

1.1)

```
▼ User Datagram Protocol, Src Port: 58344, Dst Port: 53
  Source Port: 58344
  Destination Port: 53
  Length: 56
  Checksum: 0x1581 [unverified]
  [Checksum Status: Unverified]
  [Stream index: 0]
  ▼ [Timestamps]
    [Time since first frame: 0.000000000 seconds]
    [Time since previous frame: 0.000000000 seconds]
```

7, хотя именно по байтам переданно 4 поля.

1.2)

```
▼ User Datagram Protocol, Src Port: 58344, Dst Port: 53
  Source Port: 58344
  Destination Port: 53
  Length: 56
  Checksum: 0x1581 [unverified]
  [Checksum Status: Unverified]
  [Stream index: 0]
  ▼ [Timestamps]
    [Time since first frame: 0.000000000 seconds]
    [Time since previous frame: 0.000000000 seconds]

0000 88 c3 97 d6 96 5a b0 52 16 15 31 4d 08 00 45 00  ....Z.R..1M..E.
0010 00 4c 41 04 40 00 40 11 3a 11 c0 a8 1f 3a c0 a8  .LA@@@.:...:.
0020 1f 01 e3 e8 00 35 00 38 15 81 08 67 01 00 00 01  ..5.8...g...
0030 00 00 00 00 00 01 08 63 6c 69 65 6e 74 73 34 06  ....c lients4.
0040 67 6f 6f 67 6c 65 03 63 6f 6d 00 00 01 00 01 00  google.c om....

▼ User Datagram Protocol, Src Port: 58344, Dst Port: 53
  Source Port: 58344
  Destination Port: 53
  Length: 56
  Checksum: 0x1581 [unverified]
  [Checksum Status: Unverified]
  [Stream index: 0]
  ▼ [Timestamps]
    [Time since first frame: 0.000000000 seconds]
    [Time since previous frame: 0.000000000 seconds]

0000 88 c3 97 d6 96 5a b0 52 16 15 31 4d 08 00 45 00  ....Z.R..1M..E.
0010 00 4c 41 04 40 00 40 11 3a 11 c0 a8 1f 3a c0 a8  .LA@@@.:...:.
0020 1f 01 e3 e8 00 35 00 38 15 81 08 67 01 00 00 01  ..5.8...g...
0030 00 00 00 00 00 01 08 63 6c 69 65 6e 74 73 34 06  ....c lients4.
0040 67 6f 6f 67 6c 65 03 63 6f 6d 00 00 01 00 01 00  google.c om....

Source Port: 58344
Destination Port: 53
Length: 56
Checksum: 0x1581 [unverified]
[Checksum Status: Unverified]
[Stream index: 0]
▼ [Timestamps]
  [Time since first frame: 0.000000000 seconds]
  [Time since previous frame: 0.000000000 seconds]

0000 88 c3 97 d6 96 5a b0 52 16 15 31 4d 08 00 45 00  ....Z.R..1M..E.
0010 00 4c 41 04 40 00 40 11 3a 11 c0 a8 1f 3a c0 a8  .LA@@@.:...:.
0020 1f 01 e3 e8 00 35 00 38 15 81 08 67 01 00 00 01  ..5.8...g...
0030 00 00 00 00 00 01 08 63 6c 69 65 6e 74 73 34 06  ....c lients4.
```

| | | | | | | | | | | | | | | | |
|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|
| User Datagram Protocol, Src Port: 58344, Dst Port: 53 | | | | | | | | | | | | | | | |
| Source Port: 58344 | | | | | | | | | | | | | | | |
| Destination Port: 53 | | | | | | | | | | | | | | | |
| Length: 56 | | | | | | | | | | | | | | | |
| Checksum: 0x1581 [unverified] | | | | | | | | | | | | | | | |
| [Checksum Status: Unverified] | | | | | | | | | | | | | | | |
| [Stream index: 0] | | | | | | | | | | | | | | | |
| [Timestamps] | | | | | | | | | | | | | | | |
| [Time since first frame: 0.000000000 seconds] | | | | | | | | | | | | | | | |
| [Time since previous frame: 0.000000000 seconds] | | | | | | | | | | | | | | | |
| 0000 | 88 | c3 | 97 | d6 | 96 | 5a | b0 | 52 | 16 | 15 | 31 | 4d | 08 | 00 | 45 00 |
| 0010 | 00 | 4c | 41 | 04 | 40 | 00 | 40 | 11 | 3a | 11 | c0 | a8 | 1f | 3a | c0 a8 |
| 0020 | 1f | 01 | e3 | e8 | 00 | 35 | 00 | 38 | 15 | 81 | 08 | 67 | 01 | 00 | 00 01 |
| 0030 | 00 | 00 | 00 | 00 | 00 | 04 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 00 |

Все поля по 2 байта.

1.3)

Поле - длина заголовка и данных в байтах.

1.4)

Ну 8 байт заголовок и $2 \times 16 - 8 - 1$ на данные. (Если учитывать 20 байт на IPv4, то $2 \times 16 - 8 - 1 - 20$)

1.5) ну $2 \times 16 - 1$

1.6)

```
Fragment offset: 0
Time to live: 64
Protocol: UDP (17)
Header checksum: 0x3a11 [v
Header checksum status: U
```

17

1.7)

| | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| User Datagram Protocol, Src Port: 58344, Dst Port: 53 | | | | | | | | | | | | | | | |
| Source Port: 58344 | | | | | | | | | | | | | | | |
| Destination Port: 53 | | | | | | | | | | | | | | | |
| Length: 56 | | | | | | | | | | | | | | | |
| User Datagram Protocol, Src Port: 53, Dst Port: 58344 | | | | | | | | | | | | | | | |
| Source Port: 53 | | | | | | | | | | | | | | | |
| Destination Port: 58344 | | | | | | | | | | | | | | | |
| Length: 176 | | | | | | | | | | | | | | | |

Поведение ожидаемое, они меняются местами.