

## strongSwan - Issue #3564

### Out of order packets are generated if strong swan is running on multiple cores

15.09.2020 12:32 - Sai Prashanth Ramanathan

<b>Status:</b> Feedback	
<b>Priority:</b> Normal	
<b>Assignee:</b>	
<b>Category:</b> kernel	
<b>Affected version:</b> 5.8.4	<b>Resolution:</b>
<b>Description</b>	
Issue : We are seeing "Out of Order" packets when strong swan is launched with 18 cores.	
"Out of Order" packets issue is not seen when strong swan is launched with 1 core.	
Environment : Ubuntu IPSec end points : Strong Swan and SRX 4600	
root@regress:/home/regress# lsb_release -a No LSB modules are available. Distributor ID: Ubuntu Description: Ubuntu 18.04.4 LTS Release: 18.04 Codename: bionic	
Strong swan runs on Ubuntu OS with 18 CPUs dedicated for strong swan. When end to end traffic is pumped, strong swan generates out of order packets. All the required outputs/logs/pcaps are attached.	
The packets' sequence number are off by 500+ packets, below is the snippet of the capture, complete one is in the attachment.	
20:04:37.931956 IP 14.1.2.4 > 13.1.2.1: ESP, length 1480 20:04:37.931959 IP 14.1.2.4 > 13.1.2.1: ESP, length 1480 20:04:37.932003 IP 14.1.2.4 > 13.1.2.1: ESP, length 1480 <<<<<<<<<< 0x20f3a0bd and 0x20f3a0be are missing 20:04:37.932072 IP 14.1.2.4 > 13.1.2.1: ESP, length 1480 20:04:37.932124 IP 14.1.2.4 > 13.1.2.1: ESP, length 1480 20:04:37.932174 IP 14.1.2.4 > 13.1.2.1: ESP, length 1480 20:04:37.932177 IP 14.1.2.4 > 13.1.2.1: ESP, length 1480 20:04:37.932223 IP 14.1.2.4 > 13.1.2.1: ESP, length 1480 20:04:37.932226 IP 14.1.2.4 > 13.1.2.1: ESP, length 1480 20:04:37.932273 IP 14.1.2.4 > 13.1.2.1: ESP, length 1480 20:04:37.932276 IP 14.1.2.4 > 13.1.2.1: ESP, length 1480 20:04:37.932325 IP 14.1.2.4 > 13.1.2.1: ESP, length 1480 20:04:37.932328 IP 14.1.2.4 > 13.1.2.1: ESP, length 1480 20:04:37.932329 IP 14.1.2.4 > 13.1.2.1: ESP, length 1480 20:04:37.932374 IP 14.1.2.4 > 13.1.2.1: ESP, length 1480 20:04:37.932424 IP 14.1.2.4 > 13.1.2.1: ESP, length 1480 20:04:37.932427 IP 14.1.2.4 > 13.1.2.1: ESP, length 1480 20:04:37.932429 IP 14.1.2.4 > 13.1.2.1: ESP, length 1480 20:04:37.932475 IP 14.1.2.4 > 13.1.2.1: ESP, length 1480 20:04:37.932478 IP 14.1.2.4 > 13.1.2.1: ESP, length 1480 20:04:37.932525 IP 14.1.2.4 > 13.1.2.1: ESP, length 1480 20:04:37.932528 IP 14.1.2.4 > 13.1.2.1: ESP, length 1480 20:04:37.932575 IP 14.1.2.4 > 13.1.2.1: ESP, length 1480 20:04:37.932580 IP 14.1.2.4 > 13.1.2.1: ESP, length 1480 20:04:37.932624 IP 14.1.2.4 > 13.1.2.1: ESP, length 1480 20:04:37.932627 IP 14.1.2.4 > 13.1.2.1: ESP, length 1480 20:04:37.932628 IP 14.1.2.4 > 13.1.2.1: ESP, length 1480 ... 20:04:37.957739 IP 14.1.2.4 > 13.1.2.1: ESP, length 1480 20:04:37.957740 IP 14.1.2.4 > 13.1.2.1: ESP, length 1480 20:04:37.957785 IP 14.1.2.4 > 13.1.2.1: ESP, length 1480	

