

pfSense - Bug #10806

armada_thermal fails during device_attach

07/31/2020 05:51 PM - Daniel Gordon

Status:	Resolved	Start date:	07/31/2020
Priority:	Normal	Due date:	
Assignee:	Luiz Souza	% Done:	100%
Category:	FreeBSD	Estimated time:	0.00 hour
Target version:	2.5.0		
Affected Version:	2.5.0	Affected Architecture:	SG-3100

Description

SG-3100 is unable to read the temperature from sysctl, as the oid doesn't exist, because the driver fails to attach during initialization.

```
[2.5.0-DEVELOPMENT][root@pfSense.home.lan]: /sbin/sysctl -aq | grep temperature
*<No results returned>
```

```
[2.5.0-DEVELOPMENT][root@pfSense.home.lan]: dmesg | grep therm
armada_thermal0: <Armada380 Thermal Control> mem 0xe4078-0xe407b,0xe4070-0xe4077 on simplebus1
device_attach: armada_thermal0 attach returned 6
```

```
[2.5.0-DEVELOPMENT][root@pfSense.home.lan]: uname -a
FreeBSD pfSense.home 12.1-STABLE FreeBSD 12.1-STABLE de58b5f9808(factory-devel-12) pfSense-SG-3100
arm
```

Code Ref:

<https://github.com/pfsense/FreeBSD-src/blob/189c0a627f96bee933ebb1b814aa1bd5da34a513/sys/arm/mv/armada/thermal.c>

History

#1 - 10/28/2020 07:27 AM - Jim Pingle

- Assignee set to Luiz Souza
- Target version set to 2.5.0

#2 - 11/30/2020 03:48 PM - Luiz Souza

- Status changed from New to In Progress

#3 - 12/01/2020 12:28 PM - Luiz Souza

- Status changed from In Progress to Feedback
- % Done changed from 0 to 100

Fixed.

Please test with the next build.

#4 - 12/02/2020 09:51 PM - Daniel Gordon

Unfortunately, I've since needed that device and reverted it to 2.4.5. I will be unable to test the change. I'm really curious to see how you fixed it though.

#5 - 12/02/2020 09:59 PM - Luiz Souza

Daniel Gordon wrote:

Unfortunately, I've since needed that device and reverted it to 2.4.5. I will be unable to test the change. I'm really curious to see how you fixed it though.

<https://github.com/pfsense/FreeBSD-src/commit/2d87d8ec46e41aea3ebedcc99b6891f52f73eb6f>

I just had to adjust the register offset to cope with a DTS address range change.

Thanks for the report.

#6 - 12/05/2020 10:10 PM - Jordan Greene

I'm seeing temps on the dash on
SG-3100
2.5.0-DEVELOPMENT (arm)
built on Sat Dec 05 02:56:23 EST 2020
FreeBSD 12.2-STABLE

looks good!

#7 - 12/08/2020 09:04 AM - Jim Pingle

- Status changed from Feedback to Resolved

Looks good here, too.

#8 - 12/12/2020 09:49 PM - Jordan Greene

- Status changed from Resolved to Assigned

#9 - 12/13/2020 11:43 AM - Jordan Greene

- File temp-widgets.png added

temp is missing from the separate widget on the dashboard...new issue?

2.5.0-DEVELOPMENT (arm)
built on Sat Dec 12 02:57:13 EST 2020
FreeBSD 12.2-STABLE

temp-widgets.png

#10 - 12/14/2020 09:24 AM - Jim Pingle

- Status changed from Assigned to Resolved

That would be a separate issue. This was about the hardware error which is OK now.

The temperature is shown in the main system information widget so I'm not sure the separate thermal sensors widget is a concern. Either way that should be its own separate issue.

Files

dmesg.txt	8.63 KB	07/31/2020	Daniel Gordon
temp-widgets.png	21 KB	12/13/2020	Jordan Greene