

Re: TCP checksum failure with offloading disabled (0xFFFF)

Source:

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- *From:* "Volodymyr M. Shcherbina" <v_scherbina@xxxxxxxxxxxxxxxxxx>
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Sounds like an issue with Vista stack or an issue with filtering software which is installed in Vista machine. Are you able to reproduce the problem on another computer (probably with no firewalls or anti-(viruses, spywares, etc)?

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V.

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"pdhooper" <pdhooper@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message <news:1450B200-74A9-44C2-9727-CE8EF4BBA8DF@xxxxxxxxxxxxxxxxxxxx>

I am a developer of an application that receives messages over TCP/IP. This application works okay under XP, however under Vista there is a network 'RST' approximately every 24 hours on average. Using Wireshark to see what is going on I can see that all is fine until a checksum error on a packet. This packet is rejected by the receiving device and consequently the stack tries to resend several times until it resets the connection. The application then opens a new connection and carries on, but loses the data between the connection being dropped and re-established.

It is worth noting that with offloading enabled there appears not to be an issue. I'm currently confirming this with identical hardware. Could there be an issue with the TCP stack in Vista?

So here is some technical detail. Below are some excerpts from wireshark traces.

First... here is what the traffic looks like normally, the PC (10.99.7.251)

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regularly received 30 bytes of data from the device (10.99.7.28). The PC responds with a taxi (1 byte of data to circumvent Nagels) – then the device acknowledges it.

```
193139 2008-03-11 16:12:07.809202 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1440478 Ack=48371 Win=8192 Len=30
193140 2008-03-11 16:12:07.809346 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [PSH, ACK] Seq=48371 Ack=1440508 Win=62772 Len=1
193141 2008-03-11 16:12:07.810191 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [ACK] Seq=1440508 Ack=48372 Win=8191 Len=0
```

Then over time (approx 24 hours) we get a checksum error on the taxi.

```
193151 2008-03-11 16:12:09.306263 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [PSH, ACK] Seq=48374 Ack=1440598 Win=64152 [TCP
CHECKSUM 0xFFFF] Len=1
```

which is resent

```
193158 2008-03-11 16:12:10.205800 10.99.7.251 10.99.7.28
TCP [TCP Keep-Alive] 50598 > 7418 [PSH, ACK] Seq=48374 Ack=1440628
Win=64122 [TCP CHECKSUM 0xFFFF] Len=1
```

```
193166 2008-03-11 16:12:11.405845 10.99.7.251 10.99.7.28
TCP [TCP Keep-Alive] 50598 > 7418 [PSH, ACK] Seq=48374 Ack=1440718
Win=64032 [TCP CHECKSUM 0xFFFF] Len=1
```

```
193183 2008-03-11 16:12:13.805982 10.99.7.251 10.99.7.28
TCP [TCP Keep-Alive] 50598 > 7418 [PSH, ACK] Seq=48374 Ack=1440868
Win=63882 [TCP CHECKSUM 0xFFFF] Len=1
```

```
193213 2008-03-11 16:12:18.607290 10.99.7.251 10.99.7.28
```

Re: TCP checksum failure with offloading disabled (0xFFFF)

TCP [TCP Keep-Alive] 50598 > 7418 [PSH, ACK] Seq=48374 Ack=1441138
Win=63612 [TCP CHECKSUM 0xFFFF] Len=1

Until the stack decides to reset the connection

193272 2008-03-11 16:12:28.207809 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [RST, ACK] Seq=48375 Ack=1441708 Win=0 Len=0

Question is could this be the fault of the stack?

Thanks for reading... please reply with any ideas!

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Technical details. Using an off the shelf DELL PC and laptop with Vista
6.0.6000

Complete trace....

No. Time Source Destination
Protocol Info
193139 2008-03-11 16:12:07.809202 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1440478 Ack=48371 Win=8192 Len=30
193140 2008-03-11 16:12:07.809346 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [PSH, ACK] Seq=48371 Ack=1440508 Win=62772 Len=1
193141 2008-03-11 16:12:07.810191 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [ACK] Seq=1440508 Ack=48372 Win=8191 Len=0
193142 2008-03-11 16:12:08.308209 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1440508 Ack=48372 Win=8192 Len=30
193143 2008-03-11 16:12:08.308358 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [PSH, ACK] Seq=48372 Ack=1440538 Win=62742 Len=1
193144 2008-03-11 16:12:08.309193 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [ACK] Seq=1440538 Ack=48373 Win=8191 Len=0
193145 2008-03-11 16:12:08.695961 10.99.7.251 10.99.7.28
ICMP Echo (ping) request
193146 2008-03-11 16:12:08.696573 10.99.7.28 10.99.7.251
ICMP Echo (ping) reply
193147 2008-03-11 16:12:08.807085 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1440538 Ack=48373 Win=8192 Len=30
193148 2008-03-11 16:12:08.807241 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [PSH, ACK] Seq=48373 Ack=1440568 Win=62712 Len=1

Re: TCP checksum failure with offloading disabled (0xFFFF)

193149 2008-03-11 16:12:08.808067 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [ACK] Seq=1440568 Ack=48374 Win=8191 Len=0
193150 2008-03-11 16:12:09.306073 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1440568 Ack=48374 Win=8192 Len=30
193151 2008-03-11 16:12:09.306263 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [PSH, ACK] Seq=48374 Ack=1440598 Win=64152 [TCP
CHECKSUM 0xFFFF] Len=1
193152 2008-03-11 16:12:09.605766 10.99.7.251 10.99.7.28
TCP [TCP Keep-Alive] 50598 > 7418 [PSH, ACK] Seq=48374 Ack=1440598
Win=64152 [TCP CHECKSUM 0xFFFF] Len=1
193153 2008-03-11 16:12:09.696994 10.99.7.251 10.99.7.28
ICMP Echo (ping) request
193154 2008-03-11 16:12:09.697580 10.99.7.28 10.99.7.251
ICMP Echo (ping) reply
193155 2008-03-11 16:12:09.805230 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1440598 Ack=48374 Win=8192 Len=30
193156 2008-03-11 16:12:09.824831 10.99.7.28 10.99.7.251
TCP [TCP Retransmission] 7418 > 50598 [PSH, ACK] Seq=1440568
Ack=48374
Win=8192 Len=60
193157 2008-03-11 16:12:09.824878 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [ACK] Seq=48375 Ack=1440628 Win=64122 Len=0
193158 2008-03-11 16:12:10.205800 10.99.7.251 10.99.7.28
TCP [TCP Keep-Alive] 50598 > 7418 [PSH, ACK] Seq=48374 Ack=1440628
Win=64122 [TCP CHECKSUM 0xFFFF] Len=1
193159 2008-03-11 16:12:10.304087 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1440628 Ack=48374 Win=8192 Len=30
193160 2008-03-11 16:12:10.495800 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [ACK] Seq=48375 Ack=1440658 Win=64092 Len=0
193161 2008-03-11 16:12:10.697986 10.99.7.251 10.99.7.28
ICMP Echo (ping) request
193162 2008-03-11 16:12:10.698532 10.99.7.28 10.99.7.251
ICMP Echo (ping) reply
193163 2008-03-11 16:12:10.803073 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1440658 Ack=48374 Win=8192 Len=30
193164 2008-03-11 16:12:10.995826 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [ACK] Seq=48375 Ack=1440688 Win=64062 Len=0
193165 2008-03-11 16:12:11.301934 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1440688 Ack=48374 Win=8192 Len=30
193166 2008-03-11 16:12:11.405845 10.99.7.251 10.99.7.28
TCP [TCP Keep-Alive] 50598 > 7418 [PSH, ACK] Seq=48374 Ack=1440718
Win=64032 [TCP CHECKSUM 0xFFFF] Len=1
193167 2008-03-11 16:12:11.702114 10.99.7.251 10.99.7.28
ICMP Echo (ping) request
193168 2008-03-11 16:12:11.702700 10.99.7.28 10.99.7.251
ICMP Echo (ping) reply
193169 2008-03-11 16:12:11.801075 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1440718 Ack=48374 Win=8192 Len=30
193170 2008-03-11 16:12:11.820706 10.99.7.28 10.99.7.251
TCP [TCP Retransmission] 7418 > 50598 [PSH, ACK] Seq=1440688
Ack=48374

Re: TCP checksum failure with offloading disabled (0xFFFF)

Win=8192 Len=60
193171 2008-03-11 16:12:11.820749 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [ACK] Seq=48375 Ack=1440748 Win=64002 Len=0
193172 2008-03-11 16:12:12.299966 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1440748 Ack=48374 Win=8192 Len=30
193173 2008-03-11 16:12:12.495922 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [ACK] Seq=48375 Ack=1440778 Win=63972 Len=0
193174 2008-03-11 16:12:12.703171 10.99.7.251 10.99.7.28
ICMP Echo (ping) request
193175 2008-03-11 16:12:12.703704 10.99.7.28 10.99.7.251
ICMP Echo (ping) reply
193176 2008-03-11 16:12:12.798952 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1440778 Ack=48374 Win=8192 Len=30
193177 2008-03-11 16:12:12.995956 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [ACK] Seq=48375 Ack=1440808 Win=63942 Len=0
193178 2008-03-11 16:12:13.297835 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1440808 Ack=48374 Win=8192 Len=30
193179 2008-03-11 16:12:13.495981 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [ACK] Seq=48375 Ack=1440838 Win=63912 Len=0
193180 2008-03-11 16:12:13.704227 10.99.7.251 10.99.7.28
ICMP Echo (ping) request
193181 2008-03-11 16:12:13.704827 10.99.7.28 10.99.7.251
ICMP Echo (ping) reply
193182 2008-03-11 16:12:13.796832 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1440838 Ack=48374 Win=8192 Len=30
193183 2008-03-11 16:12:13.805982 10.99.7.251 10.99.7.28
TCP [TCP Keep-Alive] 50598 > 7418 [PSH, ACK] Seq=48374 Ack=1440868
Win=63882 [TCP CHECKSUM 0xFFFF] Len=1
193184 2008-03-11 16:12:14.295842 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1440868 Ack=48374 Win=8192 Len=30
193185 2008-03-11 16:12:14.315569 10.99.7.28 10.99.7.251
TCP [TCP Retransmission] 7418 > 50598 [PSH, ACK] Seq=1440838
Ack=48374
Win=8192 Len=60
193186 2008-03-11 16:12:14.315613 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [ACK] Seq=48375 Ack=1440898 Win=63852 Len=0
193187 2008-03-11 16:12:14.561998 Belkin_e7:3f4 Cambridg_00:02:1c
ARP Who has 10.99.7.28? Tell 10.99.7.251
193188 2008-03-11 16:12:14.562657 Cambridg_00:02:1c Belkin_e7:3f4
ARP 10.99.7.28 is at 00:19:02:00:02:1c
193189 2008-03-11 16:12:14.705205 10.99.7.251 10.99.7.28
ICMP Echo (ping) request
193190 2008-03-11 16:12:14.705682 10.99.7.28 10.99.7.251
ICMP Echo (ping) reply
193191 2008-03-11 16:12:14.794716 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1440898 Ack=48374 Win=8192 Len=30
193192 2008-03-11 16:12:14.986066 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [ACK] Seq=48375 Ack=1440928 Win=63822 Len=0
193193 2008-03-11 16:12:15.293729 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1440928 Ack=48374 Win=8192 Len=30
193194 2008-03-11 16:12:15.487104 10.99.7.251 10.99.7.28

Re: TCP checksum failure with offloading disabled (0xFFFF)

TCP 50598 > 7418 [ACK] Seq=48375 Ack=1440958 Win=63792 Len=0
193195 2008-03-11 16:12:15.707342 10.99.7.251 10.99.7.28
ICMP Echo (ping) request
193196 2008-03-11 16:12:15.707823 10.99.7.28 10.99.7.251
ICMP Echo (ping) reply
193197 2008-03-11 16:12:15.792732 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1440958 Ack=48374 Win=8192 Len=30
193198 2008-03-11 16:12:15.987120 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [ACK] Seq=48375 Ack=1440988 Win=63762 Len=0
193199 2008-03-11 16:12:16.291735 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1440988 Ack=48374 Win=8192 Len=30
193200 2008-03-11 16:12:16.487134 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [ACK] Seq=48375 Ack=1441018 Win=63732 Len=0
193201 2008-03-11 16:12:16.711647 10.99.7.251 10.99.7.28
ICMP Echo (ping) request
193202 2008-03-11 16:12:16.712173 10.99.7.28 10.99.7.251
ICMP Echo (ping) reply
193203 2008-03-11 16:12:16.790581 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1441018 Ack=48374 Win=8192 Len=30
193204 2008-03-11 16:12:16.987169 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [ACK] Seq=48375 Ack=1441048 Win=63702 Len=0
193205 2008-03-11 16:12:17.289528 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1441048 Ack=48374 Win=8192 Len=30
193206 2008-03-11 16:12:17.487210 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [ACK] Seq=48375 Ack=1441078 Win=63672 Len=0
193207 2008-03-11 16:12:17.714460 10.99.7.251 10.99.7.28
ICMP Echo (ping) request
193208 2008-03-11 16:12:17.714953 10.99.7.28 10.99.7.251
ICMP Echo (ping) reply
193209 2008-03-11 16:12:17.788537 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1441078 Ack=48374 Win=8192 Len=30
193210 2008-03-11 16:12:17.987234 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [ACK] Seq=48375 Ack=1441108 Win=63642 Len=0
193211 2008-03-11 16:12:18.287556 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1441108 Ack=48374 Win=8192 Len=30
193212 2008-03-11 16:12:18.487264 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [ACK] Seq=48375 Ack=1441138 Win=63612 Len=0
193213 2008-03-11 16:12:18.607290 10.99.7.251 10.99.7.28
TCP [TCP Keep-Alive] 50598 > 7418 [PSH, ACK] Seq=48374 Ack=1441138
Win=63612 [TCP CHECKSUM 0xFFFF] Len=1
193214 2008-03-11 16:12:18.715503 10.99.7.251 10.99.7.28
ICMP Echo (ping) request
193215 2008-03-11 16:12:18.715950 10.99.7.28 10.99.7.251
ICMP Echo (ping) reply
193216 2008-03-11 16:12:18.786452 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1441138 Ack=48374 Win=8192 Len=30
193217 2008-03-11 16:12:18.977297 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [ACK] Seq=48375 Ack=1441168 Win=63582 Len=0
193218 2008-03-11 16:12:19.285455 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1441168 Ack=48374 Win=8192 Len=30
193219 2008-03-11 16:12:19.477325 10.99.7.251 10.99.7.28

Re: TCP checksum failure with offloading disabled (0xFFFF)

TCP 50598 > 7418 [ACK] Seq=48375 Ack=1441198 Win=63552 Len=0
193220 2008-03-11 16:12:19.716590 10.99.7.251 10.99.7.28
ICMP Echo (ping) request
193221 2008-03-11 16:12:19.717073 10.99.7.28 10.99.7.251
ICMP Echo (ping) reply
193222 2008-03-11 16:12:19.784457 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1441198 Ack=48374 Win=8192 Len=30
193223 2008-03-11 16:12:19.977349 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [ACK] Seq=48375 Ack=1441228 Win=63522 Len=0
193224 2008-03-11 16:12:20.283346 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1441228 Ack=48374 Win=8192 Len=30
193225 2008-03-11 16:12:20.477382 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [ACK] Seq=48375 Ack=1441258 Win=63492 Len=0
193226 2008-03-11 16:12:20.717631 10.99.7.251 10.99.7.28
ICMP Echo (ping) request
193227 2008-03-11 16:12:20.718201 10.99.7.28 10.99.7.251
ICMP Echo (ping) reply
193228 2008-03-11 16:12:20.782337 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1441258 Ack=48374 Win=8192 Len=30
193229 2008-03-11 16:12:20.977414 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [ACK] Seq=48375 Ack=1441288 Win=63462 Len=0
193230 2008-03-11 16:12:21.281342 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1441288 Ack=48374 Win=8192 Len=30
193231 2008-03-11 16:12:21.477438 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [ACK] Seq=48375 Ack=1441318 Win=63432 Len=0
193232 2008-03-11 16:12:21.718735 10.99.7.251 10.99.7.28
ICMP Echo (ping) request
193233 2008-03-11 16:12:21.719301 10.99.7.28 10.99.7.251
ICMP Echo (ping) reply
193234 2008-03-11 16:12:21.780353 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1441318 Ack=48374 Win=8192 Len=30
193235 2008-03-11 16:12:21.977451 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [ACK] Seq=48375 Ack=1441348 Win=63402 Len=0
193236 2008-03-11 16:12:22.279232 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1441348 Ack=48374 Win=8192 Len=30
193237 2008-03-11 16:12:22.477490 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [ACK] Seq=48375 Ack=1441378 Win=63372 Len=0
193238 2008-03-11 16:12:22.726663 10.99.7.251 10.99.7.28
ICMP Echo (ping) request
193239 2008-03-11 16:12:22.727157 10.99.7.28 10.99.7.251
ICMP Echo (ping) reply
193240 2008-03-11 16:12:22.778210 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1441378 Ack=48374 Win=8192 Len=30
193241 2008-03-11 16:12:22.977517 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [ACK] Seq=48375 Ack=1441408 Win=63342 Len=0
193242 2008-03-11 16:12:23.277213 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1441408 Ack=48374 Win=8192 Len=30
193243 2008-03-11 16:12:23.467583 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [ACK] Seq=48375 Ack=1441438 Win=63312 Len=0
193244 2008-03-11 16:12:23.728815 10.99.7.251 10.99.7.28
ICMP Echo (ping) request

Re: TCP checksum failure with offloading disabled (0xFFFF)

193245 2008-03-11 16:12:23.729325 10.99.7.28 10.99.7.251
ICMP Echo (ping) reply
193246 2008-03-11 16:12:23.776216 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1441438 Ack=48374 Win=8192 Len=30
193247 2008-03-11 16:12:23.967584 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [ACK] Seq=48375 Ack=1441468 Win=63282 Len=0
193248 2008-03-11 16:12:24.275092 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1441468 Ack=48374 Win=8192 Len=30
193249 2008-03-11 16:12:24.467607 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [ACK] Seq=48375 Ack=1441498 Win=63252 Len=0
193250 2008-03-11 16:12:24.729859 10.99.7.251 10.99.7.28
ICMP Echo (ping) request
193251 2008-03-11 16:12:24.730457 10.99.7.28 10.99.7.251
ICMP Echo (ping) reply
193252 2008-03-11 16:12:24.774078 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1441498 Ack=48374 Win=8192 Len=30
193253 2008-03-11 16:12:24.967632 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [ACK] Seq=48375 Ack=1441528 Win=63222 Len=0
193254 2008-03-11 16:12:25.273086 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1441528 Ack=48374 Win=8192 Len=30
193255 2008-03-11 16:12:25.467667 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [ACK] Seq=48375 Ack=1441558 Win=63192 Len=0
193256 2008-03-11 16:12:25.730916 10.99.7.251 10.99.7.28
ICMP Echo (ping) request
193257 2008-03-11 16:12:25.731456 10.99.7.28 10.99.7.251
ICMP Echo (ping) reply
193258 2008-03-11 16:12:25.772089 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1441558 Ack=48374 Win=8192 Len=30
193259 2008-03-11 16:12:25.967692 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [ACK] Seq=48375 Ack=1441588 Win=63162 Len=0
193260 2008-03-11 16:12:26.270958 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1441588 Ack=48374 Win=8192 Len=30
193261 2008-03-11 16:12:26.467796 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [ACK] Seq=48375 Ack=1441618 Win=63132 Len=0
193262 2008-03-11 16:12:26.731984 10.99.7.251 10.99.7.28
ICMP Echo (ping) request
193263 2008-03-11 16:12:26.732583 10.99.7.28 10.99.7.251
ICMP Echo (ping) reply
193264 2008-03-11 16:12:26.769968 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1441618 Ack=48374 Win=8192 Len=30
193265 2008-03-11 16:12:26.967750 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [ACK] Seq=48375 Ack=1441648 Win=63102 Len=0
193266 2008-03-11 16:12:27.268978 10.99.7.28 10.99.7.251
TCP 7418 > 50598 [PSH, ACK] Seq=1441648 Ack=48374 Win=8192 Len=30
193267 2008-03-11 16:12:27.467784 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [ACK] Seq=48375 Ack=1441678 Win=63072 Len=0
193268 2008-03-11 16:12:27.733036 10.99.7.251 10.99.7.28
ICMP Echo (ping) request
193269 2008-03-11 16:12:27.733577 10.99.7.28 10.99.7.251
ICMP Echo (ping) reply
193270 2008-03-11 16:12:27.767967 10.99.7.28 10.99.7.251

Re: TCP checksum failure with offloading disabled (0xFFFF)

TCP 7418 > 50598 [PSH, ACK] Seq=1441678 Ack=48374 Win=8192 Len=30
193271 2008-03-11 16:12:27.967814 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [ACK] Seq=48375 Ack=1441708 Win=63042 Len=0
193272 2008-03-11 16:12:28.207809 10.99.7.251 10.99.7.28
TCP 50598 > 7418 [RST, ACK] Seq=48375 Ack=1441708 Win=0 Len=0
193273 2008-03-11 16:12:28.734006 10.99.7.251 10.99.7.28
ICMP Echo (ping) request
193274 2008-03-11 16:12:28.734531 10.99.7.28 10.99.7.251
ICMP Echo (ping) reply
193275 2008-03-11 16:12:29.735158 10.99.7.251 10.99.7.28
ICMP Echo (ping) request
193276 2008-03-11 16:12:29.735702 10.99.7.28 10.99.7.251
ICMP Echo (ping) reply
193277 2008-03-11 16:12:30.736179 10.99.7.251 10.99.7.28
ICMP Echo (ping) request
193278 2008-03-11 16:12:30.736706 10.99.7.28 10.99.7.251
ICMP Echo (ping) reply
193279 2008-03-11 16:12:31.737259 10.99.7.251 10.99.7.28
ICMP Echo (ping) request
193280 2008-03-11 16:12:31.737826 10.99.7.28 10.99.7.251
ICMP Echo (ping) reply