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commit 88fa80021b77732bc98f73fb69d69c7cc37b9f0d (patch)
tree 2ed7375cf34512324d61d0b18cd5362c94db679b
parent 65d91192aa66f05710cfddf6a14b5a25ee554dba (diff)
download linux-88fa80021b77732bc98f73fb69d69c7cc37b9f0d.tar.gz

diff options

context: 3
space: include
mode: unified

net: ngbe: fix memory leak in ngbe_probe() error path

When ngbe_sw_init() is called, memory is allocated for wx->rss_key in wx_init_rss_key(). However, in ngbe_probe() function, the subsequent error paths after ngbe_sw_init() don't free the rss_key. Fix that by freeing it in error path along with wx->mac_table.

Also change the label to which execution jumps when ngbe_sw_init() fails, because otherwise, it could lead to a double free for rss_key, when the mac_table allocation fails in wx_sw_init().

Fixes: 02338c484ab6 ("net: ngbe: Initialize sw info and register netdev")
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Diffstat

```
-RW-r--r-- drivers/net/ethernet/wangxun/ngbe/ngbe_main.c 3
```

1 files changed, 2 insertions, 1 deletions

```
diff --git a/drivers/net/ethernet/wangxun/ngbe/ngbe_main.c b/drivers/net/ethernet/wangxun/ngbe/ngbe_main.c
index a6159214ec0a98..91b3055a5a9f59 100644
--- a/drivers/net/ethernet/wangxun/ngbe/ngbe_main.c
+++ b/drivers/net/ethernet/wangxun/ngbe/ngbe_main.c
@@ -625,7 +625,7 @@ static int ngbe_probe(struct pci_dev *pdev,
    /* setup the private structure */
    err = ngbe_sw_init(wx);
    if (err)
-       goto err_free_mac_table;
+       goto err_pci_release_regions;

    /* check if flash load is done after hw power up */
    err = wx_check_flash_load(wx, NGBE_SPI_ILDR_STATUS_PERST);
@@ -719,6 +719,7 @@ err_register:
    err_clear_interrupt_scheme:
        wx_clear_interrupt_scheme(wx);
    err_free_mac_table:
+   kfree(wx->rss_key);
    kfree(wx->mac_table);
    err_pci_release_regions:
        pci_release_selected_regions(pdev,
```