Все дампы расположены по ссылке: <https://disk.yandex.ru/d/5nE6R9jSnHXwqA>

Дамп dos\_ftp.pcap (3045 пакетов):

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Фильтр tcpdump** | **BPF фильтр ( code in a human readable form)** | **BPF фильтр (C program fragment)** | **BPF фильтр (code as decimal numbers)** | **Контрольное число отфильтрованных пакетов** |
| ip and tcp[tcpflags] == tcp-ack and len > 0 | (000) ldh [12]  (001) jeq #0x800 jt 2 jf 12  (002) ldb [23]  (003) jeq #0x6 jt 4 jf 12  (004) ldh [20]  (005) jset #0x1fff jt 12 jf 6  (006) ldxb 4\*([14]&0xf)  (007) ldb [x + 27]  (008) jeq #0x10 jt 9 jf 12  (009) ld #pktlen  (010) jgt #0x0 jt 11 jf 12  (011) ret #262144  (012) ret #0 | { 0x28, 0, 0, 0x0000000c },  { 0x15, 0, 10, 0x00000800 },  { 0x30, 0, 0, 0x00000017 },  { 0x15, 0, 8, 0x00000006 },  { 0x28, 0, 0, 0x00000014 },  { 0x45, 6, 0, 0x00001fff },  { 0xb1, 0, 0, 0x0000000e },  { 0x50, 0, 0, 0x0000001b },  { 0x15, 0, 3, 0x00000010 },  { 0x80, 0, 0, 0x00000000 },  { 0x25, 0, 1, 0x00000000 },  { 0x6, 0, 0, 0x00040000 },  { 0x6, 0, 0, 0x00000000 }, | 13  40 0 0 12  21 0 10 2048  48 0 0 23  21 0 8 6  40 0 0 20  69 6 0 8191  177 0 0 14  80 0 0 27  21 0 3 16  128 0 0 0  37 0 1 0  6 0 0 262144  6 0 0 0 | 1016 |
| src net 10.51.203.0/24 and dst net 10.51.201.0/24 and dst port ftp | (000) ldh [12]  (001) jeq #0x800 jt 2 jf 18  (002) ld [26]  (003) and #0xffffff00  (004) jeq #0xa33cb00 jt 5 jf 18  (005) ld [30]  (006) and #0xffffff00  (007) jeq #0xa33c900 jt 8 jf 18  (008) ldb [23]  (009) jeq #0x84 jt 12 jf 10  (010) jeq #0x6 jt 12 jf 11  (011) jeq #0x11 jt 12 jf 18  (012) ldh [20]  (013) jset #0x1fff jt 18 jf 14  (014) ldxb 4\*([14]&0xf)  (015) ldh [x + 16]  (016) jeq #0x15 jt 17 jf 18  (017) ret #262144  (018) ret #0 | { 0x28, 0, 0, 0x0000000c },  { 0x15, 0, 16, 0x00000800 },  { 0x20, 0, 0, 0x0000001a },  { 0x54, 0, 0, 0xffffff00 },  { 0x15, 0, 13, 0x0a33cb00 },  { 0x20, 0, 0, 0x0000001e },  { 0x54, 0, 0, 0xffffff00 },  { 0x15, 0, 10, 0x0a33c900 },  { 0x30, 0, 0, 0x00000017 },  { 0x15, 2, 0, 0x00000084 },  { 0x15, 1, 0, 0x00000006 },  { 0x15, 0, 6, 0x00000011 },  { 0x28, 0, 0, 0x00000014 },  { 0x45, 4, 0, 0x00001fff },  { 0xb1, 0, 0, 0x0000000e },  { 0x48, 0, 0, 0x00000010 },  { 0x15, 0, 1, 0x00000015 },  { 0x6, 0, 0, 0x00040000 },  { 0x6, 0, 0, 0x00000000 }, | 19  40 0 0 12  21 0 16 2048  32 0 0 26  84 0 0 4294967040  21 0 13 171166464  32 0 0 30  84 0 0 4294967040  21 0 10 171165952  48 0 0 23  21 2 0 132  21 1 0 6  21 0 6 17  40 0 0 20  69 4 0 8191  177 0 0 14  72 0 0 16  21 0 1 21  6 0 0 262144  6 0 0 0 | 1523 |
| tcp[tcpflags] == tcp-syn or tcp[tcpflags] == tcp-ack | (000) ldh [12]  (001) jeq #0x800 jt 2 jf 11  (002) ldb [23]  (003) jeq #0x6 jt 4 jf 11  (004) ldh [20]  (005) jset #0x1fff jt 11 jf 6  (006) ldxb 4\*([14]&0xf)  (007) ldb [x + 27]  (008) jeq #0x2 jt 10 jf 9  (009) jeq #0x10 jt 10 jf 11  (010) ret #262144  (011) ret #0 | { 0x28, 0, 0, 0x0000000c },  { 0x15, 0, 9, 0x00000800 },  { 0x30, 0, 0, 0x00000017 },  { 0x15, 0, 7, 0x00000006 },  { 0x28, 0, 0, 0x00000014 },  { 0x45, 5, 0, 0x00001fff },  { 0xb1, 0, 0, 0x0000000e },  { 0x50, 0, 0, 0x0000001b },  { 0x15, 1, 0, 0x00000002 },  { 0x15, 0, 1, 0x00000010 },  { 0x6, 0, 0, 0x00040000 },  { 0x6, 0, 0, 0x00000000 }, | 12  40 0 0 12  21 0 9 2048  48 0 0 23  21 0 7 6  40 0 0 20  69 5 0 8191  177 0 0 14  80 0 0 27  21 1 0 2  21 0 1 16  6 0 0 262144  6 0 0 0 | 1523 |
| tcp[13] == 0x012 | (000) ldh [12]  (001) jeq #0x800 jt 2 jf 10  (002) ldb [23]  (003) jeq #0x6 jt 4 jf 10  (004) ldh [20]  (005) jset #0x1fff jt 10 jf 6  (006) ldxb 4\*([14]&0xf)  (007) ldb [x + 27]  (008) jeq #0x12 jt 9 jf 10  (009) ret #262144  (010) ret #0 | { 0x28, 0, 0, 0x0000000c },  { 0x15, 0, 8, 0x00000800 },  { 0x30, 0, 0, 0x00000017 },  { 0x15, 0, 6, 0x00000006 },  { 0x28, 0, 0, 0x00000014 },  { 0x45, 4, 0, 0x00001fff },  { 0xb1, 0, 0, 0x0000000e },  { 0x50, 0, 0, 0x0000001b },  { 0x15, 0, 1, 0x00000012 },  { 0x6, 0, 0, 0x00040000 },  { 0x6, 0, 0, 0x00000000 }, | 11  40 0 0 12  21 0 8 2048  48 0 0 23  21 0 6 6  40 0 0 20  69 4 0 8191  177 0 0 14  80 0 0 27  21 0 1 18  6 0 0 262144  6 0 0 0 | 507 |
| tcp[tcpflags] == tcp-syn and dst 10.51.201.137 | (000) ldh [12]  (001) jeq #0x800 jt 2 jf 12  (002) ldb [23]  (003) jeq #0x6 jt 4 jf 12  (004) ldh [20]  (005) jset #0x1fff jt 12 jf 6  (006) ldxb 4\*([14]&0xf)  (007) ldb [x + 27]  (008) jeq #0x2 jt 9 jf 12  (009) ld [30]  (010) jeq #0xa33c989 jt 11 jf 12  (011) ret #262144  (012) ret #0 | { 0x28, 0, 0, 0x0000000c },  { 0x15, 0, 10, 0x00000800 },  { 0x30, 0, 0, 0x00000017 },  { 0x15, 0, 8, 0x00000006 },  { 0x28, 0, 0, 0x00000014 },  { 0x45, 6, 0, 0x00001fff },  { 0xb1, 0, 0, 0x0000000e },  { 0x50, 0, 0, 0x0000001b },  { 0x15, 0, 3, 0x00000002 },  { 0x20, 0, 0, 0x0000001e },  { 0x15, 0, 1, 0x0a33c989 },  { 0x6, 0, 0, 0x00040000 },  { 0x6, 0, 0, 0x00000000 }, | 13  40 0 0 12  21 0 10 2048  48 0 0 23  21 0 8 6  40 0 0 20  69 6 0 8191  177 0 0 14  80 0 0 27  21 0 3 2  32 0 0 30  21 0 1 171166089  6 0 0 262144  6 0 0 0 | 507 |
| tcp[tcpflags] == tcp-syn and ether dst 00:50:56:b7:b1:3a | (000) ldh [12]  (001) jeq #0x800 jt 2 jf 14  (002) ldb [23]  (003) jeq #0x6 jt 4 jf 14  (004) ldh [20]  (005) jset #0x1fff jt 14 jf 6  (006) ldxb 4\*([14]&0xf)  (007) ldb [x + 27]  (008) jeq #0x2 jt 9 jf 14  (009) ld [2]  (010) jeq #0x56b7b13a jt 11 jf 14  (011) ldh [0]  (012) jeq #0x50 jt 13 jf 14  (013) ret #262144  (014) ret #0 | { 0x28, 0, 0, 0x0000000c },  { 0x15, 0, 12, 0x00000800 },  { 0x30, 0, 0, 0x00000017 },  { 0x15, 0, 10, 0x00000006 },  { 0x28, 0, 0, 0x00000014 },  { 0x45, 8, 0, 0x00001fff },  { 0xb1, 0, 0, 0x0000000e },  { 0x50, 0, 0, 0x0000001b },  { 0x15, 0, 5, 0x00000002 },  { 0x20, 0, 0, 0x00000002 },  { 0x15, 0, 3, 0x56b7b13a },  { 0x28, 0, 0, 0x00000000 },  { 0x15, 0, 1, 0x00000050 },  { 0x6, 0, 0, 0x00040000 },  { 0x6, 0, 0, 0x00000000 }, | 15  40 0 0 12  21 0 12 2048  48 0 0 23  21 0 10 6  40 0 0 20  69 8 0 8191  177 0 0 14  80 0 0 27  21 0 5 2  32 0 0 2  21 0 3 1454879034  40 0 0 0  21 0 1 80  6 0 0 262144  6 0 0 0 | 507 |
| src 10.51.203.152 and dst 10.51.201.137 and tcp port 21 | (000) ldh [12]  (001) jeq #0x800 jt 2 jf 16  (002) ld [26]  (003) jeq #0xa33cb98 jt 4 jf 16  (004) ld [30]  (005) jeq #0xa33c989 jt 6 jf 16  (006) ldb [23]  (007) jeq #0x6 jt 8 jf 16  (008) ldh [20]  (009) jset #0x1fff jt 16 jf 10  (010) ldxb 4\*([14]&0xf)  (011) ldh [x + 14]  (012) jeq #0x15 jt 15 jf 13  (013) ldh [x + 16]  (014) jeq #0x15 jt 15 jf 16  (015) ret #262144  (016) ret #0 | { 0x28, 0, 0, 0x0000000c },  { 0x15, 0, 14, 0x00000800 },  { 0x20, 0, 0, 0x0000001a },  { 0x15, 0, 12, 0x0a33cb98 },  { 0x20, 0, 0, 0x0000001e },  { 0x15, 0, 10, 0x0a33c989 },  { 0x30, 0, 0, 0x00000017 },  { 0x15, 0, 8, 0x00000006 },  { 0x28, 0, 0, 0x00000014 },  { 0x45, 6, 0, 0x00001fff },  { 0xb1, 0, 0, 0x0000000e },  { 0x48, 0, 0, 0x0000000e },  { 0x15, 2, 0, 0x00000015 },  { 0x48, 0, 0, 0x00000010 },  { 0x15, 0, 1, 0x00000015 },  { 0x6, 0, 0, 0x00040000 },  { 0x6, 0, 0, 0x00000000 }, | 17  40 0 0 12  21 0 14 2048  32 0 0 26  21 0 12 171166616  32 0 0 30  21 0 10 171166089  48 0 0 23  21 0 8 6  40 0 0 20  69 6 0 8191  177 0 0 14  72 0 0 14  21 2 0 21  72 0 0 16  21 0 1 21  6 0 0 262144  6 0 0 0 | 1523 |
| tcp port 21 and (((ip[2:2] - ((ip[0]&0xf)<<2)) - ((tcp[12]&0xf0)>>2)) != 0) | (000) ldh [12]  (001) jeq #0x86dd jt 29 jf 2  (002) jeq #0x800 jt 3 jf 29  (003) ldb [23]  (004) jeq #0x6 jt 5 jf 29  (005) ldh [20]  (006) jset #0x1fff jt 29 jf 7  (007) ldxb 4\*([14]&0xf)  (008) ldh [x + 14]  (009) jeq #0x15 jt 12 jf 10  (010) ldh [x + 16]  (011) jeq #0x15 jt 12 jf 29  (012) ldh [16]  (013) st M[1]  (014) ldb [14]  (015) and #0xf  (016) lsh #2  (017) tax  (018) ld M[1]  (019) sub x  (020) st M[5]  (021) ldxb 4\*([14]&0xf)  (022) ldb [x + 26]  (023) and #0xf0  (024) rsh #2  (025) tax  (026) ld M[5]  (027) jeq x jt 29 jf 28  (028) ret #262144  (029) ret #0 | { 0x28, 0, 0, 0x0000000c },  { 0x15, 27, 0, 0x000086dd },  { 0x15, 0, 26, 0x00000800 },  { 0x30, 0, 0, 0x00000017 },  { 0x15, 0, 24, 0x00000006 },  { 0x28, 0, 0, 0x00000014 },  { 0x45, 22, 0, 0x00001fff },  { 0xb1, 0, 0, 0x0000000e },  { 0x48, 0, 0, 0x0000000e },  { 0x15, 2, 0, 0x00000015 },  { 0x48, 0, 0, 0x00000010 },  { 0x15, 0, 17, 0x00000015 },  { 0x28, 0, 0, 0x00000010 },  { 0x2, 0, 0, 0x00000001 },  { 0x30, 0, 0, 0x0000000e },  { 0x54, 0, 0, 0x0000000f },  { 0x64, 0, 0, 0x00000002 },  { 0x7, 0, 0, 0x00000005 },  { 0x60, 0, 0, 0x00000001 },  { 0x1c, 0, 0, 0x00000000 },  { 0x2, 0, 0, 0x00000005 },  { 0xb1, 0, 0, 0x0000000e },  { 0x50, 0, 0, 0x0000001a },  { 0x54, 0, 0, 0x000000f0 },  { 0x74, 0, 0, 0x00000002 },  { 0x7, 0, 0, 0x00000009 },  { 0x60, 0, 0, 0x00000005 },  { 0x1d, 1, 0, 0x00000000 },  { 0x6, 0, 0, 0x00040000 },  { 0x6, 0, 0, 0x00000000 }, | 30  40 0 0 12  21 27 0 34525  21 0 26 2048  48 0 0 23  21 0 24 6  40 0 0 20  69 22 0 8191  177 0 0 14  72 0 0 14  21 2 0 21  72 0 0 16  21 0 17 21  40 0 0 16  2 0 0 1  48 0 0 14  84 0 0 15  100 0 0 2  7 0 0 5  96 0 0 1  28 0 0 0  2 0 0 5  177 0 0 14  80 0 0 26  84 0 0 240  116 0 0 2  7 0 0 9  96 0 0 5  29 1 0 0  6 0 0 262144  6 0 0 0 | 507 |
| (dst 10.51.203.152 and ether dst 00:50:56:b7:ac:5c) and (src 10.51.201.137 and ether src 00:50:56:b7:b1:3a) and (tcp[tcpflags] == (tcp-ack | tcp-syn)) | (000) ldh [12]  (001) jeq #0x800 jt 2 jf 4  (002) ld [30]  (003) jeq #0xa33cb98 jt 8 jf 34  (004) jeq #0x806 jt 6 jf 5  (005) jeq #0x8035 jt 6 jf 34  (006) ld [38]  (007) jeq #0xa33cb98 jt 8 jf 34  (008) ld [2]  (009) jeq #0x56b7ac5c jt 10 jf 34  (010) ldh [0]  (011) jeq #0x50 jt 12 jf 34  (012) ldh [12]  (013) jeq #0x800 jt 14 jf 16  (014) ld [26]  (015) jeq #0xa33c989 jt 20 jf 34  (016) jeq #0x806 jt 18 jf 17  (017) jeq #0x8035 jt 18 jf 34  (018) ld [28]  (019) jeq #0xa33c989 jt 20 jf 34  (020) ld [8]  (021) jeq #0x56b7b13a jt 22 jf 34  (022) ldh [6]  (023) jeq #0x50 jt 24 jf 34  (024) ldh [12]  (025) jeq #0x800 jt 26 jf 34  (026) ldb [23]  (027) jeq #0x6 jt 28 jf 34  (028) ldh [20]  (029) jset #0x1fff jt 34 jf 30  (030) ldxb 4\*([14]&0xf)  (031) ldb [x + 27]  (032) jeq #0x12 jt 33 jf 34  (033) ret #262144  (034) ret #0 | { 0x28, 0, 0, 0x0000000c },  { 0x15, 0, 2, 0x00000800 },  { 0x20, 0, 0, 0x0000001e },  { 0x15, 4, 30, 0x0a33cb98 },  { 0x15, 1, 0, 0x00000806 },  { 0x15, 0, 28, 0x00008035 },  { 0x20, 0, 0, 0x00000026 },  { 0x15, 0, 26, 0x0a33cb98 },  { 0x20, 0, 0, 0x00000002 },  { 0x15, 0, 24, 0x56b7ac5c },  { 0x28, 0, 0, 0x00000000 },  { 0x15, 0, 22, 0x00000050 },  { 0x28, 0, 0, 0x0000000c },  { 0x15, 0, 2, 0x00000800 },  { 0x20, 0, 0, 0x0000001a },  { 0x15, 4, 18, 0x0a33c989 },  { 0x15, 1, 0, 0x00000806 },  { 0x15, 0, 16, 0x00008035 },  { 0x20, 0, 0, 0x0000001c },  { 0x15, 0, 14, 0x0a33c989 },  { 0x20, 0, 0, 0x00000008 },  { 0x15, 0, 12, 0x56b7b13a },  { 0x28, 0, 0, 0x00000006 },  { 0x15, 0, 10, 0x00000050 },  { 0x28, 0, 0, 0x0000000c },  { 0x15, 0, 8, 0x00000800 },  { 0x30, 0, 0, 0x00000017 },  { 0x15, 0, 6, 0x00000006 },  { 0x28, 0, 0, 0x00000014 },  { 0x45, 4, 0, 0x00001fff },  { 0xb1, 0, 0, 0x0000000e },  { 0x50, 0, 0, 0x0000001b },  { 0x15, 0, 1, 0x00000012 },  { 0x6, 0, 0, 0x00040000 },  { 0x6, 0, 0, 0x00000000 }, | 35  40 0 0 12  21 0 2 2048  32 0 0 30  21 4 30 171166616  21 1 0 2054  21 0 28 32821  32 0 0 38  21 0 26 171166616  32 0 0 2  21 0 24 1454877788  40 0 0 0  21 0 22 80  40 0 0 12  21 0 2 2048  32 0 0 26  21 4 18 171166089  21 1 0 2054  21 0 16 32821  32 0 0 28  21 0 14 171166089  32 0 0 8  21 0 12 1454879034  40 0 0 6  21 0 10 80  40 0 0 12  21 0 8 2048  48 0 0 23  21 0 6 6  40 0 0 20  69 4 0 8191  177 0 0 14  80 0 0 27  21 0 1 18  6 0 0 262144  6 0 0 0 | 507 |
| ip and tcp and (ip[2:2] - ((ip[0]&0x0f)<<2) - ((tcp[12:1]&0xf0)>>2) ) > 0 | (000) ldh [12]  (001) jeq #0x800 jt 2 jf 22  (002) ldb [23]  (003) jeq #0x6 jt 4 jf 22  (004) ldh [16]  (005) st M[1]  (006) ldb [14]  (007) and #0xf  (008) lsh #2  (009) tax  (010) ld M[1]  (011) sub x  (012) st M[5]  (013) ldxb 4\*([14]&0xf)  (014) ldb [x + 26]  (015) and #0xf0  (016) rsh #2  (017) tax  (018) ld M[5]  (019) sub x  (020) jgt #0x0 jt 21 jf 22  (021) ret #262144  (022) ret #0 | { 0x28, 0, 0, 0x0000000c },  { 0x15, 0, 20, 0x00000800 },  { 0x30, 0, 0, 0x00000017 },  { 0x15, 0, 18, 0x00000006 },  { 0x28, 0, 0, 0x00000010 },  { 0x2, 0, 0, 0x00000001 },  { 0x30, 0, 0, 0x0000000e },  { 0x54, 0, 0, 0x0000000f },  { 0x64, 0, 0, 0x00000002 },  { 0x7, 0, 0, 0x00000005 },  { 0x60, 0, 0, 0x00000001 },  { 0x1c, 0, 0, 0x00000000 },  { 0x2, 0, 0, 0x00000005 },  { 0xb1, 0, 0, 0x0000000e },  { 0x50, 0, 0, 0x0000001a },  { 0x54, 0, 0, 0x000000f0 },  { 0x74, 0, 0, 0x00000002 },  { 0x7, 0, 0, 0x00000009 },  { 0x60, 0, 0, 0x00000005 },  { 0x1c, 0, 0, 0x00000000 },  { 0x25, 0, 1, 0x00000000 },  { 0x6, 0, 0, 0x00040000 },  { 0x6, 0, 0, 0x00000000 }, | 23  40 0 0 12  21 0 20 2048  48 0 0 23  21 0 18 6  40 0 0 16  2 0 0 1  48 0 0 14  84 0 0 15  100 0 0 2  7 0 0 5  96 0 0 1  28 0 0 0  2 0 0 5  177 0 0 14  80 0 0 26  84 0 0 240  116 0 0 2  7 0 0 9  96 0 0 5  28 0 0 0  37 0 1 0  6 0 0 262144  6 0 0 0 | 507 |

Дамп ICMP\_across\_dot1q.cap (15 пакетов):

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Фильтр tcpdump** | **BPF фильтр ( code in a human readable form)** | **BPF фильтр (C program fragment)** | **BPF фильтр (code as decimal numbers)** | **Контрольное число отфильтрованных пакетов** |
| vlan 123 and ip[0]==0x45 and (src 192.168.123.2 and ether src 00:18:73:de:57:c1) and (dst 192.168.123.1 and ether dst 00:19:06:ea:b8:c1) and icmp[0] == 0x08 | (000) ld #0x0  (001) st M[0]  (002) st M[1]  (003) ldb [-4048]  (004) jeq #0x1 jt 12 jf 5  (005) ld #0x4  (006) st M[0]  (007) st M[1]  (008) ldh [12]  (009) jeq #0x8100 jt 12 jf 10  (010) jeq #0x88a8 jt 12 jf 11  (011) jeq #0x9100 jt 12 jf 56  (012) ldb [-4048]  (013) jeq #0x1 jt 14 jf 16  (014) ldb [-4052]  (015) ja 17  (016) ldh [14]  (017) and #0xfff  (018) jeq #0x7b jt 19 jf 56  (019) ldx M[1]  (020) ldh [x + 12]  (021) jeq #0x800 jt 22 jf 56  (022) ldx M[0]  (023) txa  (024) tax  (025) ldb [x + 14]  (026) jeq #0x45 jt 27 jf 56  (027) ldx M[0]  (028) ld [x + 26]  (029) jeq #0xc0a87b02 jt 30 jf 56  (030) ld [8]  (031) jeq #0x73de57c1 jt 32 jf 56  (032) ldh [6]  (033) jeq #0x18 jt 34 jf 56  (034) ldx M[0]  (035) ld [x + 30]  (036) jeq #0xc0a87b01 jt 37 jf 56  (037) ld [2]  (038) jeq #0x6eab8c1 jt 39 jf 56  (039) ldh [0]  (040) jeq #0x19 jt 41 jf 56  (041) ldx M[0]  (042) ldb [x + 23]  (043) jeq #0x1 jt 44 jf 56  (044) ldx M[0]  (045) ldh [x + 20]  (046) jset #0x1fff jt 56 jf 47  (047) ldx M[0]  (048) ldb [x + 14]  (049) and #0xf  (050) lsh #2  (051) add x  (052) tax  (053) ldb [x + 14]  (054) jeq #0x8 jt 55 jf 56  (055) ret #262144  (056) ret #0 | { 0x0, 0, 0, 0x00000000 },  { 0x2, 0, 0, 0x00000000 },  { 0x2, 0, 0, 0x00000001 },  { 0x30, 0, 0, 0xfffff030 },  { 0x15, 7, 0, 0x00000001 },  { 0x0, 0, 0, 0x00000004 },  { 0x2, 0, 0, 0x00000000 },  { 0x2, 0, 0, 0x00000001 },  { 0x28, 0, 0, 0x0000000c },  { 0x15, 2, 0, 0x00008100 },  { 0x15, 1, 0, 0x000088a8 },  { 0x15, 0, 44, 0x00009100 },  { 0x30, 0, 0, 0xfffff030 },  { 0x15, 0, 2, 0x00000001 },  { 0x30, 0, 0, 0xfffff02c },  { 0x5, 0, 0, 0x00000001 },  { 0x28, 0, 0, 0x0000000e },  { 0x54, 0, 0, 0x00000fff },  { 0x15, 0, 37, 0x0000007b },  { 0x61, 0, 0, 0x00000001 },  { 0x48, 0, 0, 0x0000000c },  { 0x15, 0, 34, 0x00000800 },  { 0x61, 0, 0, 0x00000000 },  { 0x87, 0, 0, 0x00000000 },  { 0x7, 0, 0, 0x00000000 },  { 0x50, 0, 0, 0x0000000e },  { 0x15, 0, 29, 0x00000045 },  { 0x61, 0, 0, 0x00000000 },  { 0x40, 0, 0, 0x0000001a },  { 0x15, 0, 26, 0xc0a87b02 },  { 0x20, 0, 0, 0x00000008 },  { 0x15, 0, 24, 0x73de57c1 },  { 0x28, 0, 0, 0x00000006 },  { 0x15, 0, 22, 0x00000018 },  { 0x61, 0, 0, 0x00000000 },  { 0x40, 0, 0, 0x0000001e },  { 0x15, 0, 19, 0xc0a87b01 },  { 0x20, 0, 0, 0x00000002 },  { 0x15, 0, 17, 0x06eab8c1 },  { 0x28, 0, 0, 0x00000000 },  { 0x15, 0, 15, 0x00000019 },  { 0x61, 0, 0, 0x00000000 },  { 0x50, 0, 0, 0x00000017 },  { 0x15, 0, 12, 0x00000001 },  { 0x61, 0, 0, 0x00000000 },  { 0x48, 0, 0, 0x00000014 },  { 0x45, 9, 0, 0x00001fff },  { 0x61, 0, 0, 0x00000000 },  { 0x50, 0, 0, 0x0000000e },  { 0x54, 0, 0, 0x0000000f },  { 0x64, 0, 0, 0x00000002 },  { 0xc, 0, 0, 0x00000000 },  { 0x7, 0, 0, 0x00000000 },  { 0x50, 0, 0, 0x0000000e },  { 0x15, 0, 1, 0x00000008 },  { 0x6, 0, 0, 0x00040000 },  { 0x6, 0, 0, 0x00000000 }, | 57  0 0 0 0  2 0 0 0  2 0 0 1  48 0 0 4294963248  21 7 0 1  0 0 0 4  2 0 0 0  2 0 0 1  40 0 0 12  21 2 0 33024  21 1 0 34984  21 0 44 37120  48 0 0 4294963248  21 0 2 1  48 0 0 4294963244  5 0 0 1  40 0 0 14  84 0 0 4095  21 0 37 123  97 0 0 1  72 0 0 12  21 0 34 2048  97 0 0 0  135 0 0 0  7 0 0 0  80 0 0 14  21 0 29 69  97 0 0 0  64 0 0 26  21 0 26 3232267010  32 0 0 8  21 0 24 1943951297  40 0 0 6  21 0 22 24  97 0 0 0  64 0 0 30  21 0 19 3232267009  32 0 0 2  21 0 17 116046017  40 0 0 0  21 0 15 25  97 0 0 0  80 0 0 23  21 0 12 1  97 0 0 0  72 0 0 20  69 9 0 8191  97 0 0 0  80 0 0 14  84 0 0 15  100 0 0 2  12 0 0 0  7 0 0 0  80 0 0 14  21 0 1 8  6 0 0 262144  6 0 0 0 | 5 |
|  | (000) ldh [12] (001) jeq #0x8100 jt 4 jf 2 (002) jeq #0x88a8 jt 4 jf 3 (003) jeq #0x9100 jt 4 jf 31 (004) ldh [14] (005) and #0xfff (006) jeq #0x7b            jt 7 jf 31 (007) ldh [16] (008) jeq #0x800           jt 9 jf 31 (009) ldb [18] (010) jeq #0x45            jt 11 jf 31 (011) ld [30] (012) jeq #0xc0a87b02      jt 13 jf 31 (013) ld [8] (014) jeq #0x73de57c1      jt 15 jf 31 (015) ldh [6] (016) jeq #0x18            jt 17 jf 31 (017) ld [34] (018) jeq #0xc0a87b01      jt 19 jf 31 (019) ld [2] (020) jeq #0x6eab8c1       jt 21 jf 31 (021) ldh [0] (022) jeq #0x19            jt 23 jf 31 (023) ldb [27] (024) jeq #0x1             jt 25 jf 31 (025) ldh [24] (026) jset #0x1fff          jt 31 jf 27 (027) ldxb 4\*([18]&0xf) (028) ldb [x + 18] (029) jeq #0x8             jt 30 jf 31 (030) ret #262144 (031) ret #0 | { 0x28, 0, 0, 0x0000000c }, { 0x15, 2, 0, 0x00008100 }, { 0x15, 1, 0, 0x000088a8 }, { 0x15, 0, 27, 0x00009100 }, { 0x28, 0, 0, 0x0000000e }, { 0x54, 0, 0, 0x00000fff }, { 0x15, 0, 24, 0x0000007b }, { 0x28, 0, 0, 0x00000010 }, { 0x15, 0, 22, 0x00000800 }, { 0x30, 0, 0, 0x00000012 }, { 0x15, 0, 20, 0x00000045 }, { 0x20, 0, 0, 0x0000001e }, { 0x15, 0, 18, 0xc0a87b02 }, { 0x20, 0, 0, 0x00000008 }, { 0x15, 0, 16, 0x73de57c1 }, { 0x28, 0, 0, 0x00000006 }, { 0x15, 0, 14, 0x00000018 }, { 0x20, 0, 0, 0x00000022 }, { 0x15, 0, 12, 0xc0a87b01 }, { 0x20, 0, 0, 0x00000002 }, { 0x15, 0, 10, 0x06eab8c1 }, { 0x28, 0, 0, 0x00000000 }, { 0x15, 0, 8, 0x00000019 }, { 0x30, 0, 0, 0x0000001b }, { 0x15, 0, 6, 0x00000001 }, { 0x28, 0, 0, 0x00000018 }, { 0x45, 4, 0, 0x00001fff }, { 0xb1, 0, 0, 0x00000012 }, { 0x50, 0, 0, 0x00000012 }, { 0x15, 0, 1, 0x00000008 }, { 0x6, 0, 0, 0x00040000 }, { 0x6, 0, 0, 0x00000000 }, |  |  |
| vlan 123 | (000) ldh [12]  (001) jeq #0x8100 jt 4 jf 2  (002) jeq #0x88a8 jt 4 jf 3  (003) jeq #0x9100 jt 4 jf 8  (004) ldh [14]  (005) and #0xfff  (006) jeq #0x7b jt 7 jf 8  (007) ret #65535  (008) ret #0 | { 0x28, 0, 0, 0x0000000c },  { 0x15, 2, 0, 0x00008100 },  { 0x15, 1, 0, 0x000088a8 },  { 0x15, 0, 4, 0x00009100 },  { 0x28, 0, 0, 0x0000000e },  { 0x54, 0, 0, 0x00000fff },  { 0x15, 0, 1, 0x0000007b },  { 0x6, 0, 0, 0x0000ffff },  { 0x6, 0, 0, 0x00000000 }, | 9  40 0 0 12  21 2 0 33024  21 1 0 34984  21 0 4 37120  40 0 0 14  84 0 0 4095  21 0 1 123  6 0 0 65535  6 0 0 0 | 15 |
| vlan 123 and icmp[0] == 0x00 | (000) ldh [12]  (001) jeq #0x8100 jt 4 jf 2  (002) jeq #0x88a8 jt 4 jf 3  (003) jeq #0x9100 jt 4 jf 17  (004) ldh [14]  (005) and #0xfff  (006) jeq #0x7b jt 7 jf 17  (007) ldh [16]  (008) jeq #0x800 jt 9 jf 17  (009) ldb [27]  (010) jeq #0x1 jt 11 jf 17  (011) ldh [24]  (012) jset #0x1fff jt 17 jf 13  (013) ldxb 4\*([18]&0xf)  (014) ldb [x + 18]  (015) jeq #0x0 jt 16 jf 17  (016) ret #65535  (017) ret #0 | { 0x28, 0, 0, 0x0000000c },  { 0x15, 2, 0, 0x00008100 },  { 0x15, 1, 0, 0x000088a8 },  { 0x15, 0, 13, 0x00009100 },  { 0x28, 0, 0, 0x0000000e },  { 0x54, 0, 0, 0x00000fff },  { 0x15, 0, 10, 0x0000007b },  { 0x28, 0, 0, 0x00000010 },  { 0x15, 0, 8, 0x00000800 },  { 0x30, 0, 0, 0x0000001b },  { 0x15, 0, 6, 0x00000001 },  { 0x28, 0, 0, 0x00000018 },  { 0x45, 4, 0, 0x00001fff },  { 0xb1, 0, 0, 0x00000012 },  { 0x50, 0, 0, 0x00000012 },  { 0x15, 0, 1, 0x00000000 },  { 0x6, 0, 0, 0x0000ffff },  { 0x6, 0, 0, 0x00000000 }, | 18  40 0 0 12  21 2 0 33024  21 1 0 34984  21 0 13 37120  40 0 0 14  84 0 0 4095  21 0 10 123  40 0 0 16  21 0 8 2048  48 0 0 27  21 0 6 1  40 0 0 24  69 4 0 8191  177 0 0 18  80 0 0 18  21 0 1 0  6 0 0 65535  6 0 0 0 | 4 |