

配置步骤

在接口下开启 statistics l3-packet enable 后, 通过display interface 下的IPv4 traffic statistics和IPv6 traffic statistics 读取。但是接口报文流量过大时, 开启statistics l3-packet enable功能会造成设备CPU占用率高, 影响转发性能。

因此, 当用户不需要单独统计接口接收的IPv6报文数量时, 不建议开启这个功能。

另外在开启了statistics l3-packet enable可以通过如下节点读取route接口的ipv4和ipv6 统计数目。

ipIfStatsInReceives (1.3.6.1.2.1.4.31.3.1.3)

ipIfStatsOutTransmits (1.3.6.1.2.1.4.31.3.1.30)

hh3cifPortProtocolStatTable (1.3.6.1.4.1.25506.8.35.5.1.13) 下的节点可以读取到二层ip报文数目(pkts)和字节数(octets)

eg:

可分别读取ipv4/ipv6的报文, 比如如下的1.195的 1 表示ipv4, 2.195的 2 表示ipv6, 195 (端口的index) 可在dis system internal ifmgr list中查询或者通过读取接口和索引对应关系的OID来读取。

3: ipIfStatsInReceives.1.195 (Counter32) 81

18: ipIfStatsInReceives.2.195 (Counter32) 100

```
<S6805>dis int ten 1/0/47
Ten-GigabitEthernet1/0/47
Current state: UP
Line protocol state: UP
IP packet frame type: Ethernet II, hardware address: XXXX-XXXX-XXXX
Description: Ten-GigabitEthernet1/0/47 Interface
Bandwidth: 1000000 kbps
Loopback is not set
Media type is twisted pair
port hardware type is 10G_BASE_T
Ethernet port mode: LAN
1000Mbps-speed mode, full-duplex mode
Link speed type is autonegotiation, link duplex type is autonegotiation
Flow-control is not enabled
Maximum frame length: 9416
Allow jumbo frames to pass
Broadcast max-ratio: 100%
Multicast max-ratio: 100%
Unicast max-ratio: 100%
PVID: 1
MDI type: Automdix
Port link-type: Trunk
VLAN Passing: 1(default vlan), 10
VLAN permitted: 1(default vlan), 10
Trunk port encapsulation: IEEE 802.1q
Port priority: 0
Last link flapping: 1 hours 13 minutes 41 seconds
Last clearing of counters: 01:22:13 Wed 03/28/2001
Current system time:2001-03-28 01:23:02 BeiJing+08:00:00
Last time when physical state changed to up:2001-03-28 00:09:21 BeiJing+08:00:00
Last time when physical state changed to down:2001-03-27 16:08:45 BeiJing+08:00:00
Peak input rate: 23 bytes/sec, at 2001-03-28 01:22:57
Peak output rate: 13 bytes/sec, at 2001-03-28 01:22:57
Last 300 seconds input: 0 packets/sec 23 bytes/sec 0%
Last 300 seconds output: 0 packets/sec 13 bytes/sec 0%
Input (total): 66 packets, 8344 bytes
    40 unicasts, 0 broadcasts, 26 multicasts, 0 pauses
Input (normal): 66 packets, - bytes
    40 unicasts, 0 broadcasts, 26 multicasts, 0 pauses
Input: 0 input errors, 0 runts, 0 giants, 0 throttles
```

0 CRC, 0 frame, - overruns, 0 aborts
- ignored, - parity errors
Output (total): 41 packets, 5009 bytes
40 unicasts, 0 broadcasts, 1 multicasts, 0 pauses

Output (normal): 41 packets, - bytes
40 unicasts, 0 broadcasts, 1 multicasts, 0 pauses

Statistics: 0 input errors, 0 underruns, 0 buffer failures

statistics l3-packet enable命令用来开启三层报文统计功能。

undo statistics l3-packet enable命令用来关闭三层报文统计功能。

【命令】 IPv4 traffic statistics:

```
statistics l3-packet enable { inbound | outbound }  
Last 300 seconds input rate: 0 packets/sec, 0 bytes/sec  
undo statistics l3-packet enable { inbound | outbound }  
Last 300 seconds output rate: 0 packets/sec, 0 bytes/sec
```

【缺省情况】
Input: 20 packets, 2120 bytes
三层报文统计功能处于关闭状态。

Output: 20 packets, 2120 bytes

【视图】 IPv6 traffic statistics:

```
接口视图  
Last 300 seconds input rate: 0 packets/sec, 0 bytes/sec  
Last 300 seconds output rate: 0 packets/sec, 0 bytes/sec
```

【缺省用户角色】
Input: network-admin, 20 bytes

Output: 20 packets, 2520 bytes

【参数】

inbound: 表示入方向上的三层报文统计功能。

outbound: 表示出方向上的三层报文统计功能。

【使用指导】

开启本功能后，设备会统计接口接收或发送的IPv6报文的数量，该统计信息可通过**display interface**命令查看。接口报文流量过大时，开启本功能会造成设备CPU占用率高，影响转发性能。因此，当用户不需要统计接口接收的IPv6报文数量时，建议关闭本功能。

