



index : kernel/git/wireless/wireless-next.git

kvalo's fork of linux.git

main

switch

Wireless group

[about](#) [summary](#) [refs](#) [log](#) [tree](#) [commit](#) [diff](#) [stats](#)

log msg

search

author Colin Ian King <colin.i.king@gmail.com> 2022-10-20 14:57:09 +0100
committer Kalle Valo <kvalo@kernel.org> 2022-10-21 15:54:06 +0300
commit 80e5acb6dd72b25a6e6527443b9e9c1c3a7bcef6 (patch)
tree 1fec57093b02302797d8d4304b6ec39871db63a
parent 55549d6a3052990e65727bfec158e1b0e7cec4e4 (diff)
download wireless-next-80e5acb6dd72b25a6e6527443b9e9c1c3a7bcef6.tar.gz

diff options

context: 3

space: include

mode: unified

wifi: rtl8xxxu: Fix reads of uninitialized variables hw_ctrl_s1, sw_ctrl_s1 wireless-next-2022-10-28

Variables hw_ctrl_s1 and sw_ctrl_s1 are not being initialized and potentially can contain any garbage value. Currently there is an if statement that sets one or the other of these variables, followed by an if statement that checks if any of these variables have been set to a non-zero value. In the case where they may contain uninitialized non-zero values, the latter if statement may be taken as true when it was not expected to.

Fix this by ensuring hw_ctrl_s1 and sw_ctrl_s1 are initialized.

Cleans up clang warning:

```
drivers/net/wireless/realtek/rtl8xxxu/rtl8xxxu_8188f.c:432:7: warning:
variable 'hw_ctrl_s1' is used uninitialized whenever 'if' condition is
false [-Wsometimes-uninitialized]
    if (hw_ctrl) {
        ^~~~~~
```

```
drivers/net/wireless/realtek/rtl8xxxu/rtl8xxxu_8188f.c:440:7: note: uninitialized
use occurs here
    if (hw_ctrl_s1 || sw_ctrl_s1) {
        ^~~~~~
```

```
drivers/net/wireless/realtek/rtl8xxxu/rtl8xxxu_8188f.c:432:3: note: remove the 'if'
if its condition is always true
    if (hw_ctrl) {
        ^~~~~~
```

Fixes: c888183b21f3 ("wifi: rtl8xxxu: Support new chip RTL8188FU")

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Link: <https://lore.kernel.org/r/20221020135709.1549086-1-colin.i.king@gmail.com>

Diffstat

-rw-r--r-- drivers/net/wireless/realtek/rtl8xxxu/rtl8xxxu_8188f.c 2

1 files changed, 1 insertions, 1 deletions

diff --git a/drivers/net/wireless/realtek/rtl8xxxu/rtl8xxxu_8188f.c b/drivers/net/wireless/realtek/rtl8xxxu/rtl8xxxu_8188f.c
index 99610bb2afd57..0025bb32538d5 100644

--- a/drivers/net/wireless/realtek/rtl8xxxu/rtl8xxxu_8188f.c

+++ b/drivers/net/wireless/realtek/rtl8xxxu/rtl8xxxu_8188f.c

```
@@ -412,7 +412,7 @@ static void rtl8188f_spur_calibration(struct rtl8xxxu_priv *priv, u8 channel)
 };
```

```
const u8 threshold = 0x16;
- bool do_notch, hw_ctrl, sw_ctrl, hw_ctrl_s1, sw_ctrl_s1;
+ bool do_notch, hw_ctrl, sw_ctrl, hw_ctrl_s1 = 0, sw_ctrl_s1 = 0;
u32 val32, initial_gain, reg948;
```

```
val32 = rtl8xxxu_read32(priv, REG_OFDM0_RX_D_SYNC_PATH);
```