I've got kernel panic on application exit when I use netmap to capture traffic in IDS mode. The problem is in NetmapClose function, in the rings freeing order. Changing the order to make NR_REG_SW ring to free first solves the problem. Patch attached.
To properly start listening on eth1:

```
ethtool -K eth1 tso off tx off sg off && ethtool -G eth1 rx 4096 tx 4096 && ethtool -A eth1 rx off tx off
echo 66000 > /sys/module/netmap/parameters/ring_size
suricata --netmap=eth1
```

Such behavior reproduces with default config and no rules loaded.

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**#7 - 02/19/2016 10:44 PM - Aleksey Katargin**

Vadim, can you you test suricata with this netmap version?  
https://github.com/luigirizzo/netmap/commit/60d516a6e4385f8e2a768ea48e5214eea614da4e

---

**#8 - 02/19/2016 11:53 PM - Vadim Fedorenko**

Aleksey,  
The version of netmap i've used includes this commit.  
As I said before, I've use git clone netmap.git to get the latest version from github.

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**#9 - 02/20/2016 12:02 AM - Aleksey Katargin**

Vadim,  
I know that this commit is included in the master branch of netmap.  
If this issue is related with latest changes in netmap, you can try older version and figure this out and then use git bisect to address bogus commit.  
In our production systems (not suricata) we tried to use more recent netmap version, but sometimes we got failures with it.

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**#10 - 02/20/2016 12:57 AM - Vadim Fedorenko**

Aleksey,  
Ok, I'll try. I have another instance with Suricata 2.1beta4 with netmap support and netmap version at 31.03.2015. I'll update this instance to Suricata 3.0 without updating netmap. I'll write feedback soon.

---

**#11 - 02/20/2016 02:44 AM - Vadim Fedorenko**

Aleksey,  
Well, on linux-3.19.3 with netmap version at 31.03.2015 everything seems to be OK. I'll try to examine netmap's source code changes to understand what's went wrong. The ticket in netmap's github repo is opened, #144

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**#12 - 02/20/2016 02:45 AM - Aleksey Katargin**

This may be helpful for you https://git-scm.com/book/en/v2/Git-Tools-Debugging-with-Git

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**#13 - 02/20/2016 04:26 PM - Vadim Fedorenko**

While Netmap ticket is in investigation I think we can use the patch to work with latest netmap. The pull request was send via email.

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**#14 - 05/21/2016 02:54 AM - Victor Julien**

- Priority changed from Normal to High

**#15 - 05/27/2016 03:54 AM - Victor Julien**

https://github.com/luigirizzo/netmap/issues/144

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**#16 - 05/27/2016 10:02 AM - Victor Julien**

- Status changed from Assigned to Closed
- Target version changed from Soon to 3.1rc1

https://github.com/inliniac/suricata/pull/2106