

pfSense - Bug #6185

pfSense 2.3 w/luajit breaks on 586-class CPUs

04/17/2016 01:21 AM - Kevin Bowling

Status:	Resolved	Start date:	04/17/2016
Priority:	Normal	Due date:	
Assignee:	Renato Botelho	% Done:	0%
Category:	Operating System	Estimated time:	0.00 hour
Target version:	2.3.1		
Affected Version:	2.3	Affected Architecture:	i386

Description

nginx is built with OPTIONS LUA, so the appliance wont start on 586-class CPUs starting with pfSense 2.3. These CPUs lack the CMOV instruction.

My router is probably a bit fringe, but similar 586 are common in Soekris devices that still work for typical consumer internet speeds.

A suggestion, if this is deemed worthy of even "fixing", would be to disable the luajit CMOV and SSE instruction with a ports patch on the i386 build. <https://github.com/LuaDist/luajit/blob/master/CMakeLists.txt#L47> defines some things that will do that easy, but ports uses the gmake build which would need to be patched.

Associated revisions

Revision bdd05750 - 04/17/2016 02:00 AM - Chris Buechler

Remove lua from nginx. Ticket #6185

Revision 3b9caf69 - 04/17/2016 02:01 AM - Chris Buechler

Remove lua from nginx. Ticket #6185

Revision b3908dd7 - 04/17/2016 02:07 AM - Chris Buechler

Keep this on master for 2.4, keep for RELENG_2_3 only. Revert "Remove lua from nginx. Ticket #6185"

This reverts commit bdd05750a76f44306333da87380b78fbd8d5bb16.

History

#1 - 04/17/2016 01:31 AM - Chris Buechler

- Status changed from New to Not a Bug

- Affected Version deleted (2.3)

not supported hardware. The Soekris 5501 and newer have CMOV (I think even the 4801 does). Talking about ~20 year old CPUs in everything but embedded, and over 10 years old in embedded. Our stated minimum CPU requirement has been 500 MHz for several years.

#2 - 04/17/2016 01:50 AM - Jim Thompson

- Status changed from Not a Bug to Confirmed

#3 - 04/17/2016 01:50 AM - Jim Thompson

- Assignee set to Renato Botelho

#4 - 04/17/2016 01:50 AM - Jim Thompson

- Target version set to 2.3.1

- Affected Version set to 2.3

#5 - 04/17/2016 01:57 AM - Jim Thompson

Chris Buechler wrote:

not supported hardware. The Soekris 5501 and newer have CMOV (I think even the 4801 does). Talking about ~20 year old CPUs in everything but embedded, and over 10 years old in embedded. Our stated minimum CPU requirement has been 500 MHz for several years.

I think we should fix this, either the way Kevin recommends, or taking LUA out of nginx for 2.3

#6 - 04/17/2016 02:03 AM - Chris Buechler

- Status changed from Confirmed to Feedback

Removed lua from nginx, will be in next 2.3.1 snapshot run. Give it a shot and let us know, Kevin. I'm not going to go hunting down hardware that old :)

#7 - 04/23/2016 10:01 PM - Kevin Bowling

Chris Buechler wrote:

Removed lua from nginx, will be in next 2.3.1 snapshot run. Give it a shot and let us know, Kevin. I'm not going to go hunting down hardware that old :)

I'm not sure if the current snapshots are broken. I got an error message saying it was corrupt when using the web UI manual upload. https://snapshots.pfsense.org/logs/pfSense_RELEASE_2_3/i386/build.log says "Sat Apr 23 09:25:11 CDT 2016 -|- Something went wrong, check errors!"

#8 - 04/24/2016 01:10 AM - Chris Buechler

Something broke cryptostats building, seems like maybe the ipcomp patch. Trying now with that reverted.

In the mean time Kevin, just go back to a snapshot from the 22nd.

#9 - 04/29/2016 06:57 PM - Chris Buechler

- Status changed from Feedback to Resolved

fixed