



author Abdun Nihaal <abdun.nihaal@gmail.com> 2025-04-12 21:19:24 +0530
committer Greg Kroah-Hartman <gregkh@linuxfoundation.org> 2025-04-25 10:47:44 +0200
commit [8335a3feb9d0d97e5e8f76d38b6bb8573d5b4a29](#) (patch)
tree [b4a931630a44a28c9de18dbb79b7ea3999460350](#)
parent [0b7d94164dc9ddb64a20a53a6f45721a4e307ac5](#) (diff)
download [linux-8335a3feb9d0d97e5e8f76d38b6bb8573d5b4a29.tar.gz](#)

diff options

context:
space:
mode:

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

[Upstream commit 88fa80021b77732bc98f73fb69d69c7cc37b9f0d]

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")
Signed-off-by: Abdun Nihaal <abdun.nihaal@gmail.com>
Reviewed-by: Kory Maincent <kory.maincent@bootlin.com>
Reviewed-by: Jiawen Wu <jiawenwu@trustnetic.com>
Link: <https://patch.msgid.link/20250412154927.25908-1-abdun.nihaal@gmail.com>
Signed-off-by: Paolo Abeni <pabeni@redhat.com>
Signed-off-by: Sasha Levin <sasha@kernel.org>

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 53aeae2f884b01..1be2a5cc4a83c3 100644
--- a/drivers/net/ethernet/wangxun/ngbe/ngbe_main.c
+++ b/drivers/net/ethernet/wangxun/ngbe/ngbe_main.c
@@ -607,7 +607,7 @@ 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);
@@ -701,6 +701,7 @@ 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,
```