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Linux kernel stable tree

Stable Group

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committer Greg Kroah-Hartman <gregkh@linuxfoundation.org> 2025-04-25 10:43:50 +0200
commit [b3c70dfe51f10df60db2646c08cebd24bcdc5247](#) (patch)
tree [43ac5bf252cdf21e76057725cf9cb2925d78b29c](#)
parent [f06b5b4225b869a881e930bf24303adefb98aa78](#) (diff)
download [linux-b3c70dfe51f10df60db2646c08cebd24bcdc5247.tar.gz](#)

diff options

context:
space:
mode:

net: dsa: mv88e6xxx: avoid unregistering devlink regions which were never registered

[Upstream commit c84f6ce918a9e6f4996597cbc62536bbf2247c96]

Russell King reports that a system with mv88e6xxx dereferences a NULL pointer when unbinding this driver:
https://lore.kernel.org/netdev/Z_lRkMlTJ1KQ0kVX@shell.armlinux.org.uk/

The crash seems to be in devlink_region_destroy(), which is not NULL tolerant but is given a NULL devlink global region pointer.

At least on some chips, some devlink regions are conditionally registered since the blamed commit, see mv88e6xxx_setup_devlink_regions_global():

```
if (cond && !cond(chip))  
    continue;
```

These are MV88E6XXX_REGION_STU and MV88E6XXX_REGION_PVT. If the chip does not have an STU or PVT, it should crash like this.

To fix the issue, avoid unregistering those regions which are NULL, i.e. were skipped at mv88e6xxx_setup_devlink_regions_global() time.

Fixes: 836021a2d0e0 ("net: dsa: mv88e6xxx: Export cross-chip PVT as devlink region")
Tested-by: Russell King (Oracle) <rmk+kernel@armlinux.org.uk>
Signed-off-by: Vladimir Oltean <vladimir.oltean@nxp.com>
Link: <https://patch.msgid.link/20250414212850.2953957-1-vladimir.oltean@nxp.com>
Signed-off-by: Jakub Kicinski <kuba@kernel.org>
Signed-off-by: Sasha Levin <sashal@kernel.org>

Diffstat

```
-rw-r--r-- drivers/net/dsa/mv88e6xxx/devlink.c 3
```

1 files changed, 2 insertions, 1 deletions

diff --git a/drivers/net/dsa/mv88e6xxx/devlink.c b/drivers/net/dsa/mv88e6xxx/devlink.c
index 1266eabee0863d..2ab2eb2cb47be2 100644

--- a/drivers/net/dsa/mv88e6xxx/devlink.c

+++ b/drivers/net/dsa/mv88e6xxx/devlink.c

```
@@ -743,7 +743,8 @@ void mv88e6xxx_teardown_devlink_regions_global(struct dsa_switch *ds)  
    int i;
```

```
    for (i = 0; i < ARRAY_SIZE(mv88e6xxx_regions); i++)
```

```
-    dsa_devlink_region_destroy(chip->regions[i]);
```

```
+         if (chip->regions[i])
+             dsa_devlink_region_destroy(chip->regions[i]);
+     }
```

```
void mv88e6xxx_tear_down_devlink_regions_port(struct dsa_switch *ds, int port)
```

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