

pfSense - Feature #10934

Add ral(4) to arm64

09/27/2020 06:05 AM - Steve Wheeler

Status:	Resolved	Start date:	09/27/2020
Priority:	Normal	Due date:	
Assignee:	Steve Wheeler	% Done:	0%
Category:	Wireless	Estimated time:	0.00 hour
Target version:	2.5.0	Release Notes:	Default
Plus Target Version:			

Description

As the title the ral(4) driver is not included in arm64 images.

The RT3090 device that requires it is one of the few chipsets that is recognised correctly with the current PCI driver

See: <https://forum.netgate.com/topic/157123/does-someone-have-netgate-sg-2100-internal-slot>

History

#1 - 09/27/2020 06:20 PM - Steve Wheeler

Opened a PR: <https://github.com/pfsense/FreeBSD-src/pull/38>

#2 - 09/30/2020 09:34 AM - Steve Beaver

- Assignee set to Luiz Souza

#3 - 10/01/2020 07:25 AM - Renato Botelho

- Status changed from New to Feedback

- Assignee changed from Luiz Souza to Renato Botelho

PR has been merged. Thanks!

#4 - 10/06/2020 12:12 PM - Steve Beaver

- Assignee changed from Renato Botelho to Steve Wheeler

Please confirm and set to "Resolved" if appropriate.

#5 - 10/06/2020 12:44 PM - Steve Wheeler

It is in the arm64 kernel now:

```
[2.5.0-DEVELOPMENT][admin@2100-2.stevew.lan]/root: uname -a
FreeBSD 2100-2.stevew.lan 12.2-STABLE FreeBSD 12.2-STABLE 56359d090cf(factory-devel-12) pfSense arm64
[2.5.0-DEVELOPMENT][admin@2100-2.stevew.lan]/root: kldstat -v | grep /ral
    163 pci/ral
```

Waiting for hardware to test...

#6 - 10/24/2020 05:50 PM - Steve Wheeler

- Status changed from *Feedback* to *Resolved*

Device is recognised and driver attaches:

```
[2.5.0-DEVELOPMENT][root@2100-2.stevew.lan]/root: pciconf -lv
ral0@pci0:0:0:0:          class=0x028000 card=0x27901814 chip=0x07811814 rev=0x00 hdr=0x00
  vendor      = 'Ralink corp.'
  device      = 'RT2790 Wireless 802.11n 1T/2R PCIe'
  class       = network
```

Tested in:

```
2.5.0-DEVELOPMENT (arm64)
built on Thu Oct 22 06:57:23 EDT 2020
FreeBSD 12.2-STABLE
```