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Subject: Re: all vs. default in /proc/sys/net/ipv4/conf  
Posted by [John Kelly](#) on Mon, 15 May 2006 00:11:12 GMT  
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OK ...

I discovered in Documentation/networking/ip-sysctl.txt:

Quote:rp\_filter - BOOLEAN

1 - do source validation by reversed path, as specified in RFC1812

Recommended option for single homed hosts and stub network routers. Could cause troubles for complicated (not loop free) networks running a slow unreliable protocol (sort of RIP), or using static routes.

0 - No source validation.

conf/all/rp\_filter must also be set to TRUE to do source validation on the interface

So "all" must be set, otherwise, it will not matter if the interface setting is true. Thus the "all" setting, for this sysctl, is an AND switch.

Quote:send\_redirects - BOOLEAN

Send redirects, if router.

send\_redirects for the interface will be enabled if at least one of conf/{all,interface}/send\_redirects is set to TRUE, it will be disabled otherwise

Default: TRUE

At least one of "all" or "interface" indicates the "all" setting, for this sysctl, is an OR switch.

So if I understand correctly, the "all" setting can be either an AND switch or an OR switch, depending on the specific sysctl.