched-make-nr_cpus-limit-support-hierarchies (Stanislav Kinsburskiy) [PSBM-33642 PSBM-35082 PSBM-35251 PSBM-99921]
- sched: Port cpustat related patches (Vladimir Davydov) [PSBM-26714 PSBM-28403 PSBM-28500 PSBM-26587 PSBM-23431 PSBM-28277 PSBM-33642 PSBM-48721 PSBM-69678 PSBM-69678 PSBM-69678 PSBM-69678 PSBM-79891]
- sched: Port diff-sched-return-only-virtual-cpus-in-sched_getaffinity (Vladimir Davydov) [PSBM-25367 PSBM-27200 PSBM-33642]
- sched: Port diff-sched-clear-prev-entity-if-curr-is-dequeued (Vladimir Davydov) [PSBM-33642]
- ms/sched: Port diff-sched-increase-SCHED_LOAD_SCALE-resolution (Vladimir Davydov) [PSBM-33642]
- sched: Port diff-sched-initialize-runtime-to-non-zero-on-cfs-bw-set (Vladimir Davydov) [PSBM-17658 PSBM-17658 PSBM-33642]
- ve/sched: port vcpu hotslice (Stanislav Kinsburskiy) [PSBM-16913 PSBM-16913 PSBM-17399]
- ve/sched: port nr cpus limit (Stanislav Kinsburskiy) [PSBM-16856 PSBM-69678 PSBM-69678]
- sched/stat: account forks per task group (Vladimir Davydov) [PSBM-18113 PSBM-18113]
- sched/stat: account ctxsw per task group (Vladimir Davydov) [PSBM-18113 PSBM-18113]
- sched/stat: initial patch (Konstantin Khorenko) [PSBM-18113 PSBM-54928]
- sched: other changes (Konstantin Khorenko)
- sched: prohibit setting affinity from inside a CT (Konstantin Khorenko)
- sched: put setting scheduler under CAP_SYS_ADMIN (instead of SYS_NICE) (Konstantin Khorenko)
- sched: Add cpulimit base interfaces (Kirill Tkhai) [PSBM-69678 PSBM-69678]
- sched: Export per task_group statistics_work (Kirill Tkhai) [PSBM-74490 PSBM-33642]
- sched: Account ve_task_info::sleep_time (Kirill Tkhai)
- sched: Change show_state() view (Kirill Tkhai)
- sched: Account task_group::start_time (Kirill Tkhai)
- sched: Add primitives to calculate nr running, sleeping, stopped and uninterruptible tasks (Kirill Tkhai)
- sched: Account cfs_rq::nr_iowait (Kirill Tkhai)
- sched: Count rq::nr_sleeping and cfs_rq::nr_unint (Kirill Tkhai)

- kernel: Account nr_zombie and nr_dead (Kirill Tkhai)
- delayacct: Add stats primitives (Kirill Tkhai)
- ms/sched/numa: fix unsafe get_task_struct() in task_numa_assign() (Kirill Tkhai)
- ms/coredump: fix unfreezable coredumping task (Andrey Ryabinin) [PSBM-52793]
- ve/coredump: virtualize kernel.core_pattern sysctl (Pavel Tikhomirov) [PSBM-43596]
- ve/sysctl/net: allow net.ipv4.vs.* in CT init userns (Pavel Tikhomirov) [PSBM-63883 PSBM-63883]
- ve/sysctl/net: allow "net.unix.max_dgram_qlen" sysctl in CT init userns (Pavel Tikhomirov) [PSBM-54530]
- ve/sysctl: allow to write kernel/hostname and kernel/domainname entries in container (Stanislav Kinsburskiy) [PSBM-20102 PSBM-20102]
- ve/sysctl/pidns: allow to change sysctl "ns_last_pid" from containers (Andrew Vagin)
- sysctl: make may_detach_mounts immutable in CT (Pavel Tikhomirov) [PSBM-74521]
- ve/sysctl/ipc: mark as virtualized (Konstantin Khorenko) [PSBM-133998]
- ve/sysctl: implement virtualized methods (Stanislav Kinsburskiy) [PSBM-18032 PSBM-18030 PSBM-29017 PSBM-43596]
- ve/sysctl: write permission restriction (Konstantin Khlebnikov) [PSBM-18022 PSBM-56704 PSBM-18032 PSBM-18030]
- sysctl: make hotplug, printk and mmap_min_addr accessible inside a CT (Konstantin Khorenko)
- sysctl: Change sysctl::show_unhandled_signals default (Kirill Tkhai)
- ve/module: hide module refcounts from container (Andrey Ryabinin) [PSBM-57497]
- ve/proc/net/nr_cpus: cut lines in /proc/net/softnet_stat to number of vcpus in CT (Pavel Tikhomirov) [PSBM-73238]
- ve/proc/net: virtualize all the network proc entries (Stanislav Kinsburskiy) [PSBM-58574]
- ve/proc/net: proc_net_create() helper introduced (Stanislav Kinsburskiy) [PSBM-58574]
- ve/proc: fix mangling cgroup mount source path in container (Stanislav Kinsburskiy) [PSBM-34295 PSBM-52369]
- ve/proc/time: Port diff-ve-proc-report-real_start_time-in-_proc_PID_stat-if-CONFIG_VE (Vladimir Davydov) [PSBM-22925 PSBM-22925 PSBM-33650]
- ve/fs: drop useless d_root_check() (Konstantin Khorenko) [PSBM-41919]
- ve/proc: use memcg limits for showing oom_score inside CT (Vladimir Davydov) [PSBM-33849]
- ve/proc/block: Show CT allowed partitions in /proc/partitions (Stanislav Kinsburskiy) [PSBM-18889 PSBM-34805]
- blkcg: Hide not allowed device from /proc/devices (Kirill Tkhai)
- ve/proc: restricted proc-entries scope (Stanislav Kinsburskiy) [PSBM-18019 PSBM-18021]

PSBM-40359 PSBM-58574 PSBM-55920 OVZ-6834]

- fs/proc: print fairshed stat (Konstantin Khorenko)
- fs/proc: enhance proc_fd_access_allowed() and provide appropriate error code to callers (Konstantin Khorenko)
- proc: Show vcpu in do_task_stat() (Kirill Tkhai)
- quota: missing lock in dqcache_shrink_scan() (Niu Yawei)
- ve/quota: allow to manage quota in top CT user ns (Konstantin Khorenko) [PSBM-40281]
- fs/quota: Compatibility with older quotactl interface (Stanislav Kinsburskiy) [PSBM-51366]
- printk: Add touch_all_softlockup_watchdogs() to console_unlock() (Kirill Tkhai) [PSBM-49893]
- ve/printk: per-CT printk helpers introduced (Stanislav Kinsburskiy) [PSBM-39077 PSBM-54183 PSBM-42313]
- ve/printk: printk virtualization (Konstantin Khorenko) [PSBM-17899 PSBM-17980 PSBM-20669 PSBM-17899 PSBM-54820]
- net/sched: restore "mpu xxx" handling (Kirill Tkhai) [PSBM-34874]
- cpuset/cpus: don't propagate changes to empty descendant cgroups (Konstantin Khorenko) [PSBM-85052]
- cpuset: initial patch (Konstantin Khorenko)
- ve/net: introduce vz_security_*_check checks (Stanislav Kinsburskiy)
- ve/kobj: Send events per VE instead of all net-namespaces broadcasting (Stanislav Kinsburskiy)
- ve/uevent: Use own uevent_seqnum for every VE (Konstantin Khorenko) [PSBM-17903]
- vzevent: initial patch (Konstantin Khorenko)
- ve/veth: don't drop skb → mark if NETIF_F_VENET is set (Andrew Vagin) [PSBM-32277]
- vzeth: initial patch (Stanislav Kinsburskiy) [PSBM-20668 PSBM-18176]
- ve/net: introduce TAP accounting (Stanislav Kinsburskiy) [PSBM-27713 PSBM-40629]
- ve/net/vxlan: enable support in a container (Pavel Tikhomirov) [PSBM-53629]
- ve/net: ipip: enable in container (Stanislav Kinsburskiy) [PSBM-48608]
- ve/net: ip_vti: skip per net init in ve (Vladimir Davydov) [PSBM-48698]
- ve/net/ip_gre: containerize per-net devices (Kirill Tkhai) [PSBM-24331]
- ve/net/dummy: enable support in a container (Vasily Averin) [PSBM-43329]
- ve/net/ppp: introduce VE_FEATURE_PPP feature (Stanislav Kinsburskiy) [PSBM-29975]
- ve/net: Fix vlan NETIF_F_VIRTUAL feature initialization (Kirill Tkhai) [PSBM-35266]
- ve/tun: expose "owner", "group" and "tun_flags" attributes in container (Stanislav Kinsburskiy) [PSBM-39726]
- ve/bridge: br_dev_init: check if "bridge" feature is enabled (Evgenii Shatokhin) [PSBM-50009]

- ve/net: restrict ethtool to CT root users and prohibit EEPROM change (Konstantin Khorenko) [PSBM-36290 PSBM-52504]
- ve/net/cred: add ve_capable to check capabilities relative to the current VE (v2) (Konstantin Khorenko) [PSBM-39077]
- ve/net: restrict number of net devices for CT (Pavel Tikhomirov) [PSBM-51354]
- ve/net/packet: show tx-ring warning only for host (Pavel Tikhomirov) [PSBM-56711]
- VE/NET: don't oops in net_generic() on disabled features (Konstantin Khlebnikov)
- ve/net: sit: fix crash on newlink if VE_FEATURE_SIT is disabled (Vladimir Davydov)
- ve/net: Add VE_NF_CONNTRACK check in resolve_normal_ct() (Kirill Tkhai) [PSBM-35154]
- ve/net: Add ipt_mask checks into ip6table_nat (Kirill Tkhai) [PSBM-34748]
- ve/net: allow to rename devices in non-ve namespaces (Kirill Tkhai) [PSBM-29810 PSBM-33645]
- ve/net/sysfs: Porting diff-ve-net-sysfs-drop-redundant-net_ipv4_route_path and diff-ve-net-route-bring-back-route_src_check (Kirill Tkhai) [PSBM-31818]
- fs/nfs: don't use delayed unmount for nfs. (Andrey Ryabinin) [PSBM-76086]
- ve/net,netfilter: Adjust REDIRECT target on venet device (Cyrill Gorcunov) [PSBM-59983]
- venet: ipX_forward headroom check (Vasily Averin) [PSBM-68362 PSBM-68362]
- veip: Add commentary about veip_shutdown_hook (Kirill Tkhai) [PSBM-77750]
- venet: delay skb_orphan() for venet CT→host path optimization (Konstantin Khorenko) [PSBM-79456]
- drivers/net/ve: venet network device introduced (Konstantin Khorenko) [PSBM-69078]
- ve: export ve_subsys symbol (Stanislav Kinsburskiy)
- veip: initial patch (Konstantin Khorenko)
- net/teql: disable "True" (or "trivial") link equalizer inside a CT (Konstantin Khorenko)
- net: fix cbq quantum calculation (Konstantin Khorenko)
- net/ipv6: fix MIP6 compilation (Konstantin Khorenko)
- net/udp: honor SK_FORCE_REUSE (Konstantin Khorenko)
- net: shift rcv_nxt appropriately in case we received only part of data (Konstantin Khorenko) [PSBM-87699]
- net: force tcp maximum segment size (MSS) to 64K (Konstantin Khorenko)
- net: don't push data in a socket in repair state (Konstantin Khorenko)
- net/compilation: sysctl_tcp_adv_win_scale (Konstantin Khorenko)
- net: honor TW_WSCALE_MASK/TW_WSCALE_SPEC (Konstantin Khorenko)
- net: introduce ip_rt_src_check (Konstantin Khorenko)
- net: move dev_name_hash/dev_index_hash to netdevice.h (Konstantin Khorenko)
- tun: Create tun_flags file on for init_net only (Kirill Tkhai)

- net: Make neigh_alloc() return ENOMEM in kmalloc() failed (Kirill Tkhai)
- net: Add NETIF_F_VIRTUAL feature to mask devices allowed in CT (Kirill Tkhai)
- net: Add NETIF_F_VENET netdev feature and optimized skb forwarding (Kirill Tkhai)
- net: Add sysctl_tcp_use_sg to disable NETIF_F_SG sk route capability (Kirill Tkhai)
- net: Make ipip feature optional (Vasily Averin)
- net: Make sit feature optional (Kirill Tkhai)
- netns: export net_assign_generic() (Konstantin Khorenko)
- ms/netlabel: fix the netlbl_catmap_setlong() dummy function (Paul Moore)
- ms/net/RDS: verify the underlying transport exists before creating a connection (Vasily Averin)
- ve/cgroups: Introduce subgroups_limit control (Andrey Ryabinin) [PSBM-33401 PSBM-69678]
- ve/cgroup: Allow to write to several safe cgroup files from CT (Pavel Tikhomirov) [PSBM-44981]
- ve/cgroup: do not virtualize output of cgroup_path (Vladimir Davydov) [PSBM-34852]
- ve/cgroup: Mangle cgroups root from inside of VE view (Cyrill Gorcunov) [PSBM-33757 PSBM-38634]
- cgroup: Mark cgroup CGRP_VE_ROOT (Kirill Tkhai)
- ve/cgroups: fake num_cgroups in /proc/cgroups output (Vasily Averin) [PSBM-33400]
- VE: convert khelper_wq to kthread_worker (Konstantin Khlebnikov) [PSBM-28910]
- ve/security: device_cgroup—Allow manage devices in @pseudosuper state (Cyrill Gorcunov) [PSBM-48421]
- ve/cgroup: Add pseudosuper state for restore sake (Cyrill Gorcunov) [PSBM-33664 PSBM-34291 PSBM-34299 PSBM-43169 PSBM-42573 PSBM-44981]
- ve/kernel: allow to increase rlimit from inside container (Vladimir Davydov) [PSBM-43410]
- ve/acct: Allow process accounting in containers (Evgenii Shatokhin) [PSBM-40587]
- ve: introduce ve_init_user_ns() helper (Andrey Ryabinin) [PSBM-41075]
- vecalls: fix VZCTL_GET_CPU_STAT uptime_jif scale (Vladimir Davydov) [PSBM-28811]
- ve: Implement current_user_ns_initial() helper (Konstantin Khorenko) [PSBM-58574]
- ve/itimer: add ve_name to warning for a NULL new_value (Dmitry Safonov) [PSBM-49818]
- ve/cred: add ve_capable to check capabilities relative to the current VE (v2) (Konstantin Khorenko) [PSBM-39077]
- ve: Add support of iptables mask (Konstantin Khorenko) [PSBM-32737 PSBM-34286 PSBM-34285]
- ve: Add support of features mask (Cyrill Gorcunov) [PSBM-32737]
- ve/lockdep: Port diff-lockdep-taint-kernel-on-circular-locking-complains (Vladimir Davydov) [PSBM-22010 PSBM-33650]

- ve/taskstats: allow delivery of task attributes in CT context (Stanislav Kinsburskiy) [PSBM-56171]
- ve: Port diff-ve-allow-taskstats-netlink-in-netns (Vladimir Davydov) [PSBM-33650]
- ve/uts_ns: Implement cgroup interface to configure ve's os_release (Kirill Tkhai) [PSBM-32273]
- uts: Add virt_utsname and /proc/sys/kernel/virt_osrelease entry (Kirill Tkhai)
- ve/devmnt: Add a ability to show ve.mount_opts (Kirill Tkhai) [PSBM-34291 PSBM-34291]
- ve/fs/devmnt: process mount options (Kirill Tkhai) [PSBM-32273 PSBM-40075]
- ve/devmnt: Introduce ve::devmnt list (Kirill Tkhai) [PSBM-32273]
- ptrace: prevent tracing "init" from inside a CT (Konstantin Khorenko)
- ve/mm/trace: introduce vps_dumpable flag (Konstantin Khorenko) [PSBM-20666]
- ve/mm: print OOM info to VE log (Vladimir Davydov)
- ve: initial patch (Konstantin Khorenko) [PSBM-21953 PSBM-22882 PSBM-24622 PSBM-24622 PSBM-28031 PSBM-33480 PSBM-33555 PSBM-33561 PSBM-33833 PSBM-34030 PSBM-32284 PSBM-34450 PSBM-34497 PSBM-34286 PSBM-34285 PSBM-34422 PSBM-34286 PSBM-34285 PSBM-40280 PSBM-71414 PSBM-78078]
- ve/usersns: associate user_struct with the user_namespace (Andrey Ryabinin) [PSBM-60181]
- ve: allow user ns in chroot (Konstantin Khlebnikov)
- ve: Virtualize sysinfo (Kirill Tkhai)
- ve: Replace 0 ppid with 1 (workaround for bad utils) (Kirill Tkhai) [PSBM-121530]
- ve: Customize VE uptime (Kirill Tkhai)
- ve: Use ve_relative_clock in times() syscall and /proc/[pid]/stat (Kirill Tkhai)
- ve: Prohibit module load and usermode_helper from inside CT (Kirill Tkhai)
- ve: Add virtinfo subsys (Kirill Tkhai) [PSBM-20104]
- ve: Virtualize devpts superbblock (Kirill Tkhai)
- ve: Virtualize /proc/cmdline (Kirill Tkhai)
- ve: Virtualize /proc/swaps to watch from inside CT (Kirill Tkhai)
- ve: Implement per ve randomize_va_space (Kirill Tkhai)
- ve: Use ve_printk() for often kernel messages about user actions (Kirill Tkhai)
- ve/ppc: wire OpenVZ-specific syscalls (Kir Kolyshkin)
- ve: Add ve syscalls numbers (Kirill Tkhai)
- ve: Prohibit containers add random entropy (Kirill Tkhai)
- ve/sysinfo: don't clean uptime, procs and loads in containers (Pavel Tikhomirov) [PSBM-62094]
- ve: Add VZVERSION suffix to kernel release (Kirill Tkhai)
- ms/cgroup: switch to new percpu_ref API (Vladimir Davydov)

- ms/cgroup: use percpu refcnt for cgroup_subsys_states (Vladimir Davydov) [PSBM-34174]
- ms/cgroup: split cgroup destruction into two steps (Vladimir Davydov) [PSBM-34174]
- ms/cgroup: reorder the operations in cgroup_destroy_locked() (Vladimir Davydov) [PSBM-34174]
- cgroup: initial patch (Konstantin Khorenko) [PSBM-17927 PSBM-17927 PSBM-16529 PSBM-34035 PSBM-34035]
- Revert: rh/kmod: use system_unbound_wq instead of khelper (Konstantin Khorenko) [PSBM-61660]
- vzdev: initial patch (Konstantin Khorenko)
- vzwdog: initial patch (Konstantin Khorenko) [PSBM-89580]
- ve/device_cgroup: kill ACC_QUOTA permission (Konstantin Khorenko) [PSBM-48482]
- ve/device_cgroup: allow to change device mount permission via cgroup (Andrey Ryabinin) [PSBM-48431]
- ve/device_cgroup: fake allowing all devices for docker inside VZCT (Pavel Tikhomirov) [PSBM-34529 PSBM-38691]
- capabilities: correct descriptions (Konstantin Khorenko)
- ve/devcgroup/cred: add ve_capable to check capabilities relative to the current VE (v2) (Konstantin Khorenko) [PSBM-39077]
- devcgroup: initial patch (Konstantin Khorenko) [PSBM-21979 PSBM-33555]
- headers: inclusion (Konstantin Khorenko)
- Initial patch commit + compilation fixes: commit messages history (Konstantin Khorenko) [PSBM-33584 PSBM-17651 PSBM-17886 PSBM-17909 PSBM-17918 PSBM-17915 PSBM-17917 PSBM-17914 PSBM-17902 PSBM-17924 PSBM-17926 PSBM-17924 PSBM-17918 PSBM-17930 PSBM-17931 PSBM-17945 PSBM-17960 PSBM-17971 PSBM-18875 PSBM-18876 PSBM-18877 PSBM-17908 PSBM-18878 PSBM-18879 PSBM-18056 PSBM-18882 PSBM-18884 PSBM-18899 PSBM-31125 PSBM-12955 PSBM-20089 PSBM-20089 PSBM-12523 PSBM-41530 OVZ-6600 OVZ-5192 PSBM-32912 PSBM-54816 PSBM-54819 PSBM-54928 PSBM-54928 PSBM-18113 PSBM-33760 PSBM-33755 PSBM-33926 PSBM-39077 PSBM-18531 PSBM-34089 PSBM-42087 PSBM-18113 PSBM-20541 PSBM-33642 PSBM-33841 PSBM-47061 PSBM-17904 PSBM-33650 PSBM-39077 PSBM-18885 PSBM-18885 PSBM-34494 PSBM-20810 PSBM-51255 OVZ-6409 PSBM-39167 PSBM-20100 PSBM-20100 PSBM-33239 PSBM-34777 PSBM-41804 PSBM-52390 PSBM-54408 PSBM-20663 PSBM-22149 PSBM-27695 PSBM-33849 PSBM-33849 PSBM-33849 PSBM-34066 PSBM-34007 PSBM-32284 PSBM-42313 PSBM-55365 PSBM-71414]
- Kconfig: Kconfig.openvz includes in arch (Konstantin Khorenko)
- Kconfig: introduce kernel/Kconfig.openvz (Konstantin Khorenko)
- x86/SYSCALL: remove sys32 vm86 warning (Dmitry Guryanov)
- ms/kcmp: fix standard comparison bug (Rasmus Villemoes)
- ms/module: remove rmmod --wait option. (Rusty Russell) [PSBM-27580 PSBM-27580]
- ms/idr: print a stack dump after ida_remove warning (Vasily Averin)

- MS/KBD: add file kbd_bind in sysfs, which allow unbind keyboard from tty (v2) (Andrey Vagin)
- MS/DEVICE: input_mutex isn't static now (Andrey Vagin)
- MS/IDLE: add boot param to forcibly enable intel auto demotion (Vladimir Davydov) [PSBM-11477]
- ms/tty: Fix potential use after free in release_one_tty (Cyrill Gorcunov)
- ms/tty/ppc: define TIOSAK (fix tty_ioctl() compilation) (Kir Kolyshkin)
- MS/TTY: TIOSAK Secure Attention Key ioctl (Konstantin Khlebnikov) [PSBM-11881]
- KBUILD: build should fail on modpost errors for external modules (Konstantin Khlebnikov)
- Revert RH "mm: do not stall register_shrinker()" (Vasily Averin)
- Revert RHBZ#1489573 patches (Vasily Averin) [PSBM-104223]
- Revert RHBZ#1822405 (Vasily Averin) [PSBM-125816]
- Revert RHBZ#1506437 (Vasily Averin) [PSBM-121976]
- Mon Nov 06 2023 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.105.1.el7]
 - net/sched: cls_u32: No longer copy tcf_result on update to avoid use-after-free (Davide Caratti) [2228703] {CVE-2023-4128}
 - net/sched: cls_fw: No longer copy tcf_result on update to avoid use-after-free (Davide Caratti) [2228703] {CVE-2023-4128}
 - net/sched: cls_route: No longer copy tcf_result on update to avoid use-after-free (Davide Caratti) [2228703] {CVE-2023-4128}
- Fri Oct 20 2023 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.104.1.el7]
 - CI: Remove unused kpet_tree_family (Nikolai Kondrashov)
 - xen/x86: don't lose event interrupts (Vitaly Kuznetsov) [RHEL-1534]
 - Documentation/x86: Fix backwards on/off logic about YMM support (Waiman Long) [2229893] {CVE-2022-40982}
 - KVM: Add GDS_NO support to KVM (Waiman Long) [2229893] {CVE-2022-40982}
 - x86/speculation: Add Kconfig option for GDS (Waiman Long) [2229893] {CVE-2022-40982}
 - x86/speculation: Add force option to GDS mitigation (Waiman Long) [2229893] {CVE-2022-40982}
 - x86/speculation: Add Gather Data Sampling mitigation (Waiman Long) [2229893] {CVE-2022-40982}
 - Documentation/ABI: Mention retbleed vulnerability info file for sysfs (Waiman Long) [2229893]
 - docs/kernel-parameters: Update descriptions for "mitigations=" param with retbleed (Waiman Long) [2229893]
 - x86/speculation: Add missing srbds=off to the mitigations= help text (Waiman Long) [2229893]

- x86: Sync Intel family names & cpu_vuln_blacklist[] with upstream (Waiman Long) [2229893]
- Mon Oct 09 2023 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.103.1.el7]
 - net/sched: sch_qfq: account for stab overhead in qfq_enqueue (Davide Caratti) [2225555] {CVE-2023-3611}
 - net: sched: sch_qfq: prevent slab-out-of-bounds in qfq_activate_agg (Davide Caratti) [2225555]
 - net/sched: cls_fw: Fix improper refcount update leads to use-after-free (Davide Caratti) [2225639] {CVE-2023-3776}
 - redhat: fix to be able to build with rpm 4.19.0 (Denys Vlasenko)
- Mon Sep 25 2023 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.102.1.el7]
 - net/sched: cls_u32: Fix reference counter leak leading to overflow (Davide Caratti) [2225486] {CVE-2023-3609}
 - NFSv4.1: fix handling of backchannel binding in BIND_CONN_TO_SESSION (Benjamin Coddington) [2219604]
- Fri Sep 01 2023 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.101.1.el7]
 - cifs: fix a buffer leak in smb2_query_symlink (Jay Shin) [2166706]
 - kernfs: Improve kernfs_notify() poll notification latency (Ian Kent) [1703180]
 - netfilter: nf_tables: prevent OOB access in nft_byteorder_eval (Florian Westphal) [2221720] {CVE-2023-35001}
- Wed Aug 23 2023 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.100.1.el7]
 - bnxt: count Tx drops (Jamie Bainbridge) [2175062]
 - bnxt: make sure xmit_more + errors does not miss doorbells (Jamie Bainbridge) [2175062]
 - netfilter: nf_tables: skip deactivated anonymous sets during lookups (Florian Westphal) [2196159] {CVE-2023-32233}
 - netfilter: nf_tables: do not allow SET_ID to refer to another table (Florian Westphal) [2196159]
- Thu Aug 10 2023 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.99.1.el7]
 - x86/cpu/amd: Add a Zenbleed fix (Waiman Long) [2226841] {CVE-2023-20593}
 - x86/cpu/amd: Move the errata checking functionality up (Waiman Long) [2226841] {CVE-2023-20593}
 - x86/cpu: Restore AMD's DE_CFG MSR after resume (Waiman Long) [2226841] {CVE-2023-20593}
- Thu Aug 03 2023 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.98.1.el7]
 - GFS2: gfs2_dir_get_hash_table(): avoiding deferred vfree() is easy here... (Andrew Price) [2190450]
 - GFS2: use kvfree() instead of open-coding it (Andrew Price) [2190450]

- Mon Jul 24 2023 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.97.1.el7]
 - net/sched: flower: fix possible OOB write in fl_set_geneve_opt() (Davide Caratti) [2216982] {CVE-2023-35788}
 - netfilter: conntrack: re-fetch conntrack after insertion (Florian Westphal) [2188190]
 - netfilter: conntrack: handle tcp challenge acks during connection reuse (Florian Westphal) [2128262]
 - netfilter: conntrack: reduce timeout when receiving out-of-window fin or rst (Florian Westphal) [2128262]
 - netfilter: conntrack: remove unneeded indent level (Florian Westphal) [2128262]
 - netfilter: conntrack: ignore overly delayed tcp packets (Florian Westphal) [2128262]
 - netfilter: conntrack: prepare tcp_in_window for ternary return value (Florian Westphal) [2128262]
 - netfilter: conntrack: connection timeout after re-register (Florian Westphal) [2128262]
 - netfilter: conntrack: always store window size un-scaled (Florian Westphal) [2128262]
 - netfilter: conntrack: work around exceeded receive window (Florian Westphal) [2128262]
 - netfilter: conntrack: avoid misleading 'invalid' in log message (Florian Westphal) [2128262]
 - netfilter: remove BUG_ON() after skb_header_pointer() (Florian Westphal) [2128262]
 - netfilter: nf_conntrack_tcp: re-init for syn packets only (Florian Westphal) [2128262]
 - netfilter: nf_conntrack_tcp: preserve liberal flag in tcp options (Florian Westphal) [2128262]
 - netfilter: conntrack: re-init state for retransmitted syn-ack (Florian Westphal) [2128262]
 - netfilter: conntrack: move synack init code to helper (Florian Westphal) [2128262]
 - netfilter: conntrack: do not renew entry stuck in tcp SYN_SENT state (Florian Westphal) [2128262]
 - netfilter: nf_conntrack_tcp: Fix stack out of bounds when parsing TCP options (Florian Westphal) [2128262]
- Fri Jul 07 2023 Jan Stancek <jstancek@redhat.com> [3.10.0-1160.96.1.el7]
 - sched/fair: Eliminate bandwidth race between throttling and distribution (Phil Auld) [2180681]
 - sched/fair: Fix race between runtime distribution and assignment (Phil Auld) [2180681]
 - sched/fair: Don't assign runtime for throttled cfs_rq (Phil Auld) [2180681]
- Fri Jun 23 2023 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.95.1.el7]
 - perf/s390x: Align the register list to what we support (Michael Petlan) [2207745]
 - Revert "[tools] s390/perf: add perf register support for floating-point registers" (Michael Petlan) [2207745]
 - s390/perf: add perf_regs support and user stack dump (Michael Petlan) [2207745]
 - s390/zcrypt: handle new reply code FILTERED_BY_HYPERVISOR (Tobias Huschle) [2212672]

- Fri Jun 09 2023 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.94.1.el7]
 - netfilter: nf_tables: deactivate anonymous set from preparation phase (Florian Westphal) [2196159] {CVE-2023-32233}
- Mon Jun 05 2023 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.93.1.el7]
 - Bluetooth: L2CAP: Fix use-after-free caused by l2cap_reassemble_sdu (Wander Lairson Costa) [2152941] {CVE-2022-3564}
 - proc/pagemap: walk page tables under pte lock (Rafael Aquini) [2190338]
- Thu May 18 2023 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.92.1.el7]
 - packet: fix use-after-free in prb_retire_rx_blk_timer_expired() (Florian Westphal) [2182642]
 - x86/bugs: Workaround for incorrectly set X86_BUG_RETBLEED under VMware (Waiman Long) [2189556]
- Fri Apr 21 2023 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.91.1.el7]
 - target: iscsi: use GFP_NOIO with loopback connections (Maurizio Lombardi) [2181931]
- Fri Mar 17 2023 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.90.1.el7]
 - NFSv4.1: Fix open stateid recovery (Benjamin Coddington) [2156890]
 - NFS: Don't open code clearing of delegation state (Benjamin Coddington) [2156890]
- Thu Feb 23 2023 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.89.1.el7]
 - usb: mon: make mmapped memory read only (Desnes Nunes) [2161212] {CVE-2022-43750}
- Sat Feb 18 2023 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.88.1.el7]
 - KVM: x86: add bit to indicate correct tsc_shift (Marcelo Tosatti) [2152838]
 - KVM: x86: rewrite handling of scaled TSC for kvmclock (Marcelo Tosatti) [2152838]
 - KVM: x86: rename argument to kvm_set_tsc_khz (Marcelo Tosatti) [2152838]
- Fri Feb 10 2023 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.87.1.el7]
 - Revert "openvswitch: fix flow actions reallocation" (Rado Vrbovsky) [2141780] {CVE-2022-2639}
 - Revert "openvswitch: fix OOB access in reserve_sfa_size()" (Rado Vrbovsky) [2141780] {CVE-2022-2639}
 - kvm/emulate: Fix SETcc emulation function offsets with SLS (Vitaly Kuznetsov) [2143438]
 - mm/rmap: Fix anon_vma → degree ambiguity leading to double-reuse (Rafael Aquini) [2138620] {CVE-2022-42703}
 - mm, rmap: handle anon_vma_prepare() common case inline (Rafael Aquini) [2138620] {CVE-2022-42703}
 - proc: proc_skip_spaces() shouldn't think it is working on C strings (Wander Lairson Costa) [2152565] {CVE-2022-4378}
 - proc: avoid integer type confusion in get_proc_long (Wander Lairson Costa) [2152565] {CVE-2022-4378}

- scsi: qla2xxx: Fix crash due to stale SRB access around I/O timeouts (Nilesh Javali) [2092105]
- fs: move S_ISGID stripping into the vfs_*(0) helpers (Andrey Albershteyn) [2159946] {CVE-2018-13405 CVE-2021-4037}
- fs: Add missing umask strip in vfs_tmpfile (Andrey Albershteyn) [2159946] {CVE-2018-13405 CVE-2021-4037}
- fs: add mode_strip_sgid() helper (Andrey Albershteyn) [2159946] {CVE-2018-13405 CVE-2021-4037}
- Thu Feb 02 2023 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.86.1.el7]
 - openvswitch: fix OOB access in reserve_sfa_size() (Rado Vrbovsky) [2141780] {CVE-2022-2639}
 - openvswitch: fix flow actions reallocation (Rado Vrbovsky) [2141780] {CVE-2022-2639}
 - gitlab-ci: use CI templates from production branch (Michael Hofmann)
 - mm: prevent page_frag_alloc() from corrupting the memory (Rafael Aquini) [2141062]
 - mm: Use fixed constant in page_frag_alloc instead of size + 1 (Rafael Aquini) [2141062]
 - mm: page_alloc: fix ref bias in page_frag_alloc() for 1-byte allocs (Rafael Aquini) [2141062]
 - x86/pat: Pass valid address to sanitize_phys() (Jeff Moyer) [1974485]
- Thu Jan 19 2023 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.85.1.el7]
 - sctp: do asoc update earlier in sctp_sf_do_dupcook_b (Xin Long) [2054037]
 - sctp: do asoc update earlier in sctp_sf_do_dupcook_a (Xin Long) [2054037]
 - sctp: handle errors when updating asoc (Xin Long) [2054037]
 - sctp: no need to check assoc id before calling sctp_assoc_set_id (Xin Long) [2054037]
 - s390/topology: fix warning when disabling cpus (Tobias Huschle) [2071980]
- Thu Jan 12 2023 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.84.1.el7]
 - blk-mq: fix flush-rq race (Ming Lei) [2088029]
 - scsi: target: iscsi: Fix a race condition between login_work and the login thread (Maurizio Lombardi) [2154243]
- Mon Dec 19 2022 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.83.1.el7]
 - x86/sme: avoid using __x86_return_thunk (Rafael Aquini) [2122158]
 - scsi: core: Simplify control flow in scmd_ah_abort_handler() (Ewan D. Milne) [2128337]
 - scsi: core: Avoid leaving shost→last_reset with stale value if EH does not run (Ewan D. Milne) [2128337]
 - [netdrv] i40e: Fix freeing of uninitialized misc IRQ vector (Jamie Bainbridge) [2129248]
 - x86/speculation: Use generic retpoline by default on AMD (Rafael Aquini) [2062165] {CVE-2021-26401}
- Thu Dec 08 2022 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.82.1.el7]
 - net: usb: ax88179_178a: Fix packet receiving (Jose Ignacio Tornos Martinez) [2120504] {CVE-

2022-2964}

- net: usb: ax88179_178a: Fix out-of-bounds accesses in RX fixup (Jose Ignacio Tornos Martinez) [2120504] {CVE-2022-2964}
- net: usb: Merge cpu_to_le32s + memcpy to put_unaligned_le32 (Jose Ignacio Tornos Martinez) [2120504] {CVE-2022-2964}
- ax88179_178a: Merge memcpy + le32_to_cpus to get_unaligned_le32 (Jose Ignacio Tornos Martinez) [2120504] {CVE-2022-2964}
- net: usb: ax88179_178a: fix packet alignment padding (Jose Ignacio Tornos Martinez) [2120504] {CVE-2022-2964}
- mm: swap: disable swap_vma_readahead for PPC64 (Rafael Aquini) [2142455]
- Thu Nov 24 2022 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.81.1.el7]
 - [netdrv] bnxt: don't lock the tx queue from napi poll (Jamie Bainbridge) [2110869]
 - [netdrv] bnxt_en: reverse order of TX disable and carrier off (Jamie Bainbridge) [2110869]
 - [netdrv] qede: confirm skb is allocated before using (Jamie Bainbridge) [2131145]
- Sat Oct 08 2022 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.80.1.el7]
 - scsi: lpfc: Fix FCP I/O flush functionality for TMF routines (Dick Kennedy) [1969988]
 - scsi: lpfc: Fix illegal memory access on Abort IOCBs (Dick Kennedy) [1969988]
 - NFS: Fix extra call to dput() in nfs_prime_dcache (Benjamin Coddington) [2117856]
- Thu Sep 22 2022 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.79.1.el7]
 - x86/speculation: Add LFENCE to RSB fill sequence (Rafael Aquini) [2115073] {CVE-2022-26373}
 - x86/speculation: Protect against userspace-userspace spectreRSB (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
 - x86/speculation: cope with spectre_v2=retpoline cmdline on retbleed-affected Intel CPUs (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
 - KVM: emulate: do not adjust size of fastop and setcc subroutines (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
 - x86/kvm: fix FASTOP_SIZE when return thunks are enabled (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
 - x86/speculation: Disable RRSBA behavior (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
 - x86/kexec: Disable RET on kexec (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
 - x86/bugs: Do not enable IBPB-on-entry when IBPB is not supported (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
 - x86/bugs: Add Cannon lake to RETbleed affected CPU list (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}

- x86/cpu/amd: Enumerate BTC_NO (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
- x86/common: Stamp out the stepping madness (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
- x86/cpu/amd: Add Spectral Chicken (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
- x86/bugs: Do IBPB fallback check only once (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
- x86/bugs: Add retbleed=ibpb (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
- x86/bugs: Report Intel retbleed vulnerability (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
- x86/bugs: Enable STIBP for JMP2RET (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
- x86/bugs: Add AMD retbleed= boot parameter (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
- x86/bugs: Report AMD retbleed vulnerability (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
- x86: Add magic AMD return-thunk (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
- x86: Use return-thunk in asm code (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
- x86/sev: Avoid using __x86_return_thunk (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
- x86/vsyscall_emu/64: Don't use RET in vsyscall emulation (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
- x86/kvm: Fix SETcc emulation for return thunks (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
- x86,objtool: Create .return_sites (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
- x86: Undo return-thunk damage (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
- x86/retpoline: Use -mfunction-return (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
- x86/cpufeatures: Move RETPOLINE flags to word 11 (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
- objtool: Add ELF writing capability (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
- x86: Prepare asm files for straight-line-speculation (Rafael Aquini) [2090227] {CVE-2022-

23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}

- x86: Prepare inline-asm for straight-line-speculation (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
- x86/kvm: Fix fastop function ELF metadata (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
- x86/kvm: Move kvm_fastop_exception to .fixup section (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
- x86/vdso: Fix vDSO build if a retpoline is emitted (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
- x86/cpufeatures: Combine word 11 and 12 into a new scattered features word (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
- x86/cpufeatures: Carve out CQM features retrieval (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
- x86/cpufeatures: Re-tabulate the X86_FEATURE definitions (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
- x86/cpufeature: Move processor tracing out of scattered features (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
- x86/cpu: Probe CPUID leaf 6 even when cpuid_level == 6 (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
- x86/alternatives: Cleanup DPRINTK macro (Rafael Aquini) [2090227] {CVE-2022-23816 CVE-2022-23825 CVE-2022-29900 CVE-2022-29901}
- Thu Sep 15 2022 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.78.1.el7]
 - net_sched: cls_route: remove from list when handle is 0 (Davide Caratti) [2121809] {CVE-2022-2588}
- Thu Sep 08 2022 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.77.1.el7]
 - net/mlx5: Add Fast teardown support (Jay Shin) [2077711]
 - net/mlx5: Free IRQs in shutdown path (Jay Shin) [2077711]
 - net/mlx5: Change teardown with force mode failure message to warning (Jay Shin) [2077711]
 - net/mlx5: Cancel health poll before sending panic teardown command (Jay Shin) [2077711]
 - net/mlx5: Add fast unload support in shutdown flow (Jay Shin) [2077711]
 - net/mlx5: Expose command polling interface (Jay Shin) [2077711]
 - posix-timers: Remove remaining uses of tasklist_lock (Oleg Nesterov) [2115147]
 - posix-timers: Use sighand lock instead of tasklist_lock on timer deletion (Oleg Nesterov) [2115147]
 - posix-cpu-timers: remove tasklist_lock in posix_cpu_clock_get() (Oleg Nesterov) [2115147]
- Tue Jul 26 2022 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.76.1.el7]
 - sfc: complete the next packet when we receive a timestamp (Íñigo Huguet) [1793280]

- Tue Jul 19 2022 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.75.1.el7]
 - xfs: fix up non-directory creation in SGID directories (Andrey Albershteyn) [2089360]
 - x86/speculation/mmio: Print SMT warning (Rafael Aquini) [2090249] {CVE-2022-21123 CVE-2022-21125 CVE-2022-21166}
 - KVM: x86/speculation: Disable Fill buffer clear within guests (Rafael Aquini) [2090249] {CVE-2022-21123 CVE-2022-21125 CVE-2022-21166}
 - x86/speculation/mmio: Reuse SRBDS mitigation for SBDS (Rafael Aquini) [2090249] {CVE-2022-21123 CVE-2022-21125 CVE-2022-21166}
 - x86/speculation/srbds: Update SRBDS mitigation selection (Rafael Aquini) [2090249] {CVE-2022-21123 CVE-2022-21125 CVE-2022-21166}
 - x86/speculation/mmio: Add sysfs reporting for Processor MMIO Stale Data (Rafael Aquini) [2090249] {CVE-2022-21123 CVE-2022-21125 CVE-2022-21166}
 - cpu/speculation: Add prototype for cpu_show_srbds() (Rafael Aquini) [2090249] {CVE-2022-21123 CVE-2022-21125 CVE-2022-21166}
 - x86/speculation/mmio: Enable CPU Fill buffer clearing on idle (Rafael Aquini) [2090249] {CVE-2022-21123 CVE-2022-21125 CVE-2022-21166}
 - x86/bugs: Group MDS, TAA & Processor MMIO Stale Data mitigations (Rafael Aquini) [2090249] {CVE-2022-21123 CVE-2022-21125 CVE-2022-21166}
 - x86/speculation/mmio: Add mitigation for Processor MMIO Stale Data (Rafael Aquini) [2090249] {CVE-2022-21123 CVE-2022-21125 CVE-2022-21166}
 - x86/speculation: Add a common function for MD_CLEAR mitigation update (Rafael Aquini) [2090249] {CVE-2022-21123 CVE-2022-21125 CVE-2022-21166}
 - x86/speculation/mmio: Enumerate Processor MMIO Stale Data bug (Rafael Aquini) [2090249] {CVE-2022-21123 CVE-2022-21125 CVE-2022-21166}
 - Documentation: Add documentation for Processor MMIO Stale Data (Rafael Aquini) [2090249] {CVE-2022-21123 CVE-2022-21125 CVE-2022-21166}
 - [s390] s390/zcrypt: use kvmalloc instead of kmalloc for 256k alloc (Metu Durlu) [2072970]
- Wed Jul 13 2022 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.74.1.el7]
 - tracing: Fix bad use of igrab in trace_uprobe.c (Oleg Nesterov) [2096884]
- Thu Jul 07 2022 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.73.1.el7]
 - qede: Reduce verbosity of ptp tx timestamp (Manish Chopra) [2080646]
 - RDMA/cma: Fix unbalanced cm_id reference count during address resolve (Kamal Heib) [2085425]
- Tue Jun 28 2022 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.72.1.el7]
 - sched,perf: Fix periodic timers (Valentin Schneider) [2077346]
 - sched: debug: Remove the cfs bandwidth timer_active printout (Valentin Schneider) [2077346]
 - sched: Cleanup bandwidth timers (Valentin Schneider) [2077346]

- Wed Jun 15 2022 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.71.1.el7]
 - netfilter: nf_tables: disallow non-stateful expression in sets earlier (Phil Sutter) [2093000] {CVE-2022-1966}
 - netfilter: nf_tables: fix memory leak if expr init fails (Phil Sutter) [2093000]
- Tue Jun 14 2022 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.70.1.el7]
 - perf: Fix sys_perf_event_open() race against self (Michael Petlan) [2087954]
- Mon Jun 06 2022 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.69.1.el7]
 - mm: memcg: charge memsw as well in __GFP_NOFAIL case (Rafael Aquini) [2082564]
- Thu May 26 2022 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.68.1.el7]
 - libceph: fix potential use-after-free on linger ping and resends (Ilya Dryomov) [2088025]
 - xfs: use length to balance duplicate bno buffers in perag rb_tree (Brian Foster) [2050464]
 - sock: sock_dequeue_err_skb() needs hard irq safety (Kenneth Yin) [2070408]
- Tue May 17 2022 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.67.1.el7]
 - mm/rmap.c: explicitly reset vma→anon_vma in unlink_anon_vmas() (Rafael Aquini) [1824109 2069962]
 - mm/rmap.c: don't reuse anon_vma if we just want a copy (Rafael Aquini) [1824109 2069962]
 - mm/mmap.c: rb_parent is not necessary in __vma_link_list() (Rafael Aquini) [1824109 2069962]
 - mm/mmap.c: extract vma_unlink_list() as counterpart for vma_link_list() (Rafael Aquini) [1824109 2069962]
 - mm/mmap.c: __vma_unlink_prev() is not necessary now (Rafael Aquini) [1824109 2069962]
 - mm/mmap.c: prev could be retrieved from vma→vm_prev (Rafael Aquini) [1824109 2069962]
- Wed Apr 27 2022 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.66.1.el7]
 - net-sysfs: add check for netdevice being present to speed_show (William Zhao) [2055457]
 - CI: Drop baseline runs (Veronika Kabatova)
 - perf/x86/intel: Add more Icelake CPUIDs (Michael Petlan) [2072317]
 - perf vendor events intel: Add Icelake V1.00 event file (Michael Petlan) [2072317]
 - perf vendor events intel: Add core event list for Icelake Server (Michael Petlan) [2072317]
- Wed Apr 13 2022 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.65.1.el7]
 - CI: Remove deprecated option (Veronika Kabatova)
 - RDMA/core: Fix panic when port_pkey_list isn't initialized (Kamal Heib) [2046571]
- Wed Apr 06 2022 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.64.1.el7]
 - cgroup-v1: Require capabilities to set release_agent (Waiman Long) [2052162] {CVE-2022-0492}
- Wed Mar 30 2022 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.63.1.el7]

- NFSv4: Set the connection timeout to match the lease period (Benjamin Coddington) [2066699]
- SUNRPC: Allow changing of the TCP timeout parameters on the fly (Benjamin Coddington) [2066699]
- SUNRPC: Refactor TCP socket timeout code into a helper function (Benjamin Coddington) [2066699]
- SUNRPC: Remove unused function `rpc_get_timeout()` (Benjamin Coddington) [2066699]
- kernel/timer: Fix incorrect assertion in `requeue_timers()` (Waiman Long) [2048502]
- Wed Mar 23 2022 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.62.1.el7]
 - cifs: fix handling of DFS links where we can not access all components (Ronnie Sahlberg) [1937304]
 - redhat: kernel.spec: install new kernel boot entry in posttrans, not post (Denys Vlasenko) [1893756]
 - [s390] s390/cpumf: Support for CPU Measurement Facility CSVN 7 (Mete Durlu) [2048920]
 - dm table: fix `iterate_devices` based device capability checks (Mike Snitzer) [2054743]
 - buffer: eliminate the need to call `free_more_memory()` in `__getblk_slow()` (Carlos Maiolino) [2030609]
 - buffer: `grow_dev_page()` should use `__GFP_NOFAIL` for all cases (Carlos Maiolino) [2030609]
 - buffer: have `alloc_page_buffers()` use `__GFP_NOFAIL` (Carlos Maiolino) [2030609]
 - mm: memcg: do not fail `__GFP_NOFAIL` charges (Rafael Aquini) [2054345]
 - mm: filemap: do not drop action modifier flags from the `gfp_mask` passed to `__add_to_page_cache_locked()` (Rafael Aquini) [2054345]
 - Added `ZSTREAM=yes` to `makefile` (Lucas Zampieri)
- Mon Mar 07 2022 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.61.1.el7]
 - x86/efi: reset the correct `tlb_state` when returning from `efi_switch_mm()` (Rafael Aquini) [2055587]
- Wed Feb 23 2022 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.60.1.el7]
 - svcrdma: Fix leak of `svc_rdma_recv_ctxt` objects (Benjamin Coddington) [2028740]
 - sunrpc: Remove unneeded pointer dereference (Benjamin Coddington) [2028740]
 - x86/platform/uv: Add more to secondary CPU `kdump` info (Frank Ramsay) [2042462]
 - [s390] s390/AP: support new dynamic AP bus size limit (Claudio Imbrenda) [1997156]
 - CI: Enable baseline realtime checks (Veronika Kbatova)
 - CI: Rename pipelines to include release names (Veronika Kbatova)
 - RDMA/cma: Do not change `route.addr.src_addr.ss_family` (Kamal Heib) [2032075] {CVE-2021-4028}
 - `fget`: clarify and improve `__fget_files()` implementation (Miklos Szeredi) [2032478] {CVE-2021-4083}

- fget: check that the fd still exists after getting a ref to it (Miklos Szeredi) [2032478] {CVE-2021-4083}
- net: Set fput_needed iff FDPUT_FPUT is set (Miklos Szeredi) [2032478] {CVE-2021-4083}
- vfs, fdtable: Add fget_task helper (Miklos Szeredi) [2032478] {CVE-2021-4083}
- fs: add fget_many() and fput_many() (Miklos Szeredi) [2032478] {CVE-2021-4083}
- fs/file.c: __fget() and dup2() atomicity rules (Miklos Szeredi) [2032478] {CVE-2021-4083}
- vfs: Don't let __fdget_pos() get FMODE_PATH files (Miklos Szeredi) [2032478] {CVE-2021-4083}
- get rid of fget_light() (Miklos Szeredi) [2032478] {CVE-2021-4083}
- sockfd_lookup_light(): switch to fdget^wWaway from fget_light (Miklos Szeredi) [2032478] {CVE-2021-4083}
- fs: fget_light() can use fget() in slow path (Miklos Szeredi) [2032478] {CVE-2021-4083}
- fs: factor out common code in fget_light() and fget_raw_light() (Miklos Szeredi) [2032478] {CVE-2021-4083}
- fs: factor out common code in fget() and fget_raw() (Miklos Szeredi) [2032478] {CVE-2021-4083}
- introduce __fcheck_files() to fix rcu_dereference_check_fdtable(), kill rcu_my_thread_group_empty() (Miklos Szeredi) [2032478] {CVE-2021-4083}
- Wed Feb 16 2022 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.59.1.el7]
 - Revert "Merge: Fix tasks stuck in IO waiting for buffer_head lock" (Rado Vrbovsky) [2030609]
- Tue Feb 08 2022 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.58.1.el7]
 - Bluetooth: fix use-after-free error in lock_sock_nested() (Gopal Tiwari) [2005687]
 - drm/vmwgfx: Fix stale file descriptors on failed usercopy (Dave Airlie) [2047597] {CVE-2022-22942}
- Wed Feb 02 2022 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.57.1.el7]
 - fix regression in "epoll: Keep a reference on files added to the check list" (Carlos Maiolino) [2042760] {CVE-2020-0466}
 - epoll: Keep a reference on files added to the check list (Carlos Maiolino) [2042760] {CVE-2020-0466}
 - drm/i915: Flush TLBs before releasing backing store (Dave Airlie) [2044319] {CVE-2022-0330}
- Fri Jan 28 2022 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.56.1.el7]
 - RDMA/mlx5: Fix access to wrong pointer while performing flush due to error (Kamal Heib) [1984070]
 - af_unix: fix garbage collect vs MSG_PEEK (William Zhao) [2031970] {CVE-2021-0920}
 - selinux: fix race condition when computing ocontext SIDs (Ondrej Mosnacek) [2040196]
 - Bluetooth: fix the erroneous flush_work() order (Chris von Recklinghausen) [1964556] {CVE-

2021-3564}

- Tue Jan 18 2022 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.55.1.el7]
 - SUNRPC: Fix null rpc_clnt dereference in rpc_task_queued tracepoint (Benjamin Coddington) [2039508]
 - buffer: eliminate the need to call free_more_memory() in __getblk_slow() (Carlos Maiolino) [2030609]
 - buffer: grow_dev_page() should use __GFP_NOFAIL for all cases (Carlos Maiolino) [2030609]
 - buffer: have alloc_page_buffers() use __GFP_NOFAIL (Carlos Maiolino) [2030609]
 - net: add READ_ONCE() annotation in __skb_wait_for_more_packets() (Sabrina Dubroca) [2033561]
 - efi: Decode IA32/X64 Context Info structure (Aristeu Rozanski) [1950302]
 - efi: Decode IA32/X64 MS Check structure (Aristeu Rozanski) [1950302]
 - efi: Decode additional IA32/X64 Bus Check fields (Aristeu Rozanski) [1950302]
 - efi: Decode IA32/X64 Cache, TLB, and Bus Check structures (Aristeu Rozanski) [1950302]
 - efi: Decode UEFI-defined IA32/X64 Error Structure GUIDs (Aristeu Rozanski) [1950302]
 - efi: Decode IA32/X64 Processor Error Info Structure (Aristeu Rozanski) [1950302]
 - efi: Decode IA32/X64 Processor Error Section (Aristeu Rozanski) [1950302]
 - efi: Fix IA32/X64 Processor Error Record definition (Aristeu Rozanski) [1950302]
 - HID: core: Sanitize event code and type when mapping input (Aristeu Rozanski) [1920848] {CVE-2020-0465}
- Wed Jan 12 2022 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.54.1.el7]
 - block: queue lock must be acquired when iterating over rls (Ming Lei) [2029574]
 - Bluetooth: use correct lock to prevent UAF of hdev object (Chris von Recklinghausen) [1968211] {CVE-2021-3573}
 - xfs: map unwritten blocks in XFS_IOC_{ALLOC,FREE}SP just like fallocate (Carlos Maiolino) [2034857] {CVE-2021-4155}
- Thu Dec 16 2021 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.53.1.el7]
 - fuse: fix live lock in fuse_iget() (Miklos Szeredi) [1952046]
 - fuse: fix bad inode (Miklos Szeredi) [1952046]
 - GFS2: Truncate address space mapping when deleting an inode (Bob Peterson) [1364234]
 - gfs2: Fix gfs2_testbit to use clone bitmaps (Bob Peterson) [1364234]
 - gfs2: clear buf_in_tr when ending a transaction in sweep_bh_for_rgrps (Bob Peterson) [1364234]
 - gfs2: Fix oversight in gfs2_ail1_flush (Bob Peterson) [1364234]
 - gfs2: Additional information when gfs2_ail1_flush withdraws (Bob Peterson) [1364234]
 - gfs2: leaf_dealloc needs to allocate one more revoke (Bob Peterson) [1364234]

- gfs2: allow journal replay to hold sd_log_flush_lock (Bob Peterson) [1364234]
- gfs2: don't allow releasepage to free bd still used for revokes (Bob Peterson) [1364234]
- gfs2: flesh out delayed withdraw for gfs2_log_flush (Bob Peterson) [1364234]
- gfs2: Do proper error checking for go_sync family of glops functions (Bob Peterson) [1364234]
- gfs2: drain the ail2 list after io errors (Bob Peterson) [1364234]
- gfs2: Withdraw in gfs2_ail1_flush if write_cache_pages fails (Bob Peterson) [1364234]
- gfs2: Do log_flush in gfs2_ail_empty_gl even if ail list is empty (Bob Peterson) [1364234]
- gfs2: Check for log write errors before telling dlm to unlock (Bob Peterson) [1364234]
- gfs2: Prepare to withdraw as soon as an IO error occurs in log write (Bob Peterson) [1364234]
- gfs2: Issue revokes more intelligently (Bob Peterson) [1364234]
- gfs2: Add verbose option to check_journal_clean (Bob Peterson) [1364234]
- gfs2: fix infinite loop when checking ail item count before go_inval (Bob Peterson) [1364234]
- gfs2: Force withdraw to replay journals and wait for it to finish (Bob Peterson) [1364234]
- gfs2: Allow some glocks to be used during withdraw (Bob Peterson) [1364234]
- gfs2: move check_journal_clean to util.c for future use (Bob Peterson) [1364234]
- gfs2: Ignore dlm recovery requests if gfs2 is withdrawn (Bob Peterson) [1364234]
- gfs2: Only complain the first time an io error occurs in quota or log (Bob Peterson) [1364234]
- gfs2: log error reform (Bob Peterson) [1364234]
- gfs2: Rework how rgrp buffer_heads are managed (Bob Peterson) [1364234]
- gfs2: clear ail1 list when gfs2 withdraws (Bob Peterson) [1364234]
- gfs2: Introduce concept of a pending withdraw (Bob Peterson) [1364234]
- gfs2: Return bool from gfs2_assert functions (Bob Peterson) [1364234]
- gfs2: Turn gfs2_consist into void functions (Bob Peterson) [1364234]
- gfs2: Remove unused cluster_wide arguments of gfs2_consist functions (Bob Peterson) [1364234]
- gfs2: Report errors before withdraw (Bob Peterson) [1364234]
- gfs2: Split gfs2_lm_withdraw into two functions (Bob Peterson) [1364234]
- gfs2: Fix incorrect variable name (Bob Peterson) [1364234]
- gfs2: Don't write log headers after file system withdraw (Bob Peterson) [1364234]
- gfs2: clean up iopen glock mess in gfs2_create_inode (Bob Peterson) [1364234]
- gfs2: Close timing window with GLF_INVALIDATE_IN_PROGRESS (Bob Peterson) [1364234]
- gfs2: fix infinite loop in gfs2_ail1_flush on io error (Bob Peterson) [1364234]
- gfs2: Introduce function gfs2_withdrawn (Bob Peterson) [1364234]

- gfs2: replace more printk with calls to fs_info and friends (Bob Peterson) [1364234]
- gfs2: dump fsid when dumping glock problems (Bob Peterson) [1364234]
- gfs2: simplify gfs2_freeze by removing case (Bob Peterson) [1364234]
- gfs2: Rename SDF_SHUTDOWN to SDF_WITHDRAWN (Bob Peterson) [1364234]
- gfs2: Warn when a journal replay overwrites a rgrp with buffers (Bob Peterson) [1364234]
- gfs2: log which portion of the journal is replayed (Bob Peterson) [1364234]
- gfs2: slow the deluge of io error messages (Bob Peterson) [1364234]
- gfs2: Don't withdraw under a spin lock (Bob Peterson) [1364234]
- GFS2: Clear gl_object when deleting an inode in gfs2_delete_inode (Bob Peterson) [1364234]
- gfs2: Use fs_* functions instead of pr_* function where we can (Bob Peterson) [1364234]
- GFS2: Use pr_<level> more consistently (Bob Peterson) [1364234]
- Wed Dec 08 2021 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.52.1.el7]
 - acpi-cpufreq: Honor _PSD table setting on new AMD CPUs (David Arcari) [2019588]
 - x86/cpu/amd: Call init_amd_zn() on Family 19h processors too (David Arcari) [2019218]
 - x86/cpu/AMD: Fix erratum 1076 (CPB bit) (David Arcari) [2019218]
 - i40e: Fix the conditional for i40e_vc_validate_vqs_bitmaps (Stefan Assmann) [1977246]
 - i40e: Fix virtchnl_queue_select bitmap validation (Stefan Assmann) [1977246]
- Wed Nov 24 2021 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.51.1.el7]
 - mm, fs: Fix do_generic_file_read() error return (Carlos Maiolino) [2020857]
 - perf/core: Fix a memory leak in perf_event_parse_addr_filter() (Michael Petlan) [1901932]
- Thu Nov 18 2021 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.50.1.el7]
 - tcp: grow window for OOO packets only for SACK flows (Guillaume Nault) [1990665]
 - scsi: mpt3sas: Fix unlock imbalance (Tomas Henzl) [2006536]
 - pci-hyperv: Fix setting CPU affinity on Azure (Vitaly Kuznetsov) [2019272]
 - media: firewire: fireDTV-avc: fix a buffer overflow in avc_ca_pmt() (Lucas Zampieri) [1956471] {CVE-2021-42739}
- Tue Nov 09 2021 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.49.1.el7]
 - NFS: Fix interrupted slots by sending a solo SEQUENCE operation (Scott Mayhew) [2007465]
- Wed Nov 03 2021 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.48.1.el7]
 - scsi: qedf: Add check to synchronize abort and flush (Nilesh Javali) [1941766]
 - scsi: ibmvfc: Reinit target retries (Desnes A. Nunes do Rosario) [1882627]
 - scsi: ibmvfc: Avoid move login if fast fail is enabled (Desnes A. Nunes do Rosario) [1882627]
 - scsi: ibmvfc: Handle move login failure (Desnes A. Nunes do Rosario) [1882627]
 - scsi: ibmvfc: Avoid link down on FS9100 canister reboot (Desnes A. Nunes do Rosario)

[1882627]

- scsi: ibmvfc: don't check for failure from mempool_alloc() (Desnes A. Nunes do Rosario) [1882627]
- scsi: ibmvfc: Use compiler attribute defines instead of *attribute()* (Desnes A. Nunes do Rosario) [1882627]
- scsi: ibmvfc: fix misdefined reserved field in *ibmvfc_fcp_rsp_info* (Desnes A. Nunes do Rosario) [1882627]
- Wed Oct 27 2021 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.47.1.el7]
 - PCI: hv: Fix sleep while in non-sleep context when removing child devices from the bus (Mohammed Gamal) [1948961]
 - PCI: hv: Remove bus device removal unused refcount/functions (Mohammed Gamal) [1948961]
 - PCI: hv: Fix a race condition when removing the device (Mohammed Gamal) [1948961]
 - scsi: qla2xxx: Fix use after free in *eh_abort* path (Nilesh Javali) [1899599]
- Thu Oct 07 2021 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.46.1.el7]
 - RDMA/ucma: Rework *ucma_migrate_id()* to avoid races with *destroy* (Kamal Heib) [1978075] {CVE-2020-36385}
 - RDMA/ucma: Fix locking for *ctx → events_reported* (Kamal Heib) [1978075] {CVE-2020-36385}
 - RDMA/ucma: Fix the locking of *ctx → file* (Kamal Heib) [1978075] {CVE-2020-36385}
 - RDMA/cma: Add missing locking to *rdma_accept()* (Kamal Heib) [1978075] {CVE-2020-36385}
 - RDMA/ucma: Add missing locking around *rdma_leave_multicast()* (Kamal Heib) [1978075] {CVE-2020-36385}
 - RDMA/ucma: Put a lock around every call to the *rdma_cm* layer (Kamal Heib) [1978075] {CVE-2020-36385}
 - nvme-pci: Unblock *reset_work* on IO failure (Gopal Tiwari) [1981610]
 - nvme-pci: Don't disable on timeout in reset state (Gopal Tiwari) [1981610]
 - nvme-pci: shutdown on timeout during deletion (Gopal Tiwari) [1981610]
- Fri Sep 24 2021 Rado Vrbovsky <rvrbovsk@redhat.com> [3.10.0-1160.45.1.el7]
 - CI: handle RT branches in a single config (Veronika Kabatova)
 - CI: Drop private CI config (Veronika Kabatova)
 - CI: extend template use (Veronika Kabatova)
 - mm: *page_counter*: mitigate consequences of a *page_counter* underflow (Scott Wood) [2000973]
 - KVM: nSVM: always intercept VMLOAD/VMSAVE when nested (CVE-2021-3656) (Jon Maloy) [1985425] {CVE-2021-3656}
 - KVM: x86: Update vCPU's *hv_clock* before back to guest when *tsc_offset* is adjusted (Marcelo Tosatti) [1991856]

- KVM: nSVM: avoid picking up unsupported bits from L2 in int_ctl (CVE-2021-3653) (Jon Maloy) [1985408] {CVE-2021-3653}
- scsi: qedf: Initiate cleanup for ELS commands as well (Nilesh Javali) [1982702]
- Mon Sep 20 2021 Rado Vrbovsky <ravrbovsk@redhat.com> [3.10.0-1160.44.1.el7]
 - fs: dlm: change handling of reconnects (Bob Peterson) [1834878]
 - DLM: fix NULL pointer dereference in send_to_sock() (Bob Peterson) [1834878]
 - DLM: fix to reschedule rwork (Bob Peterson) [1834878]
 - DLM: fix to use sk_callback_lock correctly (Bob Peterson) [1834878]
 - DLM: fix overflow dlm_cb_seq (Bob Peterson) [1834878]
 - DLM: fix conversion deadlock when DLM_LKF_NODLCKWT flag is set (Bob Peterson) [1834878]
 - DLM: use CF_CLOSE flag to stop dlm_send correctly (Bob Peterson) [1834878]
 - DLM: Reanimate CF_WRITE_PENDING flag (Bob Peterson) [1834878]
 - DLM: fix race condition between dlm_recoverd_stop and dlm_recoverd (Bob Peterson) [1834878]
 - DLM: close othercon at send/receive error (Bob Peterson) [1834878]
 - DLM: retry rcom when dlm_wait_function is timed out. (Bob Peterson) [1834878]
 - DLM: fix to use sock_mutex correctly in xxx_accept_from_sock (Bob Peterson) [1834878]
 - DLM: fix race condition between dlm_send and dlm_rcv (Bob Peterson) [1834878]
 - DLM: fix double list_del() (Bob Peterson) [1834878]
 - DLM: Eliminate CF_WRITE_PENDING flag (Bob Peterson) [1834878]
 - KVM: do not allow mapping valid but non-reference-counted pages (Jon Maloy) [1975511]
 - vxlan: check return value of gro_cells_init() (Aristeu Rozanski) [1970618]
 - KVM: PPC: Book3S: Fix H_RTAS rets buffer overflow (Jon Maloy) [1988218] {CVE-2021-37576}
- Fri Sep 10 2021 Augusto Caringi <acaringsi@redhat.com> [3.10.0-1160.43.1.el7]
 - PCI: hv: Add support for protocol 1.3 and support PCI_BUS_RELATIONS2 (Mohammed Gamal) [1984128]
 - PCI: hv: Decouple the func definition in hv_dr_state from VSP message (Mohammed Gamal) [1984128]
 - PCI: hv: Only queue new work items in hv_pci_devices_present() if necessary (Mohammed Gamal) [1984128]
 - i40e: improve locking of mac_filter_hash (Stefan Assmann) [1993850]
 - i40e: always propagate error value in i40e_set_vsi_promisc() (Stefan Assmann) [1993850]
 - i40e: fix return of uninitialized aq_ret in i40e_set_vsi_promisc (Stefan Assmann) [1993850]
 - i40e: Remove scheduling while atomic possibility (Stefan Assmann) [1993850]
 - scsi: lpfc: Fix pt2pt discovery on SLI3 HBAs (Dick Kennedy) [1922479]

- qed: Disable "MFW indication via attention" SPAM every 5 minutes (Manish Chopra) [1854544]
- NFS: Fix a performance regression caused by buffered IO locking (Benjamin Coddington) [1995649]
- Tue Aug 31 2021 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.42.2.el7]
 - net_sched: cls_route: remove the right filter from hashtable (Ivan Vecera) [1992926]
- Thu Aug 26 2021 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.42.1.el7]
 - [s390] s390/dasd: fix list corruption of lcu list (Claudio Imbrenda) [1889418]
 - [s390] s390/dasd: fix list corruption of pavgroup group list (Claudio Imbrenda) [1889418]
 - [s390] s390/dasd: prevent inconsistent LCU device data (Claudio Imbrenda) [1889418]
 - [s390] s390/dasd: fix hanging device offline processing (Claudio Imbrenda) [1889418]
- Mon Aug 16 2021 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.41.1.el7]
 - ixgbe: fix warning: sysfs: cannot create duplicate filename (Daniel Vacek) [1915449]
- Thu Aug 05 2021 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.40.1.el7]
 - redhat: ppc64: CONFIG_RTAS_FILTER (Aristeu Rozanski) [1906443] {CVE-2020-27777}
 - powerpc/rtas: Fix typo of ibm,open-errinjct in RTAS filter (Aristeu Rozanski) [1906443] {CVE-2020-27777}
 - powerpc/rtas: Restrict RTAS requests from userspace (Aristeu Rozanski) [1906443] {CVE-2020-27777}
 - IB/mlx5: Fix initializing CQ fragments buffer (Alaa Hleihel) [1962499]
- Wed Jul 28 2021 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.39.1.el7]
 - netfilter: x_tables: fix compat match/target pad out-of-bound write (Florian Westphal) [1980489] {CVE-2021-22555}
 - Revert "be2net: disable bh with spin_lock in be_process_mcc" (Petr Oros) [1971744]
 - futex: futex_requeue can potentially free the pi_state structure twice (Donghai Qiao) [1966856]
 - xfs: sync lazy sb accounting on quiesce of read-only mounts (Carlos Maiolino) [1921551]
 - scsi: lpfc: Fix crash caused by switch reboot (Dick Kennedy) [1897576]
- Thu Jul 22 2021 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.38.1.el7]
 - seq_file: Disallow extremely large seq buffer allocations (Ian Kent) [1975251]
 - memcg, slab: Fix incorrect placement of rcu_head in struct memcg_cache_params (Waiman Long) [1951810]
 - netfilter: x_tables: Use correct memory barriers. (Phil Sutter) [1949087] {CVE-2021-29650}
 - netfilter: nf_nat: don't bug when mapping already exists (Florian Westphal) [1972970]
 - netfilter: don't setup nat info for confirmed ct (Florian Westphal) [1972970]
- Wed Jul 14 2021 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.37.1.el7]

- bluetooth: eliminate the potential race condition when removing the HCI controller (Gopal Tiwari) [1971457]
- net: Update window_clamp if SOCK_RCVBUF is set (Balazs Nemeth) [1962196]
- bpf, x86: Validate computation of branch displacements for x86-64 (Jiri Olsa) [1947249] {CVE-2021-29154}
- mm: vmalloc: add cond_resched() in __vunmap() (Rafael Aquini) [1896794]
- mm/vmalloc: __vmalloc_area_node(): avoid 32-bit overflow (Rafael Aquini) [1896794]
- Wed Jul 07 2021 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.36.1.el7]
 - cipso,calipso: resolve a number of problems with the DOI refcounts (Antoine Tenart) [1967720]
 - net: ethernet: mlx4: Fix memory allocation in mlx4_buddy_init() (Alaa Hleihel) [1962406]
 - sched/debug: Fix cgroup_path[] serialization (Waiman Long) [1912221]
 - sched/debug: Reset watchdog on all CPUs while processing sysrq-t (Waiman Long) [1912221]
 - vt: vt_ioctl: fix use-after-free in vt_in_use() (Vladis Dronov) [1872778]
 - vt: vt_ioctl: fix VT_DISALLOCATE freeing in-use virtual console (Vladis Dronov) [1872778]
 - vt: ioctl, switch VT_IS_IN_USE and VT_BUSY to inlines (Vladis Dronov) [1872778]
 - vt: selection, introduce vc_is_sel (Vladis Dronov) [1872778]
 - redhat: genspec: generate changelog entries since last release (Augusto Caringi)
- Tue Jun 29 2021 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.35.1.el7]
 - CI: Merge configuration (Veronika Kabatova)
 - [pci/aer] Work around use-after-free in pcie_do_fatal_recovery() (Al Stone) [1933663]
 - [pci/aer] do not invoke error recovery with non-fatal errors (Al Stone) [1933663]
- Tue Jun 22 2021 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.34.1.el7]
 - futex: remove lockdep_assert_held() in pi_state_update_owner() (Donghai Qiao) [1965495]
 - video: hyperv_fb: Add ratelimit on error message (Mohammed Gamal) [1957803]
 - Drivers: hv: vmbus: Increase wait time for VMbus unload (Mohammed Gamal) [1957803]
 - Drivers: hv: vmbus: Initialize unload_event statically (Mohammed Gamal) [1957803]
 - blk-mq: always allow reserved allocation in hctx_may_queue (Ming Lei) [1926825]
 - s390/pci: fix out of bounds access during irq setup (Philipp Rudo) [1917943]
 - s390/pci: improve irq number check for msix (Philipp Rudo) [1917943]
- Thu Jun 17 2021 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.33.1.el7]
 - CI: Disable result checking for realtime check (Veronika Kabatova)
 - CI: Explicitly disable result checking for private CI (Veronika Kabatova)
 - CI: Rename variable (Veronika Kabatova)
 - mm: memcontrol: switch to rcu protection in drain_all_stock() (Waiman Long) [1957719]

- sctp: Don't add the shutdown timer if its already been added (Xin Long) [1953052]
- media: xirlink_cit: add missing descriptor sanity checks (Mark Langsdorf) [1826877] {CVE-2020-11668}
- Wed Jun 09 2021 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.32.1.el7]
 - Bluetooth: verify AMP hci_chan before amp_destroy (Gopal Tiwari) [1962532] {CVE-2021-33034}
 - net: ipv4: route: Fix sending IGMP messages with link address (Hangbin Liu) [1958339]
 - hv_netvsc: remove ndo_poll_controller (Mohammed Gamal) [1953075]
 - Fix double free in nvme_trans_log_temperature (Gopal Tiwari) [1946793]
 - rcu: Call touch_nmi_watchdog() while printing stall warnings (Artem Savkov) [1924688]
 - sched/fair: Use RCU accessors consistently for →numa_group (Rafael Aquini) [1915635] {CVE-2019-20934}
 - sched/fair: Don't free p→numa_faults with concurrent readers (Rafael Aquini) [1915635] {CVE-2019-20934}
 - sched/numa: Simplify task_numa_compare() (Rafael Aquini) [1915635] {CVE-2019-20934}
 - sched/numa: Fix task_numa_free() lockdep splat (Rafael Aquini) [1915635] {CVE-2019-20934}
 - sched/numa: Move task_numa_free() to __put_task_struct() (Rafael Aquini) [1915635] {CVE-2019-20934}
 - [s390] s390/dasd: fix diag 0x250 inline assembly (Philipp Rudo) [1910395]
 - vsock/vmci: log once the failed queue pair allocation (Stefano Garzarella) [1892237]
 - VMCI: Stop log spew when qp allocation isn't possible (Stefano Garzarella) [1892237]
- Wed May 26 2021 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.31.1.el7]
 - mm/userfaultfd: do not access vma→vm_mm after calling handle_userfault() (Philipp Rudo) [1917840]
 - scsi: qla2xxx: Fix the call trace for flush workqueue (Nilesh Javali) [1937945]
 - futex: Handle faults correctly for PI futexes (Donghai Qiao) [1935108] {CVE-2021-3347}
 - futex: Provide and use pi_state_update_owner() (Donghai Qiao) [1935108] {CVE-2021-3347}
 - futex: Replace pointless printk in fixup_owner() (Donghai Qiao) [1935108] {CVE-2021-3347}
 - futex: Ensure the correct return value from futex_lock_pi() (Donghai Qiao) [1935108] {CVE-2021-3347}
 - scsi: qla2xxx: Remove WARN_ON_ONCE in qla2x00_status_cont_entry() (Nilesh Javali) [1933784]
 - scsi: zfcp: add handling for FCP_RESID_OVER to the fcp ingress path (Philipp Rudo) [1917839]
 - net: netfilter: Avoid deadlock when loading logger backend (Phil Sutter) [1858329]
 - net: netfilter: Link nfnetlink into bzImage (Phil Sutter) [1858329]

- Wed May 19 2021 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.30.1.el7]
 - pf: Prohibit alu ops for pointer types not defining ptr_limit (Jiri Olsa) [1942689] {CVE-2020-27170}
 - bpf: Add sanity check for upper ptr_limit (Jiri Olsa) [1942689] {CVE-2020-27170}
 - bpf: Simplify alu_limit masking for pointer arithmetic (Jiri Olsa) [1942689] {CVE-2020-27170}
 - bpf: Fix off-by-one for area size in creating mask to left (Jiri Olsa) [1942689] {CVE-2020-27170}
 - netxen_nic: fix MSI/MSI-x interrupts (Tony Camuso) [1894274]
 - block: fix use-after-free on cached last_lookup partition (Ming Lei) [1898596]
 - mm: reduce struct page_cgroup overhead when page_owner is not enabled (Rafael Aquini) [1948451]
 - vt: selection, close sel_buffer race (Chris von Recklinghausen) [1831034] {CVE-2020-8648}
- Wed May 12 2021 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.29.1.el7]
 - drm/i915: warn on guc enable about CVE (Dave Airlie) [1935277] {CVE-2020-12362}
 - sched: prevent divide by zero error in scale_rt_power() (Phil Auld) [1910763]
 - x86/efi: reset the correct tlb_state in efi_switch_mm() (Rafael Aquini) [1837531]
 - x86/mm, sched/core: Turn off IRQs in switch_mm() (Rafael Aquini) [1837531]
 - x86/mm, sched/core: Uninline switch_mm() (Rafael Aquini) [1837531]
 - x86/mm: Build arch/x86/mm/tlb.c even on !SMP (Rafael Aquini) [1837531]
 - hpsa: fix regression issue for old controllers (Joseph Szczypek) [1830268]
 - scsi: hpsa: Correct dev cmds outstanding for retried cmds (Joseph Szczypek) [1830268]
- Tue May 04 2021 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.28.1.el7]
 - i40e: acquire VSI pointer only after VF is initialized (Stefan Assmann) [1886003]
 - ACPICA: Store GPE register enable masks upfront (Al Stone) [1883174]
 - netfilter: nf_tables: validate NFTA_SET_TABLE parameter (Phil Sutter) [1873171]
 - sctp: change to hold/put transport for proto_unreach_timer (Xin Long) [1707184]
- Wed Apr 28 2021 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.27.1.el7]
 - video: hyperv: hyperv_fb: Obtain screen resolution from Hyper-V host (Mohammed Gamal) [1941841]
 - Drivers: hv: vmbus: enable VMBus protocol version 5.0 (Mohammed Gamal) [1941841]
 - redhat: Add git suffix to realtime_check merge_tree (Juri Lelli)
- Tue Apr 20 2021 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.26.1.el7]
 - selinux: fix deadlock in security_set_bools() (Ondrej Mosnacek) [1939091]
 - md: fix md io stats accounting broken (Ming Lei) [1927106]
 - redhat: Fix realtime_check for -private (Juri Lelli)

- Tue Apr 13 2021 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.25.1.el7]
 - redhat: Enable CKI RT verification for kernel-private (Juri Lelli)
 - redhat: Enable CKI RT verification (Juri Lelli)
 - RDMA/ipoib: Remove racy Subnet Manager sendonly join checks (Honggang Li) [1922460]
 - net: sched: protect against stack overflow in TC act_mirred (Davide Caratti) [1916682]
 - floppy: check_events callback should not return a negative number (Jay Shin) [1928576]
 - floppy: fix lock_fdc() signal handling (Jay Shin) [1928576]
 - ipv6: clean up anycast when an interface is destroyed (Xin Long) [1917700]
 - virtio_net: fix virtnet_open and virtnet_probe competing for try_fill_recv (Laurent Vivier) [1895319]
- Thu Mar 25 2021 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.24.1.el7]
 - scsi: iscsi: Verify lengths on passthrough PDUs (Chris Leech) [1930826] {CVE-2021-27365}
 - scsi: iscsi: Ensure sysfs attributes are limited to PAGE_SIZE (Chris Leech) [1930849] {CVE-2021-27363}
 - scsi: iscsi: Restrict sessions and handles to admin capabilities (Chris Leech) [1930807] {CVE-2021-27364}
 - redhat: add CI file for kernel-private (Bruno Meneguele)
- Thu Mar 18 2021 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.23.1.el7]
 - tcm_loop: add WQ_MEM_RECLAIM and flush_work (Maurizio Lombardi) [1925652]
 - net/mlx4_en: Handle TX error CQE (Alaa Hleihel) [1925691]
 - net/mlx4_en: Avoid scheduling restart task if it is already running (Alaa Hleihel) [1925691]
- Fri Mar 12 2021 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.22.1.el7]
 - mm: do not stall register_shrinker() (Rafael Aquini) [1926043]
 - sched/rt: Fix PI handling vs. sched_setscheduler() (Phil Auld) [1928082]
 - sched/rt: Simplify pull_rt_task() logic and remove .leaf_rt_rq_list (Phil Auld) [1928082]
 - sched: Queue RT tasks to head when prio drops (Phil Auld) [1928082]
 - sched/core: Use READ_ONCE()/WRITE_ONCE() in move_queued_task()/task_rq_lock() (Phil Auld) [1928082]
 - mmc: block: handle complete_work on separate workqueue (Ming Lei) [1918916]
 - tcp: fix to update snd_wl1 in bulk receiver fast path (Vladis Dronov) [1929804]
- Mon Feb 22 2021 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.21.1.el7]
 - [pinctrl] devicetree: Avoid taking direct reference to device name string (Aristeu Rozanski) [1922902] {CVE-2020-0427}
 - [pinctrl] Delete an error message (Aristeu Rozanski) [1922902] {CVE-2020-0427}
 - [tty] vt: keyboard, reorder user buffer handling in vt_do_kdkgb_ioctl (Aristeu Rozanski) [1896775] {CVE-2020-25656}

- [tty] vt: keyboard, rename i to kb_func in vt_do_kdgkb_ioctl (Aristeu Rozanski) [1896775] {CVE-2020-25656}
- [tty] vt: keyboard, extend func_buf_lock to readers (Aristeu Rozanski) [1896775] {CVE-2020-25656}
- [tty] vt: keyboard, simplify vt_kdgkbsent (Aristeu Rozanski) [1896775] {CVE-2020-25656}
- [tty] keyboard, do not speculate on func_table index (Aristeu Rozanski) [1896775] {CVE-2020-25656}
- [tty] vt: fix write/write race in ioctl(KDSKBSENT) handler (Aristeu Rozanski) [1896775] {CVE-2020-25656}
- [iommu] amd: return error on real irq alloc failure (Jerry Snitselaar) [1918273]
- [iommu] amd: Set DTE[IntTabLen] to represent 512 IRTEs (Jerry Snitselaar) [1921187]
- [iommu] amd: Increase interrupt remapping table limit to 512 entries (Jerry Snitselaar) [1921187]
- [scsi] lpfc: Fix LUN loss after cable pull (Dick Kennedy) [1875961]
- [scsi] lpfc: Fix NVMe rport deregister and registration during ADISC (Dick Kennedy) [1875961]
- [scsi] lpfc: Fix ADISC reception terminating login state if a NVME target (Dick Kennedy) [1875961]
- [netdrv] i40e: revert "i40e: don't report link up for a VF who hasn't enabled queues" (Stefan Assmann) [1901064]
- Thu Feb 18 2021 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.20.1.el7]
 - [md] Set prev_flush_start and flush_bio in an atomic way (Xiao Ni) [1889372]
 - [md] improve variable names in md_flush_request() (Xiao Ni) [1889372]
 - [kernel] timer: Fix potential bug in requeue_timers() (Waiman Long) [1914011]
 - [x86] kvm: reinstate vendor-agnostic check on SPEC_CTRL cpuid bits (Vitaly Kuznetsov) [1890669]
 - [x86] kvm: avoid incorrect writes to host MSR_IA32_SPEC_CTRL (Vitaly Kuznetsov) [1890669]
 - [md] dm-mirror: fix a crash if the underlying block device doesn't have merge_bvec_fn (Mikulas Patocka) [1916407]
 - [gpu] drm/i915: Fix use-after-free when destroying GEM context (Dave Airlie) [1814731] {CVE-2020-7053}
- Tue Feb 09 2021 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.19.1.el7]
 - [kernel] watchdog: use nmi registers snapshot in hardlockup handler (Prarit Bhargava) [1916589]
 - [nvme] nvmet: allow Keep Alive for Discovery controller (Gopal Tiwari) [1910817]
 - [net] netfilter: ctnetlink: add a range check for l3/l4 protonum (Florian Westphal) [1888296] {CVE-2020-25211}
 - [net] icmp: randomize the global rate limiter (Antoine Tenart) [1896515] {CVE-2020-25705}

- Fri Jan 29 2021 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.18.1.el7]
 - [fs] nfs: Fix security label length not being reset (Dave Wysochanski) [1917504]
 - [target] scsi: Fix XCOPY NAA identifier lookup (Maurizio Lombardi) [1900469] {CVE-2020-28374}
 - [ipc] sem.c: fully initialize sem_array before making it visible (Vladis Dronov) [1877264]
 - [netdrv] geneve: add transport ports in route lookup for geneve (Sabrina Dubroca) [1885144] {CVE-2020-25645}
 - [kernel] perf/core: Fix race in the perf_mmap_close() function (Michael Petlan) [1869936] {CVE-2020-14351}
- Mon Jan 25 2021 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.17.1.el7]
 - [x86] kvm: svm: Initialize prev_ga_tag before use ("Dr. David Alan Gilbert") [1909036]
 - [scsi] scsi_dh: fix scheduling while atomic and also missing unlock in error path (Mike Snitzer) [1619147]
 - [video] hyperv_fb: Fix the cache type when mapping the VRAM (Mohammed Gamal) [1908896]
 - [video] hyperv: hyperv_fb: Support deferred IO for Hyper-V frame buffer driver (Mohammed Gamal) [1908896]
 - [scsi] target: iscsi: Fix cmd abort fabric stop race (Maurizio Lombardi) [1784540]
 - [scsi] target/iscsi: Avoid iscsit_release_commands_from_conn() deadlock (Maurizio Lombardi) [1784540]
 - [s390] kernel/uv: handle length extension properly (Claudio Imbrenda) [1899172]
- Tue Jan 19 2021 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.16.1.el7]
 - [tty] Fix → pgrp locking in tiocspgrp() (Chris von Recklinghausen) [1908193] {CVE-2020-29661}
 - [net] fix struct pid memory leak (Jay Shin) [1901797]
 - [hid] Fix assumption that devices have inputs (Chris von Recklinghausen) [1821870] {CVE-2019-19532}
 - [hid] microsoft: the driver now need MEMLESS_FF infrastructure (Chris von Recklinghausen) [1821870] {CVE-2019-19532}
 - [hid] microsoft: Add rumble support for Xbox One S controller (Chris von Recklinghausen) [1821870] {CVE-2019-19532}
 - [hid] microsoft: Convert private data to be a proper struct (Chris von Recklinghausen) [1821870] {CVE-2019-19532}
 - [hid] revert "hid: microsoft: fix invalid rdesc for 3k kbd" (Chris von Recklinghausen) [1821870] {CVE-2019-19532}
 - [hid] input: ignore System Control application usages if not System Controls (Chris von Recklinghausen) [1821870] {CVE-2019-19532}
 - [hid] hid-microsoft: Do the check for the ms usage page per device (Chris von

- Recklinghausen) [1821870] {CVE-2019-19532}
- [net] net-sysfs: take the rtnl lock when accessing xps_cpus_map and num_tc (Antoine Tenart) [1903819]
- [net] net-sysfs: take the rtnl lock when storing xps_cpus (Antoine Tenart) [1903819]
- Mon Jan 11 2021 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.15.1.el7]
 - [fs] ceph: quota: fix null pointer dereference in quota check (Jeff Layton) [1890386]
 - [netdrv] revert "mlx5e: ethtool, Remove unsupported SFP EEPROM high pages query" (Alaa Hleihel) [1896756]
 - [kernel] timekeeping_Force_unsigned_clocksource_to_nanoseconds_conversion (Waiman Long) [1890911]
 - [kernel] exit: Optimize forget_original_parent() for large thread group exiting (Waiman Long) [1872110]
 - [kernel] exit: reparent: call forget_original_parent() under tasklist_lock (Waiman Long) [1872110]
 - [kernel] Disable tasklist_waiters when qrwlock is enabled (Waiman Long) [1872110]
 - [fs] cifs: handle ERRBaduid for SMB1 (Leif Sahlberg) [1847041]
- Mon Dec 21 2020 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.14.1.el7]
 - [fs] nfsd: fix incorrect umasks ("J. Bruce Fields") [1905208]
 - [hv] vmbus: Add timeout to vmbus_wait_for_unload (Mohammed Gamal) [1888979]
 - [scsi] qla2xxx: Fix device loss on 4G and older HBAs (Nilesh Javali) [1889311]
 - [s390] dasd: Fix zero write for FBA devices (Philipp Rudo) [1896839]
 - [net] ipv6: use in6_dev_put in dad timer handler instead of __in6_dev_put (Xin Long) [1809519]
- Mon Dec 14 2020 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.13.1.el7]
 - [s390] zcrypt: Fix ZCRYPT_PERDEV_REQCNT ioctl (Philipp Rudo) [1896826]
 - [block] block/diskstats: more accurate approximation of io_ticks for slow disks (Ming Lei) [1859364]
 - [block] block: delete part_round_stats and switch to less precise counting (Ming Lei) [1859364]
 - [md] dm: simplify start of block stats accounting for bio-based (Ming Lei) [1859364]
 - [block] block/rsxx: use generic io stats accounting functions to simplify io stat accounting (Ming Lei) [1859364]
 - [block] drbd: use generic io stats accounting functions to simplify io stat accounting (Ming Lei) [1859364]
 - [md] md: use generic io stats accounting functions to simplify io stat accounting (Ming Lei) [1859364]
 - [nvme] limit number of IO queues on Dell/Kioxia config (Gopal Tiwari) [1883403]

- [netdrv] hv_netvsc: make recording RSS hash depend on feature flag (Mohammed Gamal) [1898280]
- [netdrv] hv_netvsc: record hardware hash in skb (Mohammed Gamal) [1898280]
- [fs] block: Fix use-after-free in blkdev_get() (Ming Lei) [1902414] {CVE-2020-15436}
- Mon Dec 07 2020 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.12.1.el7]
 - [mm] mmap: relax file size limit for regular files (Rafael Aquini) [1855985]
 - [mm] mmap: introduce sane default mmap limits (Rafael Aquini) [1855985]
 - [of] Move dynamic node fixups out of powerpc and into common code (Laurent Vivier) [1866138]
 - [fs] nfs: Fix double-free in filelayout_alloc_commit_info/filelayout_free_lseg (Benjamin Coddington) [1679980]
 - [hid] HID: hid-plantronics: Re-resend Update to map button for PTT products (Torez Smith) [1769502]
 - [fs] dlm: make posix locks interruptible (Alexander Aring) [1826858]
- Mon Nov 30 2020 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.11.1.el7]
 - [netdrv] hdlc_ppp: add range checks in ppp_cp_parse_cr() (Guillaume Nault) [1882078] {CVE-2020-25643}
 - [fs] ext4: fix potential negative array index in do_split() (Pavel Reichl) [1846164] {CVE-2020-14314}
 - [fs] nfsd: apply umask on fs without ACL support ("J. Bruce Fields") [1870215] {CVE-2020-24394}
 - [kernel] watchdog/core: Remove the park_in_progress obfuscation (Waiman Long) [1860661]
 - [mm] swap_slots: recheck cache → slots_ret under spin_lock_irq() protection (Rafael Aquini) [1862915]
 - [netdrv] ethernet: i40e: Set RX_ONLY mode for unicast promiscuous on VLAN (Stefan Assmann) [1845677]
 - [infiniband] mlx5: Fix use-after-free in dereg_mr() (Alaa Hleihel) [1880184]
- Tue Nov 24 2020 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.10.1.el7]
 - [md] dm-mirror: provide the merge method (Mikulas Patocka) [1890059]
 - [nvme] nvme-rdma: cancel async events before freeing event struct (David Milburn) [1857397]
 - [s390] dasd: Use struct_size() helper (Sterling Alexander) [1886477]
 - [s390] dasd: fix inability to use DASD with DIAG driver (Sterling Alexander) [1886477]
 - [hv] hv_utils: drain the timesync packets on onchannelcallback (Vitaly Kuznetsov) [1884735]
 - [hv] hv_utils: return error if host timesync update is stale (Vitaly Kuznetsov) [1884735]
 - [x86] cpu: Re-apply forced caps every time CPU caps are re-read (Herbert Xu) [1886792]
 - [x86] cpu: Factor out application of forced CPU caps (Herbert Xu) [1886792]

- Mon Nov 16 2020 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.9.1.el7]
 - [hv] hv: vmbus: Only notify Hyper-V for die events that are oops (Vitaly Kuznetsov) [1868130]
 - [uapi] include: do not export changes made to struct ip_ct_sctp (Florian Westphal) [1887975]
 - [net] openvswitch: free vport unless register_netdevice() succeeds (Timothy Redaelli) [1869190]
 - [net] openvswitch: do not free vport if register_netdevice() is failed (Timothy Redaelli) [1869190]
 - [kernel] signals: avoid random wakeups in sigsuspend() (Oleg Nesterov) [1704650]
 - [fs] nfs: Fix getxattr kernel panic and memory overflow (Benjamin Coddington) [1880893] {CVE-2020-25212}
- Sun Nov 08 2020 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.8.1.el7]
 - [kernel] sched/fair: Fix RCU stall upon -ENOMEM in sched_create_group() (Kenneth Yin) [1878000]
 - [security] selinux: do not report error on connect(AF_UNSPEC) (Paolo Abeni) [1886305]
 - [kernel] timer: Fix lockup in __run_timers() caused by large jiffies/timer_jiffies delta (Waiman Long) [1849716]
 - [mm] revert "mm/page_alloc: fix memmap_init_zone pageblock alignment" (Artem Savkov) [1878732]
 - [mm] page_alloc: Make paranoid check in move_freepages a VM_BUG_ON (Artem Savkov) [1878732]
 - [nvme] rdma: Avoid double freeing of async event data (Gopal Tiwari) [1878950]
 - [pci] hv: Fix a timing issue which causes kdump to fail occasionally (Mohammed Gamal) [1846667]
- Thu Oct 29 2020 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.7.1.el7]
 - [fs] xfs: fix off-by-one in inode alloc block reservation calculation (Brian Foster) [1857203]
 - [fs] xfs: fix inode allocation block res calculation precedence (Brian Foster) [1857203]
 - [powerpc] powernv/dump: Handle multiple writes to ack attribute (Gustavo Duarte) [1873189]
 - [powerpc] powernv/dump: Fix race while processing OPAL dump (Gustavo Duarte) [1873189]
 - [powerpc] powernv: opal-dump: Use IRQ_HANDLED instead of numbers in interrupt handler (Gustavo Duarte) [1873189]
 - [powerpc] opal_elog: Handle multiple writes to ack attribute (Gustavo Duarte) [1873189]
 - [powerpc] powernv/elog: Fix race while processing OPAL error log event (Gustavo Duarte) [1873189]
 - [powerpc] powernv Adapt opal-elog and opal-dump to new sysfs_remove_file_self (Gustavo Duarte) [1873189]

- [powerpc] powernv: Fix opal-elog interrupt handler (Gustavo Duarte) [1873189]
- [net] flow_dissector: switch to siphash (Davide Caratti) [1835614] {CVE-2019-18282}
- [fs] xfs: fix boundary test in xfs_attr_shortform_verify (Eric Sandeen) [1875317] {CVE-2020-14385}
- [fs] cifs: make 'nodfs' mount opt a superblock flag (Leif Sahlberg) [1873033]
- [crypto] crypto: authenc - fix parsing key with misaligned rta_len (Herbert Xu) [1846355] {CVE-2020-10769}
- Wed Oct 21 2020 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.6.1.el7]
 - [net] netfilter: nf_queue: place bridge physports into queue_entry struct (Florian Westphal) [1885682]
 - [net] netfilter: nf_queue: do not release refcounts until nf_reinject is done (Florian Westphal) [1885682]
 - [net] netfilter: nf_queue: make nf_queue_entry_release_refs static (Florian Westphal) [1885682]
 - [net] bluetooth: l2cap: Fix calling sk_filter on non-socket based channel (Gopal Tiwari) [1888253] {CVE-2020-12351}
 - [net] bluetooth: a2mp: Fix not initializing all members (Gopal Tiwari) [1888797] {CVE-2020-12352}
- Thu Oct 15 2020 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.5.1.el7]
 - [x86] x86/PCI: Mark Intel C620 MROMs as having non-compliant BARs (Myron Stowe) [1849223]
 - [kernel] uprobes: Change handle_swbp() to send SIGTRAP with si_code=SI_KERNEL, to fix GDB regression (Oleg Nesterov) [1861396]
 - [video] vgacon: Fix for missing check in scrollbar handling (Lyude Paul) [1859468] {CVE-2020-14331}
 - [pci] hv: Retry PCI bus D0 entry on invalid device state (Mohammed Gamal) [1846667]
 - [pci] hv: Fix the PCI HyperV probe failure path to release resource properly (Mohammed Gamal) [1846667]
 - [x86] xen: Add call of speculative_store_bypass_ht_init() to PV paths (Vladis Dronov) [1882468]
 - [powerpc] powerpc/smp: Use nid as fallback for package_id (Desnes Augusto Nunes do Rosario) [1826306]
 - [powerpc] powerpc/smp: Add Power9 scheduler topology (Desnes Augusto Nunes do Rosario) [1826306]
 - [kernel] sched: Add a new SD_SHARE_POWERDOMAIN for sched_domain (Desnes Augusto Nunes do Rosario) [1826306]
 - [powerpc] sched, powerpc: Create a dedicated topology table (Desnes Augusto Nunes do Rosario) [1826306]

- [s390] sched, s390: Create a dedicated topology table (Desnes Augusto Nunes do Rosario) [1826306]
- [s390] s390/topology: Remove call to update_cpu_masks() (Desnes Augusto Nunes do Rosario) [1826306]
- [powerpc] powerpc/smp: Add cpu_l2_cache_map (Desnes Augusto Nunes do Rosario) [1826306]
- [powerpc] powerpc/smp: Rework CPU topology construction (Desnes Augusto Nunes do Rosario) [1826306]
- [powerpc] powerpc/smp: Use cpu_to_chip_id() to find core siblings (Desnes Augusto Nunes do Rosario) [1826306]
- [powerpc] powerpc, hotplug: Avoid to touch non-existent cpumasks (Desnes Augusto Nunes do Rosario) [1826306]
- Mon Oct 05 2020 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.4.1.el7]
 - [block] virtio-blk: handle block_device_operations callbacks after hot unplug (Stefan Hajnoczi) [1811893]
 - [scsi] Revert "scsi: qla2xxx: Fix crash on qla2x00_mailbox_command" (Nilesh Javali) [1826127]
 - [scsi] scsi: qla2xxx: Fix stale mem access on driver unload (Nilesh Javali) [1826127]
 - [scsi] scsi: qedf: Fix crash when MFW calls for protocol stats while function is still probing (Nilesh Javali) [1836443]
 - [scsi] scsi: qedf: Keep track of num of pending flogi (Nilesh Javali) [1836443]
 - [scsi] scsi: qedf: Fix race between fipvlan request and response path (Nilesh Javali) [1836443]
 - [scsi] scsi: qedf: Decrease the LL2 MTU size to 2500 (Nilesh Javali) [1836443]
 - [scsi] scsi: qedf: Check for module unloading bit before processing link update AEN (Nilesh Javali) [1836443]
 - [scsi] scsi: qedf: Initiator fails to re-login to switch after link down (Nilesh Javali) [1836443]
 - [scsi] scsi: qedf: Fix crash during sg_reset (Nilesh Javali) [1836443]
 - [scsi] scsi: qedf: Stop sending fipvlan request on unload (Nilesh Javali) [1836443]
 - [message] scsi: mptscsih: Fix read sense data size (Tomas Henzl) [1829803]
 - [scsi] scsi: megaraid_sas: Clear affinity hint (Tomas Henzl) [1828312]
- Sun Sep 27 2020 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.3.1.el7]
 - [net] net-sysfs: Call dev_hold always in rx_queue_add_kobject (Hangbin Liu) [1846454] {CVE-2019-20811}
 - [net] net-sysfs: Call dev_hold always in netdev_queue_add_kobject (Hangbin Liu) [1846454] {CVE-2019-20811}
 - [net] net-sysfs: call dev_hold if kobject_init_and_add success (Hangbin Liu) [1846454] {CVE-2019-20811}
 - [netdrv] macvlan: Change status when lower device goes down (Hangbin Liu) [1848950]

- [netdrv] macvlan: make operstate and carrier more accurate (Hangbin Liu) [1848950]
- [infiniband] RDMA/ipoib: Fix ABBA deadlock with ipoib_reap_ah() (Kamal Heib) [1858707]
- [infiniband] RDMA/ipoib: Return void from ipoib_ib_dev_stop() (Kamal Heib) [1858707]
- [net] tcp: limit sk_write_qlen based on sndbuf size (Florian Westphal) [1847765]
- [netdrv] net/mlx5e: Modify uplink state on interface up/down (Alaa Hleihel) [1733181]
- [netdrv] net/mlx5: E-Switch, Disable esw manager vport correctly (Alaa Hleihel) [1733181]
- [netdrv] net/mlx5: E-Switch, Properly refer to host PF vport as other vport (Alaa Hleihel) [1733181]
- Mon Sep 21 2020 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.2.1.el7]
 - [edac] EDAC/i10nm: Update driver to support different bus number config register offsets (Aristeu Rozanski) [1840276]
 - [edac] EDAC, {skx, i10nm}: Make some configurations CPU model specific (Aristeu Rozanski) [1840276]
 - [net] test nouarg before dereferencing zerocopy pointers (Patrick Talbert) [1862273]
 - [net] packet: copy user buffers before orphan or clone (Patrick Talbert) [1862273]
 - [netdrv] net/mlx5e: Fix deallocation of non-fully init encap entries (Alaa Hleihel) [1874101]
 - [netdrv] net/mlx5e: Allow concurrent creation of encap entries (Alaa Hleihel) [1874101]
 - [netdrv] net/mlx5e: Protect encap hash table with mutex (Alaa Hleihel) [1874101]
- Fri Sep 04 2020 Augusto Caringi <acaringi@redhat.com> [3.10.0-1160.1.1.el7]
 - [net] netfilter: conntrack: allow sctp heartbeat after connection re-use (Florian Westphal) [1869751]
 - [scsi] scsi: ses: don't ask for diagnostic pages repeatedly during probe (Maurizio Lombardi) [1855324]
- Tue Aug 18 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1160.el7]
 - [kernel] modsign: Add nomokvarconfig kernel parameter (Lenny Szubowicz) [1867857]
 - [firmware] modsign: Add support for loading certs from the EFI MOK config table (Lenny Szubowicz) [1867857]
 - [kernel] modsign: Move import of MokListRT certs to separate routine (Lenny Szubowicz) [1867857]
 - [kernel] modsign: Avoid spurious error message after last MokListRTn (Lenny Szubowicz) [1867857]
- Thu Aug 06 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1159.el7]
 - [kernel] modsign: Import certificates from optional MokListRT (Lenny Szubowicz) [1862840]
 - [crypto] crypto/pefile: Support multiple signatures in verify_pefile_signature (Lenny Szubowicz) [1862840]
 - [crypto] crypto/pefile: Tolerate other pefile signatures after first (Lenny Szubowicz) [1862840]

- Thu Jul 16 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1158.el7]
 - [redhat] switch secureboot kernel image signing to release keys (Jan Stancek) []
- Wed Jul 15 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1157.el7]
 - [fs] signal: Don't send signals to tasks that don't exist (Vladis Dronov) [1856166]
- Fri Jul 10 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1156.el7]
 - [fs] gfs2: Fix regression due to unwanted gfs2_qa_put (Robert S Peterson) [1798713]
 - [include] signal: Unfairly acquire tasklist_lock in send_sigio() if irq disabled (Waiman Long) [1838799]
 - [fs] signal: Don't take tasklist_lock if PID type is PIDTYPE_PID (Waiman Long) [1838799]
 - [vfio] vfio/pci: Fix SR-IOV VF handling with MMIO blocking (Alex Williamson) [1820632] {CVE-2020-12888}
- Thu Jul 09 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1155.el7]
 - [x86] Revert "x86: respect memory size limiting via mem= parameter" (Joel Savitz) [1851576]
 - [mm] Revert "mm/memory_hotplug.c: only respect mem= parameter during boot stage" (Joel Savitz) [1851576]
 - [fs] nfsd: only WARN once on unmapped errors ("J. Bruce Fields") [1850430]
 - [powerpc] pci/of: Fix OF flags parsing for 64bit BARs (Greg Kurz) [1840114]
 - [fs] cifs: fix NULL dereference in match_prepath (Leif Sahlberg) [1759852]
- Thu Jul 02 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1154.el7]
 - [fs] gfs2: move privileged user check to gfs2_quota_lock_check (Robert S Peterson) [1798713]
 - [fs] gfs2: Fix problems regarding gfs2_qa_get and _put (Robert S Peterson) [1798713]
 - [fs] gfs2: don't call quota_unhold if quotas are not locked (Robert S Peterson) [1798713]
 - [fs] gfs2: Remove unnecessary gfs2_qa_{get, put} pairs (Robert S Peterson) [1798713]
 - [fs] gfs2: Split gfs2_rsqa_delete into gfs2_rs_delete and gfs2_qa_put (Robert S Peterson) [1798713]
 - [fs] gfs2: Change inode qa_data to allow multiple users (Robert S Peterson) [1798713]
 - [fs] gfs2: eliminate gfs2_rsqa_alloc in favor of gfs2_qa_alloc (Robert S Peterson) [1798713]
 - [fs] gfs2: Switch to list_{first,last}_entry (Robert S Peterson) [1798713]
 - [fs] gfs2: Clean up inode initialization and teardown (Robert S Peterson) [1798713]
 - [fs] gfs2: Minor gfs2_alloc_inode cleanup (Robert S Peterson) [1798713]
 - [fs] gfs2: Fix busy-on-umount in gfs2_atomic_open() (Andrew Price) [1812558]
- Sat Jun 27 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1153.el7]
 - [x86] mm: Fix mremap not considering huge pmd devmap (Rafael Aquini) [1843437] {CVE-2020-10757}
 - [mm] mm, dax: check for pmd_none() after split_huge_pmd() (Rafael Aquini) [1843437] {CVE-2020-10757}

- [mm] mm: mremap: streamline move_page_tables()'s move_huge_pmd() corner case (Rafael Aquini) [1843437] {CVE-2020-10757}
- [mm] mm: mremap: validate input before taking lock (Rafael Aquini) [1843437] {CVE-2020-10757}
- [wireless] mwifiex: Fix possible buffer overflows in mwifiex_ret_wmm_get_status() (Jarod Wilson) [1844070] {CVE-2020-12654}
- [wireless] mwifiex: Fix possible buffer overflows in mwifiex_cmd_append_vsie_tlv() (Jarod Wilson) [1844026] {CVE-2020-12653}
- [net] netfilter: nf_conntrack_h323: lost .data_len definition for Q.931/ipv6 (Florian Westphal) [1845428]
- Fri Jun 19 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1152.el7]
 - [nvmmem] nvmmem: properly handle returned value nvmmem_reg_read (Vladis Dronov) [1844409]
 - [mailbox] PCC: fix dereference of ERR_PTR (Vladis Dronov) [1844409]
 - [kernel] futex: Unlock hb→lock in futex_wait_requeue_pi() error path (Vladis Dronov) [1844409]
 - [fs] aio: fix inconsistent ring state (Jeff Moyer) [1845326]
 - [vfio] vfio/mdev: make create attribute static (Vladis Dronov) [1837549]
 - [vfio] treewide: Replace GPLv2 boilerplate/reference with SPDX - rule 500 (Vladis Dronov) [1837549]
 - [vfio] vfio/mdev: Synchronize device create/remove with parent removal (Vladis Dronov) [1837549]
 - [vfio] vfio/mdev: Avoid creating sysfs remove file on stale device removal (Vladis Dronov) [1837549]
 - [vfio] vfio/mdev: Improve the create/remove sequence (Vladis Dronov) [1837549]
 - [vfio] treewide: Add SPDX license identifier - Makefile/Kconfig (Vladis Dronov) [1837549]
 - [vfio] vfio/mdev: Avoid inline get and put parent helpers (Vladis Dronov) [1837549]
 - [vfio] vfio/mdev: Fix aborting mdev child device removal if one fails (Vladis Dronov) [1837549]
 - [vfio] vfio/mdev: Follow correct remove sequence (Vladis Dronov) [1837549]
 - [vfio] vfio/mdev: Avoid masking error code to EBUSY (Vladis Dronov) [1837549]
 - [include] vfio/mdev: Drop redundant extern for exported symbols (Vladis Dronov) [1837549]
 - [vfio] vfio/mdev: Removed unused kref (Vladis Dronov) [1837549]
 - [vfio] vfio/mdev: Avoid release parent reference during error path (Vladis Dronov) [1837549]
 - [vfio] vfio/mdev: Add iommu related member in mdev_device (Vladis Dronov) [1837549]
 - [vfio] vfio/mdev: add static modifier to add_mdev_supported_type (Vladis Dronov) [1837549]

- [vfio] vfio: mdev: make a couple of functions and structure vfio_mdev_driver static (Vladis Dronov) [1837549]
- [char] tpm/tpm_tis: Free IRQ if probing fails (David Arcari) [1774698]
- [kernel] audit: fix a memleak caused by auditing load module (Richard Guy Briggs) [1843370]
- [kernel] audit: fix potential null dereference 'context → module.name' (Richard Guy Briggs) [1843370]
- [nvme] nvme: limit number of IO queues on Dell/Samsung config (David Milburn) [1837617]
- Thu Jun 18 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1151.el7]
 - [netdrv] qede: Fix multicast mac configuration (Michal Schmidt) [1740064]
 - [scsi] sd_dif: avoid incorrect ref_tag errors on 4K devices larger than 2TB (Ewan Milne) [1833528]
 - [hid] HID: hiddev: do cleanup in failure of opening a device (Torez Smith) [1814257] {CVE-2019-19527}
 - [hid] HID: hiddev: avoid opening a disconnected device (Torez Smith) [1814257] {CVE-2019-19527}
 - [x86] x86: make mul_u64_u64_div_u64() "static inline" (Oleg Nesterov) [1845864]
 - [mm] mm: page_isolation: fix potential warning from user (Rafael Aquini) [1845620]
 - [s390] s390/mm: correct return value of pmd_pfn (Claudio Imbrenda) [1841106]
 - [fs] fs/proc/vmcore.c:mmap_vmcore: skip non-ram pages reported by hypervisors (Lianbo Jiang) [1790799]
 - [kernel] kernel/sysctl.c: ignore out-of-range taint bits introduced via kernel.tainted (Rafael Aquini) [1845356]
 - [documentation] kernel: add panic_on_taint (Rafael Aquini) [1845356]
 - [fs] ext4: Remove unwanted ext4_bread() from ext4_quota_write() (Lukas Czerner) [1845379]
 - [scsi] scsi: sg: add sg_remove_request in sg_write ("Ewan D. Milne") [1840699] {CVE-2020-12770}
 - [fs] fs/binfmt_elf.c: allocate initialized memory in fill_thread_core_info() (Donghai Qiao) [1832062] {CVE-2020-10732}
- Sun Jun 14 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1150.el7]
 - [netdrv] net/mlx5e: Fix handling of compressed CQEs in case of low NAPI budget (Alaa Hleihel) [1845020]
 - [mm] memcg: fix NULL pointer dereference in __mem_cgroup_usage_unregister_event (Waiman Long) [1842715]
 - [mm] memcg: only free spare array when readers are done (Waiman Long) [1842715]
 - [powerpc] powerpc/crashkernel: Take "mem=" option into account (Pingfan Liu) [1751555]
 - [infiniband] IB/ipoib: Fix double free of skb in case of multicast traffic in CM mode (Kamal Heib) [1597952]

- [security] selinux: properly handle multiple messages in selinux_netlink_send() (Ondrej Mosnacek) [1839650] {CVE-2020-10751}
- [netdrv] net: ena: Add PCI shutdown handler to allow safe kexec (Bhupesh Sharma) [1841578]
- [x86] x86/speculation: Support old struct x86_cpu_id & x86_match_cpu() kABI (Waiman Long) [1827188] {CVE-2020-0543}
- [documentation] x86/speculation: Add Ivy Bridge to affected list (Waiman Long) [1827188] {CVE-2020-0543}
- [documentation] x86/speculation: Add SRBDS vulnerability and mitigation documentation (Waiman Long) [1827188] {CVE-2020-0543}
- [x86] x86/speculation: Add Special Register Buffer Data Sampling (SRBDS) mitigation (Waiman Long) [1827188] {CVE-2020-0543}
- [x86] x86/cpu: Add 'table' argument to cpu_matches() (Waiman Long) [1827188] {CVE-2020-0543}
- [x86] x86/cpu: Add a steppings field to struct x86_cpu_id (Waiman Long) [1827188] {CVE-2020-0543}
- [x86] x86/cpu/bugs: Convert to new matching macros (Waiman Long) [1827188] {CVE-2020-0543}
- [x86] x86/cpu: Add consistent CPU match macros (Waiman Long) [1827188] {CVE-2020-0543}
- [cpufreq] x86/devicetable: Move x86 specific macro out of generic code (Waiman Long) [1827188] {CVE-2020-0543}
- [x86] x86/cpufeature: Fix various quality problems in the <asm/cpu_device_hd.h> header (Waiman Long) [1827188] {CVE-2020-0543}
- Thu Jun 04 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1149.el7]
 - [mm] mm/memory_hotplug.c: only respect mem= parameter during boot stage (Joel Savitz) [1838795]
 - [netdrv] qed: Reduce the severity of ptp debug message (Manish Chopra) [1703770]
 - [kernel] pid_ns: Sleep in TASK_INTERRUPTIBLE in zap_pid_ns_processes (Jay Shin) [1836620]
 - [fs] gfs2: remove BUG_ON() from gfs2_log_alloc_bio() (Abhijith Das) [1828454]
 - [fs] gfs2: Even more gfs2_find_jhead fixes (Abhijith Das) [1828454]
 - [fs] quota: fix return value in dqget() (Eric Sandeen) [1842761]
 - [fs] proc_sysctl.c: fix potential page fault while unregistering sysctl table (Carlos Maiolino) [1843368]
 - [fs] ext4: fix error handling in ext4_ext_shift_extents (Lukas Czermer) [1843366]
 - [vhost] vhost: Check docket sk_family instead of call getname (Vladis Dronov) [1823302] {CVE-2020-10942}
 - [input] hyperv-keyboard - add module description (Mohammed Gamal) [1842689]
 - [hv] hv: Add a module description line to the hv_vmbus driver (Mohammed Gamal)

- [1842689]
- [hid] hyperv: Add a module description line (Mohammed Gamal) [1842689]
- [x86] sched/cputime: Improve cputime_adjust() (Oleg Nesterov) [1511040]
- [acpi] ACPI: APEI: call into AER handling regardless of severity (Al Stone) [1737246]
- [acpi] ACPI: APEI: handle PCIe AER errors in separate function (Al Stone) [1737246]
- [acpi] ras: acpi/apei: cper: add support for generic data v3 structure (Al Stone) [1737246]
- [acpi] ACPI: ACPI 6.1: Updates for the HEST ACPI table (Al Stone) [1737246]
- [acpi] ACPI / APEI: Switch to use new generic UUID API (Al Stone) [1737246]
- [x86] x86/efi-bgrt: Quirk for BGRT when memory encryption active (Lenny Szubowicz) [1723477]
- [scsi] scsi: megaraid_sas: Update driver version to 07.714.04.00-rc1 (Tomas Henzl) [1840550]
- [scsi] scsi: megaraid_sas: TM command refire leads to controller firmware crash (Tomas Henzl) [1840550]
- [scsi] scsi: megaraid_sas: Replace undefined MFI_BIG_ENDIAN macro with __BIG_ENDIAN_BITFIELD macro (Tomas Henzl) [1840550]
- [scsi] scsi: megaraid_sas: Limit device queue depth to controller queue depth (Tomas Henzl) [1840550]
- [vfi] vfi-pci: Invalidate mmmaps and block MMIO access on disabled memory (Alex Williamson) [1820632] {CVE-2020-12888}
- [vfi] vfi-pci: Fault mmmaps to enable vma tracking (Alex Williamson) [1820632] {CVE-2020-12888}
- [vfi] vfi/type1: Support faulting PFNMAP vmas (Alex Williamson) [1820632] {CVE-2020-12888}
- [vfi] vfi/type1: Fix VA → PA translation for PFNMAP VMAs in vaddr_get_pfn() (Alex Williamson) [1820632] {CVE-2020-12888}
- [vfi] vfi-pci: call irq_bypass_unregister_producer() before freeing irq (Alex Williamson) [1820632] {CVE-2020-12888}
- [vfi] vfi_pci: Enable memory accesses before calling pci_map_rom (Alex Williamson) [1820632] {CVE-2020-12888}
- [fs] signal: Extend exec_id to 64bits (Chris von Recklinghausen) [1834650] {CVE-2020-12826}
- Wed Jun 03 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1148.el7]
 - [x86] hyper-v: Report crash data in die() when panic_on_oops is set (Mohammed Gamal) [1828450]
 - [hv] x86/hyper-v: Report crash register data when sysctl_record_panic_msg is not set (Mohammed Gamal) [1828450]
 - [x86] hyper-v: Report crash register data or kmsg before running crash kernel (Mohammed Gamal) [1828450]
 - [hv] x86/hyper-v: Trigger crash enlightenment only once during system crash (Mohammed

Gamal) [1828450]

- [hv] x86/hyper-v: Free hv_panic_page when fail to register kmsg dump (Mohammed Gamal) [1828450]
 - [hv] x86/hyper-v: Unload vmbus channel in hv panic callback (Mohammed Gamal) [1828450]
 - [hv] vmbus: Fix the issue with freeing up hv_ctl_table_hdr (Mohammed Gamal) [1828450]
 - [hv] vmus: Fix the check for return value from kmsg get dump buffer (Mohammed Gamal) [1828450]
 - [hv] Send one page worth of kmsg dump over Hyper-V during panic (Mohammed Gamal) [1828450]
 - [x86] kvm: x86: Allow suppressing prints on RDMSR/WRMSR of unhandled MSRs (Vitaly Kuznetsov) [1837412]
 - [fs] ext4: Fix race when checking i_size on direct i/o read (Lukas Czermer) [1506437]
 - [fs] copy_file_range should return ENOSYS not EOPNOTSUPP ("J. Bruce Fields") [1783554]
 - [fs] NFSv4.1 fix incorrect return value in copy_file_range ("J. Bruce Fields") [1783554]
 - [x86] Remove the unsupported check for Intel IceLake (Steve Best) [1841237]
 - [md] md/raid1: release pending accounting for an I/O only after write-behind is also finished (Nigel Croxon) [1792520]
 - [net] gre: fix uninit-value in __iptunnel_pull_header (Guillaume Nault) [1840321]
 - [net] inet: protect against too small mtu values. (Guillaume Nault) [1840321]
 - [net] Fix one possible memleak in ip_setup_cork (Guillaume Nault) [1840321]
 - [net] fix a potential recursive NETDEV_FEAT_CHANGE (Guillaume Nault) [1839130]
 - [net] fix null de-reference of device refcount (Guillaume Nault) [1839130]
 - [net] sch_choke: avoid potential panic in choke_reset() (Davide Caratti) [1839118]
 - [net] net_sched: fix datalen for ematch (Davide Caratti) [1839118]
 - [net] netem: fix error path for corrupted GSO frames (Davide Caratti) [1839118]
 - [net] avoid potential infinite loop in tc_ctl_action() (Davide Caratti) [1839118]
 - [net] net_sched: let qdisc_put() accept NULL pointer (Davide Caratti) [1839118]
 - [net] ipv4: really enforce backoff for redirects (Paolo Abeni) [1832332]
 - [net] ipv4: avoid mixed n_redirects and rate_tokens usage (Paolo Abeni) [1832332]
 - [net] ipv4: use a dedicated counter for icmp_v4 redirect packets (Paolo Abeni) [1832332]
 - [net] ipset: Update byte and packet counters regardless of whether they match (Phil Sutter) [1801366]
 - [net] xfrm: skip rt6i_idev update in xfrm6_dst_ifdown if loopback_idev is gone (Sabrina Dubroca) [1390049]
- Sun May 31 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1147.el7]

- [nvme] nvme: fix the parameter order for nvme_get_log in nvme_get_fw_slot_info (Gopal Tiwari) [1839991]
- [fs] pipe: actually allow root to exceed the pipe buffer limits (Jan Stancek) [1839629]
- [scsi] Revert "scsi: mpt3sas: Don't change the DMA coherent mask after allocations" (Tomas Henzl) [1839128]
- [scsi] Revert "scsi: mpt3sas: Rename function name is_MSB_are_same" (Tomas Henzl) [1839128]
- [scsi] Revert "scsi: mpt3sas: Separate out RDPQ allocation to new function" (Tomas Henzl) [1839128]
- [scsi] Revert "scsi: mpt3sas: Handle RDPQ DMA allocation in same 4G region" (Tomas Henzl) [1839128]
- [netdrv] net/mlx5e: Avoid duplicating rule destinations (Alaa Hleihel) [1727593]
- [netdrv] net/mlx5e: Extend encap entry with reference counter (Alaa Hleihel) [1727593]
- [netdrv] net/mlx5e: Fix free peer_flow when refcount is 0 (Alaa Hleihel) [1727593]
- [netdrv] net/mlx5e: Extend tc flow struct with reference counter (Alaa Hleihel) [1727593]
- [netdrv] net/mlx5e: Don't make internal use of errno to denote missing neigh (Alaa Hleihel) [1727593]
- [netdrv] net/mlx5e: Fix freeing flow with kfree() and not kvfree() (Alaa Hleihel) [1727593]
- [drm] drm/nouveau/gr/gp107, gp108: implement workaround for HW hanging during init (Karol Herbst) [1834360 1834356 1833485]
- [drm] drm/nouveau: workaround runpm fail by disabling PCI power management on certain intel bridges (Karol Herbst) [1834360 1834356 1833485]
- Thu May 28 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1146.el7]
 - [net] revert "rtnetlink: validate IFLA_MTU attribute in rtnl_create_link()" (Jiri Benc) [1839608]
 - [net] ipv6/addrconf: call ipv6_mc_up() for non-Ethernet interface (Davide Caratti) [1838936]
 - [net] ipv6: Handle missing host route in __ipv6_ifa_notify (Davide Caratti) [1838936]
 - [net] ipv6: drop incoming packets having a v4mapped source address (Davide Caratti) [1838936]
 - [net] l2tp: fix infoleak in l2tp_ip6_rcvmsg() (Andrea Claudi) [1837546]
 - [net] vti6: Fix memory leak of skb if input policy check fails (Patrick Talbert) [1836160]
 - [net] tcp: prevent bogus FRTO undos with non-SACK flows (Guillaume Nault) [1694860]
 - [scsi] scsi: smartpqi: fix controller lockup observed during force reboot (Don Brace) [1775369]
 - [fs] ext4: fix setting of referenced bit in ext4_es_lookup_extent() (Lukas Czermer) [1663720]
 - [fs] ext4: introduce aging to extent status tree (Lukas Czermer) [1663720]
 - [fs] ext4: cleanup flag definitions for extent status tree (Lukas Czermer) [1663720]

- [fs] ext4: limit number of scanned extents in status tree shrinker (Lukas Czermer) [1663720]
- [fs] ext4: move handling of list of shrinkable inodes into extent status code (Lukas Czermer) [1663720]
- [fs] ext4: change LRU to round-robin in extent status tree shrinker (Lukas Czermer) [1663720]
- [fs] ext4, jbd2: ensure panic when aborting with zero errno (Lukas Czermer) [1834783]
- [fs] jbd2: switch to use jbd2_journal_abort() when failed to submit the commit record (Lukas Czermer) [1834783]
- [fs] jbd2: clear JBD2_ABORT flag before journal_reset to update log tail info when load journal (Lukas Czermer) [1834783]
- [fs] ext4: fix buffer leak in ext4_xattr_move_to_block() on error path (Lukas Czermer) [1834783]
- [fs] ext4: fix missing return values checks in ext4_cross_rename (Lukas Czermer) [1836819]
- [fs] ext4: Fix POSIX ACL leak in ext4_xattr_set_acl (Lukas Czermer) [1543020]
- [vfio] vfio-pci: Mask cap zero (Alex Williamson) [1838717]
- [x86] Mark Intel Cooper Lake (CPX) supported (Steve Best) [1773681]
- [fs] fs/bio-integrity: don't enable integrity for data-less bio (Ming Lei) [1835943]
- [char] ipmi_si: Only schedule continuously in the thread in maintenance mode (Alexey Klimov) [1837127]
- [kernel] wait/ptrace: assume __WALL if the child is traced (Oleg Nesterov) [1497808]
- [mm] mm, hugetlb, soft_offline: save compound page order before page migration (Artem Savkov) [1751589]
- [fs] fs/hugetlbf/inode.c: fix hwpoison reserve accounting (Artem Savkov) [1751589]
- [fs] mm: hwpoison: dissolve in-use hugepage in unrecoverable memory error (Artem Savkov) [1751589]
- [mm] mm: soft-offline: dissolve free hugepage if soft-offlined (Artem Savkov) [1751589]
- [mm] mm: hugetlb: soft-offline: dissolve source hugepage after successful migration (Artem Savkov) [1751589]
- [mm] mm: hwpoison: change PageHWPoison behavior on hugetlb pages (Artem Savkov) [1751589]
- [mm] mm: hugetlb: prevent reuse of hwpoisoned free hugepages (Artem Savkov) [1751589]
- [netdrv] net/mlx5: Tidy up and fix reverse christmas ordring (Alaa Hleihel) [1831134]
- [netdrv] net/mlx5: Expose port speed when possible (Alaa Hleihel) [1831134]
- [include] net/mlx5: Expose link speed directly (Alaa Hleihel) [1831134]
- [usb] USB: core: Fix races in character device registration and deregistraion (Torez Smith) [1785065] {CVE-2019-19537}
- [usb] usb: cdc-acm: make sure a refcount is taken early enough (Torez Smith) [1802548]

- {CVE-2019-19530}
- [usb] USB: adutux: fix use-after-free on disconnect (Torez Smith) [1798822] {CVE-2019-19523}
- [media] media: usb:zr364xx:Fix KASAN:null-ptr-deref Read in zr364xx_vidioc_querycap (Torez Smith) [1795597] {CVE-2019-15217}
- Mon May 25 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1145.el7]
 - [scsi] scsi: qla2xxx: Do not log message when reading port speed via sysfs (Ewan Milne) [1837543]
 - [mm] mm: dmapool: add/remove sysfs file outside of the pool lock lock (Waiman Long) [1836837]
 - [mm] Fix unbalanced mutex in dma_pool_create() (Waiman Long) [1836837]
 - [mm] mm/dmapool.c: remove redundant NULL check for dev in dma_pool_create() (Waiman Long) [1836837]
 - [x86] x86/speculation: Prevent deadlock on ssb_state::lock (Waiman Long) [1836322]
 - [netdrv] can, slip: Protect tty → disc_data in write_wakeup and close with RCU (John Linville) [1805590]
 - [netdrv] slcan: Port write_wakeup deadlock fix from slip (John Linville) [1805590]
 - [fs] ext4: fix support for inode sizes > 1024 bytes (Lukas Czermer) [1817634] {CVE-2019-19767}
 - [fs] ext4: add more paranoia checking in ext4_expand_extra_isize handling (Lukas Czermer) [1817634] {CVE-2019-19767}
 - [fs] ext4: forbid i_extra_isize not divisible by 4 (Lukas Czermer) [1817634] {CVE-2019-19767}
 - [fs] ext4: validate the debug_want_extra_isize mount option at parse time (Lukas Czermer) [1817634] {CVE-2019-19767}
 - [fs] cachefiles: Fix race between read_waiter and read_copier involving op → to_do (Dave Wysochanski) [1829662]
 - [fs] jbd2: Fix possible overflow in jbd2_log_space_left() (Lukas Czermer) [1626092]
 - [media] media: v4l: event: Add subscription to list before calling "add" operation (Jarod Wilson) [1828802] {CVE-2019-9458}
 - [media] media: v4l: event: Prevent freeing event subscriptions while accessed (Jarod Wilson) [1828802] {CVE-2019-9458}
 - [fs] block: Prevent hung_check firing during long sync IO (Ming Lei) [1724345]
- Thu May 21 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1144.el7]
 - [crypto] crypto: user - fix memory leak in crypto_report (Vladis Dronov) [1825132] {CVE-2019-18808 CVE-2019-19062}
 - [crypto] crypto: ccp - Release all allocated memory if sha type is invalid (Vladis Dronov) [1825132] {CVE-2019-18808}
 - [net] xfrm: policy: Fix double free in xfrm_policy_timer (Xin Long) [1836813]

- [net] xfrm: add the missing verify_sec_ctx_len check in xfrm_add_acquire (Xin Long) [1836813]
- [net] xfrm: fix uctx len check in verify_sec_ctx_len (Xin Long) [1836813]
- [net] rtnetlink: validate IFLA_MTU attribute in rtnl_create_link() (Jiri Benc) [1835352]
- [net] rtnetlink: ndo_dflt_fdb_dump() only work for ARPHRD_ETHER devices (Jiri Benc) [1835352]
- [net] netlink: fix uninit-value in netlink_sendmsg (Jiri Benc) [1835352]
- [net] netlink: make sure nladdr has correct size in netlink_connect() (Jiri Benc) [1835352]
- [net] rtnetlink: fix info leak in RTM_GETSTATS call (Jiri Benc) [1835352]
- [net] rtnetlink: release net refcnt on error in do_setlink() (Jiri Benc) [1835352]
- [net] bridge: deny dev_set_mac_address() when unregistering (Hangbin Liu) [1834203]
- [net] bridge/mdb: remove wrong use of NLM_F_MULTI (Hangbin Liu) [1834203]
- [net] udp: disable inner UDP checksum offloads in IPsec case (Sabrina Dubroca) [1826244]
- [net] sctp: Fix SHUTDOWN CTSN Ack in the peer restart case (Xin Long) [1833869]
- [net] sctp: Fix bundling of SHUTDOWN with COOKIE-ACK (Xin Long) [1833869]
- [net] sctp: fix possibly using a bad saddr with a given dst (Xin Long) [1833869]
- [net] sctp: fix refcount bug in sctp_wfree (Xin Long) [1833869]
- [net] sctp: move the format error check out of __sctp_sf_do_9_1_abort (Xin Long) [1833869]
- [net] sctp: free cmd → obj.chunk for the unprocessed SCTP_CMD_REPLY (Xin Long) [1833869]
- [net] sctp: fully initialize v4 addr in some functions (Xin Long) [1833869]
- [net] sctp: simplify addr copy (Xin Long) [1833869]
- [net] sctp: cache netns in sctp_ep_common (Xin Long) [1833869]
- [net] sctp: destroy bucket if failed to bind addr (Xin Long) [1833869]
- [net] sctp: Fix the link time qualifier of 'sctp_ctrlsock_exit()' (Xin Long) [1833869]
- [net] netfilter: nat: never update the UDP checksum when it's 0 (Guillaume Nault) [1834278]
- [net] esp4: add length check for UDP encapsulation (Sabrina Dubroca) [1825155]
- [net] sit: fix memory leak in sit_init_net() (Andrea Claudi) [1830011] {CVE-2019-16994}
- [net] sched: cbs: fix NULL dereference in case cbs_init() fails (Davide Caratti) [1830245]
- [net] netfilter: nf_tables: use-after-free in dynamic operations (Phil Sutter) [1819087]
- [net] tcp: tcp_v4_err() should be more careful (Marcelo Leitner) [1749964]
- [net] tcp: remove BUG_ON from tcp_v4_err (Marcelo Leitner) [1749964]
- [net] tcp: clear icsk_backoff in tcp_write_queue_purge() (Marcelo Leitner) [1749964]
- [net] psample: fix skb_over_panic (Sabrina Dubroca) [1823251]
- [net] sched: ensure opts_len ≤ IP_TUNNEL_OPTS_MAX in act_tunnel_key (Patrick Talbert) [1823691]

- [netdrv] fjes: Handle workqueue allocation failure (Masayoshi Mizuma) [1830563] {CVE-2019-16231}
- Tue May 19 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1143.el7]
 - [mm] mm: mempolicy: require at least one nodeid for MPOL_PREFERRED (Rafael Aquini) [1834434] {CVE-2020-11565}
 - [fs] fs: avoid softlockups in s_inodes iterators (Jay Shin) [1760145]
 - [scsi] scsi: core: Add DID_ALLOC_FAILURE and DID_MEDIUM_ERROR to hostbyte_table (Maurizio Lombardi) [1832019]
 - [fs] locks: allow filesystems to request that →setlease be called without i_lock (Jeff Layton) [1830606]
 - [fs] locks: move fasync setup into generic_add_lease (Jeff Layton) [1830606]
 - [fs] revert "[fs] xfs: catch bad stripe alignment configurations" (Carlos Maiolino) [1836292]
 - [scsi] scsi: scsi_debug: num_tgts must be >= 0 (Ewan Milne) [1834998]
 - [scsi] scsi: scsi_debug: Avoid PI being disabled when TPGS is enabled (Ewan Milne) [1834998]
 - [scsi] scsi: scsi_debug: Fix memory leak if LBP enabled and module is unloaded (Ewan Milne) [1834998]
 - [scsi] scsi_debug: check for bigger value first (Ewan Milne) [1834998]
 - [scsi] scsi_debug: vfree is null safe so drop the check (Ewan Milne) [1834998]
 - [scsi] scsi_debug: error message should say scsi_host_alloc not scsi_register (Ewan Milne) [1834998]
 - [fs] xfs: Fix tail rounding in xfs_alloc_file_space() (Bill O'Donnell) [1833223]
 - [fs] ceph: don't drop message if it contains more data than expected (Jeff Layton) [1828340]
 - [fs] ceph: don't error out on larger-than-expected session messages (Jeff Layton) [1828340]
 - [acpi] ACPI: disable BERT by default, add parameter to enable it (Aristeu Rozanski) [1525298]
 - [acpi] ACPI: APEI: Fix possible out-of-bounds access to BERT region (Aristeu Rozanski) [1525298]
 - [acpi] ACPI / sysfs: Extend ACPI sysfs to provide access to boot error region (Aristeu Rozanski) [1525298]
 - [acpi] ACPI: APEI: Fix BERT resources conflict with ACPI NVS area (Aristeu Rozanski) [1525298]
 - [acpi] ACPI / APEI: Add Boot Error Record Table (BERT) support (Aristeu Rozanski) [1525298]
 - [acpi] ACPICA: Restore error table definitions to reduce code differences between Linux and ACPICA upstream (Aristeu Rozanski) [1525298]
- Sat May 16 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1142.el7]
 - [fs] gfs2: Another gfs2_walk_metadata fix (Andreas Grunbacher) [1822230]
 - [fs] ext4: prevent ext4_quota_write() from failing due to ENOSPC (Lukas Czermer) [1068952]
 - [fs] ext4: do not zeroout extents beyond i_disksize (Lukas Czermer) [1834320]

- [fs] pnfs: Ensure we layoutcommit before revalidating attributes (Benjamin Coddington) [1827647]
- [fs] nfs: flush data when locking a file to ensure cache coherence for mmap (Scott Mayhew) [1813811]
- [fs] call fsnotify_sb_delete after evict_inodes (Jay Shin) [1760145]
- [fs] inode: don't softlockup when evicting inodes (Jay Shin) [1760145]
- [fs] drop_caches.c: avoid softlockups in drop_pagecache_sb() (Jay Shin) [1760145]
- [fs] gfs2: More gfs2_find_jhead fixes (Abhijith Das) [1828454]
- [fs] gfs2: Another gfs2_find_jhead fix (Abhijith Das) [1828454]
- [fs] nfs: fix mount/umount race in nlmclnt (Jay Shin) [1771205]
- [fs] nlm_shutdown_hosts_net() cleanup (Jay Shin) [1771205]
- [scsi] scsi: megaraid: Use true, false for bool variables (Tomas Henzl) [1827037]
- [scsi] scsi: megaraid: make two symbols static in megaraid_sas_base.c (Tomas Henzl) [1827037]
- [scsi] scsi: megaraid: make some symbols static in megaraid_sas_fusion.c (Tomas Henzl) [1827037]
- [scsi] scsi: megaraid: make some symbols static in megaraid_sas_fp.c (Tomas Henzl) [1827037]
- [scsi] scsi: megaraid_sas: Use scnprintf() for avoiding potential buffer overflow (Tomas Henzl) [1827037]
- [scsi] scsi: megaraid_sas: silence a warning (Tomas Henzl) [1827037]
- [scsi] scsi: megaraid_sas: fix indentation issue (Tomas Henzl) [1827037]
- [scsi] scsi: megaraid_sas: Limit the number of retries for the IOCTLs causing firmware fault (Tomas Henzl) [1827037]
- [scsi] scsi: megaraid_sas: Do not initiate OCR if controller is not in ready state (Tomas Henzl) [1827037]
- [scsi] scsi: megaraid_sas: Re-Define enum DCMD_RETURN_STATUS (Tomas Henzl) [1827037]
- [scsi] scsi: megaraid_sas: Do not set HBA Operational if FW is not in operational state (Tomas Henzl) [1827037]
- [scsi] scsi: megaraid_sas: Do not kill HBA if JBOD Sequence map or RAID map is disabled (Tomas Henzl) [1827037]
- [scsi] scsi: megaraid_sas: Do not kill host bus adapter, if adapter is already dead (Tomas Henzl) [1827037]
- [scsi] scsi: megaraid_sas: Update optimal queue depth for SAS and NVMe devices (Tomas Henzl) [1827037]
- [scsi] scsi: megaraid_sas: Reset adapter if FW is not in READY state after device resume (Tomas Henzl) [1827037]
- [scsi] scsi: megaraid_sas: Make poll_aen_lock static (Tomas Henzl) [1827037]

- [scsi] scsi: megaraid_sas: Fix a compilation warning (Tomas Henzl) [1827037]
- [scsi] scsi: megaraid_sas: Make a bunch of functions static (Tomas Henzl) [1827037]
- [scsi] scsi: megaraid_sas: Make some functions static (Tomas Henzl) [1827037]
- [scsi] scsi: megaraid_sas: remove unused variables 'debugBlk', 'fusion' (Tomas Henzl) [1827037]
- [scsi] scsi: megaraid_sas: Unique names for MSI-X vectors (Tomas Henzl) [1827037]
- [scsi] scsi: megaraid_sas: fix panic on loading firmware crashdump (Tomas Henzl) [1827037]
- [scsi] scsi: megaraid_sas: fix spelling mistake "megarid_sas" → "megaraid_sas" (Tomas Henzl) [1827037]
- [scsi] scsi: mpt3sas: Disable DIF when prot_mask set to zero (Tomas Henzl) [1832868]
- [scsi] scsi: mpt3sas: Handle RDPQ DMA allocation in same 4G region (Tomas Henzl) [1832868]
- [scsi] scsi: mpt3sas: Separate out RDPQ allocation to new function (Tomas Henzl) [1832868]
- [scsi] scsi: mpt3sas: Rename function name is_MSB_are_same (Tomas Henzl) [1832868]
- [scsi] scsi: mpt3sas: Don't change the DMA coherent mask after allocations (Tomas Henzl) [1832868]
- [scsi] scsi: mpt3sas: Fix kernel panic observed on soft HBA unplug (Tomas Henzl) [1832868]
- [scsi] scsi: mpt3sas: Fix double free in attach error handling (Tomas Henzl) [1832868]
- [scsi] scsi: mpt3sas: Use Component img header to get Package ver (Tomas Henzl) [1832868]
- [scsi] scsi: mpt3sas: Fix module parameter max_msix_vectors (Tomas Henzl) [1832868]
- [scsi] scsi: mpt3sas: Reject NVMe Encap cmnds to unsupported HBA (Tomas Henzl) [1832868]
- [netdrv] hv_netvsc: Fix error handling in netvsc_set_features() (Mohammed Gamal) [1821814]
- [netdrv] hv_netvsc: Sync offloading features to VF NIC (Mohammed Gamal) [1821814]
- [netdrv] hv_netvsc: Fix IP header checksum for coalesced packets (Mohammed Gamal) [1821814]
- [netdrv] hv_netvsc: Fix rndis_per_packet_info internal field initialization (Mohammed Gamal) [1821814]
- [netdrv] hv_netvsc: Add handler for LRO setting change (Mohammed Gamal) [1821814]
- [netdrv] hv_netvsc: Add support for LRO/RSC in the vSwitch (Mohammed Gamal) [1821814]
- [netdrv] hv_netvsc: Add handlers for ethtool get/set msg level (Mohammed Gamal) [1821814]
- [netdrv] hv_netvsc: Fix the variable sizes in ipsecv2 and rsc offload (Mohammed Gamal) [1821814]
- [fs] fix mntput/mntput race (Miklos Szeredi) [1828320]
- [wireless] rtlwifi: prevent memory leak in rtl_usb_probe (Jarod Wilson) [1829847] {CVE-2019-19063}

- [wireless] iwlmwifi: dbg_ini: fix memory leak in alloc_sgtable (Jarod Wilson) [1829375] {CVE-2019-19058}
- [net] nl80211: fix memory leak in nl80211_get_ftm_responder_stats (Jarod Wilson) [1829289] {CVE-2019-19055}
- [wireless] iwlmwifi: pcie: fix memory leaks in iwl_pcie_ctxt_info_gen3_init (Jarod Wilson) [1829393] {CVE-2019-19059}
- Tue May 12 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1141.el7]
 - [kernel] sched/fair: Scale bandwidth quota and period without losing quota/period ratio precision (Artem Savkov) [1752067]
 - [edac] EDAC: skx_common: downgrade message importance on missing PCI device (Aristeu Rozanski) [1832683]
 - [s390] s390/qdio: consider ERROR buffers for inbound-full condition (Philipp Rudo) [1831791]
 - [s390] s390/fttrace: fix potential crashes when switching tracers (Philipp Rudo) [1813124]
 - [netdrv] ibmvnic: Skip fatal error reset after passive init (Steve Best) [1830992]
 - [scsi] smartpqi: bump driver version (Don Brace) [1822762]
 - [scsi] scsi: smartpqi: add bay identifier (Don Brace) [1822762]
 - [scsi] scsi: smartpqi: add module param to hide vsep (Don Brace) [1822762]
 - [scsi] scsi: bnx2fc: Update the driver version to 2.12.13 (Nilesh Javali) [1709542]
 - [scsi] scsi: bnx2fc: fix boolreturn.cocci warnings (Nilesh Javali) [1709542]
 - [scsi] scsi: bnx2fc: Fix SCSI command completion after cleanup is posted (Nilesh Javali) [1709542]
 - [scsi] scsi: bnx2fc: Process the RQE with CQE in interrupt context (Nilesh Javali) [1709542]
 - [scsi] scsi: qla2xxx: Fix a recently introduced kernel warning (Nilesh Javali) [1828875]
 - [scsi] Fix abort timeouts in CQ Full conditions (Dick Kennedy) [1802654]
 - [input] Input: add safety guards to input_set_keycode() (Chris von Recklinghausen) [1828222] {CVE-2019-20636}
 - [scsi] scsi: libsas: delete sas port if expander discover failed (Tomas Henzl) [1829965] {CVE-2019-15807}
 - [net] netlabel: cope with NULL catmap (Paolo Abeni) [1827240] {CVE-2020-10711}
- Thu May 07 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1140.el7]
 - [netdrv] mlx5: Remove unsupported tag for ConnectX-6 Dx device (Alaa Hleihel) [1829777]
 - [fs] xfs: clear PF_MEMALLOC before exiting xfsaild thread (Brian Foster) [1827910]
 - [fs] gfs2: fix O_EXCL|O_CREAT handling on cold dcache (Andrew Price) [1812558]
 - [fs] nfs: Correct an nfs page array calculation error (Jay Shin) [1824270]
 - [infiniband] RDMA/bnxt_re: Fix stat push into dma buffer on gen p5 devices (Jonathan Toppins) [1828475 1824438]

- [netdrv] bnxt_en: Fix allocation of zero statistics block size regression (Jonathan Toppins) [1824438]
- [netdrv] bnxt_en: Allocate the larger per-ring statistics block for 57500 chips (Jonathan Toppins) [1824438]
- [netdrv] bnxt_en: Expand bnxt_tpa_info struct to support 57500 chips (Jonathan Toppins) [1824438]
- [netdrv] bnxt_en: Refactor TPA logic (Jonathan Toppins) [1824438]
- [netdrv] bnxt_en: Add TPA structure definitions for BCM57500 chips (Jonathan Toppins) [1824438]
- [netdrv] bnxt_en: Update firmware interface spec. to 1.10.0.89 (Jonathan Toppins) [1824438]
- [netdrv] bnxt_en: Update firmware interface to 1.10.0.69 (Jonathan Toppins) [1824438]
- [netdrv] bnxt_en: Update firmware interface spec. to 1.10.0.47 (Jonathan Toppins) [1824438]
- [netdrv] bnxt_en: Refactor ethtool ring statistics logic (Jonathan Toppins) [1824438]
- [block] blk-mq: Put driver tag in blk_mq_dispatch_rq_list() when no budget (Ming Lei) [1825431]
- [scsi] scsi: fnic: do not queue commands during fwreset (Govindarajulu Varadarajan) [1794150]
- [scsi] scsi: fnic: fix invalid stack access (Govindarajulu Varadarajan) [1794150]
- [scsi] scsi: fnic: fix use after free (Govindarajulu Varadarajan) [1794150]
- [netdrv] enic: prevent waking up stopped tx queues over watchdog reset (Govindarajulu Varadarajan) [1794148]
- [fs] ceph: use ceph_evict_inode to cleanup inode's resource (Jeff Layton) [1784016]
- [fs] ceph: fix use-after-free in __ceph_remove_cap() (Jeff Layton) [1784016]
- [fs] ceph: hold i_ceph_lock when removing caps for freeing inode (Jeff Layton) [1784016]
- [input] Input: ff-memless - kill timer in destroy() (Chris von Recklinghausen) [1815021] {CVE-2019-19524}
- [scsi] scsi: qla2xxx: fix a potential NULL pointer dereference ("Ewan D. Milne") [1829246] {CVE-2019-16233}
- Tue May 05 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1139.el7]
 - [fs] nfsd: Fix races between nfsd4_cb_release() and nfsd4_shutdown_callback() ("J. Bruce Fields") [1448750]
 - [fs] nfsd: minor 4.1 callback cleanup ("J. Bruce Fields") [1448750]
 - [fs] nfsd: Don't release the callback slot unless it was actually held (Benjamin Coddington) [1448750]
 - [lib] kobject: don't use WARN for registration failures (Ewan Milne) [1756495]
 - [lib] lib/kobject: Join string literals back (Ewan Milne) [1756495]
 - [scsi] scsi: ibmvfc: Don't send implicit logouts prior to NPIV login (Steve Best) [1828726]

- [fs] nfs: Serialize O_DIRECT reads and writes (Benjamin Coddington) [1826571]
- [mm] mm/page_owner: convert page_owner_initd to static key (Rafael Aquini) [1781726]
- [mm] mm/page_owner: set correct gfp_mask on page_owner (Rafael Aquini) [1781726]
- [mm] mm/page_owner: fix possible access violation (Rafael Aquini) [1781726]
- [mm] mm/page_owner: use late_initcall to hook in enabling (Rafael Aquini) [1781726]
- [mm] mm/page_owner: remove unnecessary stack_trace field (Rafael Aquini) [1781726]
- [mm] mm/page_owner: correct owner information for early allocated pages (Rafael Aquini) [1781726]
- [mm] mm/page_owner: keep track of page owners (Rafael Aquini) [1781726]
- [documentation] Documentation: add new page_owner document (Rafael Aquini) [1781726]
- [kernel] stacktrace: introduce snprint_stack_trace for buffer output (Rafael Aquini) [1781726]
- Thu Apr 30 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1138.el7]
 - [infiniband] RDMA/bnxt_re: Fix chip number validation Broadcom's Gen P5 series (Jonathan Toppins) [1823679]
 - [scsi] scsi: qla2xxx: Silence fwdump template message (Ewan Milne) [1783191]
 - [scsi] scsi: hpsa: Update driver version (Joseph Szczypek) [1808403]
 - [scsi] scsi: hpsa: correct race condition in offload enabled (Joseph Szczypek) [1808403]
 - [netdrv] bonding: fix active-backup transition after link failure (Jarod Wilson) [1712235]
 - [netdrv] bonding: fix state transition issue in link monitoring (Jarod Wilson) [1712235]
 - [netdrv] bonding: fix potential NULL deref in bond_update_slave_arr (Jarod Wilson) [1712235]
 - [netdrv] bonding: Force slave speed check after link state recovery for 802.3ad (Jarod Wilson) [1712235]
 - [i2c] i2c: core-smbus: prevent stack corruption on read I2C_BLOCK_DATA (Vladis Dronov) [1822641] {CVE-2017-18551}
 - [acpi] ACPI / EC: Ensure lock is acquired before accessing ec struct (Al Stone) [1811132]
 - [x86] x86/mce: Do not log spurious corrected mce errors (Prarit Bhargava) [1797205]
 - [wireless] mwifiex: Fix mem leak in mwifiex_tm_cmd (Jarod Wilson) [1804971] {CVE-2019-20095}
 - [kernel] kernel/module.c: wakeup processes in module_wq on module unload (Prarit Bhargava) [1771939]
 - [acpi] ACPICA: acpi: acpica: fix acpi operand cache leak in nseval.c (Prarit Bhargava) [1790782]
- Mon Apr 27 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1137.el7]
 - [tty] tty/hvc: Use IRQF_SHARED for OPAL hvc consoles (Gustavo Duarte) [1600213]

- [mm] mm/swap_slots.c: fix race conditions in swap_slots cache init (Rafael Aquini)
- [block] loop: set PF_MEMALLOC_NOIO for the worker thread (Ming Lei) [1825950]
- [tty] serial: 8250: drop the printk from serial8250_interrupt() (Prarit Bhargava) [1825049]
- [net] net: linkwatch: add check for netdevice being present to linkwatch_do_dev (Alaa Hleihel) [1595302]
- Fri Apr 17 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1136.el7]
 - [fs] sunrpc: expiry_time should be seconds not timeval (Benjamin Coddington) [1794055]
 - [nvdimm] Revert "driver boilerplate changes to properly manage device_rh" (Christoph von Recklinghausen) [1823750]
 - [base] call device_rh_free in device_release before driver/class/type release is called (Christoph von Recklinghausen) [1822888]
 - [md] md:md-faulty kernel panic is caused by QUEUE_FLAG_NO_SG_MERGE (Nigel Croxon) [1822462]
 - [firmware] efi: cper: print AER info of PCIe fatal error (Vladis Dronov) [1820646]
 - [scsi] qla2xxx: Update driver version to 10.01.00.22.07.9-k (Nilesh Javali) [1808129]
 - [scsi] scsi: qla2xxx: Fix message indicating vectors used by driver (Nilesh Javali) [1808129]
 - [scsi] scsi: qla2xxx: Move free of fcport out of interrupt context (Nilesh Javali) [1808129]
 - [scsi] qla2xxx: delete all sessions before unregister local nvme port (Nilesh Javali) [1808129]
 - [scsi] qla2xxx: Fix hang when issuing nvme disconnect-all in NPIV (Nilesh Javali) [1808129]
 - [scsi] scsi: qla2xxx: Fix a NULL pointer dereference in an error path (Nilesh Javali) [1808129]
 - [scsi] scsi: qla2xxx: Fix mtcp dump collection failure (Nilesh Javali) [1808129]
 - [scsi] scsi: qla2xxx: Fix RIDA Format-2 (Nilesh Javali) [1808129]
 - [scsi] scsi: qla2xxx: Fix stuck login session using prli_pend_timer (Nilesh Javali) [1808129]
 - [scsi] scsi: qla2xxx: Add a shadow variable to hold disc_state history of fcport (Nilesh Javali) [1808129]
 - [scsi] scsi: qla2xxx: Use common routine to free fcport struct (Nilesh Javali) [1808129]
 - [scsi] scsi: qla2xxx: Fix update_fcport for current_topology (Nilesh Javali) [1808129]
 - [scsi] scsi: qla2xxx: Fix fabric scan hang (Nilesh Javali) [1808129]
 - [scsi] scsi: qla2xxx: Complain if sp→done() is not called from the completion path (Nilesh Javali) [1808129]
 - [scsi] scsi: qla2xxx: Ignore PORT UPDATE after N2N PLOGI (Nilesh Javali) [1808129]
 - [scsi] scsi: qla2xxx: Change discovery state before PLOGI (Nilesh Javali) [1808129]
 - [scsi] scsi: qla2xxx: Initialize free_work before flushing it (Nilesh Javali) [1808129]
 - [scsi] scsi: qla2xxx: Retry fabric Scan on IOCB queue full (Nilesh Javali) [1808129]
 - [scsi] scsi: qla2xxx: initialize fc4_type_priority (Nilesh Javali) [1808129]
 - [scsi] scsi: qla2xxx: Fix a dma_pool_free() call (Nilesh Javali) [1808129]

- [security] selinux: ensure we cleanup the internal AVC counters on error in `avc_insert()` (Artem Savkov) [1808675]
- [acpi] ACPICA: Mark `acpi_ut_create_internal_object_dbg()` memory allocations as non-leaks (Artem Savkov) [1808675]
- [x86] x86/microcode/AMD: Free unneeded patch before exit from `update_cache()` (Artem Savkov) [1808675]
- [mm] memcg: ensure `mem_cgroup_idr` is updated in a coordinated manner (Aaron Tomlin) [1822405]
- [mm] mm/page_alloc: increase default `min_free_kbytes` bound (Joel Savitz) [1704326]
- [scsi] scsi: lpfc: Fix unexpected error messages during RSCN handling (Dick Kennedy) [1743667]
- [scsi] scsi: lpfc: Fix discovery failures when target device connectivity bounces (Dick Kennedy) [1743667]
- [scsi] scsi: lpfc: Fix devices that don't return after `devloss` followed by rediscovery (Dick Kennedy) [1743667]
- [scsi] scsi: lpfc: Fix port relogin failure due to `GID_FT` interaction (Dick Kennedy) [1743667]
- [video] vgacon: Fix a UAF in `vgacon_invert_region` (Vladis Dronov) [1818730] {CVE-2020-8647 CVE-2020-8649}
- [x86] uprobes/x86: Fix detection of 32-bit user mode (Oleg Nesterov) [1804959]
- [powerpc] module: Handle `R_PPC64_ENTRY` relocations (Yauheni Kaliuta) [1657540]
- [scripts] recordmcount.pl: support data in text section on powerpc (Yauheni Kaliuta) [1657540]
- [powerpc] boot: Request no dynamic linker for boot wrapper (Yauheni Kaliuta) [1657540]
- Wed Apr 15 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1135.el7]
 - [fs] fscache: Fix race in `fscache_op_complete()` due to split `atomic_sub` & `read` (Dave Wysochanski) [1683490]
 - [fs] fscache: Pass the correct cancelled indications to `fscache_op_complete()` (Dave Wysochanski) [1683490]
 - [char] tpm: `ibmvtpm`: Wait for buffer to be set before proceeding (Jerry Snitselaar) [1815536]
 - [fs] NFS: Fix a race between `mmap()` and `O_DIRECT` (Benjamin Coddington) [1813803]
 - [fs] NFS: Remove a redundant call to `unmap_mapping_range()` (Benjamin Coddington) [1813803]
 - [fs] NFS: Remove redundant waits for `O_DIRECT` in `fsync()` and `write_begin()` (Benjamin Coddington) [1813803]
 - [fs] NFS: Cleanup `nfs_direct_complete()` (Benjamin Coddington) [1813803]
 - [fs] NFS: Do not serialise `O_DIRECT` reads and writes (Benjamin Coddington) [1813803]
 - [fs] NFS: Move buffered I/O locking into `nfs_file_write()` (Benjamin Coddington) [1813803]
 - [fs] bdi: make `inode_to_bdi()` inline (Benjamin Coddington) [1813803]

- [fs] NFS: Remove racy size manipulations in O_DIRECT (Benjamin Coddington) [1813803]
- [fs] NFS: Don't hold the inode lock across fsync() (Benjamin Coddington) [1813803]
- [fs] nfs: remove nfs_inode_dio_wait (Benjamin Coddington) [1813803]
- [fs] nfs: remove nfs4_file_fsync (Benjamin Coddington) [1813803]
- [fs] NFS: Kill NFS_INO_NFS_INO_FLUSHING: it is a performance killer (Benjamin Coddington) [1813803]
- [fs] filesystem-dax: Fix dax_layout_busy_page() livelock (Carlos Maiolino) [1817866]
- [block] blk-mq: fix hang caused by freeze/unfreeze sequence (Ming Lei) [1821718]
- [fs] ceph: don't NULL terminate virtual xattrs (Jeff Layton) [1717454]
- [fs] ceph: return -ERANGE if virtual xattr value didn't fit in buffer (Jeff Layton) [1717454]
- [fs] ceph: make getxattr_cb return ssize_t (Jeff Layton) [1717454]
- [fs] ceph: use bit flags to define vxattr attributes (Jeff Layton) [1717454]
- [tty] tty: Prevent ldisc drivers from re-using stale tty fields (Vladis Dronov) [1820031]
- [powerpc] powerpc64/kexec: Hard disable ftrace before switching to the new kernel (Jerome Marchand) [1731578]
- [powerpc] powerpc64/ftrace: Delay enabling ftrace on secondary cpus (Jerome Marchand) [1731578]
- [powerpc] powerpc64/ftrace: Add helpers to hard disable ftrace (Jerome Marchand) [1731578]
- [powerpc] powerpc64/ftrace: Rearrange #ifdef sections in ftrace.h (Jerome Marchand) [1731578]
- [powerpc] powerpc64/ftrace: Add a field in paca to disable ftrace in unsafe code paths (Jerome Marchand) [1731578]
- [powerpc] powerpc/ftrace: Pass the correct stack pointer for DYNAMIC_FTRACE_WITH_REGS (Jerome Marchand) [1731578]
- [isdn] mISDN: enforce CAP_NET_RAW for raw sockets (Andrea Claudi) [1779474] {CVE-2019-17055}
- [virtio] virtio-balloon: fix managed page counts when migrating pages between zones (David Hildenbrand) [1780330]
- Thu Apr 09 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1134.el7]
 - [net] netfilter: nf_log: fix uninit read in nf_log_proc_dostring (Phil Sutter) [1770232]
 - [net] netfilter: nf_log: fix error on write NONE to logger choice sysctl (Phil Sutter) [1770232]
 - [net] ethtool: convert large order kcalloc allocations to vzalloc (Davide Caratti) [1786448]
 - [net] l2tp: Allow duplicate session creation with UDP (Guillaume Nault) [1808928]
 - [net] sched: flower: insert new filter to idr after setting its mask (Davide Caratti) [1785141]
 - [net] ipv6: remove printk (Hangbin Liu) [1779533]

- [net] netfilter: ctnetlink: netns exit must wait for callbacks (Florian Westphal) [1766816]
- [net] raw: do not report ICMP redirects to user space (Hangbin Liu) [1758386]
- Fri Apr 03 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1133.el7]
 - [powerpc] powerpc/pseries/dlpar: Fix a missing check in dlpar_parse_cc_property() (Steve Best) [1806629] {CVE-2019-12614}
 - [s390] s390/pci: Recover handle in clp_set_pci_fn() (Philipp Rudo) [1816662]
 - [fs] xfs: fix attr leaf header freemap.size underflow (Bill O'Donnell) [1808671]
 - [block] floppy: check FDC index for errors before assigning it (Ming Lei) [1815403] {CVE-2020-9383}
 - [block] virtio-blk: improve virtqueue error to BLK_STS (Philipp Rudo) [1818001]
 - [block] virtio-blk: fix hw_queue stopped on arbitrary error (Philipp Rudo) [1818001]
 - [s390] dasd: fix endless loop after read unit address configuration (Philipp Rudo) [1816661]
 - [fs] CIFS: Fix NULL-pointer dereference in smb2_push_mandatory_locks (Leif Sahlberg) [1504193]
 - [fs] cifs: Fix cifsInodeInfo lock_sem deadlock when reconnect occurs (Leif Sahlberg) [1504193]
 - [char] ipmi: Fix memory leak in __ipmi_bmc_register (Tony Camuso) [1812836] {CVE-2019-19046}
 - [net] ipv6: Remove noisy debug print from ip_vs_del_service (Alexey Klimov) [1769816]
- Fri Mar 27 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1132.el7]
 - [tools] tools/power turbostat: Support Ice Lake server (Steve Best) [1776508]
 - [nvme] nvme-fc: ensure association_id is cleared regardless of a Disconnect LS (Ewan Milne) [1816752]
 - [nvme] nvme-fc: clarify error messages (Ewan Milne) [1816752]
 - [nvme] nvme-fc: fix module unloads while lports still pending (Ewan Milne) [1816752]
 - [scsi] scsi: sd: Clear sdkp → protection_type if disk is reformatted without PI (Ewan Milne) [1816307]
 - [scsi] scsi: core: Fix a compiler warning triggered by the SCSI logging code (Ewan Milne) [1816307]
 - [scsi] scsi: tracing: Fix handling of TRANSFER LENGTH == 0 for READ(6) and WRITE(6) (Ewan Milne) [1816307]
 - [scsi] scsi: core: scsi_trace: Use get_unaligned_be*() (Ewan Milne) [1816307]
 - [scsi] scsi: core: try to get module before removing device (Ewan Milne) [1816307]
 - [scsi] scsi: scsi_dh_alua: handle RTPG sense code correctly during state transitions (Ewan Milne) [1816307]
 - [scsi] scsi: device_handler: remove VLAs (Ewan Milne) [1816307]
 - [scsi] scsi: scsi_dh: Document alua_rtpg_queue() arguments (Ewan Milne) [1816307]

- [scsi] scsi: scsi_dh_alua: skip RTPG for devices only supporting active/optimized (Ewan Milne) [1816307]
- [scsi] scsi: scsi_dh_emc: return success in clariion_std_inquiry() (Ewan Milne) [1816307]
- [target] scsi: target: iscsi: rename some variables to avoid confusion (Maurizio Lombardi) [1806966]
- [target] scsi: target: iscsi: tie the challenge length to the hash digest size (Maurizio Lombardi) [1806966]
- [target] scsi: target: iscsi: CHAP: add support for SHA1, SHA256 and SHA3-256 (Maurizio Lombardi) [1806966]
- [target] scsi: target: compare full CHAP_A Algorithm strings (Maurizio Lombardi) [1806966]
- [base] device_release() can call device_rh_free() too (Christoph von Recklinghausen) [1793248]
- [nvdimm] driver boilerplate changes to properly manage device_rh (Christoph von Recklinghausen) [1793248]
- [base] Add an interface for certain drivers who manage their own struct device's to disassociate their device_rh's (Christoph von Recklinghausen) [1793248]
- [base] kfree(dev→device_rh) in device_create_release() (Christoph von Recklinghausen) [1793248]
- [base] kfree and zero device_rh in device_release() (Christoph von Recklinghausen) [1793248]
- [input] Revert "Fix device_rh memory leak" (Christoph von Recklinghausen) [1793248]
- [scsi] Revert "Fix device_rh leak in scsi_alloc_target()" (Christoph von Recklinghausen) [1793248]
- [scsi] Revert "Fix memory leaks in scsi_alloc_sdev()" (Christoph von Recklinghausen) [1793248]
- [nvdimm] libnvdimm/security: Consolidate 'security' operations (Jeff Moyer) [1735364]
- [nvdimm] libnvdimm/security: Tighten scope of nvdimm→busy vs security operations (Jeff Moyer) [1735364]
- [nvdimm] libnvdimm/security: Introduce a 'frozen' attribute (Jeff Moyer) [1735364]
- [acpi] libnvdimm/security, acpi/nfit: unify zero-key for all security commands (Jeff Moyer) [1735364]
- [nvdimm] libnvdimm/security: provide fix for secure-erase to use zero-key (Jeff Moyer) [1735364]
- [block] block: fix checking return value of blk_mq_init_queue (Maxim Levitsky) [1795777]
- [bluetooth] Bluetooth: hci_ldisc: Postpone HCI_UART_PROTO_READY bit set in hci_uart_set_proto() (Aristeu Rozanski) [1808803] {CVE-2019-15917}
- Wed Mar 25 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1131.el7]
 - [x86] kvm: x86: clear stale x86_emulate_ctxt→intercept value (Jon Maloy) [1806818] {CVE-

2020-2732}

- [x86] kvm: vmx: check descriptor table exits on instruction emulation (Jon Maloy) [1806818] {CVE-2020-2732}
- [x86] kvm: nvmx: Check IO instruction VM-exit conditions (Jon Maloy) [1806818] {CVE-2020-2732}
- [x86] kvm: nvmx: Refactor IO bitmap checks into helper function (Jon Maloy) [1806818] {CVE-2020-2732}
- [x86] kvm: nvmx: Don't emulate instructions in guest mode (Jon Maloy) [1806818] {CVE-2020-2732}
- [x86] kvm: x86: Fix kvm_bitmap_or_dest_vcpus() to use irq shorthand (Nitesh Narayan Lal) [1772082]
- [x86] kvm: x86: Initializing all kvm_lapic_irq fields in ioapic_write_indirect (Nitesh Narayan Lal) [1772082]
- [virt] kvm: x86: remove set but not used variable 'called' (Nitesh Narayan Lal) [1772082]
- [x86] kvm: x86: Zero the IOAPIC scan request dest vCPUs bitmap (Nitesh Narayan Lal) [1772082]
- [x86] kvm: x86: deliver KVM IOAPIC scan request to target vCPUs (Nitesh Narayan Lal) [1772082]
- [kernel] kvm: remember position in kvm → vcpus array (Nitesh Narayan Lal) [1772082]
- [x86] kvm: x86: Drop KVM_APIC_SHORT_MASK and KVM_APIC_DEST_MASK (Nitesh Narayan Lal) [1772082]
- [virt] kvm: introduce kvm_make_vcpus_request_mask() API (Nitesh Narayan Lal) [1772082]
- [virt] kvm: avoid unused variable warning for UP builds (Nitesh Narayan Lal) [1772082]
- [kernel] smp, cpumask: Use non-atomic cpumask_{set, clear}_cpu() (Nitesh Narayan Lal) [1772082]
- [fs] nfs: change sign of nfs_fh length ("J. Bruce Fields") [1813326]
- [netdrv] ibmvnic: Do not process device remove during device reset (Steve Best) [1813903]
- [x86] x86/debug: Extend the lower bound of crash kernel low reservations (Pingfan Liu) [1811511]
- [net] tcp: make tcp_space() aware of socket backlog (Guillaume Nault) [1790840]
- [net] ipv6_stub: use ip6_dst_lookup_flow instead of ip6_dst_lookup (Sabrina Dubroca) [1774447] {CVE-2020-1749}
- [net] ipv6: add net argument to ip6_dst_lookup_flow (Sabrina Dubroca) [1774447] {CVE-2020-1749}
- [net] ipv6: constify ip6_dst_lookup_{flow|tail}() sock arguments (Sabrina Dubroca) [1774447] {CVE-2020-1749}
- [net] macvlan: return correct error value (Matteo Croce) [1654878]
- [net] ieee802154: enforce CAP_NET_RAW for raw sockets (Andrea Claudi) [1779494] {CVE-

2019-17053}

- [net] ipv4: fix fnhe usage by non-cached routes (Hangbin Liu) [1788435]
- [net] route: do not cache fib route info on local routes with oif (Hangbin Liu) [1788435]
- [net] ip6_tunnel: fix potential NULL pointer dereference (Hangbin Liu) [1767045]
- [net] net_sched: remove a bogus warning in hfsc (Davide Caratti) [1781323]
- [netdrv] net/mlx5e: allow TSO on VXLAN over VLAN topologies (Davide Caratti) [1780646]
- Thu Mar 19 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1130.el7]
 - [scsi] scsi: avoid repetitive logging of device offline messages (Nilesh Javali) [1798042]
 - [scsi] qla2xxx: Fix I/Os being passed down when FC device is being deleted (Nilesh Javali) [1798042]
 - [scsi] scsi: qla2xxx: Fix unbound sleep in fcport delete path (Nilesh Javali) [1798042]
 - [scsi] scsi: qla2xxx: Fix hang in fcport delete path (Nilesh Javali) [1798042]
 - [scsi] scsi: qla2xxx: Fix stuck session in GNL (Nilesh Javali) [1798042]
 - [scsi] scsi: qla2xxx: Correct fcport flags handling (Nilesh Javali) [1798042]
 - [scsi] scsi: qla2xxx: Remove defer flag to indicate immediate port loss (Nilesh Javali) [1798042]
 - [scsi] iscsi: Avoid potential deadlock in iscsi_if_rx func (Oleksandr Natalenko) [1715986]
 - [netdrv] hv/netvsc: Fix NULL dereference at single queue mode fallback (Mohammed Gamal) [1806488]
 - [netdrv] hv/netvsc: fix handling of fallback to single queue mode (Mohammed Gamal) [1806488]
 - [netdrv] hv_netvsc: Fix unwanted rx_table reset (Mohammed Gamal) [1806488]
 - [netdrv] hv_netvsc: Fix tx_table init in rndis_set_subchannel() (Mohammed Gamal) [1806488]
 - [netdrv] hv_netvsc: fix typos in code comments (Mohammed Gamal) [1806488]
 - [netdrv] hv_netvsc: Fix a deadlock by getting rtnl lock earlier in netvsc_probe() (Mohammed Gamal) [1806488]
 - [netdrv] hv_netvsc: Fix hash key value reset after other ops (Mohammed Gamal) [1806488]
 - [netdrv] hv_netvsc: Refactor assignments of struct netvsc_device_info (Mohammed Gamal) [1806488]
 - [netdrv] hv_netvsc: split sub-channel setup into async and sync (Mohammed Gamal) [1806488]
 - [netdrv] hv_netvsc: Fix send_table offset in case of a host bug (Mohammed Gamal) [1806488]
 - [netdrv] hv_netvsc: Add NetVSP v6 and v6.1 into version negotiation (Mohammed Gamal) [1806488]
 - [netdrv] hv_netvsc: Fix offset usage in netvsc_send_table() (Mohammed Gamal) [1806488]

- [netdrv] hv_netvsc: simplify receive side calling arguments (Mohammed Gamal) [1806488]
- [scsi] scsi: ibmvfc: Fix NULL return compiler warning (Steve Best) [1810643]
- [scsi] scsi: ibmvfc: Avoid loss of all paths during SVC node reboot (Steve Best) [1810643]
- [s390] s390/vdso: add vdso support for coarse clocks (Philipp Rudo) [1791822]
- [s390] s390/vdso: remove NULL pointer check from clock_gettime (Philipp Rudo) [1791822]
- [s390] scsi: zfcp: fix rport unblock if deleted SCSI devices on Scsi_Host (Philipp Rudo) [1804807]
- Mon Mar 16 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1129.el7]
 - [tools] perf header: Use last modification time for timestamp (Michael Petlan) [1789947]
 - [tools] perf header: Fix up argument to ctime() (Michael Petlan) [1789947]
 - [hid] HID: multitouch: Add pointstick support for ALPS Touchpad (Benjamin Tissoires) [1672425]
 - [kernel] blktrace: fix dereference after null check (Ming Lei) [1798318] {CVE-2019-19768}
 - [kernel] blktrace: Protect q → blk_trace with RCU (Ming Lei) [1798318] {CVE-2019-19768}
 - [kernel] blktrace: fix trace mutex deadlock (Ming Lei) [1798318] {CVE-2019-19768}
 - [kernel] blktrace: fix unlocked registration of tracepoints (Ming Lei) [1798318] {CVE-2019-19768}
 - [kernel] blktrace: fix unlocked access to init/start-stop/teardown (Ming Lei) [1798318] {CVE-2019-19768}
 - [kernel] tracing: Handle NULL formats in hold_module_trace_bprintf_format() (Oleksandr Natalenko) [1811565]
 - [kernel] tracing: Fix trace_printk() to print when not using bprintf() (Oleksandr Natalenko) [1811565]
 - [sound] ALSA: timer: Fix incorrectly assigned timer instance (Jaroslav Kysela) [1798457] {CVE-2019-19807}
 - [x86] kvm: OOB memory write via kvm_dev_ioctl_get_cpuid (CVE-2019-19332) (Philippe Mathieu-Daud) [1783455] {CVE-2019-19332}
 - [x86] kvm: x86: do not reset microcode version on INIT or RESET (Paolo Bonzini) [1801852]
 - [x86] kvm: x86: list MSR_IA32_UCODE_REV as an emulated MSR (Paolo Bonzini) [1801852]
 - [x86] kvm: x86: Allow userspace to define the microcode version (Paolo Bonzini) [1801852]
- Wed Mar 11 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1128.el7]
 - [fs] ceph: only use d_name directly when parent is locked (Jeff Layton) [1699402]
 - [fs] ext4: work around deleting a file with i_nlink == 0 safely (Carlos Maiolino) [1801046]
 - [fs] xfs: attach dquot and reserve quota blocks during unwritten conversion (Carlos Maiolino) [1786005]
 - [fs] Revert "xfs: attach dquot and reserve quota blocks during unwritten conversion" (Carlos Maiolino) [1786005]

- [md] dm mpath: call clear_request_fn_mpio() in multipath_release_clone() (Mike Snitzer) [1806400]
- [scsi] scsi: implement .cleanup_rq callback (Mike Snitzer) [1806400]
- [md] blk-mq: add callback of .cleanup_rq (Mike Snitzer) [1806400]
- [target] target: call init_timer_on_stack() to initialize login_timer (Maurizio Lombardi) [1810037]
- [scsi] scsi: megaraid_sas: fixup MSIx interrupt setup during resume (Tomas Henzl) [1807077]
- [tools] selftests/livepatch: Test interaction with ftrace_enabled (Yannick Cote) [1806653]
- [tools] selftests/livepatch: Make dynamic debug setup and restore generic (Yannick Cote) [1806653]
- [kernel] ftrace: Introduce PERMANENT ftrace_ops flag (Yannick Cote) [1806653]
- [tools] selftests/livepatch: push and pop dynamic debug config (Yannick Cote) [1806653]
- Thu Mar 05 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1127.5.el7]
 - [scsi] scsi: libsas: fix a race condition when smp task timeout (Tomas Henzl) [1798263] {CVE-2018-20836}
 - [netdrv] can: peak_usb: fix slab info leak (Guillaume Nault) [1787484] {CVE-2019-19534}
 - [fs] xfs: also remove cached ACLs when removing the underlying attr (Carlos Maiolino) [1808676]
 - [fs] direct-io: allow direct writes to empty inodes (Eric Sandeen) [1785657]
 - [x86] x86/spec_ctrl: Make IBPB = IBRS || retpoline (Waiman Long) [1808114]
 - [infiniband] IB/mlx5: Do reverse sequence during device removal (Alaa Hleihel) [1808786]
 - [kernel] kprobes: Allow kprobes coexist with livepatch (Yannick Cote) [1764262]
 - [kernel] kprobes: Replace p with other pointer types (Yannick Cote) [1764262]
 - [scsi] qla2xxx: initialize the check_stop_free pointer (Maurizio Lombardi) [1805682]
- Fri Feb 28 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1127.4.el7]
 - [fs] gfs2: fix gfs2_find_jhead that returns uninitialized jhead with seq 0 (Abhijith Das) [1794508]
 - [fs] xfs: fix inode fork extent count overflow (Brian Foster) [1751015]
 - [fs] xfs: simplify xfs_idata_realloc (Brian Foster) [1751015]
 - [fs] xfs: remove if_real_bytes (Brian Foster) [1751015]
 - [s390] s390/diag: add tracepoint for diagnose calls (Philipp Rudo) [1805195]
 - [s390] s390/diag: add a statistic for diagnose calls (Philipp Rudo) [1805195]
 - [md] md/raid6: Set R5_ReadError when there is read failure on parity disk (Xiao Ni) [1804569]
 - [md] dm rq: fix checking of dm_dispatch_clone_request's return value (Ming Lei) [1805401]
 - [s390] scsi: zfcp: fix scsi_eh host reset with port_forced ERP for non-NPIV FCP devices

- (Philipp Rudo) [1804806]
- [s390] scsi: zfcp: fix to prevent port_remove with pure auto scan LUNs (only sdevs) (Philipp Rudo) [1804803]
- [s390] scsi: zfcp: fix missing zfcp_port reference put on -EBUSY from port_remove (Philipp Rudo) [1804805]
- [s390] scsi: zfcp: fix request object use-after-free in send path causing wrong traces (Philipp Rudo) [1804802]
- [virt] kvm: fix overflow of zero page refcount with ksm running (Paolo Bonzini) [1790534]
- Tue Feb 25 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1127.3.el7]
 - [virtio] virtio_ring: fix return code on DMA mapping fails (Philipp Rudo) [1804276]
 - [mm] swiotlb: make panic on mapping failures optional (Philipp Rudo) [1804276]
 - [virtio] virtio_ring: fix unmap of indirect descriptors (Philipp Rudo) [1804276]
 - [virtio] virtio_ring: fix num_free handling in error case (Philipp Rudo) [1804276]
 - [mm] s390/mm: fix dynamic pagetable upgrade for hugetlbfs (Philipp Rudo) [1804173]
 - [s390] s390/qeth: fix potential deadlock on workqueue flush (Philipp Rudo) [1804156]
 - [include] mm, slab: make sure that KMALLOC_MAX_SIZE will fit into MAX_ORDER (Rafael Aquini) [1804092]
 - [include] mm: slb: fix misleading comments (Rafael Aquini) [1804092]
 - [include] slob: Rework #ifdeffery in slab.h (Rafael Aquini) [1804092]
 - [kernel] tracing: Fix possible double free on failure of allocating trace buffer (Jerome Marchand) [1803011] {CVE-2017-18595}
 - [kernel] tracing: Fix crash when it fails to alloc ring buffer (Jerome Marchand) [1803011] {CVE-2017-18595}
 - [mm] x86/mm: In the PTE swapout page reclaim case clear the accessed bit instead of flushing the TLB (Rafael Aquini) [1799224]
- Fri Feb 21 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1127.2.el7]
 - [mm] mm: thp: use down_read_trylock() in khugepaged to avoid long block (Rafael Aquini) [1261799]
 - [mm] mm: oom: avoid attempting to kill init sharing same memory (Rafael Aquini) [1261799]
 - [mm] mm: oom: fix the wrong task→mm == mm checks in oom_kill_process() (Rafael Aquini) [1261799]
 - [mm] mm: oom: cleanup the "kill sharing same memory" loop (Rafael Aquini) [1261799]
 - [mm] mm: oom: fix potentially killing unrelated process (Rafael Aquini) [1261799]
 - [mm] mm: oom: reverse the order of setting TIF_MEMDIE and sending SIGKILL (Rafael Aquini) [1261799]
 - [mm] mm: oom: make sure that TIF_MEMDIE is set under task_lock (Rafael Aquini)

- [1261799]
- [mm] mm: oom: don't count on mm-less current process (Rafael Aquini) [1261799]
- [mm] mm: oom: kill the insufficient and no longer needed PT_TRACE_EXIT check (Rafael Aquini) [1261799]
- [mm] mm: oom: don't assume that a coredumping thread will exit soon (Rafael Aquini) [1261799]
- [netdrv] r8169: fix network stalls due to missing bit TXCFG_AUTO_FIFO (Corinna Vinschen) [1787263]
- [kernel] audit: CONFIG_CHANGE don't log internal bookkeeping as an event (Richard Guy Briggs) [1777239]
- [mm] writeback: use |1 instead of +1 to protect against div by zero (Christoph von Recklinghausen) [1801628]
- [mm] Revert "mm: always flush VMA ranges affected by zap_page_range" (Christoph von Recklinghausen) [1801628]
- [x86] x86/platform/uv: Account for UV Hubless in is_uvX_hub Ops (Frank Ramsay) [1789128]
- [x86] x86/platform/uv: Check EFI Boot to set reboot type (Frank Ramsay) [1789128]
- [x86] x86/platform/uv: Decode UVsystab Info (Frank Ramsay) [1789128]
- [x86] x86/platform/uv: Add UV Hubbed/Hubless Proc FS Files (Frank Ramsay) [1789128]
- [x86] x86/platform/uv: Setup UV functions for Hubless UV (Frank Ramsay) [1789128]
- [x86] x86/platform/uv: Add return code to UV BIOS Init function (Frank Ramsay) [1789128]
- [x86] x86/platform/uv: Return UV Hubless System Type (Frank Ramsay) [1789128]
- [x86] x86/platform/uv: Save OEM_ID from ACPI MADT probe (Frank Ramsay) [1789128]
- [net] openvswitch: support asymmetric conntrack (Aaron Conole) [1757759]
- Wed Feb 19 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1127.1.el7]
 - [scsi] scsi: fcoe: fix off by one in eth2fc_speed() (Chris Leech) [1665951]
 - [scsi] scsi: fcoe: provide translation table between Ethernet and FC port speeds (Chris Leech) [1665951]
 - [scsi] fcoe: use defines from ethtool for 20Gbit and 40Gbit speeds (Chris Leech) [1665951]
 - [scsi] smartpqi: bump version (Don Brace) [1795408]
 - [scsi] scsi: smartpqi: fix problem with unique ID for physical device (Don Brace) [1795408]
 - [scsi] scsi: smartpqi: properly set both the DMA mask and the coherent DMA mask (Don Brace) [1795408]
 - [drm] drm/nouveau/kms/gv100-: avoid sending a core update until the first modeset (Ben Skeggs) [1769905]
 - [drm] drm/nouveau/kms/gv100-: move window ownership setup into modesetting path (Ben Skeggs) [1769905]
 - [drm] drm/nouveau/disp/gv100-: halt NV_PDISP_FE_RM_INTR_STAT_CTRL_DISP_ERROR

storms (Ben Skeggs) [1769905]

- [drm] drm/nouveau/sec2/gp102: add missing MODULE_FIRMWAREs (Ben Skeggs) [1629576]
- [drm] drm/nouveau/secboot/gp10: support newer FW to fix SEC2 failures on some boards (Ben Skeggs) [1629576]
- [drm] drm/nouveau/secboot: enable loading of versioned LS PMU/SEC2 ACR msgqueue FW (Ben Skeggs) [1629576]
- [drm] drm/nouveau/secboot: split out FW version-specific LS function pointers (Ben Skeggs) [1629576]
- [drm] drm/nouveau/secboot: pass max supported FW version to LS load funcs (Ben Skeggs) [1629576]
- [drm] drm/nouveau/core: support versioned firmware loading (Ben Skeggs) [1629576]
- [drm] drm/nouveau/core: pass subdev into nvkm_firmware_get, rather than device (Ben Skeggs) [1629576]
- [drm] drm/nouveau/secboot/gp102-: remove WAR for SEC2 RTOS start bug (Ben Skeggs) [1629576]
- [drm] drm/nouveau/flcn/gp102-: improve implementation of bind_context() on SEC2/GSP (Ben Skeggs) [1629576]
- [infiniband] IB/core: Do not notify GID change event of an unregistered device (Kamal Heib) [1707036]
- [infiniband] IB/core: Let IB core distribute cache update events (Kamal Heib) [1707036]
- [scsi] lpfc: Fix stack trace when running the debug kernel (Dick Kennedy) [1793410]
- [mm] mm, sparse: do not swamp log with huge vmemmap allocation failures (Artem Savkov) [1515625]
- [netdrv] nfp: flower: fix stats id allocation (Pablo Cascon) [1786498]
- [netdrv] virtio-net: switch to use XPS to choose txq (Lu Lu) [1769479]
- [vhost] vhost_net: validate sock before trying to put its fd (Vladis Dronov) [1767060]
- [vhost] vhost_net: stop device during reset owner (Vladis Dronov) [1767060]
- [vhost] vhost: don't open-code sockfd_put() (Vladis Dronov) [1767060]
- [netdrv] bnx2x: Prevent ptp_task to be rescheduled indefinitely (Manish Chopra) [1720384]
- [netdrv] bnx2x: Check if transceiver implements DDM before access (Manish Chopra) [1720384]
- [netdrv] bnx2x: Add support for detection of P2P event packets (Manish Chopra) [1720384]
- [netdrv] bnx2x: Replace magic numbers with macro definitions (Manish Chopra) [1720384]
- [fs] flexfiles: Don't tie up all the rpciod threads in resends (Benjamin Coddington) [1778963]
- Wed Feb 12 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1126.2.el7]
 - [kernel] sched: print_rq(): Don't use tasklist_lock (Phil Auld) [1797429]
 - [kernel] sched: s/do_each_thread/for_each_process_thread/ in debug.c (Phil Auld) [1797429]

- [kernel] sched/rt: Optimize checking group RT scheduler constraints (Phil Auld) [1726700]
- [iommu] iommu/iova: Fix tracking of recently failed iova address (Jerry Snitselaar) [1759072]
- [iommu] iommu/iova: Optimise attempts to allocate iova from 32bit address range (Jerry Snitselaar) [1759072]
- [mm] memcg: Use a more cacheline efficient ways to sum percpu stats (Waiman Long) [1796920]
- [mm] memcg: Add preemption point in accumulate_memcg_tree() (Waiman Long) [1796920]
- [mm] memcg: reduce memcg tree traversals for stats collection (Waiman Long) [1796920]
- [fs] vfs: show_vfsstat: do not ignore errors from show_devname method (Ian Kent) [1751787]
- [fs] vfs: make mounts and mountstats honor root dir like mountinfo does (Ian Kent) [1751787]
- [fs] xfs: bulkstat should copy lastip whenever userspace supplies one (Carlos Maiolino) [1786007]
- [fs] xfs: attach dquot and reserve quota blocks during unwritten conversion (Carlos Maiolino) [1786005]
- [fs] cifs: Fix NULL pointer dereference of devname (Leif Sahlberg) [1722592]
- [x86] hyper-v: make hyperv_init() __init (Vitaly Kuznetsov) [1782192]
- Wed Feb 05 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1126.1.el7]
 - [kernel] tick-sched: Update nohz load even if tick already stopped (Scott Wood) [1694877]
 - [powerpc] powerpc/pseries: safely roll back failed DLPAR cpu add (Desnes Augusto Nunes do Rosario) [1772210]
 - [powerpc] powerpc/pseries: address checkpatch warnings in dlpar_offline_cpu (Desnes Augusto Nunes do Rosario) [1772210]
 - [fs] fs/proc/proc_sysctl.c: Fix a NULL pointer dereference (Vladis Dronov) [1795522] {CVE-2019-20054}
 - [fs] fs/proc/proc_sysctl.c: fix NULL pointer dereference in put_links (Vladis Dronov) [1795522] {CVE-2019-20054}
 - [tools] cpupower: mperf_monitor: Update cpupower to use the RDPRU instruction (Janakarajan Natarajan) [1791014]
 - [tools] cpupower: mperf_monitor: Introduce per_cpu_schedule flag (Janakarajan Natarajan) [1791014]
 - [tools] cpupower: Move needs_root variable into a sub-struct (Janakarajan Natarajan) [1791014]
 - [fs] xfs: properly serialise fallocation against AIO+DIO (Carlos Maiolino) [1786004]
 - [fs] xfs: flush removing page cache in xfs_reflink_remap_prep (Carlos Maiolino) [1786004]
 - [edac] EDAC, skx, i10nm: Fix source ID register offset (Aristeu Rozanski) [1514705]
 - [edac] EDAC, i10nm: Check ECC enabling status per channel (Aristeu Rozanski) [1514705]

- [edac] EDAC, i10nm: Add Intel additional Ice-Lake support (Aristeu Rozanski) [1514705]
- [edac] EDAC, skx, i10nm: Make skx_common.c a pure library (Aristeu Rozanski) [1514705]
- [edac] EDAC, skx_common: Add code to recognise new compound error code (Aristeu Rozanski) [1514705]
- [edac] EDAC, i10nm: Fix randconfig builds (Aristeu Rozanski) [1514705]
- [edac] EDAC, i10nm: Add a driver for Intel 10nm server processors (Aristeu Rozanski) [1514705]
- [edac] EDAC, skx_edac: Delete duplicated code (Aristeu Rozanski) [1514705]
- [edac] EDAC, skx_common: Separate common code out from skx_edac (Aristeu Rozanski) [1514705]
- [edac] EDAC, skx: Move debugfs node under EDACs hierarchy (Aristeu Rozanski) [1514705]
- [edac] EDAC, skx: Prepend hex formatting with 0x (Aristeu Rozanski) [1514705]
- [edac] EDAC, skx: Fix function calling order in skx_exit() (Aristeu Rozanski) [1514705]
- [edac] EDAC, skx_edac: Fix logical channel intermediate decoding (Aristeu Rozanski) [1514705]
- [edac] EDAC, {i7core, sb, skx}_edac: Fix uncorrected error counting (Aristeu Rozanski) [1514705]
- [edac] EDAC: Correct DIMM capacity unit symbol (Aristeu Rozanski) [1514705]
- [x86] x86/mce: Add notifier_block forward declaration (Aristeu Rozanski) [1514705]
- [edac] EDAC: Handle return value of kasprintf() (Aristeu Rozanski) [1514705]
- [edac] EDAC, i5100: Convert to debugfs wrappers (Aristeu Rozanski) [1514705]
- [edac] EDAC: Add debugfs wrappers (Aristeu Rozanski) [1514705]
- [edac] EDAC: Carve out debugfs functionality (Aristeu Rozanski) [1514705]
- [x86] x86/reboot: Always use NMI fallback when shutdown via reboot vector IPI fails (Grzegorz Halat) [1594848]
- [scsi] scsi: qla2xxx: Fix unbound NVME response length (Himanshu Madhani) [1788669]
- Thu Jan 30 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1125.1.el7]
 - [netdrv] ixgbevf: Use cached link state instead of re-reading the value for ethtool (Ken Cox) [1794812]
 - [ptp] ptp: free ptp device pin descriptors properly (Vladis Dronov) [1774657]
 - [ptp] ptp: fix the race between the release of ptp_clock and cdev (Vladis Dronov) [1774657]
 - [ptp] ptp: Fix pass zero to ERR_PTR() in ptp_clock_register (Vladis Dronov) [1774657]
 - [ptp] ptp: create "pins" together with the rest of attributes (Vladis Dronov) [1774657]
 - [ptp] ptp: use is_visible method to hide unused attributes (Vladis Dronov) [1774657]
 - [ptp] ptp: use kcalloc when allocating arrays (Vladis Dronov) [1774657]
 - [ptp] ptp: do not explicitly set drvdata in ptp_clock_register() (Vladis Dronov) [1774657]

- [ptp] drivers/ptp: Fix kernel memory disclosure (Vladis Dronov) [1774657]
- [ptp] ptp: Fix resource leak in case of error (Vladis Dronov) [1774657]
- [netdrv] ptp: drivers: set the number of programmable pins (Vladis Dronov) [1774657]
- [ptp] ptp: expose the programmable pins via sysfs (Vladis Dronov) [1774657]
- [documentation] ptp: add the pin GET/SETFUNC ioctls to the testptp program (Vladis Dronov) [1774657]
- [documentation] ptp: Allow selecting trigger/event index in testptp (Vladis Dronov) [1774657]
- [documentation] ptp: add the PTP_SYS_OFFSET ioctl to the testptp program (Vladis Dronov) [1774657]
- [fs] mark struct file that had write access grabbed by open() (Miklos Szeredi) [1679829]
- [fs] fold __get_file_write_access() into its only caller (Miklos Szeredi) [1679829]
- [powerpc] get rid of DEBUG_WRITECOUNT (Miklos Szeredi) [1679829]
- [fs] don't bother with {get, put}_write_access() on non-regular files (Miklos Szeredi) [1679829]
- [fs] gfs2: Use d_materialise_unique instead of d_splice_alias (2) (Andreas Grunbacher) [1784550]
- [fs] gfs2: gfs2_create_inode(): don't bother with d_splice_alias() (Andreas Grunbacher) [1784550]
- [fs] gfs2: bugger off early if O_CREAT open finds a directory (Andreas Grunbacher) [1784550]
- [fs] libceph: fix PG split vs OSD (re)connect race (Ilya Dryomov) [1785656]
- [scsi] Fix driver initialization failure for sli4 non nvme (Dick Kennedy) [1783899]
- [netdrv] hv_netvsc: fix race that may miss tx queue wakeup (Mohammed Gamal) [1781322]
- Mon Jan 27 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1124.1.el7]
 - [netdrv] net/ibmvnic: Fix typo in retry check (Steve Best) [1780300]
 - [netdrv] ibmvnic: Serialize device queries (Steve Best) [1780300]
 - [netdrv] ibmvnic: Bound waits for device queries (Steve Best) [1780300]
 - [netdrv] ibmvnic: Terminate waiting device threads after loss of service (Steve Best) [1780300]
 - [netdrv] ibmvnic: Fix completion structure initialization (Steve Best) [1780300]
 - [netdrv] net/ibmvnic: Ignore H_FUNCTION return from H_EOI to tolerate XIVE (Steve Best) [1780300]
 - [powerpc] powerpc/pseries/mobility: use cond_resched when updating device tree (Desnes Augusto Nunes do Rosario) [1759209]
 - [powerpc] powerpc/rtas: allow rescheduling while changing cpu states (Desnes Augusto Nunes do Rosario) [1759209]
 - [base] of: to support binding numa node to specified device in devicetree (Jeff Moyer)

- [1791883]
- [s390] s390: wire up sys_renameat2 (Miklos Szeredi) [1773504]
- [net] ipv6: do not use random local source address for tunnels (Xin Long) [1786676]
- [misc] mei: me: add cannon point device ids for 4th device (Jerry Snitselaar) [1745139]
- [misc] mei: me: add cannon point device ids (Jerry Snitselaar) [1745139]
- [netdrv] bnxt_en: Support all variants of the 5750X chip family (Jonathan Toppins) [1789345]
- Wed Jan 22 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1123.1.el7]
 - [kernel] tick: broadcast-hrtimer: Fix a race in bc_set_next (Vladis Dronov) [1785680]
 - [mm] mremap: remove LATENCY_LIMIT from mremap to reduce the number of TLB shootdowns (Rafael Aquini) [1781325]
 - [x86] x86/CPU: mask X86_CR4_PCIDE from trampoline_cr4_features in clear_in_cr4() too (Vitaly Kuznetsov) [1785626]
 - [scsi] scsi: ibmvfc: fix WARN_ON during event pool release (Desnes Augusto Nunes do Rosario) [1635959]
 - [dma] dma-mapping: relax warning for per-device areas (Desnes Augusto Nunes do Rosario) [1635959]
 - [kernel] sched: Fix schedule_tail() to disable preemption (Phil Auld) [1771094]
 - [virtio] scsi: virtio: Reduce BUG if total_sg > virtqueue size to WARN (Lu Lu) [1625065]
 - [netdrv] vmxnet3: turn off lro when rxcsom is disabled (Neil Horman) [1775367]
 - [x86] x86: respect memory size limiting via mem= parameter (Joel Savitz) [1750253]
 - [x86] sched/topology: Improve load balancing on AMD EPYC systems (Phil Auld) [1505941]
 - [kernel] sched/topology: Fix off by one bug (Phil Auld) [1505941]
 - [s390] s390/idle: fix cpu idle time calculation (Philipp Rudo) [1777505]
 - [vhost] vhost: Fix incorrect allocation size for vq indirect iovec (Eugenio Perez) [1749726]
- Tue Jan 14 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1123.el7]
 - [mm] mm: prevent get_user_pages() from overflowing page refcount (Aristeu Rozanski) [1705005] {CVE-2019-11487}
 - [mm] mm/hugetlb.c: __get_user_pages ignores certain follow_hugetlb_page errors (Aristeu Rozanski) [1705005] {CVE-2019-11487}
 - [fs] CIFS: avoid using MID 0xFFFF (Leif Sahlberg) [1771255]
 - [net] netfilter: xt_TRACE: add explicitly nf_logger_find_get call (Phil Sutter) [1774444]
 - [wireless] rtlwifi: Fix potential overflow on P2P code (Josef Oskera) [1775236] {CVE-2019-17666}
- Tue Jan 07 2020 Jan Stancek <jstancek@redhat.com> [3.10.0-1122.el7]
 - [drm] drm/amd/powerplay: use hardware fan control if no powerplay fan table (Lyude Paul) [1729286]

- [nvme] nvme-fc: fix double-free scenarios on hw queues (Ewan Milne) [1731286]
- [x86] kvm: vmx: use MSR_IA32_TSX_CTRL to hard-disable TSX on guest that lack it (Paolo Bonzini) [1779768]
- [x86] kvm: vmx: implement MSR_IA32_TSX_CTRL disable RTM functionality (Paolo Bonzini) [1779768] {CVE-2019-19338}
- [x86] kvm: x86: Mark expected switch fall-throughs (Paolo Bonzini) [1779768] {CVE-2019-19338}
- [x86] kvm: x86: implement MSR_IA32_TSX_CTRL effect on CPUID (Paolo Bonzini) [1779768] {CVE-2019-19338}
- [x86] kvm: x86: do not modify masked bits of shared MSRs (Paolo Bonzini) [1779768] {CVE-2019-19338}
- [x86] kvm: x86: fix presentation of TSX feature in ARCH_CAPABILITIES (Paolo Bonzini) [1779768] {CVE-2019-19338}
- [x86] kvm/x86: Export MDS_NO=0 to guests when TSX is enabled (Paolo Bonzini) [1779768] {CVE-2019-19338}
- [s390] s390/qeth: ensure linear access to packet headers (Philipp Rudo) [1782927]
- [s390] s390/qeth: guard against runt packets (Philipp Rudo) [1782927]
- [s390] s390/qeth: consolidate skb allocation (Philipp Rudo) [1782927]
- [s390] s390/qeth: clean up page frag creation (Philipp Rudo) [1782927]
- [netdrv] i40e: Fix for persistent lldp support (Stefan Assmann) [1782689]
- Tue Dec 17 2019 Jan Stancek <jstancek@redhat.com> [3.10.0-1121.el7]
 - [platform] thinkpad_acpi: Don't yell on unsupported brightness interfaces (Lyude Paul) [1305619]
 - [platform] thinkpad-acpi: fix handle locate for video and query of _BCL (Lyude Paul) [1305619]
 - [s390] kernel: avoid cpu yield in SMT environment (Philipp Rudo) [1777876]
 - [scsi] scsi: qla2xxx: Fix incorrect SFUB length used for Secure Flash Update MB Cmd (Himanshu Madhani) [1783016]
 - [scsi] scsi: qla2xxx: Added support for MPI and PEP regions for ISP28XX (Himanshu Madhani) [1783016]
 - [scsi] scsi: qla2xxx: Correctly retrieve and interpret active flash region (Himanshu Madhani) [1783016]
 - [powerpc] KVM: PPC: Book3S HV: Flush link stack on guest exit to host kernel (Gustavo Duarte) [1777710]
 - [powerpc] powerpc/book3s64: Fix link stack flush on context switch (Gustavo Duarte) [1777710]
 - [powerpc] powerpc/64s: support nospectre_v2 cmdline option (Gustavo Duarte) [1777710]
 - [net] openvswitch: fix flow command message size (Paolo Abeni) [1776578]

- [block] brd: re-enable __GFP_HIGHMEM in brd_insert_page() (Jeff Moyer) [1781298]
- [block] brd: remove dax support (Jeff Moyer) [1781298]
- [nvme] nvme: don't access the inlined bio after nvmet request is completed (Ming Lei) [1631120]
- [fs] epoll: fix race between ep_poll_callback(POLLFREE) and ep_free()/ep_remove() (Miklos Szeredi) [1780128]
- [nvme] nvme: fix NULL pointer dereference in nvme_init_subsystem (Ewan Milne) [1781316]
- [nvme] nvme-fabrics: allow duplicate connections to the discovery controller (Ewan Milne) [1781316]
- [scsi] scsi: bnx2fc: timeout calculation invalid for bnx2fc_ah_abort() (Nilesh Javali) [1772966]
- Thu Dec 12 2019 Jan Stancek <jstancek@redhat.com> [3.10.0-1120.el7]
 - [md] raid5: need to set STRIPE_HANDLE for batch head (Xiao Ni) [1774330]
 - [drm] drm/radeon: fix si_enable_smc_cac() failed issue (Dave Airlie) [1780026]
 - [block] block: don't change REQ_NR_BITS (Ming Lei) [1779712]
- Mon Dec 09 2019 Jan Stancek <jstancek@redhat.com> [3.10.0-1119.el7]
 - [x86] mm: serialize against gup_fast in pmdp_splitting_flush() (Vitaly Kuznetsov) [1674266]
 - [vhost] vsock: split packets to send using multiple buffers (Stefano Garzarella) [1777349]
 - [md] md/raid10: prevent access of uninitialized resync_pages offset (Nigel Croxon) [1767935]
 - [x86] perf/x86: Modify error message in virtualized environment (Michael Petlan) [1759758]
 - [fs] cifs: Fix infinite loop when using hard mount option (Dave Wysochanski) [1770404]
 - [wireless] mwifiex: Fix heap overflow in mmwifiex_process_tdl_action_frame() (Stanislaw Gruszka) [1776157] {CVE-2019-14901}
- Wed Dec 04 2019 Jan Stancek <jstancek@redhat.com> [3.10.0-1118.el7]
 - [net] ipv6: support more tunnel interfaces for EUI64 link-local generation (Guillaume Nault) [1770686]
 - [net] netfilter: masquerade: don't flush all conntracks if only one address deleted on device (Patrick Talbert) [1771396]
 - [net] netfilter: conntrack: resched in nf_ct_iterate_cleanup (Patrick Talbert) [1771396]
 - [net] ipvs: fix buffer overflow with sync daemon and service (Davide Caratti) [1725440]
 - [net] ipvs: fix rtnl_lock lockups caused by start_sync_thread (Davide Caratti) [1725440]
 - [net] ipvs: Pass ipvs not net to make_receive_sock (Davide Caratti) [1725440]
 - [net] ipvs: Pass ipvs not net to make_send_sock (Davide Caratti) [1725440]
 - [net] ipvs: Pass ipvs not net to start_sync_thread (Davide Caratti) [1725440]
 - [net] ipvs: Pass ipvs not net to ip_vs_genl_new_daemon (Davide Caratti) [1725440]
 - [net] ipvs: add sync_maxlen parameter for the sync daemon (Davide Caratti) [1725440]

- [net] ipv6: call `rtnl_lock` early (Davide Caratti) [1725440]
- [net] netfilter: don't use `mutex_lock_interruptible()` (Davide Caratti) [1725440]
- [net] ipv6: fix memory leak in `ip_vs_ctl.c` (Davide Caratti) [1725440]
- [wireless] mwifiex: fix possible heap overflow in `mwifiex_process_country_ie()` (Stanislaw Gruszka) [1776206]
- [scsi] Revert "qla2xxx: Mark NVMe/FC initiator mode usage as technology preview" (Ewan Milne) [1642968]
- Tue Dec 03 2019 Jan Stancek <jstancek@redhat.com> [3.10.0-1117.el7]
 - [x86] x86/speculation: Remove unneeded STIBP code (Waiman Long) [1766540] {CVE-2019-11135}
 - [x86] x86/speculation: Fix redundant MDS mitigation message (Waiman Long) [1766540] {CVE-2019-11135}
 - [documentation] x86/speculation: Fix incorrect MDS/TAA mitigation status (Waiman Long) [1766540] {CVE-2019-11135}
 - [x86] x86/speculation/taa: Fix printing of TAA_MSG_SMT on IBRS_ALL CPUs (Waiman Long) [1766540] {CVE-2019-11135}
 - [x86] x86/tsx: Add config options to set `tsx=on|off|auto` (Waiman Long) [1766540] {CVE-2019-11135}
 - [documentation] x86/speculation/taa: Add documentation for TSX Async Abort (Waiman Long) [1766540] {CVE-2019-11135}
 - [x86] x86/tsx: Add "auto" option to the `tsx=` cmdline parameter (Waiman Long) [1766540] {CVE-2019-11135}
 - [base] x86/speculation/taa: Add `sysfs` reporting for TSX Async Abort (Waiman Long) [1766540] {CVE-2019-11135}
 - [x86] x86/speculation/taa: Add mitigation for TSX Async Abort (Waiman Long) [1766540] {CVE-2019-11135}
 - [x86] x86/cpu: Add a "tsx=" cmdline option with TSX disabled by default (Waiman Long) [1766540] {CVE-2019-11135}
 - [x86] x86/cpu: Add a helper function `x86_read_arch_cap_msr()` (Waiman Long) [1766540] {CVE-2019-11135}
 - [x86] x86/msr: Add the IA32_TSX_CTRL MSR (Waiman Long) [1766540] {CVE-2019-11135}
 - [documentation] documentation: Add ITLB_MULTIHIT documentation (Paolo Bonzini) [1690343] {CVE-2018-12207}
 - [x86] kvm: x86: mmu: Recovery of shattered NX large pages (Paolo Bonzini) [1690343] {CVE-2018-12207}
 - [virt] kvm: Add helper function for creating VM worker threads (Paolo Bonzini) [1690343] {CVE-2018-12207}
 - [x86] kvm: mmu: ITLB_MULTIHIT mitigation (Paolo Bonzini) [1690343] {CVE-2018-12207}

- [kernel] cpu/speculation: Uninline and export CPU mitigations helpers (Paolo Bonzini) [1690343] {CVE-2018-12207}
- [x86] cpu: Add Tremont to the cpu vulnerability whitelist (Paolo Bonzini) [1690343] {CVE-2018-12207}
- [x86] Add ITLB_MULTIHIT bug infrastructure (Paolo Bonzini) [1690343] {CVE-2018-12207}
- [x86] kvm: vmx, svm: always run with EFER.NXE=1 when shadow paging is active (Paolo Bonzini) [1690343] {CVE-2018-12207}
- [x86] kvm: x86: add tracepoints around __direct_map and FNAME(fetch) (Paolo Bonzini) [1690343] {CVE-2018-12207}
- [x86] kvm: x86: change kvm_mmu_page_get_gfn BUG_ON to WARN_ON (Paolo Bonzini) [1690343] {CVE-2018-12207}
- [x86] kvm: x86: remove now unneeded hugepage gfn adjustment (Paolo Bonzini) [1690343] {CVE-2018-12207}
- [x86] kvm: x86: make FNAME(fetch) and __direct_map more similar (Paolo Bonzini) [1690343] {CVE-2018-12207}
- [x86] kvm: mmu: Do not release the page inside mmu_set_spte() (Paolo Bonzini) [1690343] {CVE-2018-12207}
- [x86] kvm: x86: mmu: Remove unused parameter of __direct_map() (Paolo Bonzini) [1690343] {CVE-2018-12207}
- [virt] kvm: Convert kvm_lock to a mutex (Paolo Bonzini) [1690343] {CVE-2018-12207}
- [x86] kvm: mmu: drop vcpu param in gpte_access (Paolo Bonzini) [1690343] {CVE-2018-12207}
- [virt] kvm: x86, powerpc: do not allow clearing largepages debugfs entry (Paolo Bonzini) [1690343] {CVE-2018-12207}
- Mon Dec 02 2019 Jan Stancek <jstancek@redhat.com> [3.10.0-1116.el7]
 - [netdrv] net/mlx5: Fix auto group size calculation (Alaa Hleihel) [1769309]
 - [mm] x86/io: add interface to reserve io memtype for a resource range. (v1.1) (Dave Airlie) [1739623]
 - [sound] alsa: emux: Fix potential Spectre v1 vulnerabilities (Jaroslav Kysela) [1672561]
 - [s390] s390/smt: Fix s390 SMT reporting (Josh Poimboeuf) [1764184]
 - [mm] mm: swap: clean up swap readahead (Rafael Aquini) [1725396]
 - [mm] mm: do_swap_page: clean up parameter list passing a pointer to struct vm_fault (Rafael Aquini) [1725396]
 - [mm] mm: __handle_mm_fault: introduce explicit barrier after orig_pte dereference (Rafael Aquini) [1725396]
 - [fs] cachefiles: Fix page leak in cachefiles_read_backing_file while vmscan is active (David Howells) [1765975]
- Wed Nov 27 2019 Jan Stancek <jstancek@redhat.com> [3.10.0-1115.el7]

- [scsi] Fix stack tarce when lpfc driver is unloaded (Dick Kennedy) [1774744]
- [scsi] qla2xxx: Update driver version (Himanshu Madhani) [1731581]
- [scsi] scsi: qla2xxx: Fix partial flash write of MBI (Himanshu Madhani) [1731581]
- [scsi] scsi: qla2xxx: Fix device connect issues in P2P configuration (Himanshu Madhani) [1731581]
- [scsi] scsi: qla2xxx: Fix a NULL pointer dereference (Himanshu Madhani) [1731581]
- [scsi] scsi: qla2xxx: Fix double scsi_done for abort path (Himanshu Madhani) [1731581]
- [scsi] scsi: qla2xxx: Make qla2x00_abort_srb() again decrease the sp reference count (Himanshu Madhani) [1731581]
- [scsi] scsi: qla2xxx: Fix driver unload hang (Himanshu Madhani) [1731581]
- [scsi] scsi: qla2xxx: Fix SRB leak on switch command timeout (Himanshu Madhani) [1731581]
- [scsi] scsi: qla2xxx: Fix premature timer expiration (Himanshu Madhani) [1731581]
- [scsi] scsi: qla2xxx: Uninline qla2x00_init_timer() (Himanshu Madhani) [1731581]
- [scsi] scsi: qla2xxx: Do command completion on abort timeout (Himanshu Madhani) [1731581]
- [scsi] scsi: qla2xxx: Retry PLOGI on FC-NVMe PRLI failure (Himanshu Madhani) [1731581]
- [scsi] scsi: qla2xxx: Add error handling for PLOGI ELS passthrough (Himanshu Madhani) [1731581]
- [scsi] scsi: qla2xxx: Inline the qla2x00_fcport_event_handler() function (Himanshu Madhani) [1731581]
- [scsi] scsi: qla2xxx: Dual FCP-NVMe target port support (Himanshu Madhani) [1731581]
- [scsi] scsi: qla2xxx: Use tabs instead of spaces for indentation (Himanshu Madhani) [1731581]
- [scsi] scsi: qla2xxx: Fix N2N link up fail (Himanshu Madhani) [1731581]
- [scsi] scsi: qla2xxx: Fix N2N link reset (Himanshu Madhani) [1731581]
- [scsi] scsi: qla2xxx: Fix a race condition between aborting and completing a SCSI command (Himanshu Madhani) [1731581]
- [scsi] scsi: qla2xxx: Introduce the function qla2xxx_init_sp() (Himanshu Madhani) [1731581]
- [scsi] scsi: qla2xxx: Really fix qla2xxx_eh_abort() (Himanshu Madhani) [1731581]
- [scsi] scsi: qla2xxx: Make qla24xx_async_abort_cmd() static (Himanshu Madhani) [1731581]
- [scsi] scsi: qla2xxx: Reduce the number of forward declarations (Himanshu Madhani) [1731581]
- [scsi] scsi: qla2xxx: Remove a superfluous forward declaration (Himanshu Madhani) [1731581]
- [scsi] scsi: qla2xxx: Fix stuck login session (Himanshu Madhani) [1731581]
- [scsi] scsi: qla2xxx: Fix panic from use after free in qla2x00_async_tm_cmd (Himanshu

Madhani) [1731581]

- [media] cx24116: fix a buffer overflow when checking userspace params (Jarod Wilson) [1737279] {CVE-2015-9289}
- [scsi] qedf: Initialize rport while creation of vport (Nilesh Javali) [1760746]
- [fs] Fix the locking in dcache_readdir() and friends (Ondrej Mosnacek) [1510603]
- [fs] much milder d_walk() race (Ondrej Mosnacek) [1510603]
- [fs] libfs.c: new helper - next_positive() (Ondrej Mosnacek) [1510603]
- [fs] dcache_{readdir, dir_lseek}(): don't bother with nested → d_lock (Ondrej Mosnacek) [1510603]
- [security] selinuxfs: don't open-code d_genocide() (Ondrej Mosnacek) [1510603]
- [fs] fs/dcache: Enable automatic reclaim of excess negative dentries (Waiman Long) [1489573]
- [fs] fs/dcache: Add sysctl parameter negative-dentry-limit as a soft limit on negative dentries (Waiman Long) [1489573]
- [fs] fs/dcache: Move percpu count updates out of dcache_lru_lock (Waiman Long) [1489573]
- [fs] fs/dcache: Don't set DCACHE_REFERENCED on dentries when first put into LRU (Waiman Long) [1489573]
- Mon Nov 25 2019 Jan Stancek <jstancek@redhat.com> [3.10.0-1114.el7]
 - [kernel] sched/numa: Fix a possible divide-by-zero (Vladis Dronov) [1765959]
 - [x86] x86/boot/64: Round memory hole size up to next PMD page (Frank Ramsay) [1773762]
 - [x86] x86/boot/64: Make level2_kernel_pgt pages invalid outside kernel area (Frank Ramsay) [1773762]
 - [kernel] seccomp: Fix tracer exit notifications during fatal signals (Vladis Dronov) [1770484]
 - [x86] x86/ptrace: run seccomp after ptrace (Vladis Dronov) [1770484]
 - [fs] cifs: Fix retry mid list corruption on reconnects (Dave Wysochanski) [1614201]
 - [fs] cifs: add a warning if we try to to dequeue a deleted mid (Dave Wysochanski) [1614201]
 - [fs] cifs: Fix use after free of a mid_q_entry (Dave Wysochanski) [1614201]
 - [fs] Don't log confusing message on reconnect by default (Dave Wysochanski) [1614201]
 - [fs] ceph: mark Fw cap dirty after splice write (Zheng Yan) [1710751]
 - [fs] cifs: Force reval dentry if LOOKUP_REVAL flag is set (Dave Wysochanski) [1771657]
 - [fs] cifs: Force revalidate inode when dentry is stale (Dave Wysochanski) [1771657]
 - [fs] cifs: Gracefully handle QueryInfo errors during open (Dave Wysochanski) [1771657]
- Fri Nov 22 2019 Jan Stancek <jstancek@redhat.com> [3.10.0-1113.el7]
 - [drm] drm/i915/cmdparser: Fix jump whitelist clearing (Dave Airlie) [1756883] {CVE-2019-0155}
 - [drm] drm/i915: Lower RM timeout to avoid DSI hard hangs (Dave Airlie) [1756816] {CVE-

2019-0154}

- [drm] drm/i915/gen8+: Add RC6 CTX corruption WA (Dave Airlie) [1756816] {CVE-2019-0154}
- [drm] drm/i915/cmdparser: Ignore Length operands during command matching (Dave Airlie) [1756883] {CVE-2019-0155}
- [drm] drm/i915/cmdparser: Add support for backward jumps (Dave Airlie) [1756883] {CVE-2019-0155}
- [drm] drm/i915/cmdparser: Use explicit goto for error paths (Dave Airlie) [1756883] {CVE-2019-0155}
- [drm] drm/i915: Add gen9 BCS cmdparsing (Dave Airlie) [1756883] {CVE-2019-0155}
- [drm] drm/i915: Allow parsing of unsized batches (Dave Airlie) [1756883] {CVE-2019-0155}
- [drm] drm/i915: Support ro ppgtt mapped cmdparser shadow buffers (Dave Airlie) [1756883] {CVE-2019-0155}
- [drm] drm/i915: Add support for mandatory cmdparsing (Dave Airlie) [1756883] {CVE-2019-0155}
- [drm] drm/i915: Remove Master tables from cmdparser (Dave Airlie) [1756883] {CVE-2019-0155}
- [drm] drm/i915: Disable Secure Batches for gen6+ (Dave Airlie) [1756883] {CVE-2019-0155}
- [drm] drm/i915: Rename gen7 cmdparser tables (Dave Airlie) [1756883] {CVE-2019-0155}
- [fs] Fix error code in nfs_lookup_verify_inode() (Benjamin Coddington) [1761957]
- [scsi] scsi: qla2xxx: Initialized mailbox to prevent driver load failure (Himanshu Madhani) [1770307]
- [powerpc] powerpc/ptrace: run seccomp after ptrace (Vladis Dronov) [1760294]
- [s390] s390/ptrace: run seccomp after ptrace (Vladis Dronov) [1760294]
- [s390] s390/seccomp: fix error return for filtered system calls (Vladis Dronov) [1760294]
- [netdrv] bnxt_en: flow_offload: offload tunnel decap rules via indirect callbacks (Davide Caratti) [1717422]
- [x86] cpuidle-haltpoll: vcpu hotplug support (Marcelo Tosatti) [1771849]
- [x86] kvm: x86: skip populating logical dest map if apic is not sw enabled (Bandan Das) [1738496]
- [x86] kvm: x86: remove unnecessary recalculate_apic_map (Bandan Das) [1738496]
- [scsi] scsi: bnx2fc: Handle scope bits when array returns BUSY or TSF (Nilesh Javali) [1750577]
- [scsi] scsi: bnx2fc: remove set but not used variables 'task', 'port', 'orig_task' (Nilesh Javali) [1750577]
- [scsi] scsi: bnx2fc: remove set but not used variables 'lport', 'host' (Nilesh Javali) [1750577]
- [scsi] scsi: bnx2fc: remove set but not used variable 'fh' (Nilesh Javali) [1750577]
- [scsi] scsi: qedi: Remove WARN_ON from clear task context (Nilesh Javali) [1461697]

- [scsi] scsi: qedi: Remove WARN_ON for untracked cleanup (Nilesh Javali) [1461697]
- Fri Nov 15 2019 Jan Stancek <jstancek@redhat.com> [3.10.0-1112.el7]
 - [scsi] scsi: mpt3sas: change allocation option (Tomas Henzl) [1763796]
 - [md] md: improve handling of bio with REQ_PREFLUSH in md_flush_request() (Xiao Ni) [1752061]
 - [kvm] KVM: x86: switch KVMCLOCK base to monotonic raw clock (Marcelo Tosatti) [1760668]
 - [net] mac80211: Reject malformed SSID elements (Stanislaw Gruszka) [1748266]
 - [net] cfg80211: wext: avoid copying malformed SSIDs (Stanislaw Gruszka) [1748266]
 - [wireless] iwlwifi: pcie: change qu with jf devices to use qu configuration (Stanislaw Gruszka) [1748266]
 - [net] mac80211: fix txq null pointer dereference (Stanislaw Gruszka) [1748266]
 - [net] nl80211: fix null pointer dereference (Stanislaw Gruszka) [1748266]
 - [net] cfg80211: initialize on-stack chandefs (Stanislaw Gruszka) [1748266]
 - [net] cfg80211: validate SSID/MBSSID element ordering assumption (Stanislaw Gruszka) [1748266]
 - [net] nl80211: validate beacon head (Stanislaw Gruszka) [1748266]
 - [net] mac80211: keep BHs disabled while calling drv_tx_wake_queue() (Stanislaw Gruszka) [1748266]
 - [net] cfg80211: Purge frame registrations on iftype change (Stanislaw Gruszka) [1748266]
 - [wireless] rtw88: pci: Use DMA sync instead of remapping in RX ISR (Stanislaw Gruszka) [1748266]
 - [wireless] rtw88: pci: Rearrange the memory usage for skb in RX ISR (Stanislaw Gruszka) [1748266]
 - [wireless] iwlwifi: fw: don't send GEO_TX_POWER_LIMIT command to FW version 36 (Stanislaw Gruszka) [1748266]
 - [net] nl80211: Fix possible Spectre-v1 for CQM RSSI thresholds (Stanislaw Gruszka) [1748266]
 - [net] mac80211: Do not send Layer 2 Update frame before authorization (Stanislaw Gruszka) [1748266]
 - [wireless] iwlwifi: assign directly to iwl_trans → cfg in QuZ detection (Stanislaw Gruszka) [1748266]
 - [wireless] mwifiex: Fix three heap overflow at parsing element in cfg80211_ap_settings (Stanislaw Gruszka) [1748266]
 - [net] mac80211: Correctly set noencrypt for PAE frames (Stanislaw Gruszka) [1748266]
 - [net] mac80211: Don't memset RXCB prior to PAE intercept (Stanislaw Gruszka) [1748266]
 - [wireless] iwlwifi: pcie: handle switching killer Qu B0 NICs to C0 (Stanislaw Gruszka) [1748266]

- [net] Revert "cfg80211: fix processing world regdomain when non modular" (Stanislaw Gruszka) [1748266]
- [net] mac80211: fix possible sta leak (Stanislaw Gruszka) [1748266]
- [wireless] iwlmwifi: pcie: fix recognition of QuZ devices (Stanislaw Gruszka) [1748266]
- [wireless] iwlmwifi: pcie: don't switch FW to qnj when ax201 is detected (Stanislaw Gruszka) [1748266]
- [wireless] iwlmwifi: pcie: fix the byte count table format for 22560 devices (Stanislaw Gruszka) [1748266]
- [wireless] iwlmwifi: mvm: Allow multicast data frames only when associated (Stanislaw Gruszka) [1748266]
- [netdrv] i40e: initialize ITRN registers with correct values (Stefan Assmann) [1630307]
- [net] tuntap: synchronize through tfiles array instead of tun → numqueues (Eugenio Perez) [1713616]
- [net] tuntap: fix use after free during release (Eugenio Perez) [1713616]
- [net] tun: fix use after free for ptr_array (Eugenio Perez) [1713616]
- [net] tun/tap: sanitize TUNSETSNDBUF input (Eugenio Perez) [1713616]
- [block] block: Don't merge requests if integrity flags differ (Ming Lei) [1767605]
- [block] blk-mq: insert rq with DONTPREP to hctx dispatch list when requeue (Ming Lei) [1767605]
- [x86] x86/atomic: Fix smp_mb_{before,after}_atomic() (Prarit Bhargava) [1769569]
- [netdrv] qede: fix NULL pointer deref in __qede_remove() (Manish Chopra) [1766574]
- [fs] xfs: only trace buffer items if they exist (Brian Foster) [1768722]
- [nvme] nvme: make fabrics command run on a separate request queue (David Milburn) [1769900]
- [nvme] nvme: Restart request timers in resetting state (David Milburn) [1769900]
- [nvme] nvme-rdma: fix possible use-after-free in connect timeout (David Milburn) [1769900]
- [netdrv] i40e: enable X710 support (Stefan Assmann) [1764987]
- Fri Nov 08 2019 Jan Stancek <jstancek@redhat.com> [3.10.0-1111.el7]
 - [md] md: support for queue flag QUEUE_FLAG_NO_SG_MERGE (Nigel Croxon) [1767472]
 - [net] ipv4: Return -ENETUNREACH if we can't create route but saddr is valid (Stefano Brivio) [1633140]
 - [net] ipv6: Rewind hlist offset on interrupted /proc/net/if_inet6 read (Stefano Brivio) [1753480]
 - [net] revert "[net] ipv6: Display all addresses in output of /proc/net/if_inet6" (Stefano Brivio) [1753480]
 - [net] sock: fix lockdep annotation in release_sock (Paolo Abeni) [1753150]
 - [mm] mm-vmstat-reduce-zone-lock-holding-time-by-proc-pagetypeinfo-fix (Waiman Long)

- [1757943]
- [mm] mm, vmstat: reduce zone → lock holding time by /proc/pagetypeinfo (Waiman Long) [1757943]
- [mm] mm, vmstat: hide /proc/pagetypeinfo from normal users (Waiman Long) [1757943]
- Wed Nov 06 2019 Jan Stancek <jstancek@redhat.com> [3.10.0-1110.el7]
 - [nvme] nvme-pci: Fix controller freeze wait disabling (David Milburn) [1766279]
 - [net] mac80211: fix kfree() on stack memory in ieee80211_crypto_aes_gmac_decrypt() (Stanislaw Gruszka) [1764510]
 - [md] dm rq: fix handling underlying queue busy (Ming Lei) [1767482]
- Sat Nov 02 2019 Jan Stancek <jstancek@redhat.com> [3.10.0-1109.el7]
 - [netdrv] net/mlx5e: Initialize on stack link modes bitmap (Alaa Hleihel) [1764272]
 - [netdrv] net/mlx5e: Fix ethtool self test: link speed (Alaa Hleihel) [1764272]
 - [netdrv] net/mlx5e: ethtool, Avoid setting speed to 56GBASE when autoneg off (Alaa Hleihel) [1764272]
 - [fs] xfs: end sync buffer I/O properly on shutdown error (Brian Foster) [1750602]
 - [fs] xfs: kill __xfs_buf_submit_common() (Brian Foster) [1750602]
 - [fs] xfs: combinesync buffer submission apis (Brian Foster) [1750602]
 - [fs] xfs: lobotomise xfs_trans_read_buf_map() (Brian Foster) [1750602]
 - [fs] cifs: Fix use after free of file info structures (Dave Wysochanski) [1757872]
 - [fs] vfs: Fix EOVERFLOW testing in put_compat_statfs64 (Eric Sandeen) [1758001]
 - [mm] mm, compaction: avoid isolating pinned pages (Rafael Aquini) [1344862]
 - [scsi] scsi: smartpqi: change TMF timeout from 60 to 30 seconds (Don Brace) [1709620]
 - [scsi] scsi: smartpqi: fix LUN reset when fw bkgnd thread is hung (Don Brace) [1709620]
 - [scsi] scsi: smartpqi: add inquiry timeouts (Don Brace) [1709620]
 - [scsi] scsi: smartpqi: increase LUN reset timeout (Don Brace) [1709620]
 - [firmware] x86, efi: never relocate kernel below lowest acceptable address (Kairui Song) [1732737]
 - [powerpc] powerpc: dump kernel log before carrying out fadump or kdump (Desnes Augusto Nunes do Rosario) [1750250]
 - [s390] s390/cpumfs: Check for CPU Measurement sampling (Philipp Rudo) [1765124]
 - [s390] scsi: zfcp: fix reaction on bit error threshold notification (Philipp Rudo) [1765123]
 - [mm] s390/mm: Fix swiotlb for protected virtualization (Philipp Rudo) [1765122]
- Thu Oct 31 2019 Jan Stancek <jstancek@redhat.com> [3.10.0-1108.el7]
 - [powerpc] powerpc/pseries: Remove confusing warning message (Gustavo Duarte) [1748306]
 - [powerpc] powerpc/pseries: Call H_BLOCK_REMOVE when supported (Gustavo Duarte)

- [1748306]
- [powerpc] powerpc/pseries: Read TLB Block Invalidate Characteristics (Gustavo Duarte) [1748306]
- [scsi] hpsa: update driver version (Joseph Szczypek) [1761978]
- [scsi] scsi: hpsa: add missing hunks in reset-patch (Joseph Szczypek) [1761978]
- [tty] TTY: serial_core, add → install (Kenneth Yin) [1443152]
- [scsi] scsi: core: Avoid that SCSI device removal through sysfs triggers a deadlock (Ewan Milne) [1734685]
- [fs] scsi: sysfs: Introduce sysfs_{un, }break_active_protection() (Ewan Milne) [1734685]
- Tue Oct 29 2019 Jan Stancek <jstancek@redhat.com> [3.10.0-1107.el7]
 - [x86] x86/kdump: Reserve extra memory when SME or SEV is active (Kairui Song) [1724887]
 - [block] block: fix blk_recount_segments (Ming Lei) [1762459]
 - [nvme] nvme-pci: Fix a race in controller removal (Gopal Tiwari) [1761998]
 - [char] hpet: Fix output of hpet_mmap kernel parameter (Prarit Bhargava) [1764790]
 - [tools] perf tools: Apply new CPU topology sysfs attributes (Jiri Olsa) [1640900]
 - [tools] perf header: Rename "sibling cores" to "sibling sockets" (Jiri Olsa) [1640900]
 - [tools] perf stat: Support per-die aggregation (Jiri Olsa) [1640900]
 - [tools] perf stat: Support 'percore' event qualifier (Jiri Olsa) [1640900]
 - [tools] perf stat: Factor out aggregate counts printing (Jiri Olsa) [1640900]
 - [tools] perf tools: Add a 'percore' event qualifier (Jiri Olsa) [1640900]
 - [tools] perf header: Add die information in CPU topology (Jiri Olsa) [1640900]
 - [tools] perf cpumap: Retrieve die id information (Jiri Olsa) [1640900]
 - [tools] perf tools: Use sysfs__mountpoint() when reading cpu topology (Jiri Olsa) [1640900]
 - [tools] perf tools: Add numa_topology object (Jiri Olsa) [1640900]
 - [tools] perf header: Fix wrong node write in NUMA_TOPOLOGY feature (Jiri Olsa) [1640900]
 - [tools] perf tools: Add cpu_topology object (Jiri Olsa) [1640900]
 - [tools] perf header: Remove unused 'cpu_nr' field from 'struct cpu_topo' (Jiri Olsa) [1640900]
 - [acpi] ACPI: Increase total number of possible Owner IDs (Frank Ramsay) [1756339]
 - [fs] SMB3: retry on STATUS_INSUFFICIENT_RESOURCES instead of failing write (Leif Sahlberg) [1764567]
 - [netdrv] mark the intel igc driver as tech preview (David Arcari) [1721615]
 - [netdrv] igc: Clean up unused shadow_vfta pointer (David Arcari) [1721615]
 - [netdrv] igc: Add Rx checksum support (David Arcari) [1721615]
 - [netdrv] igc: Add set_rx_mode support (David Arcari) [1721615]
 - [netdrv] igc: Add SCTP CRC checksumming functionality (David Arcari) [1721615]

- [netdrv] igc: Add tx_csum offload functionality (David Arcari) [1721615]
- [netdrv] igc: Remove unneeded PCI bus defines (David Arcari) [1721615]
- [netdrv] igc: Add NVM checksum validation (David Arcari) [1721615]
- [netdrv] igc: Remove useless forward declaration (David Arcari) [1721615]
- [netdrv] ethernet: Delete unnecessary checks before the macro call "dev_kfree_skb" (David Arcari) [1721615]
- [netdrv] igc: Add more SKUs for i225 device (David Arcari) [1721615]
- [netdrv] igc: Update the MAC reset flow (David Arcari) [1721615]
- [netdrv] igc: Remove the unused field from a device specification structure (David Arcari) [1721615]
- [netdrv] igc: Remove the polarity field from a PHY information structure (David Arcari) [1721615]
- [netdrv] igc: Prefer pcie_capability_read_word() (David Arcari) [1721615]
- [netdrv] igc: Cleanup the redundant code (David Arcari) [1721615]
- [netdrv] igc: Add flow control support (David Arcari) [1721615]
- [netdrv] igc: Remove the obsolete workaround (David Arcari) [1721615]
- [netdrv] igc: Clean up unused pointers (David Arcari) [1721615]
- [netdrv] igc: Fix double definitions (David Arcari) [1721615]
- [netdrv] igb/igc: warn when fatal read failure happens (David Arcari) [1721615]
- [netdrv] Revert "mark the intel igc driver as tech preview" (David Arcari) [1721615]
- [md] dm: Use kzalloc for all structs with embedded biosets/mempools (Mike Snitzer) [1766389]
- Fri Oct 25 2019 Jan Stancek <jstancek@redhat.com> [3.10.0-1106.el7]
 - [net] sysfs: Fix mem leak in netdev_register_kobject (Stefano Brivio) [1752690] {CVE-2019-15916}
 - [fs] revert "[fs] cifs: use cifsInodeInfo → open_file_lock while iterating to avoid a panic (Dave Wysochanski) [1757872]
 - [fs] revert "[fs] cifs: add spinlock for the openFileList to cifsInodeInfo (Dave Wysochanski) [1757872]
 - [fs] revert "[fs] cifs: add more spinlocks to protect against races" (Dave Wysochanski) [1757872]
 - [fs] fix inode leaks on d_splice_alias() failure exits (Miklos Szeredi) [1749390]
 - [mm] percpu: remove spurious lock dependency between percpu and sched (Vladis Dronov) [1744633]
 - [mm] percpu: stop printing kernel addresses (Vladis Dronov) [1744633]
 - [mm] percpu: use chunk scan_hint to skip some scanning (Vladis Dronov) [1744633]

- [mm] percpu: convert chunk hints to be based on pcpu_block_md (Vladis Dronov) [1744633]
- [mm] percpu: make pcpu_block_md generic (Vladis Dronov) [1744633]
- [mm] percpu: use block scan_hint to only scan forward (Vladis Dronov) [1744633]
- [mm] percpu: remember largest area skipped during allocation (Vladis Dronov) [1744633]
- [mm] percpu: add block level scan_hint (Vladis Dronov) [1744633]
- [mm] percpu: set PCPU_BITMAP_BLOCK_SIZE to PAGE_SIZE (Vladis Dronov) [1744633]
- [mm] percpu: relegate chunks unusable when failing small allocations (Vladis Dronov) [1744633]
- [mm] percpu: manage chunks based on contig_bits instead of free_bytes (Vladis Dronov) [1744633]
- [mm] percpu: introduce helper to determine if two regions overlap (Vladis Dronov) [1744633]
- [mm] percpu: do not search past bitmap when allocating an area (Vladis Dronov) [1744633]
- [mm] percpu: update free path with correct new free region (Vladis Dronov) [1744633]
- [mm] mm/percpu: add checks for the return value of memblock_alloc*() (Vladis Dronov) [1744633]
- [mm] percpu: km: no need to consider pcpu_group_offsets (Vladis Dronov) [1744633]
- [mm] percpu: use nr_groups as check condition (Vladis Dronov) [1744633]
- [mm] percpu: stop leaking bitmap metadata blocks (Vladis Dronov) [1744633]
- [fs] /proc/meminfo: add percpu populated pages count (Vladis Dronov) [1744633]
- [mm] mm: Allow to kill tasks doing pcpu_alloc() and waiting for pcpu_balance_workfn() (Vladis Dronov) [1744633]
- [mm] percpu: include linux/sched.h for cond_resched() (Vladis Dronov) [1744633]
- [mm] percpu: add a schedule point in pcpu_balance_workfn() (Vladis Dronov) [1744633]
- [mm] percpu: fix iteration to prevent skipping over block (Vladis Dronov) [1744633]
- [mm] percpu: fix starting offset for chunk statistics traversal (Vladis Dronov) [1744633]
- [mm] percpu: update header to contain bitmap allocator explanation (Vladis Dronov) [1744633]
- [mm] percpu: update pcpu_find_block_fit to use an iterator (Vladis Dronov) [1744633]
- [mm] percpu: use metadata blocks to update the chunk contig hint (Vladis Dronov) [1744633]
- [mm] percpu: update free path to take advantage of contig hints (Vladis Dronov) [1744633]
- [mm] percpu: update alloc path to only scan if contig hints are broken (Vladis Dronov) [1744633]
- [mm] percpu: keep track of the best offset for contig hints (Vladis Dronov) [1744633]
- [mm] percpu: skip chunks if the alloc does not fit in the contig hint (Vladis Dronov)

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- [mm] percpu: add first_bit to keep track of the first free in the bitmap (Vladis Dronov) [1744633]
- [mm] percpu: introduce bitmap metadata blocks (Vladis Dronov) [1744633]
- [mm] percpu: replace area map allocator with bitmap (Vladis Dronov) [1744633]
- [mm] percpu: generalize bitmap (un)populated iterators (Vladis Dronov) [1744633]
- [mm] percpu: increase minimum percpu allocation size and align first regions (Vladis Dronov) [1744633]
- [mm] percpu: introduce nr_empty_pop_pages to help empty page accounting (Vladis Dronov) [1744633]
- [mm] percpu: change the number of pages marked in the first_chunk pop bitmap (Vladis Dronov) [1744633]
- [mm] percpu: combine percpu address checks (Vladis Dronov) [1744633]
- [mm] percpu: modify base_addr to be region specific (Vladis Dronov) [1744633]
- [mm] percpu: setup_first_chunk rename schunk/dchunk to chunk (Vladis Dronov) [1744633]
- [mm] percpu: end chunk area maps page aligned for the populated bitmap (Vladis Dronov) [1744633]
- [mm] percpu: unify allocation of schunk and dchunk (Vladis Dronov) [1744633]
- [mm] percpu: setup_first_chunk remove dyn_size and consolidate logic (Vladis Dronov) [1744633]
- [mm] percpu: remove has_reserved from pcpu_chunk (Vladis Dronov) [1744633]
- [mm] percpu: introduce start_offset to pcpu_chunk (Vladis Dronov) [1744633]
- [mm] percpu: setup_first_chunk enforce dynamic region must exist (Vladis Dronov) [1744633]
- [mm] percpu: update the header comment and pcpu_build_alloc_info comments (Vladis Dronov) [1744633]
- [mm] percpu: expose pcpu_nr_empty_pop_pages in pcpu_stats (Vladis Dronov) [1744633]
- [mm] percpu: change the format for percpu_stats output (Vladis Dronov) [1744633]
- [mm] percpu: pcpu-stats change void buffer to int buffer (Vladis Dronov) [1744633]
- [mm] percpu: fix static checker warnings in pcpu_destroy_chunk (Vladis Dronov) [1744633]
- [mm] percpu: fix early calls for spinlock in pcpu_stats (Vladis Dronov) [1744633]
- [mm] percpu: resolve err may not be initialized in pcpu_alloc (Vladis Dronov) [1744633]
- [mm] percpu: add tracepoint support for percpu memory (Vladis Dronov) [1744633]
- [mm] percpu: expose statistics about percpu memory via debugfs (Vladis Dronov) [1744633]
- [mm] percpu: migrate percpu data structures to internal header (Vladis Dronov) [1744633]
- [mm] percpu: add missing lockdep_assert_held to func pcpu_free_area (Vladis Dronov)

- [1744633]
- [mm] percpu: ensure the requested alignment is power of two (Vladis Dronov) [1744633]
- [mm] tree wide: use kvfree() than conditional kfree()/vfree() (Vladis Dronov) [1744633]
- [mm] mm/percpu: use offset_in_page macro (Vladis Dronov) [1744633]
- [mm] percpu: clean up of schunk→mapassignment in pcpu_setup_first_chunk (Vladis Dronov) [1744633]
- [mm] mm/percpu.c: fix panic triggered by BUG_ON() falsely (Vladis Dronov) [1744633]
- [mm] mm/percpu.c: fix potential memory leakage for pcpu_embed_first_chunk() (Vladis Dronov) [1744633]
- [mm] mm/percpu.c: correct max_distance calculation for pcpu_embed_first_chunk() (Vladis Dronov) [1744633]
- [mm] mm: percpu: use pr_fmt to prefix output (Vladis Dronov) [1744633]
- [mm] mm: convert printk(KERN_<LEVEL> to pr_<level> (Vladis Dronov) [1744633]
- [mm] mm: coalesce split strings (Vladis Dronov) [1744633]
- [mm] mm: convert pr_warning to pr_warn (Vladis Dronov) [1744633]
- [mm] percpu: use *pbto to print bitmaps including cpumasks and nodemasks (Vladis Dronov) [1744633]
- [mm] percpu: off by one in BUG_ON() (Vladis Dronov) [1744633]
- [mm] mm/percpu.c: use memblock apis for early memory allocations (Vladis Dronov) [1744633]
- [mm] percpu: use VMALLOC_TOTAL instead of VMALLOC_END - VMALLOC_START (Vladis Dronov) [1744633]
- [mm] percpu: fix bootmem error handling in pcpu_page_first_chunk() (Vladis Dronov) [1744633]
- Tue Oct 22 2019 Jan Stancek <jstancek@redhat.com> [3.10.0-1105.el7]
 - [nvme] nvme: Treat discovery subsystems as unique subsystems (Ewan Milne) [1731579]
 - [scsi] scsi: core: Log SCSI command age with errors (Ewan Milne) [1751716]
 - [security] selinux: fix context string corruption in convert_context() (Ondrej Mosnacek) [1759803]
 - [usb] xhci: Prevent deadlock when xhci adapter breaks during init (Torez Smith) [1710090]
 - [scsi] scsi: core: add new RDAC LENOVO/DE_Series device (Ewan Milne) [1699439]
 - [wireless] Correct strange error in Makefiles for building modules in separate directories (Neil Horman) [1753927]
 - [md] dm snapshot: rework COW throttling to fix deadlock (Mike Snitzer) [1758603]
 - [md] dm snapshot: introduce account_start_copy() and account_end_copy() (Mike Snitzer) [1758603]
 - [drm] i915: Stop reconfiguring our shmemfs mountpoint (Vladis Dronov) [1759980]

- [kernel] perf/core: Fix perf_event_open() vs. execve() race (Jiri Olsa) [1701620] {CVE-2019-3901}
- Thu Oct 17 2019 Jan Stancek <jstancek@redhat.com> [3.10.0-1104.el7]
 - [md] raid5: don't set STRIPE_HANDLE to stripe which is in batch list (Nigel Croxon) [1631765 1750287]
 - [kernel] alarmtimer: Use EOPNOTSUPP instead of ENOTSUPP (Vladis Dronov) [1760639]
 - [kernel] alarmtimer: Remove unused but set variable (Vladis Dronov) [1760639]
 - [x86] efi/x86: do not clean dummy variable in kexec path (Bhupesh Sharma) [1707669]
 - [cpuidle] cpuidle-haltpoll: return -ENODEV on modinit failure (Marcelo Tosatti) [1756843]
 - [x86] perf/x86/amd: Change/fix NMI latency mitigation to use a timestamp (David Arcari) [1730884]
 - [infiniband] RDMA/bnxt_re: Fix stack-out-of-bounds in bnxt_qplib_rcfw_send_message (Selvin Xavier) [1629037]
 - [infiniband] RDMA/bnxt_re: Increase depth of control path command queue (Selvin Xavier) [1629037]
 - [x86] x86/efi/pti: In __load_cr3(), EFI PGD has no shadow (Lenny Szubowicz) [1750767]
 - [char] hpet: Fix missing '=' character in the __setup() code of hpet_mmap_enable (Prarit Bhargava) [1660800]
- Mon Oct 14 2019 Jan Stancek <jstancek@redhat.com> [3.10.0-1103.el7]
 - [fs] xfs: fix missing ILOCK unlock when xfs_setattr_nonsize fails due to EDQUOT (Bill O'Donnell) [1751468]
 - [fs] xfs: Fix deadlock between AGI and AGF with RENAME_WHITEOUT (Brian Foster) [1759117]
 - [fs] binfmt_elf: switch to new creds when switching to new mm (Vladis Dronov) [1700360] {CVE-2019-11190}
 - [fs] revert "[fs] nfsd: Implement the COPY call" ("J. Bruce Fields") [1688067]
 - [fs] fs: do not fall back to splice in copy_file_range ("J. Bruce Fields") [1688067]
 - [fs] proc/sysctl: don't return ENOMEM on lookup when a table is unregistering (Carlos Maiolino) [1752099]
 - [fs] proc: Fix proc_sys_prune_dcache to hold a sb reference (Carlos Maiolino) [1752099]
 - [fs] proc/sysctl: Don't grab i_lock under sysctl_lock. (Carlos Maiolino) [1752099]
 - [fs] proc/sysctl: prune stale dentries during unregistering (Carlos Maiolino) [1752099]
 - [kvm] kvm: x86: always expose VIRT_SSBD to guests (Eduardo Habkost) [1744281]
 - [kvm] kvm: x86: fix reporting of AMD speculation bug CPUID leaf (Eduardo Habkost) [1744281]
 - [md] dm crypt: don't decrease device limits (Mike Snitzer) [1656103]
 - [netdrv] cxgb4: RHEL-only disable device dump (Jonathan Toppins) [1708513]

- [s390] s390/cmf: set_schib_wait add timeout (Philipp Rudo) [1759508]
- [s390] s390: add support for IBM z15 machines (Philipp Rudo) [1758627]
- [tools] perf callchain: Honour the ordering of PERF_CONTEXT_{USER, KERNEL, etc} (Michael Petlan) [1758046]
- [tools] perf callchain: Stop validating callchains by the max_stack sysctl (Michael Petlan) [1758046]
- [tools] perf tools: Separate accounting of contexts and real addresses in a stack trace (Michael Petlan) [1758046]
- [netdrv] net/ibmvnic: prevent more than one thread from running in reset (Steve Best) [1759809]
- [netdrv] net/ibmvnic: unlock rtnl_lock in reset so linkwatch_event can run (Steve Best) [1759809]
- [netdrv] ibmvnic: Warn unknown speed message only when carrier is present (Steve Best) [1759809]
- Fri Oct 11 2019 Jan Stancek <jstancek@redhat.com> [3.10.0-1102.el7]
 - [netdrv] net/mlx5e: Fix number of vports for ingress ACL configuration (Alaa Hleihel) [1758857]
 - [netdrv] net/mlx5: E-Switch, Split VF and special vports for offloads mode (Alaa Hleihel) [1758857]
 - [rtc] rtc: opal: Fix OPAL RTC driver OPAL_BUSY loops (Alexey Klimov) [1752968]
 - [powerpc] powerpc/powernv: define a standard delay for OPAL_BUSY type retry loops (Alexey Klimov) [1752968]
 - [rtc] rtc-opal: Fix handling of firmware error codes, prevent busy loops (Alexey Klimov) [1752968]
 - [powerpc] powerpc/powernv: Only delay opal_rtc_read() retry when necessary (Alexey Klimov) [1752968]
 - [scsi] lpfc: Fix wrong lockdep assertion (Dick Kennedy) [1752570]
 - [netdrv] iavf: fix MAC address setting for VFs when filter is rejected (Stefan Assmann) [1698052]
 - [netdrv] iavf: allow permanent MAC address to change (Stefan Assmann) [1698052]
 - [x86] x86/stacktrace: Prevent access_ok() warnings in arch_stack_walk_user() (Jerome Marchand) [1757641]
 - [netdrv] i40e: clear __I40E_VIRTCHNL_OP_PENDING on invalid min Tx rate (Stefan Assmann) [1746636]
 - [kernel] timer: don't let base → timer_jiffies go backwards (Jan Stancek) [1752885]
- Sat Oct 05 2019 Jan Stancek <jstancek@redhat.com> [3.10.0-1101.el7]
 - [tools] tools/power turbostat: fix buffer overrun (Prarit Bhargava) [1710537]
 - [tools] perf top: Fix global-buffer-overflow issue (Michael Petlan) [1757325]

- [tools] perf top: Always sample time to satisfy needs of use of ordered queuing (Michael Petlan) [1757325]
- [infiniband] IB/mad: Fix use-after-free in ib mad completion handling (Kamal Heib) [1748453]
- [nvme] nvme: introduce NVME_QUIRK_IGNORE_DEV_SUBNQN (David Milburn) [1754940]
- [netdrv] i40e: Add support for X710 device (Stefan Assmann) [1711843]
- [watchdog] watchdog: iTCO: Add support for Cannon Lake PCH iTCO (Alexander Beregalov) [1711811]
- [i2c] i2c: i801: Use iTCO version 6 in Cannon Lake PCH and beyond (Alexander Beregalov) [1711811]
- [i2c] i2c: i801: Restore the presence state of P2SB PCI device after reading BAR (Alexander Beregalov) [1711811]
- [tools] perf header: Assign proper ff→ph in perf_event__synthesize_features() (Michael Petlan) [1705531]
- [kernel] sched/fair: Fix low cpu usage with high throttling by removing expiration of cpu-local slices (Phil Auld) [1752136]
- [pci] PCI: hv: Avoid use of hv_pci_dev→pci_slot after freeing it (Mohammed Gamal) [1737567]
- [pci] hv: Use bytes 4 and 5 from instance ID as the PCI domain numbers (Mohammed Gamal) [1634251]
- [pci] hv: Detect and fix Hyper-V PCI domain number collision (Mohammed Gamal) [1634251]
- [pci] hv: Serialize the present and eject work items (Mohammed Gamal) [1634251]
- [scsi] scsi: qla2xxx: Use correct size in call to dma_free_coherent() in qla2400_sp_unmap() (Himanshu Madhani) [1668767]
- [kernel] kernel/panic.c: Fix TAINТ_UNSAFE_SMP comment (Prarit Bhargava) [1731549]
- Tue Oct 01 2019 Jan Stancek <jstancek@redhat.com> [3.10.0-1100.el7]
 - [virt] KVM: coalesced_mmio: add bounds checking (Bandan Das) [1746798] {CVE-2019-14821}
 - [iommu] iommu/amd: Flush old domains in kdump kernel (Jerry Snitselaar) [1738735]
 - [iommu] Revert "iommu/amd: Suppress IO_PAGE_FAULTs in kdump kernel" (Jerry Snitselaar) [1738735]
 - [tools] perf script: Fix crash with printing mixed trace point and other events (Michael Petlan) [1741743]
 - [kvm] kvm/x86: Move MSR_IA32_ARCH_CAPABILITIES to array emulated_msrs (Paul Lai) [1708465]
 - [kvm] kvm: x86: Emulate MSR_IA32_ARCH_CAPABILITIES on AMD hosts (Paul Lai) [1708465]
 - [kvm] kvm: vmx: Tell the nested hypervisor to skip L1D flush on vmentry (Paul Lai) [1708465]

- [kvm] kvm: vmx: support MSR_IA32_ARCH_CAPABILITIES as a feature MSR (Paul Lai) [1708465]
- [kvm] kvm: x86: Introduce kvm_get_msr_feature() (Paul Lai) [1708465]
- [kvm] kvm: x86: Add a framework for supporting MSR-based features (Paul Lai) [1708465]
- [hv] hv: vmbus: Offload the handling of channels to two workqueues (Mohammed Gamal) [1747352]
- [hv] hv: vmbus: Use cpumask_var_t for on-stack cpu mask (Mohammed Gamal) [1747352]
- [hv] hv: vmbus: Fix the offer_in_progress in vmbus_process_offer() (Mohammed Gamal) [1747352]
- [drm] drm/nouveau/kms/nv50-: Don't create MSTMs for eDP connectors (Lyude Paul) [1728383]
- [x86] x86/acpi: Prevent LAPIC id 0xff from being accounted (David Arcari) [1755008]
- [x86] perf/x86/intel: Fix spurious NMI on fixed counter (Michael Petlan) [1755134]
- [x86] perf/x86/intel: Fix race in intel_pmu_disable_event() (Michael Petlan) [1755134]