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committer Greg Kroah-Hartman <gregkh@linuxfoundation.org> 2022-11-25 17:42:14 +0100
commit 040f726fec88121f3b95e70369785ad452ddd9 (patch)
tree c3d4eb1edcadf22a6e9e4ab5d9c02e1c821c0d31
parent 5b3d6d510bb8085e1c0fe48731b5f23c6a0ee211 (diff)
download linux-040f726fec88121f3b95e70369785ad452ddd9.tar.gz

diff options

context:

3 ▼

space:

include ▼

mode:

unified ▼

pinctrl: devicetree: fix null pointer dereferencing in pinctrl_dt_to_map

[Upstream commit 91d5c5060ee24fe8da88cd585bb43b843d2f0dce]

Here is the BUG report by KASAN about null pointer dereference:

BUG: KASAN: null-ptr-deref in strcmp+0x2e/0x50
Read of size 1 at addr 0000000000000000 by task python3/2640
Call Trace:
strcmp
__of_find_property
of_find_property
pinctrl_dt_to_map

kasprintf() would return NULL pointer when kmalloc() fail to allocate.
So directly return ENOMEM, if kasprintf() return NULL pointer.

Fixes: 57291ce295c0 ("pinctrl: core device tree mapping table parsing support")
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Signed-off-by: Sasha Levin <sashal@kernel.org>

Diffstat

```
-rw-r--r-- drivers/pinctrl/devicetree.c 2
```

1 files changed, 2 insertions, 0 deletions

diff --git a/drivers/pinctrl/devicetree.c b/drivers/pinctrl/devicetree.c
index dbaacde1b36afa..362d84c2ead443 100644

--- a/drivers/pinctrl/devicetree.c

+++ b/drivers/pinctrl/devicetree.c

```
@@ -223,6 +223,8 @@ int pinctrl_dt_to_map(struct pinctrl *p, struct pinctrl_dev *pctldev)
     for (state = 0; ; state++) {
         /* Retrieve the pinctrl-* property */
         propname = kasprintf(GFP_KERNEL, "pinctrl-%d", state);
+
+         if (!propname)
+             return -ENOMEM;
         prop = of_find_property(np, propname, &size);
         kfree(propname);
         if (!prop) {
```