pi2-buster-armhf Documentation

Release 2020-04-21-1859

The edi-pi Project Team

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CHAPTER

ONE

SETUP

Component	Setup
Ansible	2.5.1
Configuration	pi2-buster-armhf
edi	1.5.1.dev34+g98d7a9c
Project SCM revision	062b5541843adf65eb0934b3267af86cc8191f42

2 Chapter 1. Setup

CHAPTER

TWO

VERSIONS

Package	Version
adduser	3.118
apt	1.8.2
base-files	10.3+deb10u3
base-passwd	3.5.46
bash	5.0-4
bsdutils	1:2.33.1-0.1
ca-certificates	20190110
coreutils	8.30-3
cpio	2.12+dfsg-9
dash	0.5.10.2-5
dbus	1.12.16-1
debconf	1.5.71
debian-archive-keyring	2019.1
debianutils	4.8.6.1
diffutils	1:3.7-3
dirmngr	2.2.12-1+deb10u1
distro-info-data	0.41+deb10u1
dmsetup	2:1.02.155-3
dosfstools	4.1-2
dpkg	1.19.7
dumb-init	1.2.2-1.1
e2fsprogs	1.44.5-1+deb10u3
edi-boot-shim	0.8.0+deb10
fdisk	2.33.1-0.1
findutils	4.6.0+git+20190209-2
firmware-brcm80211	1:20190114-1+rpt4
gcc-8-base	8.3.0-6
gnupg	2.2.12-1+deb10u1
gnupg-110n	2.2.12-1+deb10u1
gnupg-utils	2.2.12-1+deb10u1
gpg	2.2.12-1+deb10u1
gpg-agent	2.2.12-1+deb10u1
gpg-wks-client	2.2.12-1+deb10u1
gpg-wks-server	2.2.12-1+deb10u1
gpgconf	2.2.12-1+deb10u1
gpgsm	2.2.12-1+deb10u1
gpgv	2.2.12-1+deb10u1

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Table 2.1 – continued from previous page		
Package	Version	
grep	3.3-1	
gzip	1.9-3	
haveged	1.9.1-7	
hostname	3.21	
ifupdown	0.8.35	
init-system-helpers	1.56+nmu1	
initramfs-tools	0.133+deb10u1	
initramfs-tools-core	0.133+deb10u1	
iproute2	4.20.0-2	
iputils-ping	3:20180629-2	
isc-dhcp-client	4.4.1-2	
iso-codes	4.2-1	
klibc-utils	2.0.6-1	
kmod	26-1	
libacl1	2.2.53-4	
libapparmor1	2.13.2-10	
libapt-inst2.0	1.8.2	
libapt-pkg5.0	1.8.2	
libargon2-1	0~20171227-0.2	
libassuan0	2.5.2-1	
libattr1	1:2.4.48-4	
libaudit-common	1:2.8.4-3	
libaudit1	1:2.8.4-3	
libblkid1	2.33.1-0.1	
libbsd0	0.9.1-2	
libbz2-1.0	1.0.6-9.2~deb10u1	
libc-bin	2.28-10	
libc6	2.28-10	
libcap-ng0	0.7.9-2	
libcap2	1:2,25-2	
libcap2-bin	1:2.25-2	
libcom-err2	1.44.5-1+deb10u3	
libcryptsetup12	2:2.1.0-5+deb10u2	
libdb5.3	5.3.28+dfsg1-0.5	
libdbus-1-3	1.12.16-1	
libdebconfclient0	0.249	
libdevmapper1.02.1	2:1.02.155-3	
libdns-export1104	1:9.11.5.P4+dfsg-5.1	
libedit2	3.1-20181209-1	
libelf1	0.176-1.1	
libexpat1	2.2.6-2+deb10u1	
libext2fs2	1.44.5-1+deb10u3	
libfdisk1	2.33.1-0.1	
libffi6	3.2.1-9	
libgcc1	1:8.3.0-6	
libgcrypt20	1.8.4-5	
libgmp10	2:6.1.2+dfsg-4	
libgnutls30	3.6.7-4+deb10u3	
libgpg-error0	1.35-1	
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Table 2.1 – continued from previous page		
Package	Version	
libgssapi-krb5-2	1.17-3	
libhavege1	1.9.1-7	
libhogweed4	3.4.1-1	
libidn11	1.33-2.2	
libidn2-0	2.0.5-1+deb10u1	
libip4tc0	1.8.2-4	
libisc-export1100	1:9.11.5.P4+dfsg-5.1	
libiw30	30~pre9-13	
libjson-c3	0.12.1+ds-2	
libk5crypto3	1.17-3	
libkeyutils1	1.6-6	
libklibc	2.0.6-1	
libkmod2	26-1	
libkrb5-3	1.17-3	
libkrb5support0	1.17-3	
libksba8	1.3.5-2	
libldap-2.4-2	2.4.47+dfsg-3+deb10u1	
libldap-common	2.4.47+dfsg-3+deb10u1	
liblz4-1	1.8.3-1	
liblzma5	5.2.4-1	
libmnl0	1.0.4-2	
libmount1	2.33.1-0.1	
libmpdec2	2.4.2-2	
libncurses6	6.1+20181013-2+deb10u2	
libncursesw6	6.1+20181013-2+deb10u2	
libnettle6	3.4.1-1	
libnl-3-200	3.4.0-1	
libnl-genl-3-200	3.4.0-1	
libnl-route-3-200	3.4.0-1	
libnpth0	1.6-1	
libp11-kit0	0.23.15-2	
libpam-modules	1.3.1-5	
libpam-modules-bin	1.3.1-5	
libpam-runtime	1.3.1-5	
libpam0g	1.3.1-5	
libparted2	3.2-25	
libpcre3	2:8.39-12	
libpcsclite1	1.8.24-1	
libprocps7	2:3.3.15-2	
libpython3-stdlib	3.7.3-1	
libpython3.7-minimal	3.7.3-2+deb10u1	
libpython3.7-stdlib	3.7.3-2+deb10u1	
libreadline7	7.0-5	
libsasl2-2	2.1.27+dfsg-1+deb10u1	
libsasl2-modules-db	2.1.27+dfsg-1+deb10u1	
libseccomp2	2.3.3-4	
libselinux1	2.8-1+b1	
libsemanage-common	2.8-2	
libsemanage1	2.8-2	
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Table 2.1 – continued from previous page		
Package	Version	
libsepol1	2.8-1	
libsmartcols1	2.33.1-0.1	
libsqlite3-0	3.27.2-3	
libss2	1.44.5-1+deb10u3	
libssl1.1	1.1.1d-0+deb10u2	
libstdc++6	8.3.0-6	
libsystemd0	241-7~deb10u3	
libtasn1-6	4.13-3	
libtinfo6	6.1+20181013-2+deb10u2	
libudev1	241-7~deb10u3	
libunistring2	0.9.10-1	
libuuid1	2.33.1-0.1	
libwrap0	7.6.q-28	
libxtables12	1.8.2-4	
libzstd1	1.3.8+dfsg-3	
linux-base	4.6	
linux-image-4.19.0-8-armmp-lpae	4.19.98-1	
linux-image-armmp-lpae	4.19+105+deb10u3	
login	1:4.5-1.1	
lsb-base	10.2019051400	
lsb-release	10.2019051400	
mawk	1.3.3-17+b3	
mender-client	1.7.0-4+b12	
mime-support	3.62	
mount	2.33.1-0.1	
ncurses-base	6.1+20181013-2+deb10u2	
ncurses-bin	6.1+20181013-2+deb10u2	
net-tools	1.60+git20180626.aebd88e-1	
netbase	5.6	
openssh-client	1:7.9p1-10+deb10u2	
openssh-server	1:7.9p1-10+deb10u2	
openssh-sftp-server	1:7.9p1-10+deb10u2	
openssl	1.1.1d-0+deb10u2	
parted	3.2-25	
passwd	1:4.5-1.1	
perl-base	5.28.1-6	
pinentry-curses	1.1.0-2	
procps	2:3.3.15-2	
python-apt-common	1.8.4.1	
python3	3.7.3-1	
python3-apt	1.8.4.1	
python3-minimal	3.7.3-1	
python3.7	3.7.3-2+deb10u1	
python3.7-minimal	3.7.3-2+deb10u1	
readline-common	7.0-5	
resolvconf	1.79	
sed	4.7-1	
sensible-utils	0.0.12	
sudo	1.8.27-1+deb10u2	
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Package	Version
systemd	241-7~deb10u3
systemd-sysv	241-7~deb10u3
sysvinit-utils	2.93-8
tar	1.30+dfsg-6
tzdata	2019c-0+deb10u1
u-boot-tools	2019.01+dfsg-7
ucf	3.0038+nmu1
udev	241-7~deb10u3
util-linux	2.33.1-0.1
wireless-tools	30~pre9-13
wpasupplicant	2:2.7+git20190128+0c1e29f-6+deb10u1
zlib1g	1:1.2.11.dfsg-1

8 Chapter 2. Versions

CHAPTER

THREE

CHANGELOG

3.1 base-files

3.1.1 10.3+deb10u3 - 01. February 2020

• Change /etc/debian_version to 10.3, for Debian 10.3 point release.

3.2 e2fsprogs

3.2.1 1.44.5-1+deb10u3 - 09. January 2020

- Fix CVE-2019-5188: potential stack underflow in e2fsck (Closes: #948508)
- Fix use after free in e2fsck (Closes: #948517)

3.3 libcom-err2

3.3.1 1.44.5-1+deb10u3 - 09. January 2020

- Fix CVE-2019-5188: potential stack underflow in e2fsck (Closes: #948508)
- Fix use after free in e2fsck (Closes: #948517)

3.4 libext2fs2

3.4.1 1.44.5-1+deb10u3 - 09. January 2020

- Fix CVE-2019-5188: potential stack underflow in e2fsck (Closes: #948508)
- Fix use after free in e2fsck (Closes: #948517)

3.5 libgnutls30

3.5.1 3.6.7-4+deb10u3 - 03. April 2020

- Non-maintainer upload by the Security Team.
- GNUTLS-SA-2020-03-31: dtls client hello: fix zeroed random (CVE-2020-11501) Fix a DTLS-protocol regression (caused by TLS1.3 support), since 3.6.3. The DTLS client would not contribute any randomness to the DTLS negotiation, breaking the security guarantees of the DTLS protocol. (Closes: #955556)

3.5.2 3.6.7-4+deb10u2 - 19. January 2020

• Fix parsing of certificates using RegisteredID Closes: #949293

3.6 libidn2-0

3.6.1 2.0.5-1+deb10u1 - 30. January 2020

- Non-maintainer upload by the Security Team.
- Fix free of random (stack) value in idn2_to_ascii_4i()
- idn2_to_ascii_4i(): Restrict output length to 63 (CVE-2019-18224) (Closes: #942895)
- Fail make if 'ronn' doesn't exist when building docs
- Fix generation of idn2.1 man page file
- Move texinfo from Build-Depends-Indep to Build-Depends (Closes: #949705)

3.7 libpython3.7-minimal

3.7.1 3.7.3-2+deb10u1 - 20. December 2019

- CVE-2019-9740
- CVE-2019-9947
- CVE-2019-9948
- CVE-2019-10160
- CVE-2019-16056
- CVE-2019-16935

3.8 libpython3.7-stdlib

3.8.1 3.7.3-2+deb10u1 - 20. December 2019

• CVE-2019-9740

- CVE-2019-9947
- CVE-2019-9948
- CVE-2019-10160
- CVE-2019-16056
- CVE-2019-16935

3.9 libsasl2-2

3.9.1 2.1.27+dfsg-1+deb10u1 - 19. December 2019

- Non-maintainer upload by the Security Team.
- Off-by-one in _sasl_add_string function (CVE-2019-19906) (Closes: #947043)

3.10 libsasl2-modules-db

3.10.1 2.1.27+dfsg-1+deb10u1 - 19. December 2019

- Non-maintainer upload by the Security Team.
- Off-by-one in _sasl_add_string function (CVE-2019-19906) (Closes: #947043)

3.11 libss2

3.11.1 1.44.5-1+deb10u3 - 09. January 2020

- Fix CVE-2019-5188: potential stack underflow in e2fsck (Closes: #948508)
- Fix use after free in e2fsck (Closes: #948517)

3.12 libsystemd0

3.12.1 241-7~deb10u3 - 29. January 2020

- core: set fs.file-max sysctl to LONG_MAX rather than ULONG_MAX. Since kernel 5.2 (but also stable kernels like 4.19.53) the kernel thankfully returns proper errors when we write a value out of range to the sysctl. Which however breaks writing ULONG_MAX to request the maximum value. Hence let's write the new maximum value instead, LONG_MAX. (Closes: #945018)
- core: change ownership/mode of the execution directories also for static users. This ensures that execution directories like CacheDirectory and StateDirectory are properly chowned to the user specified in User= before launching the service. (Closes: #919231)

3.9. libsasl2-2

3.13 libudev1

3.13.1 241-7~deb10u3 - 29. January 2020

- core: set fs.file-max sysctl to LONG_MAX rather than ULONG_MAX. Since kernel 5.2 (but also stable kernels like 4.19.53) the kernel thankfully returns proper errors when we write a value out of range to the sysctl. Which however breaks writing ULONG_MAX to request the maximum value. Hence let's write the new maximum value instead, LONG_MAX. (Closes: #945018)
- core: change ownership/mode of the execution directories also for static users. This ensures that execution directories like CacheDirectory and StateDirectory are properly chowned to the user specified in User= before launching the service. (Closes: #919231)

3.14 linux-image-4.19.0-8-armmp-lpae

3.14.1 4.19.98-1 - 26. January 2020

- New upstream stable update: https://www.kernel.org/pub/linux/kernel/v4.x/ChangeLog-4.19.88
 - [arm64] clk: meson: gxbb: let sar_adc_clk_div set the parent clock rate
 - ASoC: compress: fix unsigned integer overflow check
 - reset: Fix memory leak in reset_control_array_put()
 - [armhf] clk: samsung: exynos5433: Fix error paths
 - [armel/marvell,armhf] ASoC: kirkwood: fix external clock probe defer
 - [armel/marvell,armhf] ASoC: kirkwood: fix device remove ordering
 - [armhf] clk: samsung: exynos5420: Preserve PLL configuration during suspend/resume
 - [x86] pinctrl: cherryview: Allocate IRQ chip dynamic
 - [armhf] dts: imx6qdl-sabreauto: Fix storm of accelerometer interrupts
 - reset: fix reset_control_ops kerneldoc comment
 - [armhf,arm64] clk: sunxi: Fix operator precedence in sunxi_divs_clk_setup
 - [armhf] clk: sunxi-ng: a80: fix the zero'ing of bits 16 and 18
 - [armhf] dts: sun8i-a83t-tbs-a711: Fix WiFi resume from suspend
 - [ppc64el] bpf: Fix tail call implementation
 - idr: Fix integer overflow in idr_for_each_entry
 - idr: Fix idr_alloc_u32 on 32-bit systems
 - [x86] resctrl: Prevent NULL pointer dereference when reading mondata
 - [armhf] clk: ti: dra7-atl-clock: Remove ti_clk_add_alias call
 - [armhf] clk: ti: clkctrl: Fix failed to enable error with double udelay timeout
 - bridge: ebtables: don't crash when using dnat target in output chains
 - can: peak_usb: report bus recovery as well
 - can: rx-offload: can_rx_offload_queue_tail(): fix error handling, avoid skb mem leak

- can: rx-offload: can_rx_offload_offload_one(): do not increase the skb_queue beyond skb_queue_len_max
- can: rx-offload: can_rx_offload_offload_one(): increment rx_fifo_errors on queue overflow or OOM
- can: rx-offload: can_rx_offload_offload_one(): use ERR_PTR() to propagate error value in case of errors
- can: rx-offload: can_rx_offload_irq_offload_timestamp(): continue on error
- can: rx-offload: can rx offload irq offload fifo(): continue on error
- [armhf] can: flexcan: increase error counters if skb enqueueing via can_rx_offload_queue_sorted() fails
- [arm64] watchdog: meson: Fix the wrong value of left time
- ceph: return -EINVAL if given fsc mount option on kernel w/o support
- net/fq_impl: Switch to kvmalloc() for memory allocation
- mac80211: fix station inactive_time shortly after boot
- block: drbd: remove a stray unlock in __drbd_send_protocol()
- scsi: target/tcmu: Fix queue_cmd_ring() declaration
- scsi: lpfc: Fix kernel Oops due to null pring pointers
- scsi: lpfc: Fix dif and first burst use in write commands
- tracing: Lock event_mutex before synth_event_mutex
- [armhf] dts: imx*: Fix memory node duplication
- [armhf] dts: Fix hsi gdd range for omap4
- [arm64] mm: Prevent mismatched 52-bit VA support
- [arm64] smp: Handle errors reported by the firmware
- [armhf] bus: ti-sysc: Check for no-reset and no-idle flags at the child level
- [arm64] RDMA/hns: Fix the bug while use multi-hop of pbl
- [x86] RDMA/vmw_pvrdma: Use atomic memory allocation in create AH
- [armhf] PM / AVS: SmartReflex: NULL check before some freeing functions is not needed
- xfs: zero length symlinks are not valid
- ACPI / LPSS: Ignore acpi_device_fix_up_power() return value
- scsi: lpfc: Enable Management features for IF_TYPE=6
- scsi: qla2xxx: Fix NPIV handling for FC-NVMe
- scsi: qla2xxx: Fix for FC-NVMe discovery for NPIV port
- nvme: provide fallback for discard alloc failure
- [s390x] zcrypt: make sysfs reset attribute trigger queue reset
- crypto: user support incremental algorithm dumps
- mwifiex: fix potential NULL dereference and use after free
- mwifiex: debugfs: correct histogram spacing, formatting
- brcmfmac: set F2 watermark to 256 for 4373
- brcmfmac: set SDIO F1 MesBusyCtrl for CYW4373

- rtl818x: fix potential use after free
- bcache: do not check if debug dentry is ERR or NULL explicitly on remove
- bcache: do not mark writeback_running too early
- xfs: require both realtime inodes to mount
- nvme: fix kernel paging oops
- ubifs: Fix default compression selection in ubifs
- ubi: Put MTD device after it is not used
- ubi: Do not drop UBI device reference before using
- iwlwifi: move iwl_nvm_check_version() into dvm
- iwlwifi: mvm: force TCM re-evaluation on TCM resume
- iwlwifi: pcie: fix erroneous print
- iwlwifi: pcie: set cmd_len in the correct place
- [armhf,arm64] gpio: pca953x: Fix AI overflow on PCAL6524
- gpiolib: Fix return value of gpio_to_desc() stub if !GPIOLIB
- [x86] kvm: vmx: Set IA32_TSC_AUX for legacy mode guests
- [x86] Revert "KVM: nVMX: reset cache/shadows when switching loaded VMCS"
- [x86] Revert "KVM: nVMX: move check_vmentry_postreqs() call to nested_vmx_enter_non_root_mode()"
- VSOCK: bind to random port for VMADDR_PORT_ANY
- [amd64] mmc: meson-gx: make sure the descriptor is stopped on errors
- [armhf] mtd: rawnand: sunxi: Write pageprog related opcodes to WCMD_SET
- [armhf] usb: ehci-omap: Fix deferred probe for phy handling
- btrfs: Check for missing device before bio submission in btrfs_map_bio
- btrfs: fix ncopies raid_attr for RAID56
- btrfs: dev-replace: set result code of cancel by status of scrub
- Btrfs: allow clear_extent_dirty() to receive a cached extent state record
- btrfs: only track ref_heads in delayed_ref_updates
- [x86] HID: intel-ish-hid: fixes incorrect error handling
- serial: 8250: Rate limit serial port rx interrupts during input overruns
- [x86] kprobes/xen: blacklist non-attachable xen interrupt functions
- xen/pciback: Check dev_data before using it
- kprobes: Blacklist symbols in arch-defined prohibited area
- [amd64] kprobes: Show x86-64 specific blacklisted symbols correctly
- [armhf] memory: omap-gpmc: Get the header of the enum
- net/mlx5: Continue driver initialization despite debugfs failure
- netfilter: nf_nat_sip: fix RTP/RTCP source port translations

- exofs mount(): fix leaks on failure exits
- bnxt_en: Return linux standard errors in bnxt_ethtool.c
- bnxt_en: Save ring statistics before reset.
- bnxt_en: query force speeds before disabling autoneg mode.
- [s390x] KVM: unregister debug feature on failing arch init
- dm flakey: Properly corrupt multi-page bios.
- gfs2: take jdata unstuff into account in do_grow
- dm raid: fix false -EBUSY when handling check/repair message
- xfs: Align compat attrlist_by_handle with native implementation.
- xfs: Fix bulkstat compat ioctls on x32 userspace.
- IB/qib: Fix an error code in qib_sdma_verbs_send()
- vxlan: Fix error path in __vxlan_dev_create()
- [ppc64el] xmon: fix dump_segments()
- drivers/regulator: fix a missing check of return value
- Bluetooth: hci_bcm: Handle specific unknown packets after firmware loading
- RDMA/srp: Propagate ib_post_send() failures to the SCSI mid-layer
- scsi: qla2xxx: deadlock by configfs_depend_item
- scsi: csiostor: fix incorrect dma device in case of vport
- brcmfmac: Fix access point mode
- ath6kl: Only use match sets when firmware supports it
- ath6kl: Fix off by one error in scan completion
- [ppc64el] perf: Fix unit_sel/cache_sel checks
- [ppc64el] prom: fix early DEBUG messages
- [ppc64el] mm: Make NULL pointer deferences explicit on bad page faults.
- [ppc64el] vfio/spapr_tce: Get rid of possible infinite loop
- [ppc64el] powernv/eeh/npu: Fix uninitialized variables in opal_pci_eeh_freeze_status
- drbd: ignore "all zero" peer volume sizes in handshake
- drbd: reject attach of unsuitable uuids even if connected
- drbd: do not block when adjusting "disk-options" while IO is frozen
- drbd: fix print_st_err()'s prototype to match the definition
- IB/rxe: Make counters thread safe
- bpf/cpumap: make sure frame_size for build_skb is aligned if headroom isn't
- [armhf] regulator: tps65910: fix a missing check of return value
- [ppc64el] powerpc/pseries: Fix node leak in update_lmb_associativity_index()
- net/netlink_compat: Fix a missing check of nla_parse_nested
- net/net namespace: Check the return value of register pernet subsys()

- f2fs: fix block address for __check_sit_bitmap
- f2fs: fix to dirty inode synchronously
- [armhf] net: dsa: bcm_sf2: Propagate error value from mdio_write
- atl1e: checking the status of atl1e_write_phy_reg
- tipc: fix a missing check of genlmsg put
- net: marvell: fix a missing check of acpi match device
- ocfs2: clear journal dirty flag after shutdown journal
- vmscan: return NODE_RECLAIM_NOSCAN in node_reclaim() when CONFIG_NUMA is n
- mm/page_alloc.c: free order-0 pages through PCP in page_frag_free()
- mm/page_alloc.c: use a single function to free page
- mm/page_alloc.c: deduplicate __memblock_free_early() and memblock_free()
- netfilter: nf_tables: fix a missing check of nla_put_failure
- xprtrdma: Prevent leak of rpcrdma_rep objects
- infiniband/qedr: Potential null ptr dereference of qp
- lib/genalloc.c: fix allocation of aligned buffer from non-aligned chunk
- lib/genalloc.c: use vzalloc_node() to allocate the bitmap
- drivers/base/platform.c: kmemleak ignore a known leak
- lib/genalloc.c: include vmalloc.h
- mtd: Check add_mtd_device() ret code
- tipc: fix memory leak in tipc_nl_compat_publ_dump
- net/core/neighbour: tell kmemleak about hash tables
- [armhf,arm64] ata: ahci: mvebu: do Armada 38x configuration only on relevant SoCs
- PCI/MSI: Return -ENOSPC from pci_alloc_irq_vectors_affinity()
- net/core/neighbour: fix kmemleak minimal reference count for hash tables
- serial: 8250: Fix serial8250 initialization crash
- [armhf] gpu: ipu-v3: pre: don't trigger update if buffer address doesn't change
- sfc: suppress duplicate nvmem partition types in efx_ef10_mtd_probe
- ip_tunnel: Make none-tunnel-dst tunnel port work with lwtunnel
- decnet: fix DN_IFREQ_SIZE
- net/smc: prevent races between smc_lgr_terminate() and smc_conn_free()
- net/smc: don't wait for send buffer space when data was already sent
- mm/hotplug: invalid PFNs from pfn_to_online_page()
- xfs: end sync buffer I/O properly on shutdown error
- net/smc: fix sender_free computation
- blktrace: Show requests without sector
- net/smc: fix byte_order for rx_curs_confirmed

- tipc: fix skb may be leaky in tipc_link_input
- sfc: initialise found bitmap in efx_ef10_mtd_probe
- geneve: change NET_UDP_TUNNEL dependency to select
- net: fix possible overflow in __sk_mem_raise_allocated()
- net: ip_gre: do not report erspan_ver for gre or gretap
- net: ip6_gre: do not report erspan_ver for ip6gre or ip6gretap
- sctp: don't compare hb_timer expire date before starting it
- bpf: decrease usercnt if bpf_map_new_fd() fails in bpf_map_get_fd_by_id()
- mmc: core: align max segment size with logical block size
- net: dev: Use unsigned integer as an argument to left-shift
- kvm: properly check debugfs dentry before using it
- bpf: drop refcount if bpf_map_new_fd() fails in map_create()
- [arm64] net: hns3: Change fw error code NOT_EXEC to NOT_SUPPORTED
- [arm64] net: hns3: fix PFC not setting problem for DCB module
- [arm64] net: hns3: fix an issue for hclgevf_ae_get_hdev
- [arm64] net: hns3: fix an issue for hns3_update_new_int_gl
- [x86] iommu/amd: Fix NULL dereference bug in match hid uid
- apparmor: delete the dentry in aafs_remove() to avoid a leak
- scsi: libsas: Support SATA PHY connection rate unmatch fixing during discovery
- ACPI / APEI: Don't wait to serialise with oops messages when panic()ing
- ACPI / APEI: Switch estatus pool to use vmalloc memory
- [arm64] scsi: hisi_sas: shutdown axi bus to avoid exception CQ returned
- scsi: libsas: Check SMP PHY control function result
- [arm64] RDMA/hns: Fix the bug with updating rq head pointer when flush cqe
- [arm64] RDMA/hns: Bugfix for the scene without receiver queue
- [arm64] RDMA/hns: Fix the state of rereg mr
- [arm64] RDMA/hns: Use GFP_ATOMIC in hns_roce_v2_modify_qp
- ASoC: rt5645: Headphone Jack sense inverts on the LattePanda board
- [ppc64el] pseries/dlpar: Fix a missing check in dlpar_parse_cc_property() (CVE-2019-12614)
- xdp: fix cpumap redirect SKB creation bug
- mtd: Remove a debug trace in mtdpart.c
- [s390x] mm, gup: add missing refcount overflow checks on s390
- [armhf,arm64] usb: dwc2: use a longer core rest timeout in dwc2_core_reset()
- staging: rtl8192e: fix potential use after free
- staging: rtl8723bs: Drop ACPI device ids
- staging: rtl8723bs: Add 024c:0525 to the list of SDIO device-ids

- USB: serial: ftdi sio: add device IDs for U-Blox C099-F9P
- [x86] mei: bus: prefix device names on bus with the bus name
- [x86] mei: me: add comet point V device id
- thunderbolt: Power cycle the router if NVM authentication fails
- xfrm: Fix memleak on xfrm state destroy
- media: v4l2-ctrl: fix flags for DO WHITE BALANCE
- [arm64] net: macb: fix error format in dev_err()
- pwm: Clear chip_data in pwm_put()
- macvlan: schedule bc_work even if error
- net: psample: fix skb_over_panic
- openvswitch: fix flow command message size
- sctp: Fix memory leak in sctp_sf_do_5_2_4_dupcook
- slip: Fix use-after-free Read in slip_open
- openvswitch: drop unneeded BUG_ON() in ovs_flow_cmd_build_info()
- openvswitch: remove another BUG_ON()
- tipc: fix link name length check
- sctp: cache netns in sctp_ep_common
- net: sched: fix tc -s class show no bstats on class with nolock subqueues
- [arm64] net: macb: add missed tasklet_kill
- ext4: add more paranoia checking in ext4_expand_extra_isize handling (CVE-2019-19767)
- [arm64] net: macb: Fix SUBNS increment and increase resolution
- [arm64] net: macb driver, check for SKBTX_HW_TSTAMP
- mtd: spi-nor: cast to u64 to avoid uint overflows
- tcp: exit if nothing to retransmit on RTO timeout
- HID: core: check whether Usage Page item is after Usage ID items
- [x86] platform: hp-wmi: Fix ACPI errors caused by too small buffer
- [x86] platform: hp-wmi: Fix ACPI errors caused by passing 0 as input size

- rsi: release skb if rsi_prepare_beacon fails (CVE-2019-19071)
- [arm64] tegra: Fix 'active-low' warning for Jetson TX1 regulator
- usb: gadget: u_serial: add missing port entry locking
- [arm64] tty: serial: msm_serial: Fix flow control
- [armhf,arm64] serial: pl011: Fix DMA ->flush_buffer()
- serial: serial_core: Perform NULL checks for break_ctl ops
- autofs: fix a leak in autofs_expire_indirect()
- [arm64] RDMA/hns: Correct the value of HNS ROCE HEM CHUNK LEN

- iwlwifi: pcie: don't consider IV len in A-MSDU
- exportfs_decode_fh(): negative pinned may become positive without the parent locked
- audit_get_nd(): don't unlock parent too early
- xfrm: release device reference for invalid state
- sched/core: Avoid spurious lock dependencies
- perf/core: Consistently fail fork on allocation failures
- ALSA: pcm: Fix stream lock usage in snd_pcm_period_elapsed()
- [armhf,arm64] drm/sun4i: tcon: Set min division of TCON0_DCLK to 1.
- rsxx: add missed destroy_workqueue calls in remove
- i2c: core: fix use after free in of_i2c_notify
- serial: core: Allow processing sysrq at port unlock time
- cxgb4vf: fix memleak in mac_hlist initialization
- iwlwifi: mvm: synchronize TID queue removal
- iwlwifi: trans: Clear persistence bit when starting the FW
- iwlwifi: mvm: Send non offchannel traffic via AP sta
- [armhf] 8813/1: Make aligned 2-byte getuser()/putuser() atomic on ARMv6+
- audit: Embed key into chunk
- netfilter: nf_tables: don't use position attribute on rule replacement
- net/mlx5: Release resource on error flow
- [arm64] clk: sunxi-ng: a64: Fix gate bit of DSI DPHY
- ice: Fix NVM mask defines
- dlm: fix possible call to kfree() for non-initialized pointer
- [armhf] dts: exynos: Fix LDO13 min values on Odroid XU3/XU4/HC1
- [armhf,arm64] rtc: max77686: Fix the returned value in case of error in 'max77686_rtc_read_time()'
- i40e: don't restart nway if autoneg not supported
- virtchnl: Fix off by one error
- [armhf] clk: rockchip: fix rk3188 sclk_smc gate data
- [armhf] clk: rockchip: fix rk3188 sclk mac lbtest parameter ordering
- [armhf] dts: rockchip: Fix rk3288-rock2 vcc_flash name
- dlm: fix missing idr_destroy for recover_idr
- [armhf,arm64] net: dsa: mv88e6xxx: Work around mv886e6161 SERDES missing MII_PHYSID2
- [s390x] scsi: zfcp: update kernel message for invalid FCP_CMND length, it's not the CDB
- [s390x] scsi: zfcp: drop default switch case which might paper over missing case
- [armhf] bus: ti-sysc: Fix getting optional clocks in clock_roles
- [armhf] dts: imx6: RDU2: fix eGalax touchscreen node
- crypto: ecc check for invalid values in the key verification test

- crypto: bcm fix normal/non key hash algorithm failure
- [arm64] dts: zynqmp: Fix node names which contain "_"
- [arm64] pinctrl: qcom: ssbi-gpio: fix gpio-hog related boot issues
- [arm*] firmware: raspberrypi: Fix firmware calls with large buffers
- mm/vmstat.c: fix NUMA statistics updates
- [arm64] clk: rockchip: fix I2S1 clock gate register for rk3328
- [arm64] clk: rockchip: fix ID of 8ch clock of I2S1 for rk3328
- sctp: count sk_wmem_alloc by skb truesize in sctp_packet_transmit
- regulator: Fix return value of _set_load() stub
- USB: serial: f81534: fix reading old/new IC config
- xfs: extent shifting doesn't fully invalidate page cache
- net-next/hinic:fix a bug in set mac address
- net-next/hinic: fix a bug in rx data flow
- ice: Fix return value from NAPI poll
- ice: Fix possible NULL pointer de-reference
- iomap: FUA is wrong for DIO O_DSYNC writes into unwritten extents
- iomap: sub-block dio needs to zeroout beyond EOF
- iomap: dio data corruption and spurious errors when pipes fill
- iomap: readpages doesn't zero page tail beyond EOF
- iw_cxgb4: only reconnect with MPAv1 if the peer aborts
- [mips*/octeon] octeon-platform: fix typing
- net/smc: use after free fix in smc_wr_tx_put_slot()
- [armhf] dts: exynos: Use Samsung SoC specific compatible for DWC2 module
- media: pulse8-cec: return 0 when invalidating the logical address
- media: cec: report Vendor ID after initialization
- iwlwifi: fix cfg structs for 22000 with different RF modules
- net/ipv6: re-do dad when interface has IFF_NOARP flag change
- [x86] dmaengine: dw-dmac: implement dma protection control setting
- [armhf,arm64] usb: dwc3: debugfs: Properly print/set link state for HS
- [armhf,arm64] usb: dwc3: don't log probe deferrals; but do log other error codes
- ACPI: fix acpi_find_child_device() invocation in acpi_preset_companion()
- f2fs: fix to account preflush command for noflush_merge mode
- f2fs: fix count of seg_freed to make sec_freed correct
- f2fs: change segment to section in f2fs_ioc_gc_range
- [armhf] dts: rockchip: Fix the PMU interrupt number for rv1108
- [armhf] dts: rockchip: Assign the proper GPIO clocks for rv1108

- f2fs: fix to allow node segment for GC by ioctl path
- nvme: Free ctrl device name on init failure
- dma-mapping: fix return type of dma_set_max_seg_size()
- [armhf] serial: imx: fix error handling in console_setup
- [armhf] i2c: imx: don't print error message on probe defer
- [arm64] clk: meson: Fix GXL HDMI PLL fractional bits width
- [armhf,arm64] gpu: host1x: Fix syncpoint ID field size on Tegra186
- lockd: fix decoding of TEST results
- sctp: increase sk_wmem_alloc when head->truesize is increased
- [x86] iommu/amd: Fix line-break in error log reporting
- [armhf] dts: sun8i: a23/a33: Fix OPP DTC warnings
- [armhf] dts: sun8i: v3s: Change pinctrl nodes to avoid warning
- nfsd: fix a warning in __cld_pipe_upcall()
- bpf: btf: implement btf_name_valid_identifier()
- bpf: btf: check name validity for various types
- [armhf] OMAP1/2: fix SoC name printing
- [arm64] dts: meson-gxl-libretech-cc: fix GPIO lines names
- [arm64] dts: meson-gxbb-nanopi-k2: fix GPIO lines names
- [arm64] dts: meson-gxbb-odroidc2: fix GPIO lines names
- [arm64] dts: meson-gxl-khadas-vim: fix GPIO lines names
- net/x25: fix called/calling length calculation in x25_parse_address_block
- net/x25: fix null_x25_address handling
- tcp: make tcp_space() aware of socket backlog
- tcp: fix off-by-one bug on aborting window-probing socket
- tcp: fix SNMP under-estimation on failed retransmission
- tcp: fix SNMP TCP timeout under-estimation
- kbuild: fix single target build for external module
- mtd: fix mtd_oobavail() incoherent returned value
- [arm64] clk: meson: meson8b: fix the offset of vid_pll_dco's N value
- [armhf,arm64] clk: sunxi-ng: h3/h5: Fix CSI_MCLK parent
- [arm64] clk: qcom: Fix MSM8998 resets
- dlm: fix invalid cluster name warning
- net/mlx4_core: Fix return codes of unsupported operations
- pstore/ram: Avoid NULL deref in ftrace merging failure path
- [mips*/octeon] cvmx_pko_mem_debug8: use oldest forward compatible definition
- nfsd: Return EPERM, not EACCES, in some SETATTR cases

- media: uvcvideo: Abstract streaming object lifetime
- [armhf] dts: sun8i: h3: Fix the system-control register range
- tty: Don't block on IO when ldisc change is pending
- media: stkwebcam: Bugfix for wrong return values
- sctp: frag_point sanity check
- IB/hfi1: Ignore LNI errors before DC8051 transitions to Polling state
- IB/hfi1: Close VNIC sdma_progress sleep window
- mlx4: Use snprintf instead of complicated strcpy
- [armhf] dts: sunxi: Fix PMU compatible strings
- [armhf] dts: am335x-pdu001: Fix polarity of card detection input
- net: aquantia: fix RSS table and key sizes
- sched/fair: Scale bandwidth quota and period without losing quota/period ratio precision
- fuse: verify nlink
- fuse: verify attributes
- [x86] ALSA: hda/realtek Enable internal speaker of ASUS UX431FLC
- [x86] ALSA: hda/realtek Enable the headset-mic on a Xiaomi's laptop
- [x86] ALSA: hda/realtek Dell headphone has noise on unmute for ALC236
- ALSA: pcm: oss: Avoid potential buffer overflows
- [x86] ALSA: hda Add mute led support for HP ProBook 645 G4
- [x86] Input: synaptics switch another X1 Carbon 6 to RMI/SMbus
- [x86] Input: synaptics-rmi4 re-enable IRQs in f34v7_do_reflash
- [x86] Input: synaptics-rmi4 don't increment rmiaddr for SMBus transfers
- [x86] Input: goodix add upside-down quirk for Teclast X89 tablet
- Input: Fix memory leak in psxpad_spi_probe
- [i386] mm: Sync only to VMALLOC_END in vmalloc_sync_all()
- [x86] PCI: Avoid AMD FCH XHCI USB PME# from D0 defect
- xfrm interface: fix memory leak on creation
- xfrm interface: avoid corruption on changelink
- xfrm interface: fix list corruption for x-netns
- xfrm interface: fix management of phydev
- CIFS: Fix NULL-pointer dereference in smb2_push_mandatory_locks
- CIFS: Fix SMB2 oplock break processing
- tty: vt: keyboard: reject invalid keycodes
- can: slcan: Fix use-after-free Read in slcan_open
- kernfs: fix ino wrap-around detection
- jbd2: Fix possible overflow in jbd2 log space left()

- [arm64] drm/msm: fix memleak on release
- [i386] drm/i810: Prevent underflow in ioctl
- [armhf,arm64] KVM: vgic: Don't rely on the wrong pending table
- [x86] KVM: do not modify masked bits of shared MSRs
- [x86] KVM: fix presentation of TSX feature in ARCH CAPABILITIES
- [x86] KVM: Grab KVM's srcu lock when setting nested state
- crypto: af_alg cast ki_complete ternary op to int
- [x86] crypto: ccp fix uninitialized list head
- crypto: ecdh fix big endian bug in ECC library
- crypto: user fix memory leak in crypto_report (CVE-2019-19062)
- mwifiex: update set_mac_address logic
- can: ucan: fix non-atomic allocation in completion handler
- RDMA/qib: Validate ->show()/store() callbacks before calling them
- iomap: Fix pipe page leakage during splicing
- thermal: Fix deadlock in thermal thermal_zone_device_check
- vcs: prevent write access to vcsu devices (CVE-2019-19252)
- binder: Fix race between mmap() and binder_alloc_print_pages()
- binder: Handle start==NULL in binder_update_page_range()
- ALSA: hda Fix pending unsol events at shutdown
- perf script: Fix invalid LBR/binary mismatch error
- splice: don't read more than available pipe space
- iomap: partially revert 4721a601099 (simulated directio short read on EFAULT)
- xfs: add missing error check in xfs_prepare_shift()
- ASoC: rsnd: fixup MIX kctrl registration
- [x86] KVM: fix out-of-bounds write in KVM GET EMULATED CPUID (CVE-2019-19332)
- net: qrtr: fix memort leak in qrtr_tun_write_iter (CVE-2019-19079)
- appletalk: Fix potential NULL pointer dereference in unregister_snap_client (CVE-2019-19227)
- appletalk: Set error code if register snap client failed

- usb: gadget: configfs: Fix missing spin_lock_init()
- [x86] usb: gadget: pch_udc: fix use after free
- scsi: qla2xxx: Fix driver unload hang
- [arm64] media: venus: remove invalid compat_ioctl32 handler
- USB: uas: honor flag to avoid CAPACITY16
- USB: uas: heed CAPACITY HEURISTICS
- usb: Allow USB device to be warm reset in suspended state

- staging: rtl8188eu: fix interface sanity check
- staging: rtl8712: fix interface sanity check
- staging: gigaset: fix general protection fault on probe
- staging: gigaset: fix illegal free on probe errors
- staging: gigaset: add endpoint-type sanity check
- usb: xhci: only set D3hot for pci device
- xhci: Fix memory leak in xhci_add_in_port()
- xhci: Increase STS_HALT timeout in xhci_suspend()
- xhci: handle some XHCI_TRUST_TX_LENGTH quirks cases as default behaviour.
- [armhf] dts: pandora-common: define wl1251 as child node of mmc3
- [x86] iio: imu: inv_mpu6050: fix temperature reporting using bad unit
- USB: atm: ueagle-atm: add missing endpoint check
- USB: idmouse: fix interface sanity checks
- USB: serial: io_edgeport: fix epic endpoint lookup
- usb: roles: fix a potential use after free
- USB: adutux: fix interface sanity check
- usb: core: urb: fix URB structure initialization function
- usb: mon: Fix a deadlock in usbmon between mmap and read
- tpm: add check after commands attribs tab allocation
- virtio-balloon: fix managed page counts when migrating pages between zones
- [armhf,arm64] usb: dwc3: gadget: Fix logical condition
- [armhf,arm64] usb: dwc3: ep0: Clear started flag on completion
- btrfs: check page->mapping when loading free space cache
- btrfs: use refcount_inc_not_zero in kill_all_nodes
- Btrfs: fix metadata space leak on fixup worker failure to set range as delalloc
- Btrfs: fix negative subv_writers counter and data space leak after buffered write
- btrfs: Avoid getting stuck during cyclic writebacks
- btrfs: Remove btrfs bio::flags member
- Btrfs: send, skip backreference walking for extents with many references
- btrfs: record all roots for rename exchange on a subvol
- rtlwifi: rtl8192de: Fix missing code to retrieve RX buffer address
- rtlwifi: rtl8192de: Fix missing callback that tests for hw release of buffer
- rtlwifi: rtl8192de: Fix missing enable interrupt flag
- ovl: fix corner case of non-unique st_dev;st_ino
- ovl: relax WARN ON() on rename to self
- [armhf] hwrng: omap Fix RNG wait loop timeout

- dm writecache: handle REQ_FUA
- dm zoned: reduce overhead of backing device checks
- workqueue: Fix spurious sanity check failures in destroy_workqueue()
- workqueue: Fix pwq ref leak in rescuer_thread()
- ASoC: rt5645: Fixed buddy jack support.
- ASoC: rt5645: Fixed typo for buddy jack support.
- ASoC: Jack: Fix NULL pointer dereference in snd_soc_jack_report
- md: improve handling of bio with REQ_PREFLUSH in md_flush_request()
- blk-mq: avoid sysfs buffer overflow with too many CPU cores
- cgroup: pids: use atomic64_t for pids->limit
- ar5523: check NULL before memcpy() in ar5523_cmd()
- [s390x] mm: properly clear _PAGE_NOEXEC bit when it is not supported
- media: cec.h: CEC_OP_REC_FLAG_ values were swapped
- cpuidle: Do not unset the driver if it is there already
- erofs: zero out when listxattr is called with no xattr
- [x86] intel_th: Fix a double put_device() in error path
- [x86] intel_th: pci: Add Ice Lake CPU support
- [x86] intel_th: pci: Add Tiger Lake CPU support
- PM / devfreq: Lock devfreq in trans_stat_show
- [ppc64el] cpufreq: powerny: fix stack bloat and hard limit on number of CPUs
- ACPI / hotplug / PCI: Allocate resources directly under the non-hotplug bridge
- ACPI: OSL: only free map once in osl.c
- ACPI: bus: Fix NULL pointer check in acpi_bus_get_private_data()
- ACPI: PM: Avoid attaching ACPI PM domain to certain devices
- [arm64] pinctrl: armada-37xx: Fix irq mask access in armada_37xx_irq_set_type()
- [armhf] pinctrl: samsung: Add of_node_put() before return in error path
- [armhf] pinctrl: samsung: Fix device node refcount leaks in Exynos wakeup controller init
- [armhf] pinctrl: samsung: Fix device node refcount leaks in init code
- [armhf] mmc: host: omap_hsmmc: add code for special init of wl1251 to get rid of pandora_wl1251_init_card
- [armhf] dts: omap3-tao3530: Fix incorrect MMC card detection GPIO polarity
- ppdev: fix PPGETTIME/PPSETTIME ioctls
- [ppc64el] Allow 64bit VDSO _kernel_sync_dicache to work across ranges >4GB
- [ppc64el] xive: Prevent page fault issues in the machine crash handler
- [ppc64el] Allow flush_icache_range to work across ranges >4GB
- [ppc64el] xive: Skip ioremap() of ESB pages for LSI interrupts

- video/hdmi: Fix AVI bar unpack
- quota: Check that quota is not dirty before release
- ext2: check err when partial != NULL
- quota: fix livelock in dquot_writeback_dquots
- ext4: Fix credit estimate for final inode freeing
- reiserfs: fix extended attributes on the root directory
- block: fix single range discard merge
- [s390x] scsi: zfcp: trace channel log even for FCP command responses
- scsi: qla2xxx: Fix DMA unmap leak
- scsi: qla2xxx: Fix hang in fcport delete path
- scsi: qla2xxx: Fix session lookup in qlt_abort_work()
- scsi: qla2xxx: Fix qla24xx_process_bidir_cmd()
- scsi: qla2xxx: Always check the qla2x00_wait_for_hba_online() return value
- scsi: qla2xxx: Fix message indicating vectors used by driver
- scsi: qla2xxx: Fix SRB leak on switch command timeout
- xhci: make sure interrupts are restored to correct state
- usb: typec: fix use after free in typec_register_port()
- [armhf] omap: pdata-quirks: remove openpandora quirks for mmc3 and wl1251
- scsi: lpfc: Cap NPIV vports to 256
- scsi: lpfc: Correct code setting non existent bits in sli4 ABORT WQE
- scsi: lpfc: Correct topology type reporting on G7 adapters
- sch_cake: Correctly update parent glen when splitting GSO packets
- net/smc: do not wait under send_lock
- [arm64] net: hns3: clear pci private data when unload hns3 driver
- [arm64] net: hns3: change hnae3_register_ae_dev() to int
- [arm64] net: hns3: Check variable is valid before assigning it to another
- [arm64] scsi: hisi_sas: send primitive NOTIFY to SSP situation only
- [arm64] scsi: hisi_sas: Reject setting programmed minimum linkrate > 1.5G
- [x86] MCE/AMD: Turn off MC4_MISC thresholding on all family 0x15 models
- [x86] MCE/AMD: Carve out the MC4_MISC thresholding quirk
- ath10k: fix fw crash by moving chip reset after napi disabled
- [ppc64el] Fix vDSO clock_getres()
- ext4: work around deleting a file with i_nlink == 0 safely (CVE-2019-19447)
- mm/shmem.c: cast the type of unmap_start to u64
- rtc: disable uie before setting time and enable after
- splice: only read in as much information as there is pipe buffer space

- ext4: fix a bug in ext4_wait_for_tail_page_commit
- [armhf,arm64] mfd: rk808: Fix RK818 ID template
- mm, thp, proc: report THP eligibility for each vma
- [s390x] smp,vdso: fix ASCE handling
- blk-mq: make sure that line break can be printed
- workqueue: Fix missing kfree(rescuer) in destroy_workqueue()
- perf callchain: Fix segfault in thread__resolve_callchain_sample()
- gre: refetch erspan header from skb->data after pskb_may_pull()
- sunrpc: fix crash when cache_head become valid before update
- net/mlx5e: Fix SFF 8472 eeprom length
- leds: trigger: netdev: fix handling on interface rename
- gfs2: fix glock reference problem in gfs2_trans_remove_revoke
- of: overlay: add_changeset_property() memory leak
- kernel/module.c: wakeup processes in module_wq on module unload
- cifs: Fix potential softlockups while refreshing DFS cache
- [x86] gpiolib: acpi: Add Terra Pad 1061 to the run_edge_events_on_boot_blacklist
- raid5: need to set STRIPE HANDLE for batch head
- scsi: qla2xxx: Change discovery state before PLOGI
- [x86] iio: imu: mpu6050: add missing available scan masks
- idr: Fix idr_get_next_ul race with idr_remove
- of: unittest: fix memory leak in attach_node_and_children

- inet: protect against too small mtu values.
- mqprio: Fix out-of-bounds access in mqprio_dump
- net: bridge: deny dev_set_mac_address() when unregistering
- net: dsa: fix flow dissection on Tx path
- net: ethernet: ti: cpsw: fix extra rx interrupt
- net: sched: fix dump glen for sch mg/sch mgprio with NOLOCK subqueues
- [arm64] net: thunderx: start phy before starting autonegotiation
- openvswitch: support asymmetric conntrack
- tcp: md5: fix potential overestimation of TCP option space
- tipc: fix ordering of tipc module init and exit routine
- net/mlx5e: Query global pause state before setting prio2buffer
- tcp: fix rejected syncookies due to stale timestamps
- tcp: tighten acceptance of ACKs not matching a child socket
- tcp: Protect accesses to .ts recent stamp with {READ,WRITE} ONCE()

- [arm64] Revert "arm64: preempt: Fix big-endian when checking preempt count in assembly"
- mmc: block: Make card_busy_detect() a bit more generic
- mmc: block: Add CMD13 polling for MMC IOCTLS with R1B response
- PCI/PM: Always return devices to D0 when thawing
- PCI: pciehp: Avoid returning prematurely from sysfs requests
- [x86] PCI: Fix Intel ACS quirk UPDCR register address
- PCI/MSI: Fix incorrect MSI-X masking on resume
- [arm64] PCI: Apply Cavium ACS quirk to ThunderX2 and ThunderX3
- [arm64] rpmsg: glink: Set tail pointer to 0 at end of FIFO
- [arm64] rpmsg: glink: Fix reuse intents memory leak issue
- [arm64] rpmsg: glink: Fix use after free in open_ack TIMEOUT case
- [arm64] rpmsg: glink: Put an extra reference during cleanup
- [arm64] rpmsg: glink: Fix rpmsg_register_device err handling
- [arm64] rpmsg: glink: Don't send pending rx_done during remove
- [arm64] rpmsg: glink: Free pending deferred work on remove
- cifs: smbd: Return -EAGAIN when transport is reconnecting
- cifs: smbd: Add messages on RDMA session destroy and reconnection
- cifs: smbd: Return -EINVAL when the number of iovs exceeds SMBDIRECT_MAX_SGE
- cifs: Don't display RDMA transport on reconnect
- CIFS: Respect O_SYNC and O_DIRECT flags during reconnect
- CIFS: Close open handle after interrupted close
- [armhf] tegra: Fix FLOW_CTLR_HALT register clobbering by tegra_resume()
- vfio/pci: call irq_bypass_unregister_producer() before freeing irq
- dma-buf: Fix memory leak in sync_file_merge()
- [arm64] drm: meson: venc: cvbs: fix CVBS mode matching
- dm mpath: remove harmful bio-based optimization
- dm btree: increase rebalance threshold in __rebalance2()
- scsi: iscsi: Fix a potential deadlock in the timeout handler
- scsi: qla2xxx: Change discovery state before PLOGI
- drm/radeon: fix r1xx/r2xx register checker for POT textures
- xhci: fix USB3 device initiated resume race with roothub autosuspend

- af_packet: set defaule value for tmo
- [amd64] fjes: fix missed check in fjes_acpi_add
- [arm64] net: hisilicon: Fix a BUG trigered by wrong bytes_compl
- net: qlogic: Fix error paths in ql_alloc_large_buffers()

- net: usb: lan78xx: Fix suspend/resume PHY register access error
- qede: Disable hardware gro when xdp prog is installed
- qede: Fix multicast mac configuration
- sctp: fully initialize v4 addr in some functions
- btrfs: don't double lock the subvol sem for rename exchange
- btrfs: do not call synchronize srcu() in inode tree del
- Btrfs: fix missing data checksums after replaying a log tree
- btrfs: send: remove WARN_ON for readonly mount
- btrfs: abort transaction after failed inode updates in create_subvol
- btrfs: skip log replay on orphaned roots
- btrfs: do not leak reloc root if we fail to read the fs root
- btrfs: handle ENOENT in btrfs_uuid_tree_iterate
- Btrfs: fix removal logic of the tree mod log that leads to use-after-free issues
- ALSA: pcm: Avoid possible info leaks from PCM stream buffers
- ALSA: hda/ca0132 Keep power on during processing DSP response
- ALSA: hda/ca0132 Avoid endless loop
- ALSA: hda/ca0132 Fix work handling in delayed HP detection
- [arm64,armhf] drm/panel: Add missing drm_panel_init() in panel drivers
- drm/amdgpu: grab the id mgr lock while accessing passid_mapping
- spi: Add call to spi_slave_abort() function when spidev driver is released
- [x86] staging: rtl8192u: fix multiple memory leaks on error path
- staging: rtl8188eu: fix possible null dereference
- rtlwifi: prevent memory leak in rtl_usb_probe (CVE-2019-19063)
- libertas: fix a potential NULL pointer dereference
- ath10k: fix backtrace on coredump
- IB/iser: bound protection_sg size by data_sg size
- [arm64] media: venus: core: Fix msm8996 frequency table
- ath10k: fix offchannel tx failure when no ath10k mac tx frm has freq
- pinctrl: devicetree: Avoid taking direct reference to device name string
- [amd64] drm/amdkfd: fix a potential NULL pointer dereference
- [arm64] media: venus: Fix occasionally failures to suspend
- [armhf] hwrng: omap3-rom Call clk_disable_unprepare() on exit only if not idled
- media: flexcop-usb: fix NULL-ptr deref in flexcop_usb_transfer_init()
- [arm64,armhf] drm/bridge: dw-hdmi: Refuse DDC/CI transfers on the internal I2C controller
- block: Fix writeback throttling W=1 compiler warnings
- mwifiex: pcie: Fix memory leak in mwifiex pcie init evt ring (CVE-2019-19057)

- drm/drm_vblank: Change EINVAL by the correct errno
- media: cx88: Fix some error handling path in 'cx8800_initdev()'
- [armhf] media: ti-vpe: vpe: Fix Motion Vector vpdma stride
- [armhf] media: ti-vpe: vpe: fix a v4l2-compliance warning about invalid pixel format
- [armhf] media: ti-vpe: vpe: fix a v412-compliance failure about frame sequence number
- [armhf] media: ti-vpe: vpe: Make sure YUYV is set as default format
- [armhf] media: ti-vpe: vpe: fix a v4l2-compliance failure causing a kernel panic
- [armhf] media: ti-vpe: vpe: ensure buffers are cleaned up properly in abort cases
- [armhf] media: ti-vpe: vpe: fix a v4l2-compliance failure about invalid sizeimage
- [x86] syscalls/x86: Use the correct function type in SYSCALL_DEFINE0
- [x86] mm: Use the correct function type for native_set_fixmap()
- ath10k: Correct error handling of dma_map_single()
- [arm64,armhf] drm/bridge: dw-hdmi: Restore audio when setting a mode
- perf report: Add warning when libunwind not compiled in
- usb: usbfs: Suppress problematic bind and unbind uevents.
- Bluetooth: missed cpu_to_le16 conversion in hci_init4_req
- Bluetooth: Workaround directed advertising bug in Broadcom controllers
- Bluetooth: hci_core: fix init for HCI_USER_CHANNEL
- [x86] mce: Lower throttling MCE messages' priority to warning
- [x86] drm/gma500: fix memory disclosures due to uninitialized bytes
- rtl8xxxu: fix RTL8723BU connection failure issue after warm reboot
- ipmi: Don't allow device module unload when in use
- [x86] ioapic: Prevent inconsistent state when moving an interrupt
- md/bitmap: avoid race window between md_bitmap_resize and bitmap_file_clear_bit
- [arm64] psci: Reduce the waiting time for cpu_psci_cpu_kill()
- i40e: initialize ITRN registers with correct values
- net: phy: dp83867: enable robust auto-mdix
- [arm64,armhf] drm/tegra: sor: Use correct SOR index on Tegra210
- ACPI: button: Add DMI quirk for Medion Akoya E2215T
- RDMA/qedr: Fix memory leak in user qp and mr
- [arm64,armhf] gpu: host1x: Allocate gather copy for host1x
- [arm64,armhf] net: dsa: LAN9303: select REGMAP when LAN9303 enable
- [arm64] phy: qcom-usb-hs: Fix extcon double register after power cycle
- [s390x] time: ensure get_clock_monotonic() returns monotonic values
- [s390x] mm: add mm_pxd_folded() checks to pxd_free()
- [arm64] net: hns3: add struct netdev queue debug info for TX timeout

- libata: Ensure ata_port probe has completed before detach
- loop: fix no-unmap write-zeroes request behavior
- Bluetooth: Fix advertising duplicated flags
- pinctrl: amd: fix __iomem annotation in amd_gpio_irq_handler()
- ixgbe: protect TX timestamping from API misuse
- media: rcar drif: fix a memory disclosure (CVE-2019-18786)
- media: v4l2-core: fix touch support in v4l_g_fmt
- rfkill: allocate static minor
- bnx2x: Fix PF-VF communication over multi-cos queues.
- ALSA: timer: Limit max amount of slave instances
- rtlwifi: fix memory leak in rtl92c_set_fw_rsvdpagepkt()
- perf probe: Fix to find range-only function instance
- perf probe: Fix to list probe event with correct line number
- perf jevents: Fix resource leak in process_mapfile() and main()
- perf probe: Walk function lines in lexical blocks
- perf probe: Fix to probe an inline function which has no entry pc
- perf probe: Fix to show ranges of variables in functions without entry_pc
- perf probe: Fix to show inlined function callsite without entry_pc
- perf probe: Fix to probe a function which has no entry pc
- perf tools: Splice events onto evlist even on error
- perf parse: If pmu configuration fails free terms
- perf probe: Skip overlapped location on searching variables
- perf probe: Return a better scope DIE if there is no best scope
- perf probe: Fix to show calling lines of inlined functions
- perf probe: Skip end-of-sequence and non statement lines
- perf probe: Filter out instances except for inlined subroutine and subprogram
- ath10k: fix get invalid tx rate for Mesh metric
- media: pvrusb2: Fix oops on tear-down when radio support is not present
- ice: delay less
- [amd64] spi: pxa2xx: Add missed security checks
- ASoC: rt5677: Mark reg RT5677_PWR_ANLG2 as volatile
- iio: dac: ad5446: Add support for new AD5600 DAC
- [x86] ASoC: Intel: kbl_rt5663_rt5514_max98927: Add dmic format constraint
- [s390x] disassembler: don't hide instruction addresses
- nvme: Discard workaround for non-conformant devices
- parport: load lowlevel driver if ports not found

- bcache: fix static checker warning in bcache_device_free()
- cpufreq: Register drivers only after CPU devices have been registered
- tracing: use kvcalloc for tgid_map array allocation
- tracing/kprobe: Check whether the non-suffixed symbol is notrace
- bcache: fix deadlock in bcache allocator
- iwlwifi: mvm: fix unaligned read of rx pkt status
- [arm64] spi: tegra20-slink: add missed clk_unprepare
- tun: fix data-race in gro_normal_list()
- crypto: virtio deal with unsupported input sizes
- btrfs: don't prematurely free work in end_workqueue_fn()
- btrfs: don't prematurely free work in run_ordered_work()
- [x86] ASoC: Intel: bytcr_rt5640: Update quirk for Acer Switch 10 SW5-012 2-in-1
- [x86] insn: Add some Intel instructions to the opcode map
- brcmfmac: remove monitor interface when detaching
- iwlwifi: check kasprintf() return value
- [armhf] net: ethernet: ti: ale: clean ale tbl on init and intf restart
- [armhf] crypto: sun4i-ss Fix 64-bit size_t warnings
- [armhf] crypto: sun4i-ss Fix 64-bit size_t warnings on sun4i-ss-hash.c
- mac80211: consider QoS Null frames for STA_NULLFUNC_ACKED
- net: phy: initialise phydev speed and duplex sanely
- btrfs: don't prematurely free work in reada_start_machine_worker()
- btrfs: don't prematurely free work in scrub_missing_raid56_worker()
- Revert "mmc: sdhci: Fix incorrect switch to HS mode"
- can: kvaser_usb: kvaser_usb_leaf: Fix some info-leaks to USB devices (CVE-2019-19947)
- usb: xhci: Fix build warning seen with CONFIG_PM=n
- [s390x] ftrace: fix endless recursion in function_graph tracer
- btrfs: return error pointer from alloc_test_extent_buffer
- usbip: Fix receive error in vhci-hcd when using scatter-gather
- usbip: Fix error path of vhci_recv_ret_submit()
- cpufreq: Avoid leaving stale IRQ work items during CPU offline
- [x86] intel_th: pci: Add Comet Lake PCH-V support
- [x86] intel_th: pci: Add Elkhart Lake SOC support
- [x86] platform/x86: hp-wmi: Make buffer for HPWMI_FEATURE2_QUERY 128 bytes
- [x86] staging: comedi: gsc_hpdi: check dma_alloc_coherent() return value
- ext4: fix ext4_empty_dir() for directories with holes (CVE-2019-19037)
- ext4: check for directory entries too close to block end

- ext4: unlock on error in ext4_expand_extra_isize()
- [arm64] KVM: Ensure 'params' is initialised when looking up sys register
- [x86] MCE/AMD: Do not use rdmsr_safe_on_cpu() in smca_configure()
- [x86] MCE/AMD: Allow Reserved types to be overwritten in smca_banks[]
- [powerpc*] irg: fix stack overflow verification
- [arm64] mmc: sdhci-msm: Correct the offset and value for DDR CONFIG register
- mmc: sdhci: Update the tuning failed messages to pr_debug level
- mmc: sdhci: Workaround broken command queuing on Intel GLK
- mmc: sdhci: Add a quirk for broken command queuing
- nbd: fix shutdown and recv work deadlock
- perf probe: Fix to show function entry line as probe-able

- scsi: lpfc: Fix discovery failures when target device connectivity bounces
- scsi: mpt3sas: Fix clear pending bit in ioctl status
- scsi: lpfc: Fix locking on mailbox command completion
- Input: atmel_mxt_ts disable IRQ across suspend
- f2fs: fix to update time in lazytime mode
- [arm64,armhf] iommu: rockchip: Free domain on .domain_free
- [arm64,armhf] iommu/tegra-smmu: Fix page tables in > 4 GiB memory
- scsi: target: compare full CHAP_A Algorithm strings
- scsi: lpfc: Fix SLI3 hba in loop mode not discovering devices
- scsi: csiostor: Don't enable IRQs too early
- [arm64] scsi: hisi_sas: Replace in_softirq() check in hisi_sas_task_exec()
- [ppc64el] pseries: Mark accumulate_stolen_time() as notrace
- [ppc64el] pseries: Don't fail hash page table insert for bolted mapping
- clocksource/drivers/timer-of: Use unique device name instead of timer
- [ppc64el] security/book3s64: Report L1TF status in sysfs
- [ppc64el] book3s64/hash: Add cond resched to avoid soft lockup warning
- ext4: update direct I/O read lock pattern for IOCB_NOWAIT
- ext4: iomap that extends beyond EOF should be marked dirty
- jbd2: Fix statistics for the number of logged blocks
- scsi: tracing: Fix handling of TRANSFER LENGTH == 0 for READ(6) and WRITE(6)
- scsi: lpfc: Fix duplicate unreg_rpi error in port offline flow
- f2fs: fix to update dir's i_pino during cross_rename
- [arm64] clk: qcom: Allow constant ratio freq tables for rcg
- clk: clk-gpio: propagate rate change to parent

- fs/quota: handle overflows of sysctl fs.quota.* and report as unsigned long
- scsi: lpfc: fix: Coverity: lpfc_cmpl_els_rsp(): Null pointer dereferences
- [ppc64el] PCI: rpaphp: Fix up pointer to first drc-info entry
- scsi: ufs: fix potential bug which ends in system hang
- [ppc64el] PCI: rpaphp: Don't rely on firmware feature to imply drc-info support
- [ppc64el] PCI: rpaphp: Annotate and correctly byte swap DRC properties
- [ppc64el] PCI: rpaphp: Correctly match ibm, my-drc-index to drc-name when using drc-info
- [ppc64el] powerpc/security: Fix wrong message when RFI Flush is disable
- bcache: at least try to shrink 1 node in bch_mca_scan()
- HID: quirks: Add quirk for HP MSU1465 PIXART OEM mouse
- HID: logitech-hidpp: Silence intermittent get_battery_capacity errors
- [armhf] 8937/1: spectre-v2: remove Brahma-B53 from hardening
- libnvdimm/btt: fix variable 'rc' set but not used
- HID: Improve Windows Precision Touchpad detection.
- HID: rmi: Check that the RMI_STARTED bit is set before unregistering the RMI transport device
- watchdog: Fix the race between the release of watchdog_core_data and cdev
- scsi: pm80xx: Fix for SATA device discovery
- scsi: ufs: Fix error handing during hibern8 enter
- scsi: scsi_debug: num_tgts must be >= 0
- scsi: iscsi: Don't send data to unbound connection
- scsi: target: iscsi: Wait for all commands to finish before freeing a session
- apparmor: fix unsigned len comparison with less than zero
- scripts/kallsyms: fix definitely-lost memory leak
- cdrom: respect device capabilities during opening action
- perf script: Fix brstackinsn for AUXTRACE
- perf regs: Make perf_reg_name() return "unknown" instead of NULL
- [s390x] zcrypt: handle new reply code FILTERED_BY_HYPERVISOR
- [s390x] cpum sf: Check for SDBT and SDB consistency
- ocfs2: fix passing zero to 'PTR_ERR' warning
- kernel: sysctl: make drop_caches write-only
- userfaultfd: require CAP_SYS_PTRACE for UFFD_FEATURE_EVENT_FORK
- [x86] mce: Fix possibly incorrect severity calculation on AMD
- net, sysctl: Fix compiler warning when only cBPF is present
- netfilter: nf_queue: enqueue skbs with NULL dst
- ALSA: hda Downgrade error message for single-cmd fallback
- bonding: fix active-backup transition after link failure

- perf strbuf: Remove redundant va_end() in strbuf_addv()
- Make filldir[64]() verify the directory entry filename is valid (CVE-2019-10220)
- filldir[64]: remove WARN_ON_ONCE() for bad directory entries (CVE-2019-10220)
- netfilter: ebtables: compat: reject all padding in matches/watchers
- 6pack, mkiss: fix possible deadlock
- netfilter: bridge: make sure to pull arp header in br_nf_forward_arp()
- inetpeer: fix data-race in inet_putpeer / inet_putpeer
- net: add a READ_ONCE() in skb_peek_tail()
- net: icmp: fix data-race in cmp_global_allow()
- hrtimer: Annotate lockless access to timer->state
- net: ena: fix napi handler misbehavior when the napi budget is zero
- net/mlxfw: Fix out-of-memory error in mfa2 flash burning
- [arm64,armhf] net: stmmac: dwmac-meson8b: Fix the RGMII TX delay on Meson8b/8m2 SoCs
- ptp: fix the race between the release of ptp_clock and cdev
- tcp: Fix highest_sack and highest_sack_seq
- udp: fix integer overflow while computing available space in sk_rcvbuf
- vhost/vsock: accept only packets with the right dst_cid
- net: add bool confirm_neigh parameter for dst_ops.update_pmtu
- ip6_gre: do not confirm neighbor when do pmtu update
- gtp: do not confirm neighbor when do pmtu update
- net/dst: add new function skb_dst_update_pmtu_no_confirm
- tunnel: do not confirm neighbor when do pmtu update
- vti: do not confirm neighbor when do pmtu update
- sit: do not confirm neighbor when do pmtu update
- net/dst: do not confirm neighbor for vxlan and geneve pmtu update
- gtp: do not allow adding duplicate tid and ms_addr pdp context
- [arm64,armhf] net: marvell: mvpp2: phylink requires the link interrupt
- tcp/dccp: fix possible race inet lookup established()
- tcp: do not send empty skb from tcp_write_xmit()
- gtp: fix wrong condition in gtp_genl_dump_pdp()
- gtp: fix an use-after-free in ipv4_pdp_find()
- gtp: avoid zero size hashtable
- [arm64,armhf] pinctrl: baytrail: Really serialize all register accesses

- nvme fc: add module to ops template to allow module references
- nvme-fc: fix double-free scenarios on hw queues

- drm/amdgpu: add check before enabling/disabling broadcast mode
- drm/amdgpu: add cache flush workaround to gfx8 emit_fence
- PM / devfreq: Fix devfreq_notifier_call returning errno
- PM / devfreq: Set scaling_max_freq to max on OPP notifier error
- PM / devfreq: Don't fail devfreq_dev_release if not in list
- afs: Fix afs find server lookups for ipv4 peers
- afs: Fix SELinux setting security label on /afs
- RDMA/cma: add missed unregister_pernet_subsys in init failure
- rxe: correctly calculate iCRC for unaligned payloads
- scsi: lpfc: Fix memory leak on lpfc_bsg_write_ebuf_set func
- scsi: qla2xxx: Drop superfluous INIT_WORK of del_work
- scsi: qla2xxx: Don't call qlt_async_event twice
- scsi: qla2xxx: Fix PLOGI payload and ELS IOCB dump length
- scsi: qla2xxx: Configure local loop for N2N target
- scsi: qla2xxx: Send Notify ACK after N2N PLOGI
- scsi: qla2xxx: Ignore PORT UPDATE after N2N PLOGI
- scsi: iscsi: qla4xxx: fix double free in probe
- scsi: libsas: stop discovering if oob mode is disconnected (CVE-2019-19965)
- drm/nouveau: Move the declaration of struct nouveau_conn_atom up a bit
- usb: gadget: fix wrong endpoint desc
- net: make socket read/write_iter() honor IOCB_NOWAIT
- afs: Fix creation calls in the dynamic root to fail with EOPNOTSUPP
- md: raid1: check rdev before reference in raid1_sync_request func
- [s390x] cpum_sf: Adjust sampling interval to avoid hitting sample limits
- [s390x] cpum_sf: Avoid SBD overflow condition in irq handler
- IB/mlx4: Follow mirror sequence of device add during device removal
- IB/mlx5: Fix steering rule of drop and count
- xen-blkback: prevent premature module unload
- xen/balloon: fix ballooned page accounting without hotplug enabled
- PM / hibernate: memory_bm_find_bit(): Tighten node optimisation
- ALSA: hda/realtek Add Bass Speaker and fixed dac for bass speaker
- ALSA: hda/realtek Enable the bass speaker of ASUS UX431FLC
- ALSA: hda fixup for the bass speaker on Lenovo Carbon X1 7th gen
- xfs: fix mount failure crash on invalid iclog memory access
- taskstats: fix data-race
- drm: limit to INT MAX in create blob ioctl

- netfilter: nft_tproxy: Fix port selector on Big Endian
- ALSA: ice1724: Fix sleep-in-atomic in Infrasonic Quartet support code
- ALSA: usb-audio: fix set_format altsetting sanity check
- ALSA: usb-audio: set the interface format after resume on Dell WD19
- ALSA: hda/realtek Add headset Mic no shutup for ALC283
- [arm64,armhf] drm/sun4i: hdmi: Remove duplicate cleanup calls
- [mips*] Avoid VDSO ABI breakage due to global register variable
- media: pulse8-cec: fix lost cec_transmit_attempt_done() call
- media: cec: CEC 2.0-only bcast messages were ignored
- media: cec: avoid decrementing transmit_queue_sz if it is 0
- media: cec: check 'transmit_in_progress', not 'transmitting'
- mm/zsmalloc.c: fix the migrated zspage statistics.
- memcg: account security cred as well to kmemcg
- mm: move_pages: return valid node id in status if the page is already on the target node
- [x86,arm64] pstore/ram: Write new dumps to start of recycled zones
- locks: print unsigned ino in /proc/locks
- compat ioctl: block: handle Persistent Reservations
- compat_ioctl: block: handle BLKREPORTZONE/BLKRESETZONE
- ata: libahci_platform: Export again ahci_platform_<en/dis>able_phys()
- libata: Fix retrieving of active qcs
- gpiolib: fix up emulated open drain outputs
- tracing: Fix lock inversion in trace_event_enable_tgid_record()
- tracing: Avoid memory leak in process_system_preds()
- tracing: Have the histogram compare functions convert to u64 first
- tracing: Fix endianness bug in histogram trigger
- apparmor: fix aa_xattrs_match() may sleep while holding a RCU lock
- [i386] ALSA: cs4236: fix error return comparison of an unsigned integer
- ALSA: firewire-motu: Correct a typo in the clock proc string
- exit: panic before exit_mm() on global init exit
- [arm64] Revert support for execute-only user mappings
- ftrace: Avoid potential division by zero in function profiler
- [arm64] drm/msm: include linux/sched/task.h
- PM / devfreq: Check NULL governor in available_governors_show
- nfsd4: fix up replay_matches_cache()
- [x86,arm64] HID: i2c-hid: Reset ALPS touchpads on resume
- ACPI: sysfs: Change ACPI_MASKABLE_GPE_MAX to 0x100

- xfs: don't check for AG deadlock for realtime files in bunmapi
- [x86] platform/x86: pmc_atom: Add Siemens CONNECT X300 to critclk_systems DMI table
- Bluetooth: btusb: fix PM leak in error case of setup
- Bluetooth: delete a stray unlock
- Bluetooth: Fix memory leak in hci connect le scan
- media: flexcop-usb: ensure -EIO is returned on error condition
- media: usb: fix memory leak in af9005_identify_state (CVE-2019-18809)
- [arm64] dts: meson: odroid-c2: Disable usb_otg bus to avoid power failed warning
- [arm64] tty: serial: msm_serial: Fix lockup for sysrq and oops
- fix compat handling of FICLONERANGE, FIDEDUPERANGE and FS_IOC_FIEMAP
- bdev: Factor out bdev revalidation into a common helper
- bdev: Refresh bdev size for disks without partitioning
- scsi: qedf: Do not retry ELS request if qedf_alloc_cmd fails
- drm/mst: Fix MST sideband up-reply failure handling
- [ppc64el] pseries/hvconsole: Fix stack overread via udbg
- [ppc64el] KVM: PPC: Book3S HV: use smp_mb() when setting/clearing host_ipi flag
- rxrpc: Fix possible NULL pointer access in ICMP handling
- tcp: annotate tp->rcv_nxt lockless reads
- net: core: limit nested device depth
- ath9k_htc: Modify byte order for an error message
- ath9k_htc: Discard undersized packets
- xfs: periodically yield scrub threads to the scheduler
- net: add annotations on hh->hh_len lockless accesses
- ubifs: ubifs_tnc_start_commit: Fix OOB in layout_in_gaps
- [s390x] smp: fix physical to logical CPU map for SMT
- xen/blkback: Avoid unmapping unmapped grant pages
- [x86] perf/x86/intel/bts: Fix the use of page_private()

- bpf: Fix passing modified ctx to ld/abs/ind instruction
- regulator: fix use after free issue
- ASoC: max98090: fix possible race conditions
- netfilter: ctnetlink: netns exit must wait for callbacks
- mwifiex: Fix heap overflow in mmwifiex_process_tdls_action_frame() (CVE-2019-14901)
- [x86] efi: Update e820 with reserved EFI boot services data to fix kexec breakage
- [x86] ASoC: Intel: bytcr_rt5640: Update quirk for Teclast X89
- efi/gop: Return EFI_NOT_FOUND if there are no usable GOPs

- efi/gop: Return EFI_SUCCESS if a usable GOP was found
- efi/gop: Fix memory leak in __gop_query32/64()
- netfilter: uapi: Avoid undefined left-shift in xt_sctp.h
- netfilter: nft_set_rbtree: bogus lookup/get on consecutive elements in named sets
- netfilter: nf_tables: validate NFT_SET_ELEM_INTERVAL_END
- netfilter: nf_tables: validate NFT_DATA_VALUE after nft_data_init()
- [arm64] spi: spi-cavium-thunderx: Add missing pci_release_regions()
- ASoC: topology: Check return value for soc_tplg_pcm_create()
- bnxt_en: Return error if FW returns more data than dump length
- [mips*] bpf, mips: Limit to 33 tail calls
- [armhf] spi: spi-ti-qspi: Fix a bug when accessing non default CS
- [powerpc*] Ensure that swiotlb buffer is allocated from low memory
- btrfs: Fix error messages in qgroup_rescan_init
- bpf: Clear skb->tstamp in bpf_redirect when necessary
- bnx2x: Do not handle requests from VFs after parity
- bnx2x: Fix logic to get total no. of PFs per engine
- cxgb4: Fix kernel panic while accessing sge info
- net: usb: lan78xx: Fix error message format specifier
- rfkill: Fix incorrect check to avoid NULL pointer dereference
- iommu/iova: Init the struct iova to fix the possible memleak
- [x86] perf/x86/intel: Fix PT PMI handling
- fs: avoid softlockups in s_inodes iterators
- [arm64,armhf] net: stmmac: Do not accept invalid MTU values
- [arm64,armhf] net: stmmac: xgmac: Clear previous RX buffer size
- [arm64,armhf] net: stmmac: RX buffer size must be 16 byte aligned
- [arm64,armhf] net: stmmac: Always arm TX Timer at end of transmission start
- [s390x] dasd/cio: Interpret ccw_device_get_mdc return value correctly
- [s390x] dasd: fix memleak in path handling error case
- block: fix memleak when __blk_rq_map_user_iov() is failed
- llc2: Fix return statement of llc_stat_ev_rx_null_dsap_xid_c (and _test_c)
- [x86] hv_netvsc: Fix unwanted rx_table reset
- [powerpc*] vcpu: Assume dedicated processors as non-preempt
- [powerpc*] spinlocks: Include correct header for static key
- [armhf] cpufreq: imx6q: read OCOTP through nvmem for imx6ul/imx6ull
- gtp: fix bad unlock balance in gtp_encap_enable_socket
- macvlan: do not assume mac header is set in macvlan broadcast()

- [arm64,armhf] net: dsa: mv88e6xxx: Preserve priority when setting CPU port.
- [arm64,armhf] net: stmmac: dwmac-sun8i: Allow all RGMII modes
- [arm64,armhf] net: stmmac: dwmac-sunxi: Allow all RGMII modes
- net: usb: lan78xx: fix possible skb leak
- pkt_sched: fq: do not accept silly TCA_FQ_QUANTUM
- sch_cake: avoid possible divide by zero in cake_enqueue()
- sctp: free cmd->obj.chunk for the unprocessed SCTP_CMD_REPLY
- tcp: fix "old stuff" D-SACK causing SACK to be treated as D-SACK
- vxlan: fix tos value before xmit
- vlan: fix memory leak in vlan_dev_set_egress_priority
- vlan: vlan_changelink() should propagate errors
- net: sch_prio: When ungrafting, replace with FIFO
- [arm64,armhf] usb: dwc3: gadget: Fix request complete check
- USB: core: fix check for duplicate endpoints
- USB: serial: option: add Telit ME910G1 0x110a composition
- usb: missing parentheses in USE_NEW_SCHEME

- chardev: Avoid potential use-after-free in 'chrdev open()'
- i2c: fix bus recovery stop mode timing
- [arm64,armhf] usb: chipidea: host: Disable port power only if previously enabled
- ALSA: usb-audio: Apply the sample rate quirk for Bose Companion 5
- ALSA: hda/realtek Add new codec supported for ALCS1200A
- ALSA: hda/realtek Set EAPD control to default for ALC222
- [x86] ALSA: hda/realtek Add quirk for the bass speaker on Lenovo Yoga X1 7th gen
- kernel/trace: Fix do not unregister tracepoints when register sched_migrate_task fail
- tracing: Have stack tracer compile when MCOUNT_INSN_SIZE is not defined
- tracing: Change offset type to s32 in preempt/irq tracepoints
- HID: Fix slab-out-of-bounds read in hid field extract
- HID: uhid: Fix returning EPOLLOUT from uhid_char_poll
- HID: hid-input: clear unmapped usages
- Input: add safety guards to input_set_keycode()
- [arm64,armhf] drm/sun4i: tcon: Set RGB DCLK min. divider based on hardware model
- drm/fb-helper: Round up bits_per_pixel if possible
- drm/dp_mst: correct the shifting in DP_REMOTE_I2C_READ
- can: kvaser_usb: fix interface sanity check
- can: gs_usb: gs_usb_probe(): use descriptors of current altsetting

- can: can_dropped_invalid_skb(): ensure an initialized headroom in outgoing CAN sk_buffs
- gpiolib: acpi: Turn dmi_system_id table into a generic quirk table
- gpiolib: acpi: Add honor_wakeup module-option + quirk mechanism
- [x86] staging: vt6656: set usb_set_intfdata on driver fail.
- USB: serial: option: add ZLP support for 0x1bc7/0x9010
- [arm64,armhf] usb: musb: fix idling for suspend after disconnect interrupt
- [arm64,armhf] usb: musb: Disable pullup at init
- [arm64,armhf] usb: musb: dma: Correct parameter passed to IRQ handler
- [x86] staging: comedi: adv_pci1710: fix AI channels 16-31 for PCI-1713
- staging: rtl8188eu: Add device code for TP-Link TL-WN727N v5.21
- serdev: Don't claim unsupported ACPI serial devices
- tty: link tty and port before configuring it as console
- tty: always relink the port
- mwifiex: fix possible heap overflow in mwifiex process country ie() (CVE-2019-14895)
- mwifiex: pcie: Fix memory leak in mwifiex_pcie_alloc_cmdrsp_buf (CVE-2019-19056)
- scsi: bfa: release allocated memory in case of error (CVE-2019-19066)
- rtl8xxxu: prevent leaking urb (CVE-2019-19068)
- ath10k: fix memory leak (CVE-2019-19078)
- HID: hiddev: fix mess in hiddev_open()
- USB: Fix: Don't skip endpoint descriptors with maxpacket=0
- netfilter: arp_tables: init netns pointer in xt_tgchk_param struct
- netfilter: conntrack: dccp, sctp: handle null timeout argument
- netfilter: ipset: avoid null deref when IPSET_ATTR_LINENO is present
- [x86] drm/i915/gen9: Clear residual context state on context switch (CVE-2019-14615)

- hidraw: Return EPOLLOUT from hidraw_poll
- HID: hidraw: Fix returning EPOLLOUT from hidraw_poll
- HID: hidraw, uhid: Always report EPOLLOUT
- cfg80211/mac80211: make ieee80211_send_layer2_update a public function
- mac80211: Do not send Layer 2 Update frame before authorization (CVE-2019-5108)
- f2fs: Move err variable to function scope in f2fs_fill_dentries()
- f2fs: check memory boundary by insane namelen
- f2fs: check if file namelen exceeds max value (CVE-2019-9445)
- media: usb:zr364xx:Fix KASAN:null-ptr-deref Read in zr364xx_vidioc_querycap (CVE-2019-15217)
- iwlwifi: dbg_ini: fix memory leak in alloc_sgtable (CVE-2019-19058)
- iwlwifi: pcie: fix memory leaks in iwl pcie ctxt info gen3 init (CVE-2019-19059)

- RDMA: Fix goto target to release the allocated memory (CVE-2019-19077)
- dccp: Fix memleak in __feat_register_sp (CVE-2019-20096)
- [x86] drm/i915: Fix use-after-free when destroying GEM context
- ASoC: soc-core: Set dpcm_playback / dpcm_capture
- [armhf] mtd: onenand: omap2: Pass correct flags for prep_dma_memcpy
- [arm64] gpio: zynq: Fix for bug in zynq_gpio_restore_context API
- iommu: Remove device link to group on failure
- gpio: Fix error message on out-of-range GPIO in lookup table
- [s390x] qeth: fix false reporting of VNIC CHAR config failure
- [s390x] qeth: Fix vnicc_is_in_use if rx_bcast not set
- cifs: Adjust indentation in smb2_open_file
- afs: Fix missing cell comparison in afs_test_super()
- drm/ttm: fix start page for huge page check in ttm_put_pages() (CVE-2019-19927)
- drm/ttm: fix incrementing the page pointer for huge pages (CVE-2019-19927)
- btrfs: simplify inode locking for RWF_NOWAIT
- RDMA/mlx5: Return proper error value
- RDMA/srpt: Report the SCSI residual to the initiator
- scsi: enclosure: Fix stale device oops with hot replug
- scsi: sd: Clear sdkp->protection_type if disk is reformatted without PI
- [x86] platform/x86: asus-wmi: Fix keyboard brightness cannot be set to 0
- [x86] platform/x86: GPD pocket fan: Use default values when wrong modparams are given
- xprtrdma: Fix completion wait during device removal
- crypto: virtio implement missing support for output IVs
- NFSv2: Fix a typo in encode_sattr()
- NFSv4.x: Drop the slot if nfs4_delegreturn_prepare waits for layoutreturn
- mei: fix modalias documentation
- [armhf] clk: samsung: exynos5420: Preserve CPU clocks configuration during suspend/resume
- [armhf] pinctl: ti: iodelay: fix error checking on pinctrl count index with args call
- [x86] pinctrl: lewisburg: Update pin list according to v1.1v6
- scsi: sd: enable compat ioctls for sed-opal
- af_unix: add compat_ioctl support
- compat_ioctl: handle SIOCOUTQNSD
- [arm64,armhf] PCI: dwc: Fix find_next_bit() usage
- PCI/PTM: Remove spurious "d" from granularity message
- [powerpc*] powerny: Disable native PCIe port management
- [armhf] tty: serial: imx: use the sg count from dma map sg

- [i386] tty: serial: pch_uart: correct usage of dma_unmap_sg
- mtd: spi-nor: fix silent truncation in spi_nor_read()
- mtd: spi-nor: fix silent truncation in spi_nor_read_raw()
- rtlwifi: Remove unnecessary NULL check in rtl_regd_init
- f2fs: fix potential overflow
- scsi: libcxgbi: fix NULL pointer dereference in cxgbi_device_destroy()
- [mips*] cacheinfo: report shared CPU map
- [arm64] drm/arm/mali: make malidp_mw_connector_helper_funcs static
- [arm64] dmaengine: k3dma: Avoid null pointer traversal
- [amd64] ioat: ioat_alloc_ring() failure handling.
- ocfs2: call journal flush to mark journal as empty after journal recovery when mount

- clk: Don't try to enable critical clocks if prepare failed
- iio: buffer: align the size of scan bytes to size of the largest element
- USB: serial: simple: Add Motorola Solutions TETRA MTP3xxx and MTP85xx
- USB: serial: option: Add support for Quectel RM500Q
- USB: serial: option: fix control-message timeouts
- USB: serial: option: add support for Quectel RM500Q in QDL mode
- USB: serial: suppress driver bind attributes
- USB: serial: ch341: handle unbound port at reset_resume
- USB: serial: io_edgeport: handle unbound ports on URB completion
- USB: serial: io_edgeport: add missing active-port sanity check
- USB: serial: keyspan: handle unbound ports
- USB: serial: quatech2: handle unbound ports
- [x86] scsi: fnic: fix invalid stack access
- scsi: mptfusion: Fix double fetch bug in ioctl
- [armhf] dts: imx6q-dhcom: Fix SGTL5000 VDDIO regulator connection
- ALSA: dice: fix fallback from protocol extension into limited functionality
- ALSA: seq: Fix racy access for queue timer in proc read
- ALSA: usb-audio: fix sync-ep altsetting sanity check
- [arm64] dts: allwinner: a64: olinuxino: Fix SDIO supply regulator
- block: fix an integer overflow in logical block size
- [armhf] dts: am571x-idk: Fix gpios property to have the correct gpio number
- LSM: generalize flag passing to security_capable
- ptrace: reintroduce usage of subjective credentials in ptrace has cap()
- usb: core: hub: Improved device recognition on remote wakeup

- [x86] resctrl: Fix an imbalance in domain_remove_cpu()
- [x86] CPU/AMD: Ensure clearing of SME/SEV features is maintained
- [amd64] x86/efistub: Disable paging at mixed mode entry
- [x86] resctrl: Fix potential memory leak
- perf hists: Fix variable name's inconsistency in hists for each() macro
- perf report: Fix incorrectly added dimensions as switch perf data file
- mm/shmem.c: thp, shmem: fix conflict of above-47bit hint address and PMD alignment
- mm: memcg/slab: call flush_memcg_workqueue() only if memcg workqueue is valid
- btrfs: rework arguments of btrfs_unlink_subvol
- btrfs: fix invalid removal of root ref
- btrfs: do not delete mismatched root refs
- btrfs: fix memory leak in agroup accounting
- mm/page-writeback.c: avoid potential division by zero in wb_min_max_ratio()
- [armhf] dts: imx6qdl: Add Engicam i.Core 1.5 MX6
- [armhf] dts: imx6q-icore-mipi: Use 1.5 version of i.Core MX6DL
- [arm64,armhf] net: stmmac: 16KB buffer must be 16 byte aligned
- [arm64,armhf] net: stmmac: Enable 16KB buffer size
- mm/huge_memory.c: make __thp_get_unmapped_area static
- mm/huge_memory.c: thp: fix conflict of above-47bit hint address and PMD alignment
- bpf: Fix incorrect verifier simulation of ARSH under ALU32
- cfg80211: fix deadlocks in autodisconnect work
- cfg80211: fix memory leak in cfg80211_cqm_rssi_update
- cfg80211: fix page refcount issue in A-MSDU decap
- netfilter: fix a use-after-free in mtype_destroy()
- netfilter: arp_tables: init netns pointer in xt_tgdtor_param struct
- netfilter: nft tunnel: fix null-attribute check
- netfilter: nf_tables: remove WARN and add NLA_STRING upper limits
- netfilter: nf tables: store transaction list locally while requesting module
- netfilter: nf_tables: fix flowtable list del corruption
- NFC: pn533: fix bulk-message timeout
- batman-adv: Fix DAT candidate selection on little endian systems
- macvlan: use skb_reset_mac_header() in macvlan_queue_xmit()
- [x86] hv_netvsc: Fix memory leak when removing rndis device
- [arm64] net: hns: fix soft lockup when there is not enough memory
- net: usb: lan78xx: limit size of local TSO packets
- ptp: free ptp device pin descriptors properly

- r8152: add missing endpoint sanity check
- tcp: fix marked lost packets not being retransmitted
- xen/blkfront: Adjust indentation in xlvbd_alloc_gendisk
- tcp: refine rule to allow EPOLLOUT generation under mem pressure
- [arm64] dts: meson-gxl-s905x-khadas-vim: fix gpio-keys-polled node
- cfg80211: check for set wiphy params
- tick/sched: Annotate lockless access to last_jiffies_update
- drm/nouveau/bar/nv50: check bar1 vmm return value
- drm/nouveau/bar/gf100: ensure BAR is mapped
- drm/nouveau/mmu: qualify vmm during dtor
- reiserfs: fix handling of -EOPNOTSUPP in reiserfs_for_each_xattr
- scsi: esas2r: unlock on error in esas2r_nvram_read_direct()
- scsi: qla4xxx: fix double free bug
- scsi: bnx2i: fix potential use after free
- scsi: target: core: Fix a pr_debug() argument
- scsi: qla2xxx: Fix qla2x00_request_irqs() for MSI
- scsi: qla2xxx: fix rports not being mark as lost in sync fabric scan
- scsi: core: scsi_trace: Use get_unaligned_be*()
- perf probe: Fix wrong address verification

Joe Richey

• [cloud-amd64] tpm: Enable TPM drivers for Cloud (Closes: #946237)

Salvatore Bonaccorso

- Refresh powerpc-fix-mcpu-options-for-spe-only-compiler.patch (Context changes in 4.19.88)
- Drop 0027-RDMA-hns-Fix-the-bug-with-updating-rq-head-pointer-w.patch
- Drop 0028-RDMA-hns-Bugfix-for-the-scene-without-receiver-queue.patch
- [rt] Refresh 0199-net-move-xmit_recursion-to-per-task-variable-on-RT.patch (Context changes in 4.19.88)
- [rt] Update to 4.19.90-rt35:
 - Update "workqueue: rework" for workqueue changes in 4.19.90
- [rt] Drop 0245-Revert-arm64-preempt-Fix-big-endian-when-checking-pr.patch
- Refresh 0013-scsi-hisi_sas-Relocate-some-codes-to-avoid-an-unused.patch for context changes in 4.19.93.
- [rt] Refresh 0253-watchdog-prevent-deferral-of-watchdogd-wakeup-on-RT.patch (Context changes in 4.19.93)
- [rt] Refresh 0199-net-move-xmit_recursion-to-per-task-variable-on-RT.patch (Context changes in 4.19.97)

Ben Hutchings

- [rt] Update to 4.19.94-rt38:
 - Refresh "x86/ioapic: Don't let setaffinity unmask threaded EOI interrupt too early" which was partly included in 4.19.92

- aufs: Update support patchset to aufs4.19.63+ 20200113; no functional changes
- Bump ABI to 8
- libertas: Fix two buffer overflows at parsing bss descriptor (CVE-2019-14896, CVE-2019-14897)
- wimax: i2400: fix memory leak (CVE-2019-19051)
- wimax: i2400: Fix memory leak in i2400m op rfkill sw toggle (CVE-2019-19051)
- [amd64/cloud-amd64] hwrandom: Enable HW RANDOM VIRTIO (Closes: #914511)

Noah Meyerhans

• random: try to actively add entropy rather than passively wait for it (Closes: #948519)

Aurelien Jarno

• [mips*/malta] Enable POWER_RESET_PIIX4_POWEROFF.

3.14.2 4.19.87-1 - 03. December 2019

- New upstream stable update: https://www.kernel.org/pub/linux/kernel/v4.x/ChangeLog-4.19.68
 - seq_file: fix problem when seeking mid-record
 - mm/hmm: fix bad subpage pointer in try_to_unmap_one
 - mm: mempolicy: make the behavior consistent when MPOL_MF_MOVE* and MPOL_MF_STRICT were specified
 - mm: mempolicy: handle vma with unmovable pages mapped correctly in mbind
 - mm/memcontrol.c: fix use after free in mem_cgroup_iter()
 - mm/usercopy: use memory range to be accessed for wraparound check
 - Revert "pwm: Set class for exported channels in sysfs"
 - cpufreq: schedutil: Don't skip freq update when limits change
 - [x86] ALSA: hda/realtek Add quirk for HP Envy x360
 - ALSA: hda Apply workaround for another AMD chip 1022:1487
 - ALSA: hda Fix a memory leak bug
 - ALSA: hda Add a generic reboot_notify
 - ALSA: hda Let all conexant codec enter D3 when rebooting
 - HID: holtek: test for sanity of intfdata
 - HID: hiddev: avoid opening a disconnected device
 - HID: hiddev: do cleanup in failure of opening a device
 - Input: kbtab sanity check for endpoint type
 - Input: iforce add sanity checks
 - net: usb: pegasus: fix improper read if get_registers() fail
 - netfilter: ebtables: also count base chain policies
 - xen/pciback: remove set but not used variable 'old_state'
 - [armhf,arm64] irqchip/gic-v3-its: Free unused vpt_page when alloc vpe table fail

- perf header: Fix divide by zero error if f_header.attr_size==0
- perf header: Fix use of unitialized value warning
- libata: zpodd: Fix small read overflow in zpodd_get_mech_type()
- Btrfs: fix deadlock between fiemap and transaction commits
- scsi: hpsa: correct scsi command status issue after reset
- scsi: qla2xxx: Fix possible fcport null-pointer dereferences
- drm/amdgpu: fix a potential information leaking bug
- ata: libahci: do not complain in case of deferred probe
- kbuild: modpost: handle KBUILD_EXTRA_SYMBOLS only for external modules
- [arm64] efi: fix variable 'si' set but not used
- [arm64] unwind: Prohibit probing on return_address()
- [arm64] mm: fix variable 'pud' set but not used
- IB/core: Add mitigation for Spectre V1
- IB/mlx5: Fix MR registration flow to use UMR properly
- IB/mad: Fix use-after-free in ib mad completion handling
- [arm64] drm: msm: Fix add_gpu_components
- [armhf] drm/exynos: fix missing decrement of retry counter
- ocfs2: remove set but not used variable 'last hash'
- asm-generic: fix -Wtype-limits compiler warnings
- [arm64] KVM: regmap: Fix unexpected switch fall-through
- [armhf,arm64] KVM: Sync ICH_VMCR_EL2 back when about to block
- [x86] staging: comedi: dt3000: Fix signed integer overflow 'divider * base'
- [x86] staging: comedi: dt3000: Fix rounding up of timer divisor
- USB: core: Fix races in character device registration and deregistration
- usb: cdc-acm: make sure a refcount is taken early enough
- USB: CDC: fix sanity checks in CDC union parser
- USB: serial: option: add D-Link DWM-222 device ID
- USB: serial: option: Add support for ZTE MF871A
- USB: serial: option: add the BroadMobi BM818 card
- USB: serial: option: Add Motorola modem UARTs
- [x86] drm/i915/cfl: Add a new CFL PCI ID.
- [arm64] ftrace: Ensure module ftrace trampoline is coherent with I-side
- Input: psmouse fix build error of multiple definition
- bnx2x: Fix VF's VLAN reconfiguration in reload.
- bonding: Add vlan tx offload to hw_enc_features
- net: dsa: Check existence of .port mdb add callback before calling it

- net/mlx4_en: fix a memory leak bug
- net/packet: fix race in tpacket_snd()
- sctp: fix memleak in sctp_send_reset_streams
- sctp: fix the transport error_count check
- team: Add vlan tx offload to hw enc features
- tipc: initialise addr trail end when setting node addresses
- xen/netback: Reset nr_frags before freeing skb
- net/mlx5e: Only support tx/rx pause setting for port owner
- net/mlx5e: Use flow keys dissector to parse packets for ARFS
- [arm64] mmc: sdhci-of-arasan: Do now show error message in case of deffered probe

- HID: Add 044f:b320 ThrustMaster, Inc. 2 in 1 DT
- [mips*] kernel: only use i8253 clocksource with periodic clockevent
- [mips*] fix cacheinfo
- netfilter: ebtables: fix a memory leak bug in compat
- ASoC: dapm: Fix handling of custom_stop_condition on DAPM graph walks
- bonding: Force slave speed check after link state recovery for 802.3ad
- [armhf,arm64] net: mvpp2: Don't check for 3 consecutive Idle frames for 10G links
- can: dev: call netif_carrier_off() in register_candev()
- can: gw: Fix error path of cgw_module_init
- [armhf,arm64] ASoC: rockchip: Fix mono capture
- [armhf] ASoC: ti: davinci-mcasp: Correct slot_width posed constraint
- net: usb: qmi_wwan: Add the BroadMobi BM818 card
- qed: RDMA Fix the hw_ver returned in device attributes
- isdn: mISDN: hfcsusb: Fix possible null-pointer dereferences in start isoc chain()
- mac80211_hwsim: Fix possible null-pointer dereferences in hwsim_dump_radio_nl()
- netfilter: ipset: Actually allow destination MAC address for hash:ip,mac sets too
- netfilter: ipset: Copy the right MAC address in bitmap:ip,mac and hash:ip,mac sets
- netfilter: ipset: Fix rename concurrency with listing
- rxrpc: Fix potential deadlock
- rxrpc: Fix the lack of notification when sendmsg() fails on a DATA packet
- isdn: hfcsusb: Fix mISDN driver crash caused by transfer buffer on the stack
- net: phy: phy_led_triggers: Fix a possible null-pointer dereference in phy_led_trigger_change_speed()
- can: sja1000: force the string buffer NULL-terminated
- can: peak_usb: force the string buffer NULL-terminated
- net/ethernet/glogic/qed: force the string buffer NULL-terminated

- NFSv4: Fix a potential sleep while atomic in nfs4_do_reclaim()
- NFS: Fix regression whereby fscache errors are appearing on 'nofsc' mounts
- HID: quirks: Set the INCREMENT_USAGE_ON_DUPLICATE quirk on Saitek X52
- HID: input: fix a4tech horizontal wheel custom usage
- [armhf,arm64] drm/rockchip: Suspend DP late
- SMB3: Fix potential memory leak when processing compound chain
- SMB3: Kernel oops mounting a encryptData share with CONFIG_DEBUG_VIRTUAL
- [s390x] put _stext and _etext into .text section
- net: cxgb3_main: Fix a resource leak in a error path in 'init_one()'
- [armhf,arm64] net: stmmac: Fix issues when number of Queues >= 4
- [armhf,arm64] net: stmmac: tc: Do not return a fragment entry
- [arm64] net: hisilicon: make hip04_tx_reclaim non-reentrant
- [arm64] net: hisilicon: fix hip04-xmit never return TX_BUSY
- [arm64] net: hisilicon: Fix dma_map_single failed on arm64
- libata: have ata_scsi_rw_xlat() fail invalid passthrough requests
- libata: add SG safety checks in SFF pio transfers
- [x86] lib/cpu: Address missing prototypes warning
- [x86] drm/vmwgfx: fix memory leak when too many retries have occurred
- block, bfq: handle NULL return value by bfq_init_rq()
- perf ftrace: Fix failure to set cpumask when only one cpu is present
- perf cpumap: Fix writing to illegal memory in handling cpumap mask
- perf pmu-events: Fix missing "cpu_clk_unhalted.core" event
- [arm64] KVM: Don't write junk to sysregs on reset
- [armhf] KVM: Don't write junk to CP15 registers on reset
- HID: wacom: correct misreported EKR ring values
- HID: wacom: Correct distance scale for 2nd-gen Intuos devices
- Revert "dm bufio: fix deadlock with loop device" (regression in 4.19.61)
- ceph: clear page dirty before invalidate page
- ceph: don't try fill file_lock on unsuccessful GETFILELOCK reply
- libceph: fix PG split vs OSD (re)connect race
- drm/nouveau: Don't retry infinitely when receiving no data on i2c over AUX
- gpiolib: never report open-drain/source lines as 'input' to user-space
- [x86] Drivers: hv: vmbus: Fix virt_to_hvpfn() for X86_PAE
- userfaultfd_release: always remove uffd flags and clear vm_userfaultfd_ctx
- [i386] retpoline: Don't clobber RFLAGS during CALL_NOSPEC on i386
- [x86] apic: Handle missing global clockevent gracefully

- [x86] CPU/AMD: Clear RDRAND CPUID bit on AMD family 15h/16h
- [x86] boot: Save fields explicitly, zero out everything else
- [x86] boot: Fix boot regression caused by bootparam sanitizing
- dm kcopyd: always complete failed jobs
- dm btree: fix order of block initialization in btree split beneath
- dm integrity: fix a crash due to BUG_ON in __journal_read_write()
- dm raid: add missing cleanup in raid_ctr()
- dm space map metadata: fix missing store of apply_bops() return value
- dm table: fix invalid memory accesses with too high sector number
- dm zoned: improve error handling in reclaim
- dm zoned: improve error handling in i/o map code
- dm zoned: properly handle backing device failure
- genirq: Properly pair kobject_del() with kobject_add()
- mm, page_owner: handle THP splits correctly
- mm/zsmalloc.c: migration can leave pages in ZS_EMPTY indefinitely
- mm/zsmalloc.c: fix race condition in zs_destroy_pool
- xfs: don't trip over uninitialized buffer on extent read of corrupted inode
- xfs: Move fs/xfs/xfs_attr.h to fs/xfs/libxfs/xfs_attr.h
- xfs: Add helper function xfs_attr_try_sf_addname
- xfs: Add attibute set and helper functions
- xfs: Add attibute remove and helper functions
- xfs: always rejoin held resources during defer roll
- dm zoned: fix potential NULL dereference in dmz_do_reclaim()
- [ppc64el] Allow flush_(inval_)dcache_range to work across ranges >4GB
- rxrpc: Fix local endpoint refcounting
- rxrpc: Fix read-after-free in rxrpc_queue_local()
- rxrpc: Fix local endpoint replacement
- rxrpc: Fix local refcounting

- nvme-multipath: revalidate nvme_ns_head gendisk in nvme_validate_ns
- afs: Fix the CB.ProbeUuid service handler to reply correctly
- afs: Fix loop index mixup in afs_deliver_vl_get_entry_by_name_u()
- fs: afs: Fix a possible null-pointer dereference in afs_put_read()
- afs: Only update d_fsdata if different in afs_d_revalidate()
- nvmet-loop: Flush nvme_delete_wq when removing the port
- nvme: fix a possible deadlock when passthru commands sent to a multipath device

- nvme-pci: Fix async probe remove race
- [armhf] omap-dma/omap_vout_vrfb: fix off-by-one fi value
- iommu/dma: Handle SG length overflow better
- usb: gadget: composite: Clear "suspended" on reset/disconnect
- usb: gadget: mass storage: Fix races between fsg disable and fsg set alt
- xen/blkback: fix memory leaks
- [arm64] cpufeature: Don't treat granule sizes as strict
- drm/ast: Fixed reboot test may cause system hanged
- [x86] tools: hv: fix KVP and VSS daemons exit code
- [x86] drm/i915: fix broadwell EU computation
- [arm*] watchdog: bcm2835_wdt: Fix module autoload
- scsi: ufs: Fix RX_TERMINATION_FORCE_ENABLE define value
- [armhf] drm/tilcdc: Register cpufreq notifier after we have initialized crtc
- ipv6/addrconf: allow adding multicast addr if IFA F MCAUTOJOIN is set
- ipv6: Default fib6_type to RTN_UNICAST when not set
- net/smc: make sure EPOLLOUT is raised
- tcp: make sure EPOLLOUT wont be missed
- ipv4/icmp: fix rt dst dev null pointer dereference
- mm/zsmalloc.c: fix build when CONFIG_COMPACTION=n
- ALSA: usb-audio: Check mixer unit bitmap yet more strictly
- ALSA: line6: Fix memory leak at line6_init_pcm() error path
- ALSA: hda Fixes inverted Conexant GPIO mic mute led
- ALSA: seq: Fix potential concurrent access to the deleted pool
- ALSA: usb-audio: Fix invalid NULL check in snd_emuusb_set_samplerate()
- ALSA: usb-audio: Add implicit fb quirk for Behringer UFX1604
- [x86] kvm: skip populating logical dest map if apic is not sw enabled
- [x86] KVM: Don't update RIP or do single-step on faulting emulation
- [amd64] uprobes: Fix detection of 32-bit user mode
- [x86] apic: Do not initialize LDR and DFR for bigsmp
- ftrace: Fix NULL pointer dereference in t_probe_next()
- ftrace: Check for successful allocation of hash
- ftrace: Check for empty hash and comment the race with registering probes
- usb-storage: Add new JMS567 revision to unusual_devs
- USB: cdc-wdm: fix race between write and disconnect due to flag abuse
- usb: hcd: use managed device resources
- [armhf,arm64] usb: chipidea: udc: don't do hardware access if gadget has stopped

- usb: host: ohci: fix a race condition between shutdown and irg
- usb: host: xhci: rcar: Fix typo in compatible string matching
- USB: storage: ums-realtek: Update module parameter description for auto_delink_en
- USB: storage: ums-realtek: Whitelist auto-delink support
- [x86] mei: me: add Tiger Lake point LP device ID
- mmc: core: Fix init of SD cards reporting an invalid VDD range
- stm class: Fix a double free of stm_source_device
- [x86] intel_th: pci: Add support for another Lewisburg PCH
- [x86] intel_th: pci: Add Tiger Lake support
- [x86] typec: tcpm: fix a typo in the comparison of pdo_max_voltage
- lib: logic_pio: Fix RCU usage
- lib: logic_pio: Avoid possible overlap for unregistering regions
- lib: logic_pio: Add logic_pio_unregister_range()
- [x86] drm/amdgpu: Add APTX quirk for Dell Latitude 5495
- [x86] drm/i915: Don't deballoon unused ggtt drm_mm_node in linux guest
- [x86] drm/i915: Call dma_set_max_seg_size() in i915_driver_hw_probe()
- [arm64] bus: hisi_lpc: Unregister logical PIO range to avoid potential use-after-free
- [arm64] bus: hisi_lpc: Add .remove method to avoid driver unbind crash
- [x86] VMCI: Release resource if the work is already queued
- [x86] crypto: ccp Ignore unconfigured CCP device on suspend/resume
- Revert "cfg80211: fix processing world regdomain when non modular"
- mac80211: fix possible sta leak
- mac80211: Don't memset RXCB prior to PAE intercept
- mac80211: Correctly set noencrypt for PAE frames
- [ppc64el] KVM: Book3S: Fix incorrect guest-to-user-translation error handling
- [armhf,arm64] KVM: vgic: Fix potential deadlock when ap_list is long
- [armhf,arm64] KVM: vgic-v2: Handle SGI bits in GICD_I{S,C}PENDR0 as WI
- NFS: Clean up list moves of struct nfs page
- NFSv4/pnfs: Fix a page lock leak in nfs_pageio_resend()
- NFS: Pass error information to the pgio error cleanup routine
- NFS: Ensure O_DIRECT reports an error if the bytes read/written is 0
- [x86] i2c: piix4: Fix port selection for AMD Family 16h Model 30h
- mt76: mt76x0u: do not reset radio on resume

- Revert "Input: elantech - enable SMBus on new (2018+) systems" (regression in 4.19.67)

- mld: fix memory leak in mld_del_delrec()
- net: fix skb use after free in netpoll
- net: sched: act_sample: fix psample group handling on overwrite
- net_sched: fix a NULL pointer deref in ipt action
- [armhf,arm64] net: stmmac: dwmac-rk: Don't fail if phy regulator is absent
- tcp: inherit timestamp on mtu probe
- tcp: remove empty skb from write queue in error cases
- net/rds: Fix info leak in rds6_inc_info_copy() (CVE-2019-16714)
- [x86] boot: Preserve boot_params.secure_boot from sanitizing
- [arm*] spi: bcm2835aux: unifying code between polling and interrupt driven code
- [arm*] spi: bcm2835aux: remove dangerous uncontrolled read of fifo
- [arm*] spi: bcm2835aux: fix corruptions for longer spi transfers
- netfilter: nf_tables: use-after-free in failing rule with bound set
- [x86] hv netvsc: Fix a warning of suspicious RCU usage
- Bluetooth: btqca: Add a short delay before downloading the NVM
- [ppc64el] ibmveth: Convert multicast list size for little-endian system
- gpio: Fix build error of function redefinition
- netfilter: nft_flow_offload: skip tcp rst and fin packets
- scsi: qla2xxx: Fix gnl.l memory leak on adapter init failure
- scsi: target: tcmu: avoid use-after-free after command timeout
- cxgb4: fix a memory leak bug
- liquidio: add cleanup in octeon_setup_iq()
- net: myri10ge: fix memory leaks
- lan78xx: Fix memory leaks
- vfs: fix page locking deadlocks when deduping files
- cx82310_eth: fix a memory leak bug
- net: kalmia: fix memory leaks
- net: cavium: fix driver name
- wimax/i2400m: fix a memory leak bug
- kprobes: Fix potential deadlock in kprobe_optimizer()
- HID: cp2112: prevent sleeping function called from invalid context
- [amd64] boot/compressed: Fix boot on machines with broken E820 table
- [x86] Input: hyperv-keyboard: Use in-place iterator API in the channel callback
- [x86] Tools: hv: kvp: eliminate 'may be used uninitialized' warning
- nvme-multipath: fix possible I/O hang when paths are updated
- IB/mlx4: Fix memory leaks

- infiniband: hfi1: fix a memory leak bug
- infiniband: hfi1: fix memory leaks
- ceph: fix buffer free while holding i_ceph_lock in __ceph_setxattr()
- ceph: fix buffer free while holding i_ceph_lock in __ceph_build_xattrs_blob()
- ceph: fix buffer free while holding i ceph lock in fill inode()
- [armhf,arm64] KVM: Only skip MMIO insn once
- afs: Fix leak in afs_lookup_cell_rcu()
- [armhf,arm64] KVM: VGIC: Properly initialise private IRQ affinity
- [amd64] boot/compressed: Fix missing initialization in find_trampoline_placement()
- libceph: allow ceph_buffer_put() to receive a NULL ceph_buffer

- ALSA: hda Fix potential endless loop at applying quirks
- ALSA: hda/realtek Fix overridden device-specific initialization
- [x86] ALSA: hda/realtek Add quirk for HP Pavilion 15
- [x86] ALSA: hda/realtek Enable internal speaker & headset mic of ASUS UX431FL
- [x86] ALSA: hda/realtek Fix the problem of two front mics on a ThinkCentre
- sched/fair: Don't assign runtime for throttled cfs rq
- [x86] drm/vmwgfx: Fix double free in vmw_recv_msg()
- [ppc64el] tm: Fix FP/VMX unavailable exceptions inside a transaction (CVE-2019-15030)
- batman-adv: fix uninit-value in batadv_netlink_get_ifindex()
- batman-adv: Only read OGM tvlv_len after buffer len check
- [x86] hv_sock: Fix hang when a connection is closed
- Blk-iolatency: warn on negative inflight IO counter
- blk-iolatency: fix STS_AGAIN handling
- {nl,mac}80211: fix interface combinations on crypto controlled devices
- timekeeping: Use proper ktime_add when adding nsecs in coarse offset
- selftests: fib_rule_tests: use pre-defined DEV_ADDR
- [x86] ftrace: Fix warning and considate ftrace_jmp_replace() and ftrace_call_replace()
- [ppc64el] mark start_here_multiplatform as __ref
- [arm64] dts: rockchip: enable usb-host regulators at boot on rk3328-rock64
- nvme-fc: use separate work queue to avoid warning
- [armhf] clk: s2mps11: Add used attribute to s2mps11_dt_match
- [arm64] remoteproc: qcom: q6v5: shore up resource probe handling
- modules: always page-align module section allocations
- kernel/module: Fix mem leak in module_add_modinfo_attrs
- [x86] drm/i915: Re-apply "Perform link quality check, unconditionally during long pulse"

- scsi: qla2xxx: Move log messages before issuing command to firmware
- keys: Fix the use of the C++ keyword "private" in uapi/linux/keyctl.h
- [x86] Drivers: hv: kvp: Fix two "this statement may fall through" warnings
- [x86] hibernate: Fix nosave_regions setup for hibernation
- [arm64] remoteproc: qcom: q6v5-mss: add SCM probe dependency
- drm/amdgpu/gfx9: Update gfx9 golden settings.
- drm/amdgpu: Update gc_9_0 golden settings.
- [x86] KVM: hyperv: enforce vp_index < KVM_MAX_VCPUS
- [x86] KVM: hyperv: consistently use 'hv_vcpu' for 'struct kvm_vcpu_hv' variables
- [x86] KVM: hyperv: keep track of mismatched VP indexes
- [x86] KVM: hyperv: define VP assist page helpers
- [x86] kvm/lapic: preserve gfn_to_hva_cache len on cache reinit
- [x86] drm/i915: Fix intel_dp_mst_best_encoder()
- [x86] drm/i915: Rename PLANE CTL DECOMPRESSION ENABLE
- [x86] drm/i915/gen9+: Fix initial readout for Y tiled framebuffers
- drm/atomic_helper: Disallow new modesets on unregistered connectors
- [x86] Drivers: hv: kvp: Fix the recent regression caused by incorrect clean-up
- powerplay: Respect units on max dcfclk watermark
- drm/amd/pp: Fix truncated clock value when set watermark
- drm/amd/dm: Understand why attaching path/tile properties are needed
- [s390x] zcrypt: reinit ap queue state machine during device probe
- [x86] drm/i915: Restore sane defaults for KMS on GEM error load
- [x86] drm/i915: Cleanup gt powerstate from gem
- [ppc64el] KVM: Book3S HV: Fix race between kvm_unmap_hva_range and MMU mode switch
- Btrfs: clean up scrub is_dev_replace parameter
- Btrfs: fix deadlock with memory reclaim during scrub
- btrfs: Remove extent_io_ops::fill_delalloc
- btrfs: Fix error handling in btrfs cleanup ordered extents
- scsi: megaraid_sas: Fix combined reply queue mode detection
- scsi: megaraid_sas: Add check for reset adapter bit
- scsi: megaraid_sas: Use 63-bit DMA addressing
- [ppc64el] pkeys: Fix handling of pkey state across fork()
- btrfs: volumes: Make sure no dev extent is beyond device boundary
- btrfs: Use real device structure to verify dev extent
- IB/uverbs: Fix OOPs upon device disassociation
- drm/vblank: Allow dynamic per-crtc max vblank count

- [x86] drm/i915/ilk: Fix warning when reading emon_status with no output
- tpm: Fix some name collisions with drivers/char/tpm.h
- bcache: replace hard coded number with BUCKET_GC_GEN_MAX
- bcache: treat stale && dirty keys as bad keys
- [x86] KVM: VMX: Compare only a single byte for VMCS' "launched" in vCPU-run
- [armhf] iio: adc: exynos-adc: Add S5PV210 variant
- [armhf] iio: adc: exynos-adc: Use proper number of channels for Exynos4x12
- mt76: fix corrupted software generated tx CCMP PN
- drm/nouveau: Don't WARN_ON VCPI allocation failures
- iwlwifi: fix devices with PCI Device ID 0x34F0 and 11ac RF modules
- iwlwifi: add new card for 9260 series
- spi: spi-gpio: fix SPI_CS_HIGH capability
- [ppc64el] kvm: Save and restore host AMR/IAMR/UAMOR
- btrfs: scrub: pass fs_info to scrub_setup_ctx
- btrfs: scrub: move scrub_setup_ctx allocation out of device_list_mutex
- btrfs: scrub: fix circular locking dependency warning
- btrfs: init csum_list before possible free
- [arm64] PCI: qcom: Fix error handling in runtime PM support
- [arm64] PCI: qcom: Don't deassert reset GPIO during probe
- CIFS: Fix error paths in writeback code
- CIFS: Fix leaking locked VFS cache pages in writeback retry
- [x86] drm/i915: Handle vm_mmap error during I915_GEM_MMAP ioctl with WC set
- [x86] drm/i915: Sanity check mmap length against object size
- [x86] usb: typec: tcpm: Try PD-2.0 if sink does not respond to 3.0 source-caps
- IB/mlx5: Reset access mask when looping inside page fault handler
- kvm: mmu: Fix overflow on kvm mmu page limit calculation
- [x86] kvm: move kvm_load/put_guest_xcr0 into atomic context
- [x86] KVM: Always use 32-bit SMRAM save state for 32-bit kernels
- cifs: Fix lease buffer length error (CVE-2019-15918)
- ext4: protect journal inode's blocks using block_validity
- [x86] PCI: Reset Lenovo ThinkPad P50 nvgpu at boot if necessary
- dm mpath: fix missing call of path selector type->end_io
- blk-mq: free hw queue's resource in hctx's release handler
- mmc: sdhci-pci: Add support for Intel CML
- PCI: dwc: Use devm pci alloc host bridge() to simplify code
- cifs: smbd: take an array of requests when sending upper layer data

- dm crypt: move detailed message into debug level
- [x86] drm/amdkfd: Add missing Polaris10 ID
- kvm: Check irqchip mode before assign irqfd
- drm/amdgpu: fix ring test failure issue during s3 in vce 3.0 (V2)
- drm/amdgpu/{uvd,vcn}: fetch ring's read ptr after alloc
- Btrfs: fix race between block group removal and block group allocation
- cifs: add spinlock for the openFileList to cifsInodeInfo
- [arm64] clk: tegra: Fix maximum audio sync clock for Tegra124/210
- [arm64] clk: tegra210: Fix default rates for HDA clocks
- IB/hfi1: Avoid hardlockup with flushlist_lock
- apparmor: reset pos on failure to unpack for various functions
- scsi: target/core: Use the SECTOR_SHIFT constant
- scsi: target/iblock: Fix overrun in WRITE SAME emulation
- [s390x] scsi: zfcp: fix request object use-after-free in send path causing wrong traces
- cifs: Properly handle auto disabling of serverino option
- [x86] ALSA: hda Don't resume forcibly i915 HDMI/DP codec
- [x86] KVM: optimize check for valid PAT value
- [x86] KVM: VMX: Always signal #GP on WRMSR to MSR_IA32_CR_PAT with bad value
- [x86] KVM: VMX: Fix handling of #MC that occurs during VM-Entry
- [x86] KVM: VMX: check CPUID before allowing read/write of IA32_XSS
- [ppc64el] KVM: Use ccr field in pt_regs struct embedded in vcpu struct
- [ppc64el] KVM: Book3S HV: Fix CR0 setting in TM emulation
- RDMA/srp: Document srp_parse_in() arguments
- RDMA/srp: Accept again source addresses that do not have a port number
- btrfs: correctly validate compression type
- resource: Include resource end in walk_*() interfaces
- resource: Fix find_next_iomem_res() iteration issue
- resource: fix locking in find next iomem res()
- pstore: Fix double-free in pstore_mkfile() failure path
- dm thin metadata: check if in fail_io mode when setting needs_check
- [armhf,arm64] drm/panel: Add support for Armadeus ST0700 Adapt
- [x86] ALSA: hda Fix intermittent CORB/RIRB stall on Intel chips
- [ppc64el] mm: Limit rma_size to 1TB when running without HV mode
- iommu/iova: Remove stale cached32_node
- gpio: don't WARN() on NULL descs if gpiolib is disabled
- mm/migrate.c: initialize pud entry in migrate vma()

- NFSv4: Fix delegation state recovery
- bcache: only clear BTREE_NODE_dirty bit when it is set
- bcache: add comments for mutex_lock(&b->write_lock)
- bcache: fix race in btree_flush_write()
- [x86] drm/i915: Make sure cdclk is high enough for DP audio on VLV/CHV
- [s390x] virtio: fix race on airq areas[]
- drm/atomic_helper: Allow DPMS On<->Off changes for unregistered connectors
- ext4: don't perform block validity checks on the journal inode
- ext4: fix block validity checks for journal inodes using indirect blocks
- ext4: unsigned int compared against zero
- [x86] PCI: Reset both NVIDIA GPU and HDA in ThinkPad P50 workaround
- [ppc64el] tm: Remove msr_tm_active()
- [ppc64el] tm: Fix restoring FP/VMX facility incorrectly on interrupts (CVE-2019-15031)

- bridge/mdb: remove wrong use of NLM_F_MULTI
- cdc_ether: fix rndis support for Mediatek based smartphones
- ipv6: Fix the link time qualifier of 'ping v6 proc exit net()'
- isdn/capi: check message length in capi_write()
- net: Fix null de-reference of device refcount
- net: gso: Fix skb_segment splat when splitting gso_size mangled skb having linear-headed frag_list
- net: phylink: Fix flow control resolution
- net: sched: fix reordering issues
- sch_hhf: ensure quantum and hhf_non_hh_weight are non-zero
- sctp: Fix the link time qualifier of 'sctp_ctrlsock_exit()'
- sctp: use transport pf_retrans in sctp_do_8_2_transport_strike
- tcp: fix tcp_ecn_withdraw_cwr() to clear TCP_ECN_QUEUE_CWR
- tipc: add NULL pointer check before calling kfree_rcu
- tun: fix use-after-free when register netdev failed
- gpiolib: acpi: Add gpiolib_acpi_run_edge_events_on_boot option and blacklist
- gpio: fix line flag validation in linehandle_create
- Btrfs: fix assertion failure during fsync and use of stale transaction
- ixgbe: Prevent u8 wrapping of ITR value to something less than 10us
- genirq: Prevent NULL pointer dereference in resend_irqs()
- [s390x] KVM: kvm_s390_vm_start_migration: check dirty_bitmap before using it as target for memset()
- [s390x] KVM: Do not leak kernel stack data in the KVM_S390_INTERRUPT ioctl
- [x86] KVM: work around leak of uninitialized stack contents

- [x86] KVM: nVMX: handle page fault in vmread
- [x86] purgatory: Change compiler flags from -mcmodel=kernel to -mcmodel=large to fix kexec relocation errors
- [ppc64el] Add barrier_nospec to raw_copy_in_user()
- [arm64] drm/meson: Add support for XBGR8888 & ABGR8888 formats
- [armhf,arm64] clk: rockchip: Don't yell about bad mmc phases when getting
- PCI: Always allow probing with driver_override
- gpio: fix line flag validation in lineevent_create
- ubifs: Correctly use tnc_next() in search_dh_cookie()
- driver core: Fix use-after-free and double free on glue directory
- firmware: ti_sci: Always request response from firmware
- [x86] drm: panel-orientation-quirks: Add extra quirk table entry for GPD MicroPC
- Revert "Bluetooth: btusb: driver to enable the usb-wakeup feature"
- modules: fix BUG when load module with rodata=n
- rsi: fix a double free bug in rsi_91x_deinit() (CVE-2019-15504)
- nvmem: Use the same permissions for eeprom as for nvmem

- netfilter: nf flow table: set default timeout after successful insertion
- HID: wacom: generic: read HID_DG_CONTACTMAX from any feature report
- RDMA/restrack: Release task struct which was hold by CM_ID object
- [x86] Input: elan_i2c remove Lenovo Legion Y7000 PnpID
- [ppc64el] mm/radix: Use the right page size for vmemmap mapping
- USB: usbcore: Fix slab-out-of-bounds bug during device reset
- media: tm6000: double free if usb disconnect while streaming
- ip6_gre: fix a dst leak in ip6erspan_tunnel_xmit
- udp: correct reuseport selection with connected sockets
- xen-netfront: do not assume sk_buff_head list is empty in error handling
- net sched: let qdisc put() accept NULL pointer
- mwifiex: Fix three heap overflow at parsing element in cfg80211_ap_settings (CVE-2019-14814, CVE-2019-14815, CVE-2019-14816)
- nl80211: Fix possible Spectre-v1 for CQM RSSI thresholds
- ieee802154: hwsim: Fix error handle path in hwsim_init_module
- ieee802154: hwsim: unregister hw while hwsim_subscribe_all_others fails
- [armhf] dts: am57xx: Disable voltage switching for SD card
- [armhf] OMAP2+: Fix missing SYSC_HAS_RESET_STATUS for dra7 epwmss
- [armhf] bus: ti-sysc: Fix using configured sysc mask value
- [s390x] bpf: fix lcgr instruction encoding

- [armhf] OMAP2+: Fix omap4 errata warning on other SoCs
- [armhf] dts: dra74x: Fix iodelay configuration for mmc3
- [armhf] bus: ti-sysc: Simplify cleanup upon failures in sysc_probe()
- [s390x] bpf: use 32-bit index for tail calls
- netfilter: ebtables: Fix argument order to ADD COUNTER
- netfilter: nft_flow_offload: missing netlink attribute policy
- netfilter: xt_nfacct: Fix alignment mismatch in xt_nfacct_match_info
- NFSv4: Fix return values for nfs4_file_open()
- NFSv4: Fix return value in nfs_finish_open()
- NFS: Fix initialisation of I/O result struct in nfs_pgio_rpcsetup
- xdp: unpin xdp umem pages in error path
- qed: Add cleanup in qed_slowpath_start()
- [armel,armhf] 8874/1: mm: only adjust sections of valid mm structures
- batman-adv: Only read OGM2 tvlv_len after buffer len check
- bpf: allow narrow loads of some sk_reuseport_md fields with offset > 0
- r8152: Set memory to all 0xFFs on failed reg reads
- [x86] apic: Fix arch dynirg lower bound() bug for DT enabled machines
- netfilter: xt_physdev: Fix spurious error message in physdev_mt_check
- netfilter: nf_conntrack_ftp: Fix debug output
- NFSv2: Fix eof handling
- NFSv2: Fix write regression
- kallsyms: Don't let kallsyms_lookup_size_offset() fail on retrieving the first symbol
- cifs: set domainName when a domain-key is used in multiuser
- cifs: Use kzfree() to zero out the password
- [armhf,arm64] usb: host: xhci-tegra: Set DMA mask correctly
- [armel,armhf] 8901/1: add a criteria for pfn_valid of arm
- sky2: Disable MSI on yet another ASUS boards (P6Xxxx)
- i2c: designware: Synchronize IRQs when unregistering slave client
- [x86] perf/intel: Restrict period on Nehalem
- [x86] perf/amd/ibs: Fix sample bias for dispatched micro-ops
- amd-xgbe: Fix error path in xgbe_mod_init()
- [x86] tools/power x86_energy_perf_policy: Fix argument parsing
- [x86] tools/power turbostat: fix buffer overrun
- net: aquantia: fix out of memory condition on rx side
- [armhf] dmaengine: ti: omap-dma: Add cleanup in omap_dma_probe()
- [x86] uaccess: Don't leak the AC flags into __get_user() argument evaluation

- [x86] hyper-v: Fix overflow bug in fill_gva_list()
- keys: Fix missing null pointer check in request_key_auth_describe()
- [x86] iommu/amd: Flush old domains in kdump kernel
- [x86] iommu/amd: Fix race in increase_address_space()
- [arm64] PCI: kirin: Fix section mismatch warning
- ovl: fix regression caused by overlapping layers detection
- floppy: fix usercopy direction
- binfmt_elf: move brk out of mmap when doing direct loader exec
- [arm64] kpti: Whitelist Cortex-A CPUs that don't implement the CSV3 field
- media: technisat-usb2: break out of loop at end of buffer (CVE-2019-15505)

- Revert "Bluetooth: validate BLE connection interval updates"
- RDMA/restrack: Protect from reentry to resource return path
- [ppc64el] xive: Fix bogus error code returned by OPAL
- IB/core: Add an unbound WQ type to the new CQ API
- HID: prodikeys: Fix general protection fault during probe
- HID: sony: Fix memory corruption issue on cleanup.
- HID: logitech: Fix general protection fault caused by Logitech driver
- HID: hidraw: Fix invalid read in hidraw_ioctl
- HID: Add quirk for HP X500 PIXART OEM mouse
- mtd: cfi_cmdset_0002: Use chip_good() to retry in do_write_oneword()
- CIFS: fix deadlock in cached root handling
- net/mlx5e: Set ECN for received packets using CQE indication
- net/mlx5e: don't set CHECKSUM_COMPLETE on SCTP packets
- mlx5: fix get ip proto()
- net/mlx5e: Allow reporting of checksum unnecessary
- net/mlx5e: XDP, Avoid checksum complete when XDP prog is loaded
- net/mlx5e: Rx, Fixup skb checksum for packets with tail padding
- net/mlx5e: Rx, Check ip headers sanity
- iwlwifi: mvm: send BCAST management frames to the right station
- iwlwifi: mvm: always init rs_fw with 20MHz bandwidth rates
- media: tvp5150: fix switch exit in set control handler
- [x86] ASoC: Intel: cht_bsw_max98090_ti: Enable codec clock once and keep it enabled
- ALSA: usb-audio: Add Hiby device family to quirks for native DSD support
- ALSA: usb-audio: Add DSD support for EVGA NU Audio
- ALSA: dice: fix wrong packet parameter for Alesis iO26

- [x86] ALSA: hda Add laptop imic fixup for ASUS M9V laptop
- [x86] ALSA: hda Apply AMD controller workaround for Raven platform
- objtool: Clobber user CFLAGS variable
- power: supply: sysfs: ratelimit property read error message
- scsi: qla2xxx: Turn off IOCB timeout timer on IOCB completion
- scsi: qla2xxx: Remove all rports if fabric scan retry fails
- scsi: qla2xxx: Return switch command on a timeout
- Revert "drm/amd/powerplay: Enable/Disable NBPSTATE on On/OFF of UVD"
- bpf: libbpf: retry loading program on EAGAIN
- [armhf,arm64] irqchip/gic-v3-its: Fix LPI release for Multi-MSI devices
- f2fs: check all the data segments against all node ones
- [x86] PCI: hv: Avoid use of hv_pci_dev->pci_slot after freeing it
- bcache: remove redundant LIST_HEAD(journal) from run_cache_set()
- initramfs: don't free a non-existent initrd
- blk-mq: change gfp flags to GFP_NOIO in blk_mq_realloc_hw_ctxs
- blk-mq: move cancel of requeue_work to the front of blk_exit_queue
- Revert "f2fs: avoid out-of-range memory access"
- dm zoned: fix invalid memory access
- f2fs: fix to do sanity check on segment bitmap of LFS curseg
- drm: Flush output polling on shutdown
- net: don't warn in inet diag when IPV6 is disabled
- Bluetooth: btrtl: HCI reset on close for Realtek BT chip
- [x86] ACPI: video: Add new hw_changes_brightness quirk, set it on PB Easynote MZ35
- drm/nouveau/disp/nv50-: fix center/aspect-corrected scaling
- xfs: don't crash on null attr fork xfs_bmapi_read
- netfilter: nft_socket: fix erroneous socket assignment
- Bluetooth: btrtl: Additional Realtek 8822CE Bluetooth devices
- net sched: check cops->tcf block in tc bind tclass()
- net/rds: An rds_sock is added too early to the hash table
- net/rds: Check laddr_check before calling it
- f2fs: use generic EFSBADCRC/EFSCORRUPTED

- arcnet: provide a buffer big enough to actually receive packets
- cdc_ncm: fix divide-by-zero caused by invalid wMaxPacketSize
- macsec: drop skb sk before calling gro_cells_receive
- net/phy: fix DP83865 10 Mbps HDX loopback disable function

- net/sched: act_sample: don't push mac header on ip6gre ingress
- net_sched: add max len check for TCA_KIND
- nfp: flower: fix memory leak in nfp_flower_spawn_vnic_reprs (CVE-2019-19081)
- openvswitch: change type of UPCALL_PID attribute to NLA_UNSPEC
- ppp: Fix memory leak in ppp_write
- sch netem: fix a divide by zero in tabledist()
- skge: fix checksum byte order
- usbnet: ignore endpoints with invalid wMaxPacketSize
- usbnet: sanity checking of packet sizes and device mtu
- net: sched: fix possible crash in tcf_action_destroy()
- tcp: better handle TCP_USER_TIMEOUT in SYN_SENT state
- net/mlx5: Add device ID of upcoming BlueField-2
- mISDN: enforce CAP_NET_RAW for raw sockets (CVE-2019-17055)
- appletalk: enforce CAP NET RAW for raw sockets (CVE-2019-17054)
- ax25: enforce CAP_NET_RAW for raw sockets (CVE-2019-17052)
- ieee802154: enforce CAP_NET_RAW for raw sockets (CVE-2019-17053)
- nfc: enforce CAP NET RAW for raw sockets (CVE-2019-17056)
- nfp: flower: prevent memory leak in nfp_flower_spawn_phy_reprs (CVE-2019-19080)
- ALSA: hda: Flush interrupts on disabling
- [armhf] ASoC: sgtl5000: Fix of unmute outputs on probe
- [armhf] ASoC: sgtl5000: Fix charge pump source assignment
- [arm*] dmaengine: bcm2835: Print error in case setting DMA mask fails
- media: dib0700: fix link error for dibx000_i2c_set_speed
- media: hdpvr: Add device num check and handling
- time/tick-broadcast: Fix tick_broadcast_offline() lockdep complaint
- sched/fair: Fix imbalance due to CPU affinity
- sched/core: Fix CPU controller for !RT_GROUP_SCHED
- [x86] apic: Make apic pending intr clear() more robust
- sched/deadline: Fix bandwidth accounting at all levels after offline migration
- [x86] reboot: Always use NMI fallback when shutdown via reboot vector IPI fails
- [x86] apic: Soft disable APIC before initializing it
- ALSA: hda Show the fatal CORB/RIRB error more clearly
- ALSA: i2c: ak4xxx-adda: Fix a possible null pointer dereference in build_adc_controls()
- EDAC/mc: Fix grain_bits calculation
- media: iguanair: add sanity checks
- base: soc: Export soc device register/unregister APIs

- ALSA: usb-audio: Skip bSynchAddress endpoint check if it is invalid
- [arm64] prefetch: fix a -Wtype-limits warning
- md/raid1: end bio when the device faulty
- md: don't call spare_active in md_reap_sync_thread if all member devices can't work
- md: don't set In sync if array is frozen
- ACPI / processor: don't print errors for processorIDs == 0xff
- loop: Add LOOP_SET_DIRECT_IO to compat ioctl
- [x86] EDAC, pnd2: Fix ioremap() size in dnv_rd_reg()
- efi: cper: print AER info of PCIe fatal error
- sched/fair: Use rq_lock/unlock in online_fair_sched_group
- idle: Prevent late-arriving interrupts from disrupting offline
- media: gspca: zero usb_buf on error
- perf config: Honour \$PERF_CONFIG env var to specify alternate .perfconfig
- perf test vfs_getname: Disable ~/.perfconfig to get default output
- media: em28xx: modules workqueue not inited for 2nd device
- media: rc: imon: Allow iMON RC protocol for ffdc 7e device
- [arm64] perf record: Support aarch64 random socket id assignment
- [armhf] media: omap3isp: Don't set streaming state on random subdevs
- media: radio/si470x: kill urb on error
- media: hdpvr: add terminating 0 at end of string
- led: triggers: Fix a memory leak bug
- nbd: add missing config put
- media: mceusb: fix (eliminate) TX IR signal length limit
- media: dvb-frontends: use ida for pll number
- posix-cpu-timers: Sanitize bogus WARNONS
- media: dvb-core: fix a memory leak bug
- libperf: Fix alignment trap with xyarray contents in 'perf stat'
- [amd64] EDAC/amd64: Recognize DRAM device type ECC capability
- [amd64] EDAC/amd64: Decode syndrome before translating address
- PM / devfreq: passive: Use non-devm notifiers
- PM / devfreq: exynos-bus: Correct clock enable sequence
- media: cec-notifier: clear cec_adap in cec_notifier_unregister
- media: saa7146: add cleanup in hexium_attach()
- media: cpia2_usb: fix memory leaks
- media: saa7134: fix terminology around saa7134_i2c_eeprom_md7134_gate()
- perf trace beauty ioctl: Fix off-by-one error in cmd->string table

- [x86] ASoC: es8316: fix headphone mixer volume table
- ACPI / CPPC: do not require the _PSD method
- sched/cpufreq: Align trace event behavior of fast switching
- [x86] apic/vector: Warn when vector space exhaustion breaks affinity
- [arm64] kpti: ensure patched kernel text is fetched from PoU
- [x86] mm/pti: Do not invoke PTI functions when PTI is disabled
- [x86] mm/pti: Handle unaligned address gracefully in pti_clone_pagetable()
- nvmet: fix data units read and written counters in SMART log
- nvme-multipath: fix ana log nsid lookup when nsid is not found
- ALSA: firewire-motu: add support for MOTU 4pre
- iommu/amd: Silence warnings under memory pressure
- libata/ahci: Drop PCS quirk for Denverton and beyond
- iommu/iova: Avoid false sharing on fq_timer_on
- libtraceevent: Change users plugin directory
- [armhf] dts: exynos: Mark LDO10 as always-on on Peach Pit/Pi Chromebooks
- ACPI: custom_method: fix memory leaks
- ACPI / PCI: fix acpi_pci_irq_enable() memory leak
- closures: fix a race on wakeup from closure_sync
- hwmon: (acpi_power_meter) Change log level for 'unsafe software power cap'
- md/raid1: fail run raid1 array when active disk less than one
- dmaengine: ti: edma: Do not reset reserved paRAM slots
- kprobes: Prohibit probing on BUG() and WARN() address
- [s390x] crypto: xts-aes-s390 fix extra run-time crypto self tests finding
- [x86] cpu: Add Tiger Lake to Intel family
- [x86] platform: intel_pmc_core: Do not ioremap RAM
- ASoC: dmaengine: Make the pcm->name equal to pcm->id if the name is not set
- raid5: don't set STRIPE_HANDLE to stripe which is in batch list
- mmc: core: Clarify sdio irq pending flag for MMC CAP2 SDIO IRQ NOTHREAD
- mmc: sdhci: Fix incorrect switch to HS mode
- mmc: core: Add helper function to indicate if SDIO IRQs is enabled
- [armhf,arm64] mmc: dw_mmc: Re-store SDIO IRQs mask at system resume
- raid5: don't increment read_errors on EILSEQ return
- libertas: Add missing sentinel at end of if_usb.c fw_table
- e1000e: add workaround for possible stalled packet
- ALSA: hda Drop unsol event handler for Intel HDMI codecs
- drm/amd/powerplay/smu7: enforce minimal VBITimeout (v2)

- media: ttusb-dec: Fix info-leak in ttusb_dec_send_command()
- [x86] ALSA: hda/realtek Blacklist PC beep for Lenovo ThinkCentre M73/93
- [x86] iommu/amd: Override wrong IVRS IOAPIC on Raven Ridge systems
- btrfs: extent-tree: Make sure we only allocate extents from block groups with the same type
- [armhf] media: omap3isp: Set device on omap3isp subdevs
- PM / devfreq: passive: fix compiler warning
- iwlwifi: fw: don't send GEO_TX_POWER_LIMIT command to FW version 36
- ALSA: firewire-tascam: handle error code when getting current source of clock
- ALSA: firewire-tascam: check intermediate state of clock status and retry
- scsi: scsi_dh_rdac: zero cdb in send_mode_select()
- scsi: qla2xxx: Fix Relogin to prevent modifying scan_state flag
- printk: Do not lose last line in kmsg buffer dump
- IB/mlx5: Free mpi in mp_slave mode
- IB/hfi1: Define variables as unsigned long to fix KASAN warning
- randstruct: Check member structs in is_pure_ops_struct()
- ceph: use ceph_evict_inode to cleanup inode's resource
- [x86] ALSA: hda/realtek PCI quirk for Medion E4254
- blk-mq: add callback of .cleanup_rq
- scsi: implement .cleanup_rq callback
- [ppc64el] imc: Dont create debugfs files for cpu-less nodes
- fuse: fix missing unlock_page in fuse_writepage()
- [x86] KVM: always stop emulation on page fault
- [x86] KVM: set ctxt->have_exception in x86_decode_insn()
- [x86] KVM: Manually calculate reserved bits when loading PDPTRS
- [x86] media: sn9c20x: Add MSI MS-1039 laptop to flip dmi table
- media: don't drop front-end reference count for ->detach
- binfmt_elf: Do not move brk for INTERP-less ET_EXEC
- [x86] ASoC: Intel: NHLT: Fix debug print format
- [x86] ASoC: Intel: Skylake: Use correct function to access iomem space
- [x86] ASoC: Intel: Fix use of potentially uninitialized variable
- [arm64] Revert "arm64: Remove unnecessary ISBs from set_{pte,pmd,pud}"
- [arm64] tlb: Ensure we execute an ISB following walk cache invalidation
- [arm64] dts: rockchip: limit clock rate of MMC controllers for RK3328
- alarmtimer: Use EOPNOTSUPP instead of ENOTSUPP
- regulator: Defer init completion for a while after late init call
- efifb: BGRT: Improve efifb bgrt sanity check

- gfs2: clear buf_in_tr when ending a transaction in sweep_bh_for_rgrps
- memcg, oom: don't require __GFP_FS when invoking memcg OOM killer
- memcg, kmem: do not fail __GFP_NOFAIL charges
- i40e: check __I40E_VF_DISABLE bit in i40e_sync_filters_subtask
- block: fix null pointer dereference in blk mg rg timed out()
- smb3: allow disabling requesting leases
- ovl: Fix dereferencing possible ERR_PTR()
- ovl: filter of trusted xattr results in audit
- btrfs: fix allocation of free space cache v1 bitmap pages
- Btrfs: fix use-after-free when using the tree modification log
- btrfs: Relinquish CPUs in btrfs_compare_trees
- btrfs: qgroup: Fix the wrong target io_tree when freeing reserved data space
- btrfs: qgroup: Fix reserved data space leak if we have multiple reserve calls
- Btrfs: fix race setting up and completing qgroup rescan workers
- md/raid6: Set R5_ReadError when there is read failure on parity disk
- md: don't report active array_state until after revalidate_disk() completes.
- md: only call set in sync() when it is expected to succeed.
- cfg80211: Purge frame registrations on iftype change
- /dev/mem: Bail out upon SIGKILL.
- ext4: fix warning inside ext4_convert_unwritten_extents_endio
- ext4: fix punch hole for inline_data file systems
- quota: fix wrong condition in is_quota_modification()
- hwrng: core don't wait on add_early_randomness()
- CIFS: fix max ea value size
- CIFS: Fix oplock handling for SMB 2.1+ protocols
- md/raid0: avoid RAID0 data corruption due to layout confusion.
- fuse: fix deadlock with aio poll and fuse_iqueue::waitq.lock
- mm/compaction.c: clear total {migrate,free} scanned before scanning a new zone
- drm/amd/display: Restore backlight brightness after system resume

- tpm: use tpm_try_get_ops() in tpm-sysfs.c.
- tpm: Fix TPM 1.2 Shutdown sequence to prevent future TPM operations
- [armhf,arm64] drm/panel: simple: fix AUO g185han01 horizontal blanking
- [armhf,arm64] drm/panel: check failure cases in the probe func
- [armhf,arm64] drm/rockchip: Check for fast link training before enabling psr
- gpu: drm: radeon: Fix a possible null-pointer dereference in radeon connector set property()

- [ppc64el] PCI: rpaphp: Avoid a sometimes-uninitialized warning
- ipmi_si: Only schedule continuously in the thread in maintenance mode
- [armhf,arm64] clk: sunxi-ng: v3s: add missing clock slices for MMC2 module clocks
- drm/amd/display: fix issue where 252-255 values are clipped
- drm/amd/display: reprogram VM config when system resume
- [ppc64el] powerny/ioda2: Allocate TCE table levels on demand for default DMA window
- [ppc64el] xmon: Check for HV mode when dumping XIVE info from OPAL
- [ppc64el] rtas: use device model APIs and serialization during LPM
- [ppc64el] futex: Fix warning: 'oldval' may be used uninitialized in this function
- [ppc64el] pseries/mobility: use cond_resched when updating device tree
- [armhf,arm64] pinctrl: tegra: Fix write barrier placement in pmx_writel
- [ppc64el] eeh: Clear stale EEH_DEV_NO_HANDLER flag
- vfio_pci: Restore original state on release
- drm/nouveau/volt: Fix for some cards having 0 maximum voltage
- [x86] pinctrl: amd: disable spurious-firing GPIO IRQs
- drm/amd/display: support spdif
- drm/amdgpu/si: fix ASIC tests
- [ppc64el] exception: machine check use correct cfar for late handler
- pstore: fs superblock limits
- [ppc64el] pseries: correctly track irq state in default idle
- [arm64] pinctrl: meson-gxbb: Fix wrong pinning definition for uart_c
- [ppc64el] dump kernel log before carrying out fadump or kdump
- [arm64] mbox: qcom: add APCS child device for QCS404
- scsi: core: Reduce memory required for SCSI logging
- dma-buf/sw_sync: Synchronize signal vs syncpt free
- ext4: fix potential use after free after remounting with noblock_validity
- [mips*] tlbex: Explicitly cast _PAGE_NO_EXEC to a boolean
- [x86] i2c-cht-wc: Fix lockdep warning
- [x86] mfd: intel-lpss: Remove D3cold delay
- HID: wacom: Fix several minor compiler warnings
- [armel,armhf] 8898/1: mm: Don't treat faults reported from cache maintenance as writes
- [armhf] rtc: snvs: fix possible race condition
- HID: apple: Fix stuck function keys when using FN
- [arm64] PCI: rockchip: Propagate errors for optional regulators
- [armhf] PCI: imx6: Propagate errors for optional regulators
- [armel,armhf] 8903/1: ensure that usable memory in bank 0 starts from a PMD-aligned address

- fat: work around race with userspace's read via blockdev while mounting
- pktcdvd: remove warning on attempting to register non-passthrough dev
- [s390x] hypfs: Fix error number left in struct pointer member
- ocfs2: wait for recovering done after direct unlock request
- [arm64] consider stack randomization for mmap base only when necessary
- [mips*] properly account for stack randomization and stack guard gap
- [armel,armhf] properly account for stack randomization and stack guard gap
- [armel,armhf] use STACK_TOP when computing mmap base address
- block: mq-deadline: Fix queue restart handling
- bpf: fix use after free in prog symbol exposure
- cxgb4:Fix out-of-bounds MSI-X info array access
- erspan: remove the incorrect mtu limit for erspan
- hso: fix NULL-deref on tty open
- ipv6: drop incoming packets having a v4mapped source address
- ipv6: Handle missing host route in __ipv6_ifa_notify
- net: ipv4: avoid mixed n_redirects and rate_tokens usage
- net: qlogic: Fix memory leak in ql_alloc_large_buffers
- net: Unpublish sk from sk_reuseport_cb before call_rcu
- nfc: fix memory leak in llcp_sock_bind()
- qmi_wwan: add support for Cinterion CLS8 devices
- rxrpc: Fix rxrpc_recvmsg tracepoint
- sch_dsmark: fix potential NULL deref in dsmark_init()
- udp: fix gso_segs calculations
- vsock: Fix a lockdep warning in __vsock_release()
- udp: only do GSO if # of segs > 1
- net/rds: Fix error handling in rds_ib_add_one()
- xen-netfront: do not use ~0U as error return value for xennet_fill_frags()
- tipc: fix unlimited bundling of small messages
- sch_cbq: validate TCA_CBQ_WRROPT to avoid crash
- NFC: fix attrs checks in netlink interface
- kexec: bail out upon SIGKILL when allocating memory.
- 9p/cache.c: Fix memory leak in v9fs_cache_session_get_cookie

- [s390x] process: avoid potential reading of freed stack
- [s390x] KVM: Test for bad access register and size at the start of S390_MEM_OP
- [s390x] topology: avoid firing events before kobjs are created

- [s390x] cio: exclude subchannels with no parent from pseudo check
- [ppc64el] KVM: Book3S HV: Fix race in re-enabling XIVE escalation interrupts
- [ppc64el] KVM: Book3S HV: Check for MMU ready on piggybacked virtual cores
- [ppc64el] KVM: Book3S HV: Don't lose pending doorbell request on migration on P9
- [x86] KVM: Fix userspace set invalid CR4
- [x86] KVM: nVMX: handle page fault in vmread fix
- nbd: fix max number of supported devs
- PM / devfreq: tegra: Fix kHz to Hz conversion
- ASoC: Define a set of DAPM pre/post-up events
- [armhf] ASoC: sgtl5000: Improve VAG power and mute control
- [ppc64el] mce: Fix MCE handling for huge pages
- [ppc64el] mce: Schedule work from irq_work
- [ppc64el] powernv: Restrict OPAL symbol map to only be readable by root
- [ppc64el] powernv/ioda: Fix race in TCE level allocation
- [ppc64el] book3s64/mm: Don't do tlbie fixup for some hardware revisions
- tools lib traceevent: Fix "robust" test of do_generate_dynamic_list_file
- [x86] crypto: qat Silence smp_processor_id() warning
- crypto: skcipher Unmap pages after an external error
- [mips*el/loongson-3] Treat Loongson Extensions as ASEs
- power: supply: sbs-battery: use correct flags field
- power: supply: sbs-battery: only return health when battery present
- tracing: Make sure variable reference alias has correct var_ref_idx
- usercopy: Avoid HIGHMEM pfn warning
- timer: Read jiffies once when forwarding base clk
- [x86] PCI: vmd: Fix shadow offsets to reflect spec changes
- PCI: Restore Resizable BAR size bits correctly for 1MB BARs
- [armhf] watchdog: imx2_wdt: fix min() calculation in imx2_wdt_set_timeout
- perf stat: Fix a segmentation fault when using repeat forever
- [armhf] drm/omap: fix max fclk divider for omap36xx
- [arm64] drm/msm/dsi: Fix return value check for clk_get_parent
- drm/nouveau/kms/nv50-: Don't create MSTMs for eDP connectors
- [x86] drm/i915/gvt: update vgpu workload head pointer correctly
- mmc: sdhci: improve ADMA error reporting
- Revert "locking/pvqspinlock: Don't wait if vCPU is preempted"
- xen/xenbus: fix self-deadlock after killing user process
- ieee802154: atusb: fix use-after-free at disconnect

- [s390x] cio: avoid calling strlen on null pointer
- cfg80211: initialize on-stack chandefs
- [arm64] cpufeature: Detect SSBS and advertise to userspace
- ima: always return negative code for error
- ima: fix freeing ongoing ahash request
- fs: nfs: Fix possible null-pointer dereferences in encode attrs()
- 9p: Transport error uninitialized
- 9p: avoid attaching writeback_fid on mmap with type PRIVATE
- xen/pci: reserve MCFG areas earlier
- ceph: fix directories inode i_blkbits initialization
- ceph: reconnect connection if session hang in opening state
- watchdog: aspeed: Add support for AST2600
- netfilter: nf_tables: allow lookups in dynamic sets
- drm/amdgpu: Fix KFD-related kernel oops on Hawaii
- drm/amdgpu: Check for valid number of registers to read
- pNFS: Ensure we do clear the return-on-close layout stateid on fatal errors
- [x86] purgatory: Disable the stackleak GCC plugin for the purgatory
- ntb: point to right memory window index
- thermal: Fix use-after-free when unregistering thermal zone device
- thermal hwmon: Sanitize thermal zone type
- libnvdimm/region: Initialize bad block for volatile namespaces
- fuse: fix memleak in cuse_channel_open
- libnvdimm/nfit_test: Fix acpi_handle redefinition
- sched/membarrier: Call sync_core only before usermode for same mm
- sched/membarrier: Fix private expedited registration check
- sched/core: Fix migration to invalid CPU in __set_cpus_allowed_ptr()
- kernel/elfcore.c: include proper prototypes
- nfp: flower: fix memory leak in nfp flower spawn vnic reprs
- drm/radeon: Bail earlier when radeon.cik_/si_support=0 is passed
- [ppc64el] KVM: HV: XIVE: Free escalation interrupts before disabling the VP
- [x86] KVM: nVMX: Fix consistency check on injected exception error code
- nbd: fix crash when the blksize is zero
- [ppc64el] pseries: Fix cpu_hotplug_lock acquisition in resize_hpt()
- [ppc64el] radix: Rename CPU_FTR_P9_TLBIE_BUG feature flag
- tools lib traceevent: Do not free tep->cmdlines in add_new_comm() on failure
- tick: broadcast-hrtimer: Fix a race in bc set next

- perf tools: Fix segfault in cpu_cache_level__read()
- perf stat: Reset previous counts on repeat with interval
- [arm64] ssbd: Add support for PSTATE.SSBS rather than trapping to EL3
- [arm64] KVM: Set SCTLR_EL2.DSSBS if SSBD is forcefully disabled and !vhe
- [arm64] docs: Document SSBS HWCAP
- [arm64] fix SSBS sanitization
- [arm64] Add sysfs vulnerability show for spectre-v1
- [arm64] add sysfs vulnerability show for meltdown
- [arm64] enable generic CPU vulnerabilites support
- [arm64] Always enable ssb vulnerability detection
- [arm64] Provide a command line to disable spectre_v2 mitigation
- [arm64] Advertise mitigation of Spectre-v2, or lack thereof
- [arm64] Always enable spectre-v2 vulnerability detection
- [arm64] add sysfs vulnerability show for spectre-v2
- [arm64] add sysfs vulnerability show for speculative store bypass
- [arm64] ssbs: Don't treat CPUs with SSBS as unaffected by SSB
- [arm64] Force SSBS on context switch
- [arm64] Use firmware to detect CPUs that are not affected by Spectre-v2
- [arm64] speculation: Support 'mitigations=' cmdline option
- vfs: Fix EOVERFLOW testing in put_compat_statfs64
- cfg80211: add and use strongly typed element iteration macros
- cfg80211: Use const more consistently in for_each_element macros
- nl80211: validate beacon head (CVE-2019-16746)

- panic: ensure preemption is disabled during panic()
- f2fs: use EINVAL for superblock with invalid magic
- USB: rio500: Remove Rio 500 kernel driver
- USB: yurex: Don't retry on unexpected errors
- USB: yurex: fix NULL-derefs on disconnect
- USB: usb-skeleton: fix runtime PM after driver unbind
- USB: usb-skeleton: fix NULL-deref on disconnect
- xhci: Fix false warning message about wrong bounce buffer write length
- xhci: Prevent device initiated U1/U2 link pm if exit latency is too long
- xhci: Check all endpoints for LPM timeout
- xhci: Fix USB 3.1 capability detection on early xHCI 1.1 spec based hosts
- usb: xhci: wait for CNR controller not ready bit in xhci resume

- xhci: Prevent deadlock when xhci adapter breaks during init
- xhci: Increase STS_SAVE timeout in xhci_suspend()
- USB: adutux: fix use-after-free on disconnect
- USB: adutux: fix NULL-derefs on disconnect
- USB: adutux: fix use-after-free on release
- USB: iowarrior: fix use-after-free on disconnect
- USB: iowarrior: fix use-after-free on release
- USB: iowarrior: fix use-after-free after driver unbind
- USB: usblp: fix runtime PM after driver unbind
- USB: chaoskey: fix use-after-free on release
- USB: Idusb: fix NULL-derefs on driver unbind
- serial: uartlite: fix exit path null pointer
- USB: serial: keyspan: fix NULL-derefs on open() and write()
- USB: serial: ftdi_sio: add device IDs for Sienna and Echelon PL-20
- USB: serial: option: add Telit FN980 compositions
- USB: serial: option: add support for Cinterion CLS8 devices
- USB: serial: fix runtime PM after driver unbind
- USB: usblcd: fix I/O after disconnect
- USB: microtek: fix info-leak at probe
- USB: dummy-hcd: fix power budget for SuperSpeed mode
- USB: legousbtower: fix slab info leak at probe
- USB: legousbtower: fix deadlock on disconnect
- USB: legousbtower: fix potential NULL-deref on disconnect
- USB: legousbtower: fix open after failed reset request
- USB: legousbtower: fix use-after-free on release
- [x86] mei: me: add comet point (lake) LP device ids
- [x86] mei: avoid FW version request on Ibex Peak and earlier
- [armhf,arm64] iio: adc: axp288: Override TS pin bias current for some models
- efivar/ssdt: Don't iterate over EFI vars if no SSDT override was specified
- perf llvm: Don't access out-of-scope array
- perf inject jit: Fix JIT_CODE_MOVE filename
- blk-wbt: fix performance regression in wbt scale_up/scale_down
- CIFS: Gracefully handle QueryInfo errors during open
- CIFS: Force revalidate inode when dentry is stale
- CIFS: Force reval dentry if LOOKUP_REVAL flag is set
- kernel/sysctl.c: do not override max_threads provided by userspace

- mm/vmpressure.c: fix a signedness bug in vmpressure_register_event()
- gpiolib: don't clear FLAG_IS_OUT when emulating open-drain/open-source
- cifs: use cifsInodeInfo->open_file_lock while iterating to avoid a panic
- btrfs: fix incorrect updating of log root tree
- btrfs: fix uninitialized ret in ref-verify
- NFS: Fix O_DIRECT accounting of number of bytes read/written
- [mips*] elf_hwcap: Export userspace ASEs
- ACPICA: ACPI 6.3: PPTT add additional fields in Processor Structure Flags
- ACPI/PPTT: Add support for ACPI 6.3 thread flag
- [arm64] topology: Use PPTT to determine if PE is a thread
- vfs: Fix the locking in dcache_readdir() and friends
- media: stkwebcam: fix runtime PM after driver unbind
- [arm64] sve: Fix wrong free for task->thread.sve_state
- [rt] tracing/hwlat: Report total time spent in all NMIs during the sample
- [rt] tracing/hwlat: Don't ignore outer-loop duration when calculating max_latency
- ftrace: Get a reference counter for the trace_array on filter files
- tracing: Get trace_array reference for available_tracers files
- hwmon: Fix HWMON_P_MIN_ALARM mask
- [x86] asm: Fix MWAITX C-state hint value
- [x86] PCI: vmd: Fix config addressing when using bus offsets
- perf/hw_breakpoint: Fix arch_hw_breakpoint use-before-initialization

- nvme-pci: Fix a race in controller removal
- scsi: ufs: skip shutdown if hba is not powered
- scsi: megaraid: disable device when probe failed after enabled device
- scsi: qla2xxx: Fix unbound sleep in fcport delete path.
- [armhf] OMAP2+: Fix missing reset done flag for am3 and am43
- [armhf] OMAP2+: Fix warnings with broken omap2 set init voltage()
- xen/efi: Set nonblocking callbacks
- nl80211: fix null pointer dereference
- mac80211: fix txq null pointer dereference
- netfilter: nft_connlimit: disable bh on garbage collection
- [mips*el/loongson-3] Fix the link time qualifier of 'serial_exit()'
- [arm64] net: hisilicon: Fix usage of uninitialized variable in function mdio_sc_cfg_reg_write()
- lib: textsearch: fix escapes in example code
- r8152: Set macpassthru in reset_resume callback

- libata/ahci: Fix PCS quirk application
- md/raid0: fix warning message for parameter default_layout
- ocfs2: fix panic due to ocfs2_wq is null
- ipv4: fix race condition between route lookup and invalidation
- net: avoid potential infinite loop in tc_ctl_action()
- net: ipv6: fix listify ip6 rcv finish in case of forwarding
- [armhf,arm64] net: stmmac: disable/enable ptp_ref_clk in suspend/resume flow
- sctp: change sctp_prot .no_autobind with true
- memfd: Fix locking when tagging pins
- USB: legousbtower: fix memleak on disconnect
- ALSA: hda/realtek Add support for ALC711
- [x86] ALSA: hda/realtek Enable headset mic on Asus MJ401TA
- ALSA: usb-audio: Disable quirks for BOSS Katana amplifiers
- ALSA: hda Force runtime PM on Nvidia HDMI codecs
- USB: serial: ti_usb_3410_5052: fix port-close races
- USB: ldusb: fix memleak on disconnect
- USB: usblp: fix use-after-free on disconnect
- USB: ldusb: fix read info leaks
- [mips*] tlbex: Fix build_restore_pagemask KScratch restore
- staging: wlan-ng: fix exit return when sme->key_idx >= NUM_WEPKEYS
- [s390x] scsi: zfcp: fix reaction on bit error threshold notification
- scsi: sd: Ignore a failure to sync cache due to lack of authorization
- scsi: core: save/restore command resid for error handling
- scsi: core: try to get module before removing device
- scsi: ch: Make it possible to open a ch device multiple times again
- Input: synaptics-rmi4 avoid processing unknown IRQs
- ACPI: CPPC: Set pcc_data[pcc_ss_id] to NULL in acpi_cppc_processor_exit()
- cfg80211: wext: avoid copying malformed SSIDs (CVE-2019-17133)
- mac80211: Reject malformed SSID elements
- [x86] drm/edid: Add 6 bpc quirk for SDC panel in Lenovo G50
- drm/ttm: Restore ttm prefaulting
- drm/amdgpu: Bail earlier when amdgpu.cik_/si_support is not set to 1
- drivers/base/memory.c: don't access uninitialized memmaps in soft_offline_page_store()
- fs/proc/page.c: don't access uninitialized memmaps in fs/proc/page.c
- mm/memory-failure.c: don't access uninitialized memmaps in memory_failure()
- mm/slub: fix a deadlock in show slab objects()

- mm/page_owner: don't access uninitialized memmaps when reading /proc/pagetypeinfo
- hugetlbfs: don't access uninitialized memmaps in pfn_range_valid_gigantic()
- mm/memory-failure: poison read receives SIGKILL instead of SIGBUS if mmaped more than once
- EDAC/ghes: Fix Use after free in ghes_edac remove path
- [arm64] Enable workaround for Cavium TX2 erratum 219 when running SMT
- CIFS: avoid using MID 0xFFFF
- CIFS: Fix use after free of file info structures
- perf/aux: Fix AUX output stopping
- tracing: Fix race in perf_trace_buf initialization
- dm cache: fix bugs when a GFP_NOWAIT allocation fails
- [amd64] boot: Make level2_kernel_pgt pages invalid outside kernel area
- [x86] apic/x2apic: Fix a NULL pointer deref when handling a dying cpu
- [x86] pinctrl: cherryview: restore Strago DMI workaround for all versions
- [arm64] pinctrl: armada-37xx: fix control of pins 32 and up
- [arm64] pinctrl: armada-37xx: swap polarity on LED group
- btrfs: block-group: Fix a memory leak due to missing btrfs_put_block_group()
- Btrfs: add missing extents release on file extent cluster relocation error
- Btrfs: check for the full sync flag while holding the inode lock during fsync
- btrfs: tracepoints: Fix bad entry members of qgroup events
- memstick: jmb38x_ms: Fix an error handling path in 'jmb38x_ms_probe()'
- cpufreq: Avoid cpufreq_suspend() deadlock on system shutdown
- xen/netback: fix error path of xenvif_connect_data()
- PCI: PM: Fix pci_power_up()
- blk-rq-qos: fix first node deletion of rq_qos_del()
- RDMA/cxgb4: Do not dma memory off of the stack (CVE-2019-17075)

- zram: fix race between backing_dev_show and backing_dev_store
- dm snapshot: introduce account start copy() and account end copy()
- dm snapshot: rework COW throttling to fix deadlock
- Btrfs: fix inode cache block reserve leak on failure to allocate data space
- Btrfs: fix memory leak due to concurrent append writes with fiemap
- btrfs: qgroup: Always free PREALLOC META reserve in btrfs_delalloc_release_extents()
- btrfs: tracepoints: Fix wrong parameter order for ggroup events
- wil6210: fix freeing of rx buffers in EDMA mode
- f2fs: flush quota blocks after turnning it off
- scsi: lpfc: Fix a duplicate 0711 log message number.

- f2fs: fix to recover inode's i_gc_failures during POR
- f2fs: fix to recover inode->i_flags of inode block during POR
- [x86] HID: i2c-hid: add Direkt-Tek DTLAPY133-1 to descriptor override
- [arm64,armel,armhf] usb: dwc2: fix unbalanced use of external vbus-supply
- [x86] tools/power turbostat: fix goldmont C-state limit decoding
- [x86] cpu: Add Atom Tremont (Jacobsville)
- [arm64] drm/msm/dpu: handle failures while initializing displays
- bcache: fix input overflow to writeback_rate_minimum
- PCI: Fix Switchtec DMA aliasing quirk dmesg noise
- Btrfs: fix deadlock on tree root leaf when finding free extent
- netfilter: ipset: Make invalid MAC address checks consistent
- HID: i2c-hid: Disable runtime PM for LG touchscreen
- HID: i2c-hid: Ignore input report if there's no data present on Elan touchpanels
- HID: i2c-hid: Add Odys Winbook 13 to descriptor override
- [x86] platform/x86: Add the VLV ISP PCI ID to atomisp2_pm
- [x86] platform/x86: Fix config space access for intel_atomisp2_pm
- ath10k: assign 'n cipher suites = 11' for WCN3990 to enable WPA3
- HID: Add ASUS T100CHI keyboard dock battery quirks
- NFSv4: Ensure that the state manager exits the loop on SIGKILL
- HID: steam: fix boot loop with bluetooth firmware
- HID: steam: fix deadlock with input devices.
- [arm64,armhf] usb: dwc3: gadget: early giveback if End Transfer already completed
- [arm64,armhf] usb: dwc3: gadget: clear DWC3_EP_TRANSFER_STARTED on cmd complete
- ALSA: usb-audio: Cleanup DSD whitelist
- usb: handle warm-reset port requests on hub resume
- [armhf] rtc: pcf8523: set xtal load capacitance from DT
- [arm64] Add MIDR encoding for HiSilicon Taishan CPUs
- [arm64] kpti: Whitelist HiSilicon Taishan v110 CPUs
- scsi: lpfc: Correct localport timeout duration error
- CIFS: Respect SMB2 hdr preamble size in read responses
- cifs: add credits from unmatched responses/messages
- ALSA: hda/realtek Apply ALC294 hp init also for S4 resume
- ext4: disallow files with EXT4_JOURNAL_DATA_FL from EXT4_IOC_SWAP_BOOT
- exec: load_script: Do not exec truncated interpreter path
- [arm64,armhf] net: dsa: mv88e6xxx: Release lock while requesting IRQ
- PCI/PME: Fix possible use-after-free on remove

- [arm64,armhf] iio: adc: meson_saradc: Fix memory allocation order
- [x86] iio: fix center temperature of bmc150-accel-core
- perf map: Fix overlapped map handling
- perf script brstackinsn: Fix recovery from LBR/binary mismatch
- perf jevents: Fix period for Intel fixed counters
- perf tools: Propagate get cpuid() error
- perf annotate: Propagate perf_env__arch() error
- perf annotate: Fix the signedness of failure returns
- perf annotate: Propagate the symbol__annotate() error return
- perf annotate: Return appropriate error code for allocation failures
- staging: rtl8188eu: fix null dereference when kzalloc fails
- RDMA/hfi1: Prevent memory leak in sdma_init (CVE-2019-19065)
- RDMA/iwcm: Fix a lock inversion issue
- [x86] HID: hyperv: Use in-place iterator API in the channel callback
- nfs: Fix nfsi->nrequests count error on nfs_inode_remove_request
- [arm64] ftrace: Ensure synchronisation in PLT setup for Neoverse-N1
- [arm64] gpio: max77620: Use correct unit for debounce times
- fs: cifs: mute -Wunused-const-variable message
- [armhf] serial: mctrl_gpio: Check for NULL pointer
- efi/cper: Fix endianness of PCIe class code
- [x86] efi/x86: Do not clean dummy variable in kexec path
- [x86] xen: Return from panic notifier
- ocfs2: clear zero in unaligned direct IO
- fs: ocfs2: fix possible null-pointer dereferences in ocfs2_xa_prepare_entry()
- fs: ocfs2: fix a possible null-pointer dereference in ocfs2_write_end_nolock()
- fs: ocfs2: fix a possible null-pointer dereference in ocfs2_info_scan_inode_alloc()
- [arm64] armv8_deprecated: Checking return value for memory allocation
- [x86] cpu: Add Comet Lake to the Intel CPU models header
- sched/vtime: Fix guest/system mis-accounting on task switch
- [x86] perf/x86/amd: Change/fix NMI latency mitigation to use a timestamp
- drm/amdgpu: fix memory leak
- iio: imu: adis16400: release allocated memory on failure (CVE-2019-19060)
- [x86] virt: vbox: fix memory leak in hgcm_call_preprocess_linaddr (CVE-2019-19048)
- NFSv4: Fix leak of clp->cl_acceptor string
- tracing: Initialize iter->seq after zeroing in tracing_read_pipe()
- ALSA: hda/realtek: Reduce the Headphone static noise on XPS 9350/9360

- iwlwifi: exclude GEO SAR support for 3168
- nbd: verify socket is supported during setup
- USB: legousbtower: fix a signedness bug in tower_probe()
- [x86] thunderbolt: Use 32-bit writes when writing ring producer/consumer
- ath6kl: fix a NULL-ptr-deref bug in ath6kl usb alloc urb from pipe() (CVE-2019-15098)
- fuse: flush dirty data/metadata before non-truncate setattr
- fuse: truncate pending writes on O_TRUNC
- ALSA: bebob: Fix prototype of helper function to return negative value
- ALSA: hda/realtek Fix 2 front mics of codec 0x623
- ALSA: hda/realtek Add support for ALC623
- UAS: Revert commit 3ae62a42090f ("UAS: fix alignment of scatter/gather segments")
- USB: gadget: Reject endpoints with 0 maxpacket value
- usb-storage: Revert commit 747668dbc061 ("usb-storage: Set virt_boundary_mask to avoid SG over-flows")
- USB: ldusb: fix ring-buffer locking
- USB: Idusb: fix control-message timeout
- usb: xhci: fix __le32/__le64 accessors in debugfs code
- USB: serial: whiteheat: fix potential slab corruption
- USB: serial: whiteheat: fix line-speed endianness
- scsi: target: cxgbit: Fix cxgbit_fw4_ack()
- HID: i2c-hid: add Trekstor Primebook C11B to descriptor override
- HID: Fix assumption that devices have inputs
- HID: fix error message in hid_open_report()
- nl80211: fix validation of mesh path nexthop
- [s390x] cmm: fix information leak in cmm_timeout_handler()
- [s390x] idle: fix cpu idle time calculation
- [arm64] Ensure VM_WRITEIVM_SHARED ptes are clean by default
- rtlwifi: Fix potential overflow on P2P code (CVE-2019-17666)
- [arm64] dmaengine: qcom: bam_dma: Fix resource leak
- [armhf] dmaengine: cppi41: Fix cppi41_dma_prep_slave_sg() when idle
- NFS: Fix an RCU lock leak in nfs4_refresh_delegation_stateid()
- batman-adv: Avoid free/alloc race when handling OGM buffer
- llc: fix sk_buff leak in llc_sap_state_process()
- llc: fix sk_buff leak in llc_conn_service()
- rxrpc: Fix call ref leak
- rxrpc: rxrpc_peer needs to hold a ref on the rxrpc_local record

- rxrpc: Fix trace-after-put looking at the put peer record
- NFC: pn533: fix use-after-free and memleaks
- bonding: fix potential NULL deref in bond_update_slave_arr
- net: usb: sr9800: fix uninitialized local variable
- sch netem: fix rcu splat in netem enqueue()
- ALSA: timer: Simplify error path in snd timer open()
- ALSA: timer: Fix mutex deadlock at releasing card
- ALSA: usb-audio: DSD auto-detection for Playback Designs
- ALSA: usb-audio: Update DSD support quirks for Oppo and Rotel
- ALSA: usb-audio: Add DSD support for Gustard U16/X26 USB Interface
- [ppc64el] powerpc/powernv: Fix CPU idle to be called with IRQs disabled
- Revert "ALSA: hda: Flush interrupts on disabling"

- regulator: of: fix suspend-min/max-voltage parsing
- [arm64] dts: allwinner: a64: pine64-plus: Add PHY regulator delay
- [arm64] arm64: dts: allwinner: a64: sopine-baseboard: Add PHY regulator delay
- [armhf] regulator: ti-abb: Fix timeout in ti_abb_wait_txdone/ti_abb_clear_all_txdone
- [x86] ASoC: rt5682: add NULL handler to set_jack function
- [armhf] regulator: pfuze100-regulator: Variable "val" in pfuze100_regulator_probe() could be uninitialized
- [arm64,armhf] ASoc: rockchip: i2s: Fix RPM imbalance
- [armel,armhf] mm: fix alignment handler faults under memory pressure
- scsi: qla2xxx: fix a potential NULL pointer dereference
- scsi: scsi_dh_alua: handle RTPG sense code correctly during state transitions
- drm/amdgpu: fix potential VM faults
- scsi: target: core: Do not overwrite CDB byte 1
- tracing: Fix "gfp_t" format for synthetic events
- of: unittest: fix memory leak in unittest data add (CVE-2019-19049)
- [arm64,armhf] irqchip/gic-v3-its: Use the exact ITSList for VMOVP
- cifs: Fix cifsInodeInfo lock_sem deadlock when reconnect occurs
- nbd: protect cmd->status with cmd->lock
- nbd: handle racing with error'ed out commands
- cxgb4: fix panic when attaching to ULD fail
- dccp: do not leak jiffies on the wire
- erspan: fix the tun_info options_len check for erspan
- inet: stop leaking jiffies on the wire

- net: annotate accesses to sk->sk_incoming_cpu
- net: annotate lockless accesses to sk->sk napi id
- [armhf] net: dsa: bcm_sf2: Fix IMP setup for port different than 8
- net: fix sk_page_frag() recursion from memory reclaim
- [arm64] net: hisilicon: Fix ping latency when deal with high throughput
- net/mlx4_core: Dynamically set guaranteed amount of counters per VF
- netns: fix GFP flags in rtnl_net_notifyid()
- net: usb: lan78xx: Disable interrupts before calling generic_handle_irq()
- net: Zeroing the structure ethtool_wolinfo in ethtool_get_wol()
- udp: fix data-race in udp_set_dev_scratch()
- vxlan: check tun_info options_len properly
- net: add skb_queue_empty_lockless()
- udp: use skb_queue_empty_lockless()
- net: use skb_queue_empty_lockless() in poll() handlers
- net: use skb_queue_empty_lockless() in busy poll contexts
- net: add READ_ONCE() annotation in __skb_wait_for_more_packets()
- ipv4: fix route update on metric change.
- net/mlx5e: Fix handling of compressed CQEs in case of low NAPI budget
- r8169: fix wrong PHY ID issue with RTL8168dp
- net/mlx5e: Fix ethtool self test: link speed
- [armhf] net: dsa: b53: Do not clear existing mirrored port mask
- [armhf] net: phy: bcm7xxx: define soft_reset for 40nm EPHY
- net: usb: lan78xx: Connect PHY before registering MAC
- [arm64,armhf] net: dsa: fix switch tree list
- r8152: add device id for Lenovo ThinkPad USB-C Dock Gen 2
- net/flow_dissector: switch to siphash
- wireless: Skip directory when generating certificates
- [x86] platform/x86: pmc atom: Add Siemens SIMATIC IPC227E to critclk systems DMI table
- [ppc64el] powerpc/mm: Fixup tlbie vs mtpidr/mtlpidr ordering issue on POWER9
- usb: gadget: udc: core: Fix segfault if udc_bind_to_driver() for pending driver fails

- bonding: fix state transition issue in link monitoring
- CDC-NCM: handle incomplete transfer of MTU
- ipv4: Fix table id reference in fib_sync_down_addr
- [mips*] net: ethernet: octeon_mgmt: Account for second possible VLAN header
- net: fix data-race in neigh event send()

- net: usb: qmi_wwan: add support for DW5821e with eSIM support
- nfc: netlink: fix double device reference drop
- qede: fix NULL pointer deref in __qede_remove()
- ipv6: fixes rt6_probe() and fib6_nh->last_probe init
- [arm64] net: hns: Fix the stray netpoll locks causing deadlock in NAPI path
- ALSA: timer: Fix incorrectly assigned timer instance
- ALSA: bebob: fix to detect configured source of sampling clock for Focusrite Saffire Pro i/o series
- ALSA: hda/ca0132 Fix possible workqueue stall
- mm: memcontrol: fix network errors from failing __GFP_ATOMIC charges
- mm, meminit: recalculate pcpu batch and high limits after init completes
- mm: thp: handle page cache THP correctly in PageTransCompoundMap
- mm, vmstat: hide /proc/pagetypeinfo from normal users
- dump_stack: avoid the livelock of the dump_lock
- perf tools: Fix time sorting
- drm/radeon: fix si_enable_smc_cac() failed issue
- HID: wacom: generic: Treat serial number and related fields as unsigned
- [arm64] Do not mask out PTE_RDONLY in pte_same()
- ceph: fix use-after-free in __ceph_remove_cap()
- ceph: add missing check in d_revalidate snapdir handling
- [armhf] sunxi: Fix CPU powerdown on A83T
- netfilter: nf_tables: Align nft_expr private data to 64-bit
- netfilter: ipset: Fix an error code in ip_set_sockfn_get()
- [x86] intel_th: pci: Add Comet Lake PCH support
- [x86] intel_th: pci: Add Jasper Lake PCH support
- [x86] apic/32: Avoid bogus LDR warnings
- SMB3: Fix persistent handles reconnect
- can: usb_8dev: fix use-after-free on disconnect
- [armhf] can: flexcan: disable completely the ECC mechanism
- can: peak_usb: fix a potential out-of-sync while decoding packets
- can: rx-offload: can_rx_offload_queue_sorted(): fix error handling, avoid skb mem leak
- can: gs_usb: gs_can_open(): prevent memory leak (CVE-2019-19052)
- can: dev: add missing of_node_put() after calling of_get_child_by_name()
- can: mcba_usb: fix use-after-free on disconnect
- can: peak_usb: fix slab info leak
- configfs: stash the data we need into configfs_buffer at open time
- configfs register group() shouldn't be (and isn't) called in rmdirable parts

- configfs: new object reprsenting tree fragments
- configfs: provide exclusion between IO and removals
- configfs: fix a deadlock in configfs_symlink()
- ALSA: usb-audio: More validations of descriptor units
- ALSA: usb-audio: Simplify parse audio unit()
- ALSA: usb-audio: Unify the release of usb mixer elem info objects
- ALSA: usb-audio: Remove superfluous bLength checks
- ALSA: usb-audio: Clean up check_input_term()
- ALSA: usb-audio: Fix possible NULL dereference at create_yamaha_midi_quirk()
- ALSA: usb-audio: remove some dead code
- ALSA: usb-audio: Fix copy&paste error in the validator
- sched/fair: Fix low cpu usage with high throttling by removing expiration of cpu-local slices
- sched/fair: Fix -Wunused-but-set-variable warnings
- usbip: Fix vhci_urb_enqueue() URB null transfer buffer error path
- usbip: Implement SG support to vhci-hcd and stub driver
- [arm64,armhf] PCI: tegra: Enable Relaxed Ordering only for Tegra20 & Tegra30
- [amd64] HID: intel-ish-hid: fix wrong error handling in ishtp cl alloc tx ring()
- RDMA/mlx5: Clear old rate limit when closing QP
- iw_cxgb4: fix ECN check on the passive accept
- RDMA/qedr: Fix reported firmware version
- net/mlx5e: TX, Fix consumer index of error cqe dump
- net/mlx5: prevent memory leak in mlx5_fpga_conn_create_cq (CVE-2019-19045)
- scsi: qla2xxx: fixup incorrect usage of host_byte
- RDMA/uverbs: Prevent potential underflow
- net: openvswitch: free vport unless register_netdevice() succeeds
- scsi: lpfc: Honor module parameter lpfc_use_adisc
- scsi: qla2xxx: Initialized mailbox to prevent driver load failure
- netfilter: nf flow table: set timeout before insertion into hashes
- ipvs: don't ignore errors in case refcounting ip_vs module fails
- ipvs: move old_secure_tcp into struct netns_ipvs
- bonding: fix unexpected IFF_BONDING bit unset
- macsec: fix refent leak in module exit routine
- usb: gadget: composite: Fix possible double free memory bug
- [arm64] usb: dwc3: pci: prevent memory leak in dwc3_pci_probe (CVE-2019-18813)
- usb: gadget: configfs: fix concurrent issue between composite APIs
- [arm64,armhf] usb: dwc3: remove the call trace of USBx GFLADJ

- [x86] perf/x86/amd/ibs: Fix reading of the IBS OpData register and thus precise RIP validity
- [x86] perf/x86/amd/ibs: Handle erratum #420 only on the affected CPU family (10h)
- [x86] perf/x86/uncore: Fix event group support
- USB: Skip endpoints with 0 maxpacket length
- USB: Idusb: use unsigned size format specifiers
- usbip: tools: Fix read_usb_vudc_device() error path handling
- RDMA/iw_cxgb4: Avoid freeing skb twice in arp failure case
- [arm64] RDMA/hns: Prevent memory leaks of eq->buf_list
- scsi: qla2xxx: stop timer in shutdown path
- nvme-multipath: fix possible io hang after ctrl reconnect
- [amd64] fjes: Handle workqueue allocation failure
- [arm64] net: hisilicon: Fix "Trying to free already-free IRQ"
- drm/amdgpu: If amdgpu_ib_schedule fails return back the error.
- [x86] hv_netvsc: Fix error handling in netvsc_attach()
- [arm64,armhf] usb: dwc3: gadget: fix race when disabling ep with cancelled xfers
- NFSv4: Don't allow a cached open with a revoked delegation
- igb: Fix constant media auto sense switching when no cable is connected
- e1000: fix memory leaks
- [x86] pinctrl: intel: Avoid potential glitches if pin is in GPIO mode
- ocfs2: protect extent tree in ocfs2_prepare_inode_for_write()
- [x86] pinctrl: cherryview: Fix irq_valid_mask calculation
- blkcg: make blkcg_print_stat() print stats only for online blkgs
- [x86] iio: imu: mpu6050: Add support for the ICM 20602 IMU
- [x86] iio: imu: inv_mpu6050: fix no data on MPU6050
- mm/filemap.c: don't initiate writeback if mapping has no dirty pages
- cgroup,writeback: don't switch wbs immediately on dead wbs if the memcg is dead
- usbip: Fix free of unallocated memory in vhci tx
- netfilter: ipset: Copy the right MAC address in hash:ip,mac IPv6 sets
- net: prevent load/store tearing on sk->sk_stamp
- [x86] iio: imu: mpu6050: Fix FIFO layout for ICM20602
- vsock/virtio: fix sock refent holding during the shutdown
- x86/cpu: Add Tremont to the cpu vulnerability whitelist

- scsi: core: Handle drivers which set sg_tablesize to zero
- ax88172a: fix information leak on short answers
- ipmr: Fix skb headroom in ipmr_get_route().

- net: gemini: add missed free netdev
- net: usb: qmi_wwan: add support for Foxconn T77W968 LTE modules
- slip: Fix memory leak in slip_open error path
- ALSA: usb-audio: Fix missing error check at mixer resolution test
- ALSA: usb-audio: not submit urb for stopped endpoint
- ALSA: usb-audio: Fix incorrect NULL check in create yamaha midi quirk()
- ALSA: usb-audio: Fix incorrect size check for processing/extension units
- Btrfs: fix log context list corruption after rename exchange operation
- Input: ff-memless kill timer in destroy()
- Input: synaptics-rmi4 fix video buffer size
- Input: synaptics-rmi4 disable the relative position IRQ in the F12 driver
- Input: synaptics-rmi4 do not consume more data than we have (F11, F12)
- Input: synaptics-rmi4 clear IRQ enables for F54
- Input: synaptics-rmi4 destroy F54 poller workqueue when removing
- IB/hfi1: Ensure full Gen3 speed in a Gen4 system
- IB/hfi1: Use a common pad buffer for 9B and 16B packets
- i2c: acpi: Force bus speed to 400KHz if a Silead touchscreen is present
- ecryptfs_lookup_interpose(): lower_dentry->d_inode is not stable
- ecryptfs_lookup_interpose(): lower_dentry->d_parent is not stable either
- [armhf] net: ethernet: dwmac-sun8i: Use the correct function in exit path
- [x86] iommu/vt-d: Fix QI_DEV_IOTLB_PFSID and QI_DEV_EIOTLB_PFSID macros
- mm: mempolicy: fix the wrong return value and potential pages leak of mbind
- mm: memcg: switch to css_tryget() in get_mem_cgroup_from_mm()
- mm: hugetlb: switch to css_tryget() in hugetlb_cgroup_charge_cgroup()
- iio: adc: max9611: explicitly cast gain_selectors
- tee: optee: take DT status property into account
- ath10k: fix kernel panic by moving pci flush after napi_disable
- clk: sunxi-ng: h6: fix PWM gate/reset offset
- soundwire: Initialize completion for defer messages
- [x86] soundwire: intel: Fix uninitialized adev deref
- [arm64] dts: allwinner: a64: Orange Pi Win: Fix SD card node
- [arm64] dts: allwinner: a64: Olinuxino: fix DRAM voltage
- [arm64] dts: allwinner: a64: NanoPi-A64: Fix DCDC1 voltage
- ALSA: pcm: signedness bug in snd_pcm_plug_alloc()
- [arm64] soc/tegra: pmc: Fix pad voltage configuration for Tegra186
- [arm64] dts: tegra210-p2180: Correct sdmmc4 vqmmc-supply

- y2038: make do_gettimeofday() and get_seconds() inline
- rtc: sysfs: fix NULL check in rtc_add_groups()
- remoteproc/davinci: Use %zx for formating size_t
- extcon: cht-wc: Return from default case to avoid warnings
- cfg80211: Avoid regulatory restore when COUNTRY_IE_IGNORE is set
- ALSA: seq: Do error checks at creating system ports
- ath10k: skip resetting rx filter for WCN3990
- ath9k: fix tx99 with monitor mode interface
- wil6210: drop Rx multicast packets that are looped-back to STA
- wil6210: set edma variables only for Talyn-MB devices
- wil6210: prevent usage of tx ring 0 for eDMA
- wil6210: fix invalid memory access for rx_buff_mgmt debugfs
- ath10k: limit available channels via DT ieee80211-freq-limit
- ice: Update request resource command to latest specification
- ice: Prevent control queue operations during reset
- gfs2: Don't set GFS2_RDF_UPTODATE when the lvb is updated
- ice: Fix and update driver version string
- ASoC: dapm: Don't fail creating new DAPM control on NULL pinctrl
- ASoC: dpcm: Properly initialise hw->rate_max
- ASoC: meson: axg-fifo: report interrupt request failure
- ASoC: AMD: Change MCLK to 48Mhz
- pinctrl: ingenic: Probe driver at subsys_initcall
- [armhf] dts: exynos: Use i2c-gpio for HDMI-DDC on Arndale
- [armhf] dts: exynos: Fix HDMI-HPD line handling on Arndale
- [armhf] dts: exynos: Fix sound in Snow-rev5 Chromebook
- liquidio: fix race condition in instruction completion processing
- [arm64] dts: stratix10: i2c clock running out of spec
- [armhf] dts: exynos: Fix regulators configuration on Peach Pi/Pit Chromebooks
- i40evf: Validate the number of queues a PF sends
- i40e: use correct length for strncpy
- i40evf: set IFF_UNICAST_FLT flag for the VF
- i40e: Check and correct speed values for link on open
- i40evf: Don't enable vlan stripping when rx offload is turned on
- i40e: hold the rtnl lock on clearing interrupt scheme
- i40evf: cancel workqueue sync for adming when a VF is removed
- i40e: Prevent deleting MAC address from VF when set by PF

- IB/rxe: avoid back-to-back retries
- IB/rxe: fixes for rdma read retry
- iwlwifi: drop packets with bad status in CD
- iwlwifi: don't WARN on trying to dump dead firmware
- iwlwifi: mvm: avoid sending too many BARs
- media: vicodec: fix out-of-range values when decoding
- media: i2c: Fix pm_runtime_get_if_in_use() usage in sensor drivers
- media: ov772x: Disable clk on error path
- rtl8187: Fix warning generated when strncpy() destination length matches the sixe argument
- mwifiex: do no submit URB in suspended state
- mwifex: free rx_cmd skb in suspended state
- brcmfmac: fix wrong strnchr usage
- mt76: Fix comparisons with invalid hardware key index
- soc: imx: gpc: fix PDN delay
- ASoC: rsnd: ssi: Fix issue in dma data address assignment
- net: hns3: Fix for multicast failure
- net: hns3: Fix error of checking used vlan id
- net: hns3: Fix for loopback selftest failed problem
- net: hns3: Change the dst mac addr of loopback packet
- net/mlx5: Fix atomic_mode enum values
- net: phy: mscc: read 'vsc8531,vddmac' as an u32
- net: phy: mscc: read 'vsc8531, edge-slowdown' as an u32
- [armhf] dts: meson8: fix the clock controller register size
- [armhf] dts: meson8b: fix the clock controller register size
- mtd: rawnand: marvell: use regmap_update_bits() for syscon access
- mtd: rawnand: fsl_ifc: check result of SRAM initialization
- mtd: rawnand: fsl_ifc: fixup SRAM init for newer ctrl versions
- mtd: rawnand: qcom: don't include dma-direct.h
- IB/mlx5: Change TX affinity assignment in RoCE LAG mode
- qxl: fix null-pointer crash during suspend
- mac80211: fix saving a few HE values
- cfg80211: validate wmm rule when setting
- f2fs: avoid wrong decrypted data from disk
- net: lan78xx: Bail out if lan78xx_get_endpoints fails
- rtnetlink: move type calculation out of loop
- ASoC: sgtl5000: avoid division by zero if lo vag is zero

- ath10k: avoid possible memory access violation
- [armhf] dts: exynos: Disable pull control for S5M8767 PMIC
- ath10k: wmi: disable softirq's while calling ieee80211_rx
- i2c: mediatek: Use DMA safe buffers for i2c transactions
- IB/mlx5: Don't hold spin lock while checking device state
- IB/ipoib: Ensure that MTU isn't less than minimum permitted
- RDMA/core: Rate limit MAD error messages
- RDMA/core: Follow correct unregister order between sysfs and cgroup
- udf: Fix crash during mount
- ASoC: dapm: Avoid uninitialised variable warning
- [x86] ASoC: Intel: hdac_hdmi: Limit sampling rates at dai creation
- ata: Disable AHCI ALPM feature for Ampere Computing eMAG SATA
- [powerpc] make PowerMac cache node search conditional on CONFIG_PPC_PMAC
- [armhf] dts: omap3-gta04: give spi_lcd node a label so that we can overwrite in other DTS files
- [armhf] dts: omap3-gta04: fixes for tvout / venc
- [armhf] dts: omap3-gta04: tvout: enable as display1 alias
- [armhf] dts: omap3-gta04: fix touchscreen tsc2007
- [armhf] dts: omap3-gta04: make NAND partitions compatible with recent U-Boot
- [armhf] dts: omap3-gta04: keep vpll2 always on
- f2fs: submit bio after shutdown
- failover: Fix error return code in net_failover_create
- sched/debug: Explicitly cast sched_feat() to bool
- sched/debug: Use symbolic names for task state constants
- firmware: arm_scmi: use strlcpy to ensure NULL-terminated strings
- [arm64] dts: rockchip: Fix VCC5V0 HOST EN on rk3399-sapphire
- [armhf] dts: exynos: Disable pull control for PMIC IRQ line on Artik5 board
- usb: mtu3: disable vbus rise/fall interrupts of ltssm
- EDAC, sb edac: Return early on ADDRV bit and address type test
- [armhf] rtc: pl030: fix possible race condition
- ath9k: add back support for using active monitor interfaces for tx99
- dmaengine: at_xdmac: remove a stray bottom half unlock
- RDMA/hns: Fix an error code in hns_roce_v2_init_eq_table()
- IB/hfi1: Missing return value in error path for user sdma
- signal: Always ignore SIGKILL and SIGSTOP sent to the global init
- signal: Properly deliver SIGILL from uprobes
- signal: Properly deliver SIGSEGV from x86 uprobes

- f2fs: fix memory leak of write_io in fill_super()
- f2fs: fix memory leak of percpu counter in fill_super()
- f2fs: fix setattr project check upon fssetxattr ioctl
- scsi: qla2xxx: Use correct qpair for ABTS/CMD
- scsi: qla2xxx: Fix iIDMA error
- scsi: qla2xxx: Defer chip reset until target mode is enabled
- scsi: qla2xxx: Terminate Plogi/PRLI if WWN is 0
- scsi: qla2xxx: Fix deadlock between ATIO and HW lock
- scsi: qla2xxx: Increase abort timeout value
- scsi: qla2xxx: Check for Register disconnect
- scsi: qla2xxx: Fix port speed display on chip reset
- scsi: qla2xxx: Fix dropped srb resource.
- scsi: qla2xxx: Fix duplicate switch's Nport ID entries
- scsi: lpfc: Fix GFT_ID and PRLI logic for RSCN
- scsi: lpfc: Correct invalid EQ doorbell write on if_type=6
- scsi: lpfc: Fix errors in log messages.
- scsi: sym53c8xx: fix NULL pointer dereference panic in sym_int_sir()
- [armhf] imx6: register pm_power_off handler if "fsl,pmic-stby-poweroff" is set
- scsi: pm80xx: Corrected dma_unmap_sg() parameter
- scsi: pm80xx: Fixed system hang issue during kexec boot
- kprobes: Don't call BUG_ON() if there is a kprobe in use on free list
- net: aquantia: fix hw_atl_utils_fw_upload_dwords
- Drivers: hv: vmbus: Fix synic per-cpu context initialization
- nvmem: core: return error code instead of NULL from nvmem_device_get
- media: dt-bindings: adv748x: Fix decimal unit addresses
- [x86] ALSA: hda: Fix implicit definition of pci_iomap() on SH
- media: fix: media: pci: meye: validate offset to avoid arbitrary access
- media: dvb: fix compat ioctl translation
- net: bcmgenet: Fix speed selection for reverse MII
- [arm64] dts: meson: libretech: update board model
- [arm64] dts: meson-axg: use the proper compatible for ethmac
- [x86] ALSA: intel8x0m: Register irq handler after register initializations
- [arm64] dts: renesas: salvator-common: adv748x: Override secondary addresses
- [arm64] dts: renesas: r8a77965: Attach the SYS-DMAC to the IPMMU
- [arm64] dts: renesas: r8a77965: Fix HS-USB compatible
- [arm64] dts: renesas: r8a77965: Fix clock/reset for usb2_phy1

- pinctrl: at91-pio4: fix has_config check in atmel_pctl_dt_subnode_to_map()
- llc: avoid blocking in llc_sap_close()
- [armhf] dts: qcom: ipq4019: fix cpu0's qcom,saw2 reg value
- [arm64] soc: qcom: wcnss_ctrl: Avoid string overflow
- [arm64] dts: broadcom: Fix I2C and SPI bus warnings
- [armhf] dts: bcm: Fix SPI bus warnings
- [armhf] dts: aspeed: Fix I2C bus warnings
- [ppc64el,powerpc*] powerpc/vdso: Correct call frame information
- [armhf] dts: socfpga: Fix I2C bus unit-address error
- [armhf] dts: sunxi: Fix I2C bus warnings
- [armhf] dts: sun9i: Fix I2C bus warnings
- android: binder: no outgoing transaction when thread todo has transaction
- cxgb4: Fix endianness issue in t4_fwcache()
- [arm64] fix for bad_mode() handler to always result in panic
- block, bfq: inject other-queue I/O into seeky idle queues on NCQ flash
- blok, bfq: do not plug I/O if all queues are weight-raised
- [arm64] dts: meson: Fix erroneous SPI bus warnings
- power: supply: ab8500_fg: silence uninitialized variable warnings
- component: fix loop condition to call unbind() if bind() fails
- kernfs: Fix range checks in kernfs_get_target_path
- ip_gre: fix parsing gre header in ipgre_err
- scsi: ufshcd: Fix NULL pointer dereference for in ufshcd_init
- [armhf] dts: rockchip: Fix erroneous SPI bus dtc warnings on rk3036
- [arm64] dts: rockchip: Fix I2C bus unit-address error on rk3399-puma-haikou
- [x86] ACPI / LPSS: Exclude I2C busses shared with PUNIT from pmc_atom_d3_mask
- netfilter: nf_tables: avoid BUG_ON usage
- ath9k: Fix a locking bug in ath9k_add_interface()
- [s390x] geth: uninstall IRQ handler on device removal
- [s390x] qeth: invoke softirqs after napi_schedule()
- media: vsp1: Fix vsp1_regs.h license header
- media: vsp1: Fix YCbCr planar formats pitch calculation
- media: ov2680: don't register the v412 subdevice before checking chip ID
- PCI/ACPI: Correct error message for ASPM disabling
- net: socionext: Fix two sleep-in-atomic-context bugs in ave_rxfifo_reset()
- PCI: mediatek: Fix unchecked return value
- [armhf] dts: xilinx: Fix I2C and SPI bus warnings

- serial: uartps: Fix suspend functionality
- serial: samsung: Enable baud clock for UART reset procedure in resume
- serial: mxs-auart: Fix potential infinite loop
- tty: serial: qcom_geni_serial: Fix serial when not used as console
- [arm64] dts: ti: k3-am65: Change #address-cells and #size-cells of interconnect to 2
- samples/bpf: fix a compilation failure
- spi: mediatek: Don't modify spi_transfer when transfer.
- ASoC: rt5682: Fix the boost volume at the begining of playback
- ipmi_si_pci: fix NULL device in ipmi_si error message
- ipmi_si: fix potential integer overflow on large shift
- ipmi:dmi: Ignore IPMI SMBIOS entries with a zero base address
- ipmi: fix return value of ipmi_set_my_LUN
- net: hns3: fix return type of ndo_start_xmit function
- net: cavium: fix return type of ndo_start_xmit function
- net: ibm: fix return type of ndo_start_xmit function
- [ppc64el,powerpc*] iommu: Avoid derefence before pointer check
- [ppc64el,powerpc*] selftests: Do not fail with reschedule
- [ppc64el,powerpc64] hash: Fix stab_rr off by one initialization
- [ppc64el,powerpc64] pseries/memory-hotplug: Only update DT once per memory DLPAR request
- [ppc64el,powerpc64] pseries: Disable CPU hotplug across migrations
- [ppc64el,powerpc*] Fix duplicate const clang warning in user access code
- RDMA/i40iw: Fix incorrect iterator type
- OPP: Protect dev_list with opp_table lock
- of/unittest: Fix I2C bus unit-address error
- libfdt: Ensure INT_MAX is defined in libfdt_env.h
- power: supply: twl4030_charger: fix charging current out-of-bounds
- power: supply: twl4030_charger: disable eoc interrupt on linear charge
- net: mvpp2: fix the number of queues per cpu for PPv2.2
- net: marvell: fix return type of ndo_start_xmit function
- net: toshiba: fix return type of ndo_start_xmit function
- net: xilinx: fix return type of ndo_start_xmit function
- net: broadcom: fix return type of ndo_start_xmit function
- net: amd: fix return type of ndo_start_xmit function
- net: sun: fix return type of ndo_start_xmit function
- net: hns3: Fix for setting speed for phy failed problem
- net: hns3: Fix cmdq registers initialization issue for vf

- net: hns3: Clear client pointer when initialize client failed or unintialize finished
- net: hns3: Fix client initialize state issue when roce client initialize failed
- net: hns3: Fix parameter type for q_id in hclge_tm_q_to_qs_map_cfg()
- nfp: provide a better warning when ring allocation fails
- usb: chipidea: imx: enable OTG overcurrent in case USB subsystem is already started
- usb: chipidea: Fix otg event handler
- usb: usbtmc: Fix ioctl USBTMC_IOCTL_ABORT_BULK_OUT
- [s390x] zcrypt: enable AP bus scan without a valid default domain
- [s390x] vdso: avoid 64-bit vdso mapping for compat tasks
- [s390x] vdso: correct CFI annotations of vDSO functions
- brcmfmac: increase buffer for obtaining firmware capabilities
- brcmsmac: Use kvmalloc() for ucode allocations
- mlxsw: spectrum: Init shaper for TCs 8..15
- PCI: portdry: Initialize service drivers directly
- [armhf] dts: am335x-evm: fix number of cpsw
- [armhf] dts: ti: Fix SPI and I2C bus warnings
- f2fs: avoid infinite loop in f2fs alloc nid
- f2fs: fix to recover inode's uid/gid during POR
- [armhf] dts: ux500: Correct SCU unit address
- [armhf] dts: ux500: Fix LCDA clock line muxing
- [armhf] dts: ste: Fix SPI controller node names
- spi: pic32: Use proper enum in dmaengine_prep_slave_rg
- crypto: chacha20 Fix chacha20_block() keystream alignment (again)
- cpufeature: avoid warning when compiling with clang
- [armhf] crypto: crc32 avoid warning when compiling with Clang
- [armel] dts: marvell: Fix SPI and I2C bus warnings
- [x86] mce-inject: Reset injection struct after injection
- [armhf,arm64] dts: clearfog: fix sdhci supply property name
- bnx2x: Ignore bandwidth attention in single function mode
- PCI/AER: Take reference on error devices
- PCI/AER: Don't read upstream ports below fatal errors
- PCI/ERR: Use slot reset if available
- samples/bpf: fix compilation failure
- net: phy: mdio-bcm-unimac: Allow configuring MDIO clock divider
- net: micrel: fix return type of ndo_start_xmit function
- net: freescale: fix return type of ndo_start_xmit function

- [x86] CPU: Use correct macros for Cyrix calls
- [x86] CPU: Change query logic so CPUID is enabled before testing
- EDAC: Correct DIMM capacity unit symbol
- [mips*] kexec: Relax memory restriction
- [arm64] dts: rockchip: Fix microSD in rk3399 sapphire board
- mlxsw: Make MLXSW SP1 FWREV MINOR a hard requirement
- media: imx: work around false-positive warning, again
- media: pci: ivtv: Fix a sleep-in-atomic-context bug in ivtv_yuv_init()
- media: au0828: Fix incorrect error messages
- media: davinci: Fix implicit enum conversion warning
- [armhf] dts: rockchip: explicitly set vcc_sd0 pin to gpio on rk3188-radxarock
- usb: gadget: uvc: configfs: Drop leaked references to config items
- usb: gadget: uvc: configfs: Prevent format changes after linking header
- usb: gadget: uvc: configfs: Sort frame intervals upon writing
- [armhf] dts: exynos: Correct audio subsystem parent clock on Peach Chromebooks
- i2c: aspeed: fix invalid clock parameters for very large divisors
- gpiolib: Fix gpio_direction_* for single direction GPIOs
- phy: brcm-sata: allow PHY_BRCM_SATA driver to be built for DSL SoCs
- phy: renesas: rcar-gen3-usb2: fix vbus_ctrl for role sysfs
- phy: phy-twl4030-usb: fix denied runtime access
- [armhf] dts: imx6ull: update vdd_soc voltage for 900MHz operating point
- usb: gadget: uvc: Factor out video USB request queueing
- usb: gadget: uvc: Only halt video streaming endpoint in bulk mode
- coresight: Use ERR_CAST instead of ERR_PTR
- coresight: Fix handling of sinks
- coresight: perf: Fix per cpu path management
- coresight: perf: Disable trace path upon source error
- coresight: tmc-etr: Handle driver mode specific ETR buffers
- coresight: etm4x: Configure EL2 exception level when kernel is running in HYP
- coresight: tmc: Fix byte-address alignment for RRP
- coresight: dynamic-replicator: Handle multiple connections
- slimbus: ngd: register ngd driver only once.
- slimbus: ngd: return proper error code instead of zero
- silmbus: ngd: register controller after power up.
- misc: kgdbts: Fix restrict error
- misc: genwqe: should return proper error value.

- vmbus: keep pointer to ring buffer page
- vfio/pci: Fix potential memory leak in vfio_msi_cap_len
- vfio/pci: Mask buggy SR-IOV VF INTx support
- iw_cxgb4: Use proper enumerated type in c4iw_bar2_addrs
- scsi: libsas: always unregister the old device if going to discover new
- f2fs: fix remount problem of option io bits
- phy: lantiq: Fix compile warning
- [arm64] dts: fsl: Fix I2C and SPI bus warnings
- [armhf] dts: imx51-zii-rdu1: Fix the rtc compatible string
- [arm64] tegra: I2C on Tegra194 is not compatible with Tegra114
- [armhf] dts: tegra30: fix xcvr-setup-use-fuses
- [armhf] dts: tegra20: restore address order
- [armhf] tegra: apalis_t30: fix mmc1 cmd pull-up
- [armhf] tegra: apalis_t30: fix mcp2515 can controller interrupt polarity
- [armhf] tegra: colibri_t30: fix mcp2515 can controller interrupt polarity
- [armhf] dts: paz00: fix wakeup gpio keycode
- net: smsc: fix return type of ndo start xmit function
- net: faraday: fix return type of ndo_start_xmit function
- PCI/ERR: Run error recovery callbacks for all affected devices
- f2fs: update i_size after DIO completion
- f2fs: fix to recover inode's project id during POR
- f2fs: mark inode dirty explicitly in recover_inode()
- RDMA: Fix dependencies for rdma_user_mmap_io
- EDAC: Raise the maximum number of memory controllers
- firmware: dell_rbu: Make payload memory uncachable
- Bluetooth: hci_serdev: clear HCI_UART_PROTO_READY to avoid closing proto races
- Bluetooth: L2CAP: Detect if remote is not able to use the whole MPS
- Bluetooth: btrsi: fix bt tx timeout issue
- [x86] hyperv: Suppress "PCI: Fatal: No config space access function found"
- crypto: s5p-sss: Fix race in error handling
- crypto: s5p-sss: Fix Fix argument list alignment
- crypto: fix a memory leak in rsa-kcs1pad's encryption mode
- iwlwifi: dbg: don't crash if the firmware crashes in the middle of a debug dump
- iwlwifi: fix non_shared_ant for 22000 devices
- iwlwifi: pcie: read correct prph address for newer devices
- iwlwifi: api: annotate compressed BA notif array sizes

- iwlwifi: pcie: gen2: build A-MSDU only for GSO
- iwlwifi: pcie: fit reclaim msg to MAX_MSG_LEN
- iwlwifi: mvm: use correct FIFO length
- iwlwifi: mvm: Allow TKIP for AP mode
- scsi: NCR5380: Clear all unissued commands on host reset
- scsi: NCR5380: Have NCR5380 select() return a bool
- scsi: NCR5380: Withhold disconnect privilege for REQUEST SENSE
- scsi: NCR5380: Use DRIVER_SENSE to indicate valid sense data
- scsi: NCR5380: Check for invalid reselection target
- scsi: NCR5380: Don't clear busy flag when abort fails
- scsi: NCR5380: Don't call dsprintk() following reselection interrupt
- scsi: NCR5380: Handle BUS FREE during reselection
- scsi: NCR5380: Check for bus reset
- [arm64] dts: amd: Fix SPI bus warnings
- [arm64] dts: lg: Fix SPI controller node names
- rtc: is11208: avoid possible sysfs race
- rtc: tx4939: fixup nvmem name and register size
- rtc: armada38x: fix possible race condition
- netfilter: masquerade: don't flush all conntracks if only one address deleted on device
- usb: xhci-mtk: fix ISOC error when interval is zero
- usb: usbtmc: uninitialized symbol 'actual' in usbtmc_ioctl_clear
- fuse: use READ_ONCE on congestion_threshold and max_background
- IB/iser: Fix possible NULL deref at iser_inv_desc()
- media: ov2680: fix null dereference at power on
- [s390x] vdso: correct vdso mapping for compat tasks
- net: phy: mdio-bcm-unimac: mark PM functions as __maybe_unused
- memfd: Use radix_tree_deref_slot_protected to avoid the warning.
- slcan: Fix memory leak in error path

- spi: mediatek: use correct mata->xfer_len when in fifo transfer
- i2c: mediatek: modify threshold passed to i2c_get_dma_safe_msg_buf()
- tee: optee: add missing of_node_put after of_device_is_available
- Revert "OPP: Protect dev_list with opp_table lock"
- net: cdc_ncm: Signedness bug in cdc_ncm_set_dgram_size()
- idr: Fix idr_get_next race with idr_remove
- mm/memory hotplug: don't access uninitialized memmaps in shrink pgdat span()

- mm/memory_hotplug: fix updating the node span
- [arm64] uaccess: Ensure PAN is re-enabled after unhandled uaccess fault
- fbdev: Ditch fb_edid_add_monspecs
- [i386] bpf, x32: Fix bug for BPF_ALU64 | BPF_NEG
- [i386] bpf, x32: Fix bug with ALU64 {LSH, RSH, ARSH} BPF_X shift by 0
- [i386] bpf, x32: Fix bug with ALU64 {LSH, RSH, ARSH} BPF K shift by 0
- [i386] bpf, x32: Fix bug for BPF_JMP | {BPF_JSGT, BPF_JSLE, BPF_JSLT, BPF_JSGE}
- net: ovs: fix return type of ndo_start_xmit function
- net: xen-netback: fix return type of ndo_start_xmit function
- [armhf] dts: dra7: Enable workaround for errata i870 in PCIe host mode
- [armhf] dts: omap5: enable OTG role for DWC3 controller
- [arm64] net: hns3: Fix for netdev not up problem when setting mtu
- [arm64] net: hns3: Fix loss of coal configuration while doing reset
- f2fs: return correct errno in f2fs_gc
- [armhf] dts: sun8i: h3-h5: ir register size should be the whole memory block
- [armhf] dts: sun8i: h3: bpi-m2-plus: Fix address for external RGMII Ethernet PHY
- tcp: up initial rmem to 128KB and SYN rwin to around 64KB
- SUNRPC: Fix priority queue fairness
- ACPI / LPSS: Make acpi_lpss_find_device() also find PCI devices
- ACPI / LPSS: Resume BYT/CHT I2C controllers from resume_noirq
- f2fs: keep lazytime on remount
- IB/hfi1: Error path MAD response size is incorrect
- IB/hfi1: Ensure ucast_dlid access doesnt exceed bounds
- mt76x2: fix tx power configuration for VHT mcs 9
- mt76x2: disable WLAN core before probe
- mt76: fix handling ps-poll frames
- [arm64,armhf] iommu/io-pgtable-arm: Fix race handling in split_blk_unmap()
- [arm64,armhf] iommu/arm-smmu-v3: Fix unexpected CMD SYNC timeout
- [arm64,armhf] kvm: Fix stage2_flush_memslot for 4 level page table
- [arm64] numa: Report correct memblock range for the dummy node
- ath10k: fix vdev-start timeout on error
- rtlwifi: btcoex: Use proper enumerated types for Wi-Fi only interface
- ata: ahci_brcm: Allow using driver or DSL SoCs
- PM / devfreq: Fix devfreq_add_device() when drivers are built as modules.
- PM / devfreq: Fix handling of min/max_freq == 0
- PM / devfreq: stopping the governor before device unregister()

- ath9k: fix reporting calculated new FFT upper max
- selftests/tls: Fix recv(MSG_PEEK) & splice() test cases
- usb: gadget: udc: fotg210-udc: Fix a sleep-in-atomic-context bug in fotg210_get_status()
- usb: dwc3: gadget: Check ENBLSLPM before sending ep command
- nl80211: Fix a GET KEY reply attribute
- [arm64,armhf] irqchip/irq-mvebu-icu: Fix wrong private data retrieval
- watchdog: core: fix null pointer dereference when releasing cdev
- watchdog: w83627hf_wdt: Support NCT6796D, NCT6797D, NCT6798D
- [ppc64el,powerpc64] Inform the userspace about TCE update failures
- printk: Do not miss new messages when replaying the log
- printk: CON_PRINTBUFFER console registration is a bit racy
- dmaengine: ep93xx: Return proper enum in ep93xx_dma_chan_direction
- dmaengine: timb_dma: Use proper enum in td_prep_slave_sg
- [x86] ALSA: hda: Fix mismatch for register mask and value in ext controller.
- ext4: fix build error when DX_DEBUG is defined
- clk: keystone: Enable TISCI clocks if K3_ARCH
- sunrpc: Fix connect metrics
- [x86] PCI: Apply VMD's AERSID fixup generically
- mei: samples: fix a signedness bug in amt_host_if_call()
- cxgb4: Use proper enum in cxgb4_dcb_handle_fw_update
- cxgb4: Use proper enum in IEEE_FAUX_SYNC
- [ppc64el,powerpc*] Fix DTL buffer registration
- [ppc64el,powerpc*] Fix how we iterate over the DTL entries
- [ppc64el,powerpc*] xive: Move a dereference below a NULL test
- mtd: rawnand: sh_flctl: Use proper enum for flctl_dma_fifo0_transfer
- PM / hibernate: Check the success of generating md5 digest before hibernation
- tools: PCI: Fix compilation warnings
- ice: Fix forward to queue group logic
- md: allow metadata updates while suspending an array fix
- ixgbe: Fix ixgbe TX hangs with XDP_TX beyond queue limit
- i40e: Use proper enum in i40e_ndo_set_vf_link_state
- ixgbe: Fix crash with VFs and flow director on interface flap
- IB/mthca: Fix error return code in __mthca_init_one()
- IB/rxe: avoid srq memory leak
- RDMA/hns: Bugfix for reserved qp number
- RDMA/hns: Submit bad wr when post send wr exception

- RDMA/hns: Bugfix for CM test
- RDMA/hns: Limit the size of extend sge of sq
- IB/mlx4: Avoid implicit enumerated type conversion
- rpmsg: glink: smem: Support rx peak for size less than 4 bytes
- msm/gpu/a6xx: Force of_dma_configure to setup DMA for GMU
- OPP: Return error on error from dev pm opp get opp count()
- ACPICA: Never run _REG on system_memory and system_IO
- cpuidle: menu: Fix wakeup statistics updates for polling state
- ASoC: qdsp6: q6asm-dai: checking NULL vs IS_ERR()
- [ppc64el,powerpc*] time: Use clockevents_register_device(), fixing an issue with large decrementer
- [ppc64el,powerpc64] radix: Explicitly flush ERAT with local LPID invalidation
- ata: ep93xx: Use proper enums for directions
- qed: Avoid implicit enum conversion in qed_ooo_submit_tx_buffers
- media: rc: ir-rc6-decoder: enable toggle bit for Kathrein RCU-676 remote
- media: pxa_camera: Fix check for pdev->dev.of_node
- media: rcar-vin: fix redeclaration of symbol
- media: i2c: adv748x: Support probing a single output
- [x86] ALSA: hda/sigmatel Disable automute for Elo VuPoint
- bnxt_en: return proper error when FW returns HWRM_ERR_CODE_RESOURCE_ACCESS_DENIED
- [ppc64el,powerpc64] Book3S PR: Exiting split hack mode needs to fixup both PC and LR
- USB: serial: cypress_m8: fix interrupt-out transfer length
- usb: dwc2: disable power_down on rockchip devices
- mtd: physmap_of: Release resources on error
- cpu/SMT: State SMT is disabled even with nosmt and without "=force"
- brcmfmac: reduce timeout for action frame scan
- bremfmac: fix full timeout waiting for action frame on-channel tx
- qtnfmac: request userspace to do OBSS scanning if FW can not
- qtnfmac: pass sgi rate info flag to wireless core
- qtnfmac: inform wireless core about supported extended capabilities
- qtnfmac: drop error reports for out-of-bounds key indexes
- [armhf] clk: samsung: Use NOIRQ stage for Exynos5433 clocks suspend/resume
- [armhf] clk: samsung: exynos5420: Define CLK_SECKEY gate clock only or Exynos5420
- [armhf] clk: samsung: Use clk_hw API for calling clk framework from clk notifiers
- printk: Correct wrong casting
- NFSv4.x: fix lock recovery during delegation recall
- dmaengine: ioat: fix prototype of ioat_enumerate_channels

- media: ov5640: fix framerate update
- media: cec-gpio: select correct Signal Free Time
- gfs2: slow the deluge of io error messages
- i2c: omap: use core to detect 'no zero length' quirk
- i2c: qup: use core to detect 'no zero length' quirk
- i2c: tegra: use core to detect 'no zero length' quirk
- i2c: zx2967: use core to detect 'no zero length' quirk
- Input: st1232 set INPUT_PROP_DIRECT property
- Input: silead try firmware reload after unsuccessful resume
- soc: fsl: bman_portals: defer probe after bman's probe
- net: hns3: Fix for rx vlan id handle to support Rev 0x21 hardware
- tc-testing: fix build of eBPF programs
- remoteproc: Check for NULL firmwares in sysfs interface
- remoteproc: qcom: q6v5: Fix a race condition on fatal crash
- kexec: Allocate decrypted control pages for kdump if SME is enabled
- [x86] olpc: Fix build error with CONFIG MFD CS5535=m
- dmaengine: rcar-dmac: set scatter/gather max segment size
- xfrm: use correct size to initialise sp->ovec
- ACPI / SBS: Fix rare oops when removing modules
- iwlwifi: mvm: don't send keys when entering D3
- xsk: proper AF_XDP socket teardown ordering
- [amd64] fsgsbase: Fix ptrace() to read the FS/GS base accurately
- mmc: renesas_sdhi_internal_dmac: Whitelist r8a774a1
- mmc: tmio: Fix SCC error detection
- mmc: renesas_sdhi_internal_dmac: set scatter/gather max segment size
- fbdev: sbuslib: use checked version of put_user()
- fbdev: sbuslib: integer overflow in sbusfb_ioctl_helper()
- fbdev: fix broken menu dependencies
- reset: Fix potential use-after-free in __of_reset_control_get()
- bcache: account size of buckets used in uuid write to ca->meta_sectors_written
- bcache: recal cached_dev_sectors on detach
- [x86] platform: mlx-platform: Properly use mlxplat_mlxcpld_msn201x_items
- media: dw9714: Fix error handling in probe function
- media: dw9807-vcm: Fix probe error handling
- media: cx18: Don't check for address of video_dev
- mtd: spi-nor: cadence-quadspi: Use proper enum for dma [un]map single

- mtd: devices: m25p80: Make sure WRITE_EN is issued before each write
- [x86] intel_rdt: Introduce utility to obtain CDP peer
- [x86] intel_rdt: CBM overlap should also check for overlap with CDP peer
- mmc: mmci: expand startbiterr to irqmask and error check
- [s390x] kasan: avoid vdso instrumentation
- [s390x] kasan: avoid instrumentation of early C code
- [s390x] kasan: avoid user access code instrumentation
- [i386] proc/vmcore: Fix i386 build error of missing copy_oldmem_page_encrypted()
- backlight: lm3639: Unconditionally call led_classdev_unregister
- mfd: ti_am335x_tscadc: Keep ADC interface on if child is wakeup capable
- printk: Give error on attempt to set log buffer length to over 2G
- media: isif: fix a NULL pointer dereference bug
- GFS2: Flush the GFS2 delete workqueue before stopping the kernel threads
- media: cx231xx: fix potential sign-extension overflow on large shift
- media: venus: vdec: fix decoded data size
- [x86] ALSA: hda/ca0132 Fix input effect controls for desktop cards
- lightnym: pblk: fix rqd.error return value in pblk_blk_erase_sync
- lightnvm: pblk: fix incorrect min_write_pgs
- lightnym: pblk: guarantee emeta on line close
- lightnym: pblk: fix write amplificiation calculation
- lightnym: pblk: guarantee mw_cunits on read buffer
- lightnym: do no update csecs and sos on 1.2
- lightnvm: pblk: fix error handling of pblk_lines_init()
- lightnym: pblk: consider max hw sectors supported for max_write_pgs
- [x86] kexec: Correct KEXEC_BACKUP_SRC_END off-by-one error
- bpf: btf: Fix a missing check bug
- net: fix generic XDP to handle if eth header was mangled
- gpio: syscon: Fix possible NULL ptr usage
- spi: fsl-lpspi: Prevent FIFO under/overrun by default
- pinctrl: gemini: Mask and set properly
- spi: spidev: Fix OF tree warning logic
- [armel,armhf] 8802/1: Call syscall_trace_exit even when system call skipped
- [x86] mm: Do not warn about PCI BIOS W+X mappings
- orangefs: rate limit the client not running info message
- pinctrl: gemini: Fix up TVC clock group
- scsi: arcmsr: clean up clang warning on extraneous parentheses

- [x86] hwmon: (k10temp) Support all Family 15h Model 6xh and Model 7xh processors
- hwmon: (nct6775) Fix names of DIMM temperature sources
- hwmon: (pwm-fan) Silence error on probe deferral
- hwmon: (ina3221) Fix INA3221_CONFIG_MODE macros
- hwmon: (npcm-750-pwm-fan) Change initial pwm target to 255
- selftests: forwarding: Have lldpad app wait set() wait for unknown, too
- net: sched: avoid writing on noop_qdisc
- netfilter: nft_compat: do not dump private area
- misc: cxl: Fix possible null pointer dereference
- mac80211: minstrel: fix using short preamble CCK rates on HT clients
- mac80211: minstrel: fix CCK rate group streams value
- mac80211: minstrel: fix sampling/reporting of CCK rates in HT mode
- spi: rockchip: initialize dma_slave_config properly
- mlxsw: spectrum_switchdev: Check notification relevance based on upper device
- [armhf] dts: omap5: Fix dual-role mode on Super-Speed port
- tcp: start receiver buffer autotuning sooner
- ACPI / LPSS: Use acpi_lpss_* instead of acpi_subsys_* functions for hibernate
- PM / devfreq: Fix static checker warning in try_then_request_governor
- tools: PCI: Fix broken poitest compilation
- [ppc64el,powerpc*] time: Fix clockevent_decrementer initalisation for PR KVM
- mmc: tmio: fix SCC error handling to avoid false positive CRC error
- [x86] resctrl: Fix rdt_find_domain() return value and checks

- mlxsw: spectrum_router: Fix determining underlay for a GRE tunnel
- net/mlx4_en: fix mlx4 ethtool -N insertion
- net/mlx4_en: Fix wrong limitation for number of TX rings
- net: rtnetlink: prevent underflows in do_setvfinfo()
- net/sched: act pedit: fix WARN() in the traffic path
- net: sched: ensure opts_len <= IP_TUNNEL_OPTS_MAX in act_tunnel_key</p>
- sfc: Only cancel the PPS workqueue if it exists
- net/mlx5e: Fix set vf link state error flow
- net/mlxfw: Verify FSM error code translation doesn't exceed array size
- net/mlx5: Fix auto group size calculation
- vhost/vsock: split packets to send using multiple buffers
- gpio: max77620: Fixup debounce delays
- tools: gpio: Correctly add make dependencies for gpio utils

- nbd:fix memory leak in nbd_get_socket()
- virtio_console: allocate inbufs in add_port() only if it is needed
- Revert "fs: ocfs2: fix possible null-pointer dereferences in ocfs2_xa_prepare_entry()"
- mm/ksm.c: don't WARN if page is still mapped in remove_stable_node()
- [x86] drm/amd/powerplay: issue no PPSMC_MSG_GetCurrPkgPwr on unsupported ASICs
- [x86] drm/i915/pmu: "Frequency" is reported as accumulated cycles
- [x86] drm/i915/userptr: Try to acquire the page lock around set_page_dirty()
- mwifiex: Fix NL80211_TX_POWER_LIMITED
- ALSA: isight: fix leak of reference to firewire unit in error path of .probe callback
- crypto: testmgr fix sizeof() on COMP_BUF_SIZE
- printk: lock/unlock console only for new logbuf entries
- printk: fix integer overflow in setup_log_buf()
- pinctrl: madera: Fix uninitialized variable bug in madera_mux_set_mux
- PCI: cadence: Write MSI data with 32bits
- gfs2: Fix marking bitmaps non-full
- pty: fix compat ioctls
- synclink_gt(): fix compat_ioctl()
- [ppc64] Fix signedness bug in update_flash_db()
- [powerpc] boot: Fix opal console in boot wrapper
- [ppc64*,powerpc] boot: Disable vector instructions
- [ppc64*,powerpc] eeh: Fix null deref for devices removed during EEH
- [ppc64*,powerpc] eeh: Fix use of EEH_PE_KEEP on wrong field
- EDAC, thunderx: Fix memory leak in thunderx_l2c_threaded_isr()
- mt76: do not store aggregation sequence number for null-data frames
- mt76x0: phy: fix restore phase in mt76x0_phy_recalibrate_after_assoc
- brcmsmac: AP mode: update beacon when TIM changes
- ath10k: set probe request oui during driver start
- ath10k: allocate small size dma memory in ath10k pci diag write mem
- skd: fixup usage of legacy IO API
- cdrom: don't attempt to fiddle with cdo->capability
- spi: sh-msiof: fix deferred probing
- mmc: mediatek: fill the actual clock for mmc debugfs
- mmc: mediatek: fix cannot receive new request when msdc_cmd_is_ready fail
- PCI: mediatek: Fix class type for MT7622 to PCI_CLASS_BRIDGE_PCI
- btrfs: defrag: use btrfs_mod_outstanding_extents in cluster_pages_for_defrag
- btrfs: handle error of get_old_root

- gsmi: Fix bug in append_to_eventlog sysfs handler
- misc: mic: fix a DMA pool free failure
- w1: IAD Register is yet readable trough iad sys file. Fix snprintf (%u for unsigned, count for max size).
- [m68k] fix command-line parsing when passed from u-boot
- RDMA/bnxt re: Avoid NULL check after accessing the pointer
- RDMA/bnxt re: Fix qp async event reporting
- RDMA/bnxt_re: Avoid resource leak in case the NQ registration fails
- pinctrl: sunxi: Fix a memory leak in 'sunxi_pinctrl_build_state()'
- pwm: lpss: Only set update bit if we are actually changing the settings
- amiflop: clean up on errors during setup
- qed: Align local and global PTT to propagate through the APIs.
- scsi: ips: fix missing break in switch
- nfp: bpf: protect against mis-initializing atomic counters
- [x86] KVM: nVMX: reset cache/shadows when switching loaded VMCS
- [x86] KVM: nVMX: move check_vmentry_postreqs() call to nested_vmx_enter_non_root_mode()
- [x86] KVM: Fix invvpid and invept register operand size in 64-bit mode
- clk: tegra: Fixes for MBIST work around
- scsi: isci: Use proper enumerated type in atapi_d2h_reg_frame_handler
- scsi: isci: Change sci_controller_start_task's return type to sci_status
- scsi: bfa: Avoid implicit enum conversion in bfad_im_post_vendor_event
- scsi: iscsi_tcp: Explicitly cast param in iscsi_sw_tcp_host_get_param
- nvmet: avoid integer overflow in the discard code
- nvmet-fcloop: suppress a compiler warning
- nvme-pci: fix hot removal during error handling
- PCI: mediatek: Fixup MSI enablement logic by enabling MSI before clocks
- clk: mmp2: fix the clock id for sdh2_clk and sdh3_clk
- ASoC: tegra_sgtl5000: fix device_node refcounting
- scsi: dc395x: fix dma API usage in srb done
- scsi: dc395x: fix DMA API usage in sg_update_list
- scsi: zorro_esp: Limit DMA transfers to 65535 bytes
- net: dsa: mv88e6xxx: Fix 88E6141/6341 2500mbps SERDES speed
- net: fix warning in af_unix
- xfs: fix use-after-free race in xfs_buf_rele
- xfs: clear ail delwri queued bufs on unmount of shutdown fs
- kprobes, x86/ptrace.h: Make regs_get_kernel_stack_nth() not fault on bad stack
- ACPI / scan: Create platform device for INT33FE ACPI nodes

- PM / Domains: Deal with multiple states but no governor in genpd
- ALSA: i2c/cs8427: Fix int to char conversion
- macintosh/windfarm_smu_sat: Fix debug output
- PCI: vmd: Detach resources after stopping root bus
- USB: misc: appledisplay: fix backlight update_status return code
- usbip: tools: fix atoi() on non-null terminated string
- sctp: use sk_wmem_queued to check for writable space
- dm raid: avoid bitmap with raid4/5/6 journal device
- selftests/bpf: fix file resource leak in load_kallsyms
- SUNRPC: Fix a compile warning for cmpxchg64()
- sunrpc: safely reallow resvport min/max inversion
- atm: zatm: Fix empty body Clang warnings
- [s390x] perf: Return error when debug_register fails
- swiotlb: do not panic on mapping failures
- spi: omap2-mcspi: Set FIFO DMA trigger level to word length
- [x86] intel_rdt: Prevent pseudo-locking from using stale pointers
- sparc: Fix parport build warnings.
- [ppc64*,powerpc] pseries: Export raw per-CPU VPA data via debugfs
- [ppc64*,powerpc] mm/radix: Fix off-by-one in split mapping logic
- [ppc64*,powerpc] mm/radix: Fix overuse of small pages in splitting logic
- [ppc64*,powerpc] mm/radix: Fix small page at boundary when splitting
- [ppc64*] radix: Fix radix__flush_tlb_collapsed_pmd double flushing pmd
- selftests/bpf: fix return value comparison for tests in test_libbpf.sh
- tools: bpftool: fix completion for "bpftool map update"
- ceph: fix dentry leak in ceph_readdir_prepopulate
- ceph: only allow punch hole mode in fallocate
- thermal: armada: fix a test in probe()
- f2fs: fix to spread clear cold data()
- f2fs: spread f2fs_set_inode_flags()
- mISDN: Fix type of switch control variable in ctrl_teimanager
- qlcnic: fix a return in qlcnic_dcb_get_capability()
- net: ethernet: ti: cpsw: unsync mcast entries while switch promisc mode
- mfd: arizona: Correct calling of runtime_put_sync
- mfd: mc13xxx-core: Fix PMIC shutdown when reading ADC values
- [x86] mfd: intel_soc_pmic_bxtwc: Chain power button IRQs as well
- mfd: max8997: Enale irq-wakeup unconditionally

- net: socionext: Stop PHY before resetting netsec
- fs/cifs: fix uninitialised variable warnings
- spi: uniphier: fix incorrect property items
- selftests/ftrace: Fix to test kprobe \$comm arg only if available
- selftests: watchdog: fix message when /dev/watchdog open fails
- selftests: watchdog: Fix error message.
- selftests: kvm: Fix -Wformat warnings
- selftests: fix warning: "_GNU_SOURCE" redefined
- net: ethernet: cadence: fix socket buffer corruption problem
- bpf: devmap: fix wrong interface selection in notifier_call
- bpf, btf: fix a missing check bug in btf_parse
- [sparc64] Rework xchg() definition to avoid warnings.
- [arm64] lib: use C string functions with KASAN enabled
- fs/ocfs2/dlm/dlmdebug.c: fix a sleep-in-atomic-context bug in dlm_print_one_mle()
- mm/page-writeback.c: fix range_cyclic writeback vs writepages deadlock
- tools/testing/selftests/vm/gup_benchmark.c: fix 'write' flag usage
- mm: thp: fix MADV_DONTNEED vs migrate_misplaced_transhuge_page race condition
- macsec: update operstate when lower device changes
- macsec: let the administrator set UP state even if lowerdev is down
- block: fix the DISCARD request merge
- i2c: uniphier-f: make driver robust against concurrency
- i2c: uniphier-f: fix occasional timeout error
- i2c: uniphier-f: fix race condition when IRQ is cleared
- um: Make line/tty semantics use true write IRQ
- vfs: avoid problematic remapping requests into partial EOF block
- ipv4/igmp: fix v1/v2 switchback timeout based on rfc3376, 8.12
- [ppc64*,powerpc] xmon: Relax frame size for clang
- [ppc64*,powerpc] selftests/ptrace: Fix out-of-tree build
- [ppc64*,powerpc] selftests/signal: Fix out-of-tree build
- [ppc64*,powerpc] selftests/switch_endian: Fix out-of-tree build
- [ppc64*,powerpc] selftests/cache_shape: Fix out-of-tree build
- block: call rq_qos_exit() after queue is frozen
- mm/gup_benchmark.c: prevent integer overflow in ioctl
- linux/bitmap.h: handle constant zero-size bitmaps correctly
- linux/bitmap.h: fix type of nbits in bitmap_shift_right()
- lib/bitmap.c: fix remaining space computation in bitmap print to pagebuf

- hfsplus: fix BUG on bnode parent update
- hfs: fix BUG on bnode parent update
- hfsplus: prevent btree data loss on ENOSPC
- hfs: prevent btree data loss on ENOSPC
- hfsplus: fix return value of hfsplus get block()
- hfs: fix return value of hfs get block()
- hfsplus: update timestamps on truncate()
- hfs: update timestamp on truncate()
- fs/hfs/extent.c: fix array out of bounds read of array extent
- kernel/panic.c: do not append newline to the stack protector panic string
- mm/memory_hotplug: make add_memory() take the device_hotplug_lock
- mm/memory_hotplug: fix online/offline_pages called w.o. mem_hotplug_lock
- [ppc64*,powerprc] powerpc/powernv: hold device_hotplug_lock when calling device_online()
- igb: shorten maximum PHC timecounter update interval
- fm10k: ensure completer aborts are marked as non-fatal after a resume
- [arm64] net: hns3: bugfix for buffer not free problem during resetting
- [arm64] net: hns3: bugfix for reporting unknown vector0 interrupt repeatly problem
- [arm64] net: hns3: bugfix for is_valid_csq_clean_head()
- [arm64] net: hns3: bugfix for hclge_mdio_write and hclge_mdio_read
- ntb_netdev: fix sleep time mismatch
- [x86] ntb: intel: fix return value for ndev_vec_mask()
- irq/matrix: Fix memory overallocation
- nvme-pci: fix conflicting p2p resource adds
- [arm64] makefile fix build of .i file in external module case
- [x86] tools/power turbosat: fix AMD APIC-id output
- mm: handle no memcg case in memcg_kmem_charge() properly
- ocfs2: without quota support, avoid calling quota recovery
- ocfs2: don't use iocb when EIOCBQUEUED returns
- ocfs2: don't put and assigning null to bh allocated outside
- ocfs2: fix clusters leak in ocfs2_defrag_extent()
- net: do not abort bulk send on BQL status
- sched/topology: Fix off by one bug
- sched/fair: Don't increase sd->balance_interval on newidle balance
- openvswitch: fix linking without CONFIG_NF_CONNTRACK_LABELS
- [armhf] dts: imx6sx-sdb: Fix enet phy regulator
- [arm64] sunxi-ng: enable so-said LDOs for A64 SoC's pll-mipi clock

- soc: bcm: brcmstb: Fix re-entry point with a THUMB2_KERNEL
- audit: print empty EXECVE args
- sock_diag: fix autoloading of the raw_diag module
- net: bpfilter: fix iptables failure if bpfilter_umh is disabled
- nds32: Fix bug in bitfield.h
- media: ov13858: Check for possible null pointer
- btrfs: avoid link error with CONFIG_NO_AUTO_INLINE
- wil6210: fix debugfs memory access alignment
- wil6210: fix L2 RX status handling
- wil6210: fix RGF_CAF_ICR address for Talyn-MB
- wil6210: fix locking in wmi_call
- ath10k: snoc: fix unbalanced clock error handling
- wlcore: Fix the return value in case of error in 'wlcore_vendor_cmd_smart_config_start()'
- rtl8xxxu: Fix missing break in switch
- brcmsmac: never log "tid x is not agg able" by default
- wireless: airo: potential buffer overflow in sprintf()
- rtlwifi: rtl8192de: Fix misleading REG_MCUFWDL information
- net: dsa: bcm_sf2: Turn on PHY to allow successful registration
- scsi: mpt3sas: Fix Sync cache command failure during driver unload
- scsi: mpt3sas: Don't modify EEDPTagMode field setting on SAS3.5 HBA devices
- scsi: mpt3sas: Fix driver modifying persistent data in Manufacturing page11
- scsi: megaraid_sas: Fix msleep granularity
- scsi: megaraid_sas: Fix goto labels in error handling
- scsi: lpfc: fcoe: Fix link down issue after 1000+ link bounces
- scsi: lpfc: Fix odd recovery in duplicate FLOGIs in point-to-point
- scsi: lpfc: Correct loss of fc4 type on remote port address change
- usb: typec: tcpm: charge current handling for sink during hard reset
- dlm: fix invalid free
- dlm: don't leak kernel pointer to userspace
- vrf: mark skb for multicast or link-local as enslaved to VRF
- clk: tegra20: Turn EMC clock gate into divider
- ACPICA: Use %d for signed int print formatting instead of %u
- net: bcmgenet: return correct value 'ret' from bcmgenet_power_down
- of: unittest: allow base devicetree to have symbol metadata
- of: unittest: initialize args before calling of_*parse_*()
- tools: bpftool: pass an argument to silence open_obj_pinned()

- cfg80211: Prevent regulatory restore during STA disconnect in concurrent interfaces
- pinctrl: qcom: spmi-gpio: fix gpio-hog related boot issues
- pinctrl: bcm2835: Use define directive for BCM2835_PINCONF_PARAM_PULL
- pinctrl: lpc18xx: Use define directive for PIN_CONFIG_GPIO_PIN_INT
- pinctrl: zynq: Use define directive for PIN_CONFIG_IO_STANDARD
- PCI: keystone: Use quirk to limit MRRS for K2G
- nvme-pci: fix surprise removal
- spi: omap2-mcspi: Fix DMA and FIFO event trigger size mismatch
- i2c: uniphier-f: fix timeout error after reading 8 bytes
- mm/memory_hotplug: Do not unlock when fails to take the device_hotplug_lock
- ipv6: Fix handling of LLA with VRF and sockets bound to VRF
- cfg80211: call disconnect_wk when AP stops
- mm/page_io.c: do not free shared swap slots
- Bluetooth: Fix invalid-free in bcsp_close()
- KVM: MMU: Do not treat ZONE_DEVICE pages as being reserved
- ath10k: Fix a NULL-ptr-deref bug in ath10k_usb_alloc_urb_from_pipe
- ath9k hw: fix uninitialized variable data
- md/raid10: prevent access of uninitialized resync_pages offset
- mm/memory_hotplug: don't access uninitialized memmaps in shrink_zone_span()
- net: phy: dp83867: fix speed 10 in sgmii mode
- net: phy: dp83867: increase SGMII autoneg timer duration
- ocfs2: remove ocfs2_is_o2cb_active()
- [arm*] 8904/1: skip nomap memblocks while finding the lowmem/highmem boundary
- ARC: perf: Accommodate big-endian CPU
- [x86] insn: Fix awk regexp warnings
- [x86] speculation: Fix incorrect MDS/TAA mitigation status
- [x86] speculation: Fix redundant MDS mitigation message
- nbd: prevent memory leak
- y2038: futex: Move compat implementation into futex.c
- futex: Prevent robust futex exit race
- ALSA: usb-audio: Fix NULL dereference at parsing BADD
- nfc: port100: handle command failure cleanly
- media: vivid: Set vid_cap_streaming and vid_out_streaming to true
- media: vivid: Fix wrong locking that causes race conditions on streaming stop (CVE-2019-18683)
- media: usbvision: Fix races among open, close, and disconnect
- cpufreq: Add NULL checks to show() and store() methods of cpufreq

- media: uvcvideo: Fix error path in control parsing failure
- media: b2c2-flexcop-usb: add sanity checking
- media: cxusb: detect cxusb_ctrl_msg error in query
- media: imon: invalid dereference in imon_touch_event
- virtio_ring: fix return code on DMA mapping fails
- USBIP: add config dependency for SGL_ALLOC
- usbip: tools: fix fd leakage in the function of read_attr_usbip_status
- usbip: Fix uninitialized symbol 'nents' in stub_recv_cmd_submit()
- usb-serial: cp201x: support Mark-10 digital force gauge
- USB: chaoskey: fix error case of a timeout
- appledisplay: fix error handling in the scheduled work
- USB: serial: mos7840: add USB ID to support Moxa UPort 2210
- USB: serial: mos7720: fix remote wakeup
- USB: serial: mos7840: fix remote wakeup
- USB: serial: option: add support for DW5821e with eSIM support
- USB: serial: option: add support for Foxconn T77W968 LTE modules
- staging: comedi: usbduxfast: usbduxfast_ai_cmdtest rounding error
- [ppc64*] support nospectre_v2 cmdline option
- [ppc64*] book3s: Fix link stack flush on context switch (CVE-2019-18660)
- [ppc64*, powerpc] PPC: Book3S HV: Flush link stack on guest exit to host kernel
- PM / devfreq: Fix kernel oops on governor module load

Romain Perier

- [armel/rpi] Enable CONFIG_BRCMFMAC_SDIO (Closes: #940530)
- [armhf, arm64] Backport devicetree for enabling support for the Raspberry PI 3 A+

Salvatore Bonaccorso

- ixgbe: Fix secpath usage for IPsec TX offload (Closes: #930443)
- ipv4: Return -ENETUNREACH if we can't create route but saddr is valid (Closes: #945023)
- [x86] KVM: x86: introduce is_pae_paging (Regression in 4.19.77)
- [rt] Refresh 0011-sched-fair-Robustify-CFS-bandwidth-timer-locking.patch (context changes in 4.19.84)

Bastian Blank

• [amd64/cloud-amd64] Re-enable RTC drivers. (closes: #931341)

Noah Meyerhans

- drivers/net/ethernet/amazon: Backport driver fixes from Linux 5.4 (Closes: #941291)
- Bump ABI to 7

Ben Hutchings

• debian/bin/genpatch-rt: Fix series generation from git

- [rt] Update to 4.19.82-rt30:
 - Drop changes in "fs/dcache: disable preemption on i_dir_seq's write side" that conflict with "Fix the locking in dcache_readdir() and friends"
 - Rewrite "fs/aio: simple simple work" using kthread_work
 - Rewrite "thermal: Defer thermal wakups to threads" using kthread_work
 - Rewrite "block: blk-mq: move blk_queue_usage_counter_release() into process context" using kthread work
 - workqueue: rework

Benjamin Poirier

• tools/perf: Add python3 support to scripts (Closes: #944641)

Aurelien Jarno

- [rt] Refresh 0025-NFSv4-replace-seqcount_t-with-a-seqlock_t.patch (context changes in 4.19.86)
- [rt] Refresh 0202-net-Qdisc-use-a-seqlock-instead-seqcount.patch (context changes in 4.19.86)
- [rt] Refresh 0057-printk-Add-a-printk-kill-switch.patch (context changes in 4.19.87)
- [rt] Refresh 0207-printk-Make-rt-aware.patch (context changes in 4.19.87)

3.15 linux-image-armmp-lpae

3.15.1 105+deb10u3 - 31. January 2020

• Update to 4.19.0-8

3.15.2 105+deb10u2 - 29. December 2019

• Update to 4.19.0-7

3.16 openssh-client

3.16.1 1:7.9p1-10+deb10u2 - 31. January 2020

Apply upstream patch to deny (non-fatally) ipc in the seccomp sandbox, fixing failures with OpenSSL 1.1.1d and Linux < 3.19 on some architectures (closes: #946242). Note that this also drops the previous change to allow ipc on s390, since upstream has security concerns with that and it doesn't currently seem to be needed.

3.17 openssh-server

3.17.1 1:7.9p1-10+deb10u2 - 31. January 2020

• Apply upstream patch to deny (non-fatally) ipc in the seccomp sandbox, fixing failures with OpenSSL 1.1.1d and Linux < 3.19 on some architectures (closes: #946242). Note that this also drops the previous change to allow ipc on s390, since upstream has security concerns with that and it doesn't currently seem to be needed.

3.18 openssh-sftp-server

3.18.1 1:7.9p1-10+deb10u2 - 31. January 2020

Apply upstream patch to deny (non-fatally) ipc in the seccomp sandbox, fixing failures with OpenSSL 1.1.1d and Linux < 3.19 on some architectures (closes: #946242). Note that this also drops the previous change to allow ipc on s390, since upstream has security concerns with that and it doesn't currently seem to be needed.

3.19 python-apt-common

3.19.1 1.8.4.1 - 23. January 2020

- SECURITY UPDATE: Check that repository is trusted before downloading files from it (LP: #1858973)
 - apt/cache.py: Add checks to fetch_archives() and commit()
 - apt/package.py: Add checks to fetch_binary() and fetch_source()
 - CVE-2019-15796
- SECURITY UPDATE: Do not use MD5 for verifying downloadeds (Closes: #944696) (LP: #1858972)
 - apt/package.py: Use all hashes when fetching packages, and check that we have trusted hashes when downloading
 - CVE-2019-15795
- To work around the new checks, the parameter allow_unauthenticated=True can be passed to the functions. It defaults to the value of the APT::Get::AllowUnauthenticated option.
- Automatic changes and fixes for external regressions:
 - Adjustments to test suite and CI to fix CI regressions
 - testcommon: Avoid reading host apt.conf files
 - Automatic mirror list update

3.20 python3-apt

3.20.1 1.8.4.1 - 23. January 2020

- SECURITY UPDATE: Check that repository is trusted before downloading files from it (LP: #1858973)
 - apt/cache.py: Add checks to fetch_archives() and commit()
 - apt/package.py: Add checks to fetch_binary() and fetch_source()
 - CVE-2019-15796
- SECURITY UPDATE: Do not use MD5 for verifying downloadeds (Closes: #944696) (LP: #1858972)
 - apt/package.py: Use all hashes when fetching packages, and check that we have trusted hashes when downloading
 - CVE-2019-15795

- To work around the new checks, the parameter allow_unauthenticated=True can be passed to the functions. It defaults to the value of the APT::Get::AllowUnauthenticated option.
- Automatic changes and fixes for external regressions:
 - Adjustments to test suite and CI to fix CI regressions
 - testcommon: Avoid reading host apt.conf files
 - Automatic mirror list update

3.21 python3.7

3.21.1 3.7.3-2+deb10u1 - 20. December 2019

- CVE-2019-9740
- CVE-2019-9947
- CVE-2019-9948
- CVE-2019-10160
- CVE-2019-16056
- CVE-2019-16935

3.22 python3.7-minimal

3.22.1 3.7.3-2+deb10u1 - 20. December 2019

- CVE-2019-9740
- CVE-2019-9947
- CVE-2019-9948
- CVE-2019-10160
- CVE-2019-16056
- CVE-2019-16935

3.23 sudo

3.23.1 1.8.27-1+deb10u2 - 02. February 2020

- Non-maintainer upload.
- Fix a buffer overflow when pwfeedback is enabled and input is a not a tty (CVE-2019-18634) (Closes: #950371)

3.24 systemd

3.24.1 241-7~deb10u3 - 29. January 2020

- core: set fs.file-max sysctl to LONG_MAX rather than ULONG_MAX. Since kernel 5.2 (but also stable kernels like 4.19.53) the kernel thankfully returns proper errors when we write a value out of range to the sysctl. Which however breaks writing ULONG_MAX to request the maximum value. Hence let's write the new maximum value instead, LONG_MAX. (Closes: #945018)
- core: change ownership/mode of the execution directories also for static users. This ensures that execution directories like CacheDirectory and StateDirectory are properly chowned to the user specified in User= before launching the service. (Closes: #919231)

3.25 systemd-sysv

3.25.1 241-7~deb10u3 - 29. January 2020

- core: set fs.file-max sysctl to LONG_MAX rather than ULONG_MAX. Since kernel 5.2 (but also stable kernels like 4.19.53) the kernel thankfully returns proper errors when we write a value out of range to the sysctl. Which however breaks writing ULONG_MAX to request the maximum value. Hence let's write the new maximum value instead, LONG_MAX. (Closes: #945018)
- core: change ownership/mode of the execution directories also for static users. This ensures that execution directories like CacheDirectory and StateDirectory are properly chowned to the user specified in User= before launching the service. (Closes: #919231)

3.26 udev

3.26.1 241-7~deb10u3 - 29. January 2020

- core: set fs.file-max sysctl to LONG_MAX rather than ULONG_MAX. Since kernel 5.2 (but also stable kernels like 4.19.53) the kernel thankfully returns proper errors when we write a value out of range to the sysctl. Which however breaks writing ULONG_MAX to request the maximum value. Hence let's write the new maximum value instead, LONG_MAX. (Closes: #945018)
- core: change ownership/mode of the execution directories also for static users. This ensures that execution directories like CacheDirectory and StateDirectory are properly chowned to the user specified in User= before launching the service. (Closes: #919231)

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