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Subject: [PATCH 3/4] Hide the queue\_mapping field inside netif\_subqueue\_stopped  
Posted by [Pavel Emelianov](#) on Fri, 19 Oct 2007 09:04:13 GMT  
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Many places get the queue\_mapping field from skb to pass it to the netif\_subqueue\_stopped() which will be 0 in any case.

Make the helper that works with sk\_buff

Signed-off-by: Pavel Emelianov <xemul@openvz.org>

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diff --git a/include/linux/netdevice.h b/include/linux/netdevice.h
index 6f85db3..4a3f54e 100644
--- a/include/linux/netdevice.h
+++ b/include/linux/netdevice.h
@@ -996,7 +996,7 @@ static inline void netif_stop_subqueue(struct net_device *dev, u16
queue_index)
*
* Check individual transmit queue of a device with multiple transmit queues.
*/
-static inline int netif_subqueue_stopped(const struct net_device *dev,
+static inline int __netif_subqueue_stopped(const struct net_device *dev,
      u16 queue_index)
{
#ifdef CONFIG_NETDEVICES_MULTIQUEUE
@@ -1007,6 +1007,11 @@ static inline int netif_subqueue_stopped(const struct net_device *dev,
#endif
}

+static inline int netif_subqueue_stopped(const struct net_device *dev,
+    struct sk_buff *skb)
+{
+ return __netif_subqueue_stopped(dev, skb_get_queue_mapping(skb));
+}

/**
 * netif_wake_subqueue - allow sending packets on subqueue
diff --git a/net/core/dev.c b/net/core/dev.c
index 38b03da..8726589 100644
--- a/net/core/dev.c
+++ b/net/core/dev.c
@@ -1553,7 +1553,7 @@ gso:
return rc;
}
if (unlikely((netif_queue_stopped(dev) ||
-    netif_subqueue_stopped(dev, skb->queue_mapping)) &&
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+     netif_subqueue_stopped(dev, skb)) &&
    skb->next))
    return NETDEV_TX_BUSY;
} while (skb->next);
@@ -1692,7 +1692,7 @@ gso:
    HARD_TX_LOCK(dev, cpu);

    if (!netif_queue_stopped(dev) &&
-     !netif_subqueue_stopped(dev, skb->queue_mapping)) {
+     !netif_subqueue_stopped(dev, skb)) {
        rc = 0;
        if (!dev_hard_start_xmit(skb, dev)) {
            HARD_TX_UNLOCK(dev);
diff --git a/net/core/netpoll.c b/net/core/netpoll.c
index 95daba6..bf8d18f 100644
--- a/net/core/netpoll.c
+++ b/net/core/netpoll.c
@@ -67,7 +67,7 @@ static void queue_process(struct work_struct *work)
    local_irq_save(flags);
    netif_tx_lock(dev);
    if ((netif_queue_stopped(dev) ||
-     netif_subqueue_stopped(dev, skb->queue_mapping)) ||
+     netif_subqueue_stopped(dev, skb)) ||
        dev->hard_start_xmit(skb, dev) != NETDEV_TX_OK) {
        skb_queue_head(&npinfo->txq, skb);
        netif_tx_unlock(dev);
@@ -269,7 +269,7 @@ static void netpoll_send_skb(struct netpoll *np, struct sk_buff *skb)
    tries > 0; --tries) {
        if (netif_tx_trylock(dev)) {
            if (!netif_queue_stopped(dev) &&
-             !netif_subqueue_stopped(dev, skb->queue_mapping))
+             !netif_subqueue_stopped(dev, skb))
                status = dev->hard_start_xmit(skb, dev);
            netif_tx_unlock(dev);
diff --git a/net/core/pktgen.c b/net/core/pktgen.c
index 8cae60c..d4d9a36 100644
--- a/net/core/pktgen.c
+++ b/net/core/pktgen.c
@@ -3385,7 +3383,7 @@ static __inline__ void pktgen_xmit(struct pktgen_dev *pkt_dev)

    if ((netif_queue_stopped(odev) ||
        (pkt_dev->skb &&
-         netif_subqueue_stopped(odev, pkt_dev->skb->queue_mapping))) ||
+         netif_subqueue_stopped(odev, pkt_dev->skb))) ||
        need_resched()) {
        idle_start = getCurUs();

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@@ -3402,7 +3400,7 @@ static __inline__ void pktgen_xmit(struct pktgen_dev *pkt_dev)
    pkt_dev->idle_acc += getCurUs() - idle_start;

    if (netif_queue_stopped(odev) ||
-   netif_subqueue_stopped(odev, pkt_dev->skb->queue_mapping)) {
+   netif_subqueue_stopped(odev, pkt_dev->skb)) {
        pkt_dev->next_tx_us = getCurUs(); /* TODO */
        pkt_dev->next_tx_ns = 0;
        goto out; /* Try the next interface */
@@ -3431,7 +3429,7 @@ static __inline__ void pktgen_xmit(struct pktgen_dev *pkt_dev)

    netif_tx_lock_bh(odev);
    if (!netif_queue_stopped(odev) &&
-   !netif_subqueue_stopped(odev, pkt_dev->skb->queue_mapping)) {
+   !netif_subqueue_stopped(odev, pkt_dev->skb)) {

        atomic_inc(&(pkt_dev->skb->users));
        retry_now:
diff --git a/net/sched/sch_teql.c b/net/sched/sch_teql.c
index be57cf3..421281d 100644
--- a/net/sched/sch_teql.c
+++ b/net/sched/sch_teql.c
@@ -284,7 +284,7 @@ restart:
    if (slave->qdisc_sleeping != q)
        continue;
    if (netif_queue_stopped(slave) ||
-   netif_subqueue_stopped(slave, subq) ||
+   __netif_subqueue_stopped(slave, subq) ||
        !netif_running(slave)) {
        busy = 1;
        continue;
@@ -294,7 +294,7 @@ restart:
    case 0:
        if (netif_tx_trylock(slave)) {
            if (!netif_queue_stopped(slave) &&
-            !netif_subqueue_stopped(slave, subq) &&
+            !__netif_subqueue_stopped(slave, subq) &&
                slave->hard_start_xmit(skb, slave) == 0) {
                netif_tx_unlock(slave);
                master->slaves = NEXT_SLAVE(q);

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