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commit [ac471468f7c16cda2525909946ca13ddbcd14000](#) (patch)
tree [505dbc0a2c0c0894844f4c75f51b1d3f0efda599](#)
parent [ac4f404c250b3e3c0d350da6f7f834f371c5e9c1](#) (diff)
download [linux-ac471468f7c16cda2525909946ca13ddbcd14000.tar.gz](#)

diff options

context:

3 ▼

space:

include ▼

mode:

unified ▼

ata: libata-transport: fix double ata_host_put() in ata_tport_add()

[Upstream commit 8c76310740807ade5ecdab5888f70ecb6d35732e]

In the error path in ata_tport_add(), when calling put_device(), ata_tport_release() is called, it will put the refcount of 'ap->host'.

And then ata_host_put() is called again, the refcount is decreased to 0, ata_host_release() is called, all ports are freed and set to null.

When unbinding the device after failure, ata_host_stop() is called to release the resources, it leads a null-ptr-deref(), because all the ports all freed and null.

Unable to handle kernel NULL pointer dereference at virtual address 0000000000000008
CPU: 7 PID: 18671 Comm: modprobe Kdump: loaded Tainted: G E 6.1.0-rc3+ #8
pstate: 80400009 (Nzcv daif +PAN -UAO -TCO -DIT -SSBS BTYPE=---)
pc : ata_host_stop+0x3c/0x84 [libata]
lr : release_nodes+0x64/0xd0
Call trace:
ata_host_stop+0x3c/0x84 [libata]
release_nodes+0x64/0xd0
devres_release_all+0xbc/0x1b0
device_unbind_cleanup+0x20/0x70
really_probe+0x158/0x320
__driver_probe_device+0x84/0x120
driver_probe_device+0x44/0x120
__driver_attach+0xb4/0x220
bus_for_each_dev+0x78/0xdc
driver_attach+0x2c/0x40
bus_add_driver+0x184/0x240
driver_register+0x80/0x13c
__pci_register_driver+0x4c/0x60
ahci_pci_driver_init+0x30/0x1000 [ahci]

Fix this by removing redundant ata_host_put() in the error path.

Fixes: 2623c7a5f279 ("libata: add refcounting to ata_host")
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Diffstat

-rw-r--r-- drivers/ata/libata-transport.c	1
---	---

1 files changed, 0 insertions, 1 deletions

diff --git a/drivers/ata/libata-transport.c b/drivers/ata/libata-transport.c
index b33772df9bc601..8a9850bd5d6cb3 100644

--- a/drivers/ata/libata-transport.c

+++ b/drivers/ata/libata-transport.c

```
@@ -317,7 +317,6 @@ int ata_tport_add(struct device *parent,
    tport_err:
        transport_destroy_device(dev);
        put_device(dev);
-       ata_host_put(ap->host);
        return error;
}
```