P4 to Wireshark dissector

example.p4 — ~/bfn

example.p4

```
20          hdrChecksum : 16;
21          srcAddr : 32;
22          dstAddr: 32;
23      }
24  }
25
26  header_type my_fancy_new_protocol_t {
27      fields {
28          a : 8;
29          b : 8;
30          c : 16;
31      }
32  }
33
34  parser start {
35      return parse_ethe
36  }
37
38  #define ETHERTYPE_IPV4 0x0800
39
40  header ethernet_t ethernet;
41
```

example.p4 0 0 0 33:1 (7, 105) LF UTF-8 P4 1 update

out.pcap

Apply a display filter ... <⌘/> Expression... +

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	127.0.0.1	127.0.0.1	P4_...	38	

```
▸ Frame 1: 38 bytes on wire (304 bits), 38 bytes captured (304 bits)
▸ Ethernet II, Src: 00:00:00_00:00:00 (00:00:00:00:00:00), Dst: Broadc
▸ Internet Protocol Version 4, Src: 127.0.0.1, Dst: 127.0.0.1
▾ P4_MY_FANCY_NEW_PROTOCOL Protocol Data
    a (8 bits) - Hex: 12
    b (8 bits) - Hex: 34
    c (16 bits) - Hex: 5678
```

```
0000  ff ff ff ff ff ff 00 00  00 00 00 00 08 00 45 00   ........ ......E.
0010  00 18 00 01 00 00 40 fe  7b e5 7f 00 00 01 7f 00   ......@. {.......
0020  00 01 12 34 56 78                                  ...4Vx
```

Wireshark Lua text (_ws.lua.text), 1 byte | Packets: 1 · Displayed: 1 (100.0%) · Load time: 0:0.2 | Profile: Default

BAREFOOT NETWORKS

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