

## Re: New preview patch for ipfw to pfil\_hooks conversion

**Source:** <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/net/2004-06/0184.html>

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**From:** Andre Oppermann ([andre\\_at\\_freebsd.org](mailto:andre_at_freebsd.org))

**Date:** 06/22/04

Date: Tue, 22 Jun 2004 13:48:53 +0200  
To: Angelo Turetta <[aturetta@commit.it](mailto:aturetta@commit.it)>

Angelo Turetta wrote:

>  
> ----- Original Message -----  
> From: "Andre Oppermann" <[andre@freebsd.org](mailto:andre@freebsd.org)>  
> Sent: Monday, June 21, 2004 11:36 PM  
>  
>> This patch significantly cleans up ip\_input.c and ip\_output.c.  
>>  
>> The following is included in this patch:  
>>  
>> o Remove all ipfw related cruft from ip\_input() and ip\_output()  
>> o New ip\_fw\_pfil.c file which contains all ipfw/pfil\_hooks logic  
>  
> IIRC, I had once a problem with a mixed setup where I used IPFILTER NAT &  
> IPFW DUMMYNET. Basically, there was an asymmetry in the order the two  
> filters were called, because the code in ip\_input.c called IPFILTER before  
> entering the IPFW code, and ip\_output.c did the same, while it should have  
> called first IPFW then IPFILTER. (beware, it might have been the opposite  
> WRT what was first in which function, I don't remember exactly).

The new code fixes this. With ipfw using pfil\_hooks the ordering will be preserved for input and output (reversed).

> Does your new code take this ordering issue into account? I suppose it would  
> be nice to be able to control the order filters are processed: I may like  
> IPFW to be 'wrapping' IPFILTER (that is, called before it during input, and  
> after it during output), while others might prefer the opposite. And anyway,  
> am I right the filter list should be traversed in opposite directions during  
> input versus output (maybe it's already so).

When you load the packet filters as kld's you can specify the order of processing yourself. For compiled in it depends which initialization function is called first.

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Andre

freebsd-net: Re: New preview patch for ipfw to pfil\_hooks conversion

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