

FreeNAS - Bug #51557

Add support for high speed NICs to SNMP

10/16/2018 08:28 AM - Wojciech Kruzel

Status: Done	
Priority: No priority	
Assignee: Vladimir Vinogradenko	
Category: Middleware	
Target version: Master - FreeNAS Nightlies	
Seen in: 11.1-U5	Needs Merging: No
Severity: New	Needs Automation: No
Reason for Closing:	Support Suite Ticket: n/a
Reason for Blocked:	Hardware Configuration:
Needs QA: No	ChangeLog Required: No
Needs Doc: No	

Description

Hi,

I recently started monitoring our FreeNAS machines and noticed an interesting thing.

Our 10Gig interfaces are reported as 1Gbps, via SNMP.
Lagg interface is reported as 2.8Gbps and VLAN interfaces are reported as 10Mbps.

This messes with SNMP monitoring big time.
I have encountered similar problem few years before (on Linux) and the solution was to change the Counter32 to Counter64, and then provide correct value.

Output from my SNMP:

```
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifIndex.1 = INTEGER: 1
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifIndex.2 = INTEGER: 2
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifIndex.3 = INTEGER: 3
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifIndex.4 = INTEGER: 4
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifIndex.5 = INTEGER: 5
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifIndex.6 = INTEGER: 6
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifDescr.1 = STRING: ix0
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifDescr.2 = STRING: ix1
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifDescr.3 = STRING: lo0
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifDescr.4 = STRING: lagg0
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifDescr.5 = STRING: vlan4
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifDescr.6 = STRING: vlan12
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifType.1 = INTEGER: ieee8023adLag(161)
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifType.2 = INTEGER: ieee8023adLag(161)
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifType.3 = INTEGER: softwareLoopback(24)
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifType.4 = INTEGER: ethernetCsmacd(6)
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifType.5 = INTEGER: l2vlan(135)
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifType.6 = INTEGER: l2vlan(135)
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifMtu.1 = INTEGER: 9000
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifMtu.2 = INTEGER: 9000
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifMtu.3 = INTEGER: 16384
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifMtu.4 = INTEGER: 9000
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifMtu.5 = INTEGER: 9000
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifMtu.6 = INTEGER: 9000
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifSpeed.1 = Gauge32: 1000000000
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifSpeed.2 = Gauge32: 1000000000
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifSpeed.3 = Gauge32: 0
```


.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifOutOctets.5 = Counter32: 3521222142
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifOutOctets.6 = Counter32: 2289333348
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifOutUcastPkts.1 = Counter32: 2231736247
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifOutUcastPkts.2 = Counter32: 454964701
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifOutUcastPkts.3 = Counter32: 4223197
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifOutUcastPkts.4 = Counter32: 2686700948
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifOutUcastPkts.5 = Counter32: 107375900
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifOutUcastPkts.6 = Counter32: 2099045789
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifOutNUcastPkts.1 = Counter32: 0
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifOutNUcastPkts.2 = Counter32: 0
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifOutNUcastPkts.3 = Counter32: 0
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifOutNUcastPkts.4 = Counter32: 0
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifOutNUcastPkts.5 = Counter32: 0
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifOutNUcastPkts.6 = Counter32: 0
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifOutDiscards.1 = Counter32: 0
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifOutDiscards.2 = Counter32: 0
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifOutDiscards.3 = Counter32: 0
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifOutDiscards.4 = Counter32: 0
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifOutDiscards.5 = Counter32: 0
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifOutDiscards.6 = Counter32: 0
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifOutErrors.1 = Counter32: 0
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifOutErrors.2 = Counter32: 0
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifOutErrors.3 = Counter32: 0
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifOutErrors.4 = Counter32: 29
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifOutErrors.5 = Counter32: 3
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifOutErrors.6 = Counter32: 21
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifOutQLen.1 = Gauge32: 0
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifOutQLen.2 = Gauge32: 0
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifOutQLen.3 = Gauge32: 0
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifOutQLen.4 = Gauge32: 0
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifOutQLen.5 = Gauge32: 0
.iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifOutQLen.6 = Gauge32: 0

Related issues:

Copied to FreeNAS - Bug #53469: Add support for high speed NICs to SNMP

Done

Associated revisions

Revision 54211fc5 - 10/24/2018 08:26 AM - Vladimir Vinogradenko

fix(net-mgmt/net-snmp): support for various media types to netsnmp_sysctl_ifmedia_to_speed() function, so now it should correctly see show the speed for hiSpeed NICs.

FreeBSD bug: https://bugs.freebsd.org/bugzilla/show_bug.cgi?id=212484

Ticket: #51557

Revision 38563c74 - 10/24/2018 10:13 AM - Vladimir Vinogradenko

fix(net-mgmt/net-snmp): support for various media types to netsnmp_sysctl_ifmedia_to_speed() function, so now it should correctly see show the speed for hiSpeed NICs.

FreeBSD bug: https://bugs.freebsd.org/bugzilla/show_bug.cgi?id=212484

Ticket: #51557

(cherry picked from commit 54211fc55db3cc5f710ab6a169ab41b56814ea11)

Revision 49444c90 - 12/13/2018 07:02 AM - Vladimir Vinogradenko

fix(net-mgmt/net-snmp): support for various media types to netsnmp_sysctl_ifmedia_to_speed() function, so now it should correctly see show the speed for hiSpeed NICs.

FreeBSD bug: https://bugs.freebsd.org/bugzilla/show_bug.cgi?id=212484

Ticket: #51557

Revision 119120f4 - 12/13/2018 08:50 AM - Vladimir Vinogradenko

fix(net-mgmt/net-snmp): support for various media types to netsnmp_sysctl_ifmedia_to_speed() function, so now it should correctly see show the speed for hiSpeed NICs.

FreeBSD bug: https://bugs.freebsd.org/bugzilla/show_bug.cgi?id=212484

Ticket: #51557

Revision ce8b6dad - 12/13/2018 09:33 AM - Vladimir Vinogradenko

fix(net-mgmt/net-snmp): support for various media types to netsnmp_sysctl_ifmedia_to_speed() function, so now it should correctly see show the speed for hiSpeed NICs.

FreeBSD bug: https://bugs.freebsd.org/bugzilla/show_bug.cgi?id=212484

Ticket: #51557

Revision ee522a37 - 12/13/2018 10:28 AM - Vladimir Vinogradenko

fix(net-mgmt/net-snmp): support for various media types to netsnmp_sysctl_ifmedia_to_speed() function, so now it should correctly see show the speed for hiSpeed NICs.

FreeBSD bug: https://bugs.freebsd.org/bugzilla/show_bug.cgi?id=212484

Ticket: #51557

Revision b9e8d9ed - 04/22/2019 01:34 PM - Vladimir Vinogradenko

fix(net-mgmt/net-snmp): support for various media types to netsnmp_sysctl_ifmedia_to_speed() function, so now it should correctly see show the speed for hiSpeed NICs.

FreeBSD bug: https://bugs.freebsd.org/bugzilla/show_bug.cgi?id=212484

Ticket: #51557

Revision e93aed51 - 04/22/2019 08:37 PM - Vladimir Vinogradenko

fix(net-mgmt/net-snmp): support for various media types to netsnmp_sysctl_ifmedia_to_speed() function, so now it should correctly see show the speed for hiSpeed NICs.

FreeBSD bug: https://bugs.freebsd.org/bugzilla/show_bug.cgi?id=212484

Ticket: #51557

Revision 0bf84a1d - 04/23/2019 08:59 AM - Vladimir Vinogradenko

fix(net-mgmt/net-snmp): support for various media types to netsnmp_sysctl_ifmedia_to_speed() function, so now it should correctly see show the speed for hiSpeed NICs.

FreeBSD bug: https://bugs.freebsd.org/bugzilla/show_bug.cgi?id=212484

Ticket: #51557

Revision 202542a2 - 04/24/2019 06:08 AM - Vladimir Vinogradenko

fix(net-mgmt/net-snmp): support for various media types to netsnmp_sysctl_ifmedia_to_speed() function, so now it should correctly see show the speed for hiSpeed NICs.

FreeBSD bug: https://bugs.freebsd.org/bugzilla/show_bug.cgi?id=212484

Ticket: #51557

Revision bf027dbe - 04/24/2019 07:28 AM - Vladimir Vinogradenko

fix(net-mgmt/net-snmp): support for various media types to netsnmp_sysctl_ifmedia_to_speed() function, so now it should correctly see show the speed for hiSpeed NICs.

FreeBSD bug: https://bugs.freebsd.org/bugzilla/show_bug.cgi?id=212484

Ticket: #51557

Revision 84b073f4 - 07/23/2019 04:31 AM - Vladimir Vinogradenko

fix(net-mgmt/net-snmp): support for various media types to netsnmp_sysctl_ifmedia_to_speed() function, so now it should correctly see show the speed for hiSpeed NICs.

FreeBSD bug: https://bugs.freebsd.org/bugzilla/show_bug.cgi?id=212484

Ticket: #51557

Revision e942f5c2 - 09/05/2019 08:12 AM - Vladimir Vinogradenko

fix(net-mgmt/net-snmp): support for various media types to netsnmp_sysctl_ifmedia_to_speed() function, so now it should correctly see show the speed for hiSpeed NICs.

FreeBSD bug: https://bugs.freebsd.org/bugzilla/show_bug.cgi?id=212484

Ticket: #51557

History

#1 - 10/16/2018 08:28 AM - Wojciech Kruzel

Both ix0 and ix1 are 10Gbps.

#2 - 10/16/2018 08:31 AM - Wojciech Kruzel

Also ifHighSpeed should be in use, but it's not.

#3 - 10/16/2018 08:41 AM - Wojciech Kruzel

Just to add, that the traffic counters are also off, by a long distance.

According to FreeNAS UI Reporting I'm doing about 1Gbps output, but according to SNMP it's only ~150Mbps.

The counters seem to go around within minutes.

#4 - 10/18/2018 01:09 PM - Dru Lavigne

- Category changed from Services to Middleware

- Assignee changed from Release Council to William Grzybowski

#5 - 10/19/2018 09:52 AM - William Grzybowski

- Assignee changed from William Grzybowski to Vladimir Vinogradenko

- Target version changed from Backlog to 11.2-U2

Vladimir, can you investigate this, please?

#6 - 10/22/2018 10:37 AM - Vladimir Vinogradenko

- Status changed from Unscreened to Blocked

- Reason for Blocked set to Waiting for feedback

Wojciech, we can't just change .iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifSpeed to Gauge64, it would be a violation of standard.

If you don't see ifHighSpeed, you're probably looking in the wrong place. It is not in .iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry, it is in .iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry

Please inspect these values. They are probably also wrong (they are wrong on my machine). net-snmp uses sysctl to retrieve these values, what does `sysctl -a | grep dev.ix.0` say?

#7 - 10/22/2018 10:53 AM - Vladimir Vinogradenko

10Gbit interface speed values are wrong due to https://bugs.freebsd.org/bugzilla/show_bug.cgi?id=212484

I'll backport this into FreeNAS

#8 - 10/22/2018 11:00 AM - Vladimir Vinogradenko

The counters seem to go around within minutes.

Sorry, I don't understand, what do you mean by that? Are SNMP counters showing outdated info (and catch up later)? Do they match netstat -ni output?

#9 - 10/23/2018 02:18 AM - Wojciech Kruzel

Vladimir Vinogradenko wrote:

The counters seem to go around within minutes.

Sorry, I don't understand, what do you mean by that? Are SNMP counters showing outdated info (and catch up later)? Do they match netstat -ni output?

At line speed of 9.5ish Gbps the card passes ~1.1 GB/s. With the counter limit being 4,294,967,296 this is enough only for about 4 seconds of traffic counting, then the counter restarts from zero.

#10 - 10/23/2018 02:23 AM - Wojciech Kruzel

My netstat -ni output:

```
1. netstat -ni
Name Mtu Network Address IpKts lerrs ldrop OpKts Oerrs Coll
ix0 9000 <Link#1> ac:1f:6b:05:94:68 103606023 0 0 12446210737 0 0
ix1 9000 <Link#2> ac:1f:6b:05:94:68 11841105235 0 0 5522600620 0 0
lo0 16384 <Link#3> lo0 8328571 0 0 8328571 0 0
lo0 - ::1/128 ::1 110 - - 110 - -
lo0 - fe80::%lo0/64 fe80::1%lo0 0 - - 0 - -
lo0 - 127.0.0.0/8 127.0.0.1 8327770 - - 8327770 - -
lagg0 9000 <Link#4> ac:1f:6b:05:94:68 11944712400 0 0 17968811357 29 0
lagg0 - 192.168.8.0/2 192.168.8.5 2792618375 - - 8516449590 - -
vlan4 9000 <Link#5> ac:1f:6b:05:94:68 157833696 0 0 191718403 3 0
vlan4 - 192.168.4.0/2 192.168.4.100 157747849 - - 271372914 - -
vlan1 9000 <Link#6> ac:1f:6b:05:94:68 5367655155 0 0 7647789059 21 0
vlan1 - 192.168.12.0/ 192.168.12.5 5367492171 - - 8973424699 - -
```

The counters here are 64bit

#11 - 10/23/2018 07:43 AM - Vladimir Vinogradenko

So is it only a counter overflow error? Do 64-bit counters from .iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry show correct values?

Yes, the HC (high counter presumably) seem to be showing the correct output.
However ifHighSpeed shows incorrect speeds of those interfaces.

See below:

```
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifName.1 = STRING: ix0
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifName.2 = STRING: ix1
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifName.3 = STRING: lo0
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifName.4 = STRING: lagg0
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifName.5 = STRING: vlan4
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifName.6 = STRING: vlan12
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifInMulticastPkts.1 = Counter32: 103877
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifInMulticastPkts.2 = Counter32: 55520
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifInMulticastPkts.3 = Counter32: 0
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifInMulticastPkts.4 = Counter32: 159397
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifInMulticastPkts.5 = Counter32: 36714
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifInMulticastPkts.6 = Counter32: 36171
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifInBroadcastPkts.1 = Counter32: 0
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifInBroadcastPkts.2 = Counter32: 0
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifInBroadcastPkts.3 = Counter32: 0
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifInBroadcastPkts.4 = Counter32: 0
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifInBroadcastPkts.5 = Counter32: 0
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifInBroadcastPkts.6 = Counter32: 0
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifOutMulticastPkts.1 = Counter32: 47912
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifOutMulticastPkts.2 = Counter32: 38292
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifOutMulticastPkts.3 = Counter32: 0
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifOutMulticastPkts.4 = Counter32: 86204
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifOutMulticastPkts.5 = Counter32: 4826
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifOutMulticastPkts.6 = Counter32: 4496
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifOutBroadcastPkts.1 = Counter32: 0
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifOutBroadcastPkts.2 = Counter32: 0
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifOutBroadcastPkts.3 = Counter32: 0
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifOutBroadcastPkts.4 = Counter32: 0
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifOutBroadcastPkts.5 = Counter32: 0
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifOutBroadcastPkts.6 = Counter32: 0
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifHCInOctets.1 = Counter64: 154527830348
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifHCInOctets.2 = Counter64: 5775599171733
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifHCInOctets.3 = Counter64: 2623026988
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifHCInOctets.4 = Counter64: 5930127204688
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifHCInOctets.5 = Counter64: 2876173377048
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifHCInOctets.6 = Counter64: 2510609536862
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifHCInUcastPkts.1 = Counter64: 103611514
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifHCInUcastPkts.2 = Counter64: 11868238398
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifHCInUcastPkts.3 = Counter64: 8642209
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifHCInUcastPkts.4 = Counter64: 11971851076
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifHCInUcastPkts.5 = Counter64: 159605771
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifHCInUcastPkts.6 = Counter64: 5369157998
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifHCInMulticastPkts.1 = Counter64: 103877
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifHCInMulticastPkts.2 = Counter64: 55520
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifHCInMulticastPkts.3 = Counter64: 0
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifHCInMulticastPkts.4 = Counter64: 159397
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifHCInMulticastPkts.5 = Counter64: 36714
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifHCInMulticastPkts.6 = Counter64: 36171
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifHCInBroadcastPkts.1 = Counter64: 0
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifHCInBroadcastPkts.2 = Counter64: 0
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifHCInBroadcastPkts.3 = Counter64: 0
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.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifHCInBroadcastPkts.5 = Counter64: 0
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifHCInBroadcastPkts.6 = Counter64: 0
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.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifHCOctets.5 = Counter64: 186978971300
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.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifHCOctetsMulticastPkts.2 = Counter64: 38292
.iso.org.dod.internet.mgmt.mib-2.ifMIB.ifMIBObjects.ifXTable.ifXEntry.ifHCOctetsMulticastPkts.3 = Counter64: 0
```


#13 - 10/23/2018 07:52 AM - Vladimir Vinogradenko

ifHighSpeed will be fixed in the next release.

Please use 64-bit counters from ifXTable for traffic accounting, we won't convert 32-bit to 64-bit, it might break many other systems.

#14 - 10/23/2018 07:53 AM - Wojciech Kruzel

OK, I will do that. Thanks!

#15 - 10/24/2018 08:32 AM - Vladimir Vinogradenko

PR: <https://github.com/freenas/ports/pull/148>

Acceptance criteria

On machine with 10 GBit network card plugged to 10 GBit network:

Start SNMP service

Run `snmpwalk -v 2c -c public localhost | egrep "ifName|ifHighSpeed"`

It should say `IF-MIB::ifHighSpeed.XXX = Gauge32: 10000` for 10 GBit interface

#16 - 10/24/2018 08:33 AM - Vladimir Vinogradenko

- Status changed from Blocked to In Progress

#17 - 10/24/2018 08:55 AM - Wojciech Kruzel

Would the fix also fix the lag interfaces so they are calculated correctly?

Currently my 20Gbps lag is being reported as 2.8Gbps

#18 - 10/24/2018 10:12 AM - Bug Clerk

- Copied to Bug #53469: Add support for high speed NICs to SNMP added

#19 - 10/24/2018 10:26 AM - Bug Clerk

- Status changed from In Progress to Ready for Testing

PR: <https://github.com/freenas/ports/pull/148>

#20 - 10/24/2018 10:26 AM - Bug Clerk

- Target version changed from 11.2-U2 to 11.3

#21 - 10/25/2018 09:17 AM - Dru Lavigne

- Subject changed from FreeNAS SNMP incorrectly reports interfaces to Add support for high speed NICs to SNMP

#22 - 01/21/2019 11:01 AM - Dru Lavigne

- Target version changed from 11.3 to 11.3-BETA1

#23 - 01/23/2019 09:53 AM - Dru Lavigne

- *Status changed from Ready for Testing to Done*
- *Target version changed from 11.3-BETA1 to Master - FreeNAS Nightlies*
- *Reason for Blocked deleted (Waiting for feedback)*
- *Needs QA changed from Yes to No*
- *Needs Doc changed from Yes to No*
- *Needs Merging changed from Yes to No*