How do I set and check the RSS flags with Sniffer10G?

**Model:**
ARC Series E Adapters

**Software:**
Sniffer10G

**Operating System:**
Supports both Windows and Linux Operating Systems.

**Information:**
You can set the RSS flags via the environment variable SNF_RSS_FLAGS.

The easiest way to view the RSS parameter settings, as well as other parameter values (e.g., SNF_PORTNUM, SNF_NUM_RINGS, SNF_DATARING_SIZE, SNF_DESCRING_SIZE, SNF_FLAGS, SNF_DEBUG_FILENAME), is to run your Sniffer10G application with the environment variable SNF_DEBUG_MASK set to 0x3. Then when snf_open() is called by the program it displays the current parameter settings and how they have been set (i.e. from the environment, hard-coded by the application or the default value).

For example:

```
$ SNF_DEBUG_MASK=0x3 SNF_RSS_FLAGS=0x1 ./snf_simple_recv
snf.0.0 P (userset) SNF_PORTNUM = 0
snf.0.0 P (default) SNF_NUM_RINGS = 1 (0x1)
snf.0.0 P (default) SNF_RSS_FLAGS = 1 (0x1)
snf.0.0 P (default) SNF_DATARING_SIZE = 268435456 (0x10000000) (256.0 MiB)
snf.0.0 P (default) SNF_DESCRING_SIZE = 67108864 (0x4000000) (64.0 MiB)
snf.0.0 P (default) SNF_FLAGS = 0
snf.0.0 P (environ) SNF_DEBUG_MASK = 3 (0x3)
snf.0.0 P (default) SNF_DEBUG_FILENAME = stderr
...
```

**SNF_DEBUG_MASK=0x3**

Users can ensure that the Sniffer10G library is linked to the application by setting SNF_DEBUG_MASK=0x3 in the environment when operating the Sniffer10G application. For example:

```
$ SNF_DEBUG_MASK=0x3 SNF_RSS_FLAGS=0x1 ./snf_simple_recv
```

Setting this SNF_DEBUG_MASK variable causes the SNF API to output memory mapping information when the application is run. If no information is dumped to the screen, it is likely that your application is not correctly linked against the Sniffer10G library. Monitor myri_counters to verify that traffic is in fact being received.
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