### Open vSwitch: Game Show Edition

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<th>TCP/IP</th>
<th>TOS</th>
<th>Faces of SDN</th>
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What's At Stake?
Round 1 Rules

- Teams alternate choosing a question.
- First team to buzz in after question is read answers:
  - Correct: Wins points.
  - Incorrect: Loses points.
  - Other team may guess, no penalty for being wrong.
- Special Shell Game questions:
  - Team that chose question has 60 seconds to complete a specified task from a shell prompt.
Round 2 Rules

Each team gathers around its easel and has 60 seconds to:

Write the names of as many fixed-width fields in an IPv4 header as possible, along with their widths in bits.

Example: “version, 4 bits”

Win $5/bit for correct answers (up to 20 x 8 x $5 = $800).

Lose $5/bit penalty for incorrect answers.
Open vSwitch $100

True or false:
Corporate contributors to Open vSwitch must sign a Contributor License Agreement (CLA).
What are the two protocols primarily used to control Open vSwitch?
In what year was Open vSwitch 1.0 released?
Open vSwitch $400

Name three L2-in-L3 tunnel encapsulations supported by Open vSwitch.
Open vSwitch $500

Which one of the following file formats does not appear somewhere in the Open vSwitch source tree?

XML, HTML, nroff, Markdown
This road is famous for venture capital offices.
Silicon Valley $200

Many startups started in this building.
Silicon Valley $300

Shell Game!

In an Open vSwitch “sandbox” environment, create a bridge br0 and add a flow to it.

(60 second limit)
This Palo Alto building is in the National Register of Historic Places.
Silicon Valley $500

Palo Alto site of innovation.
TCP/IP $100

What is the minimum length of an IPv4 header?
The maximum length?
IPv4 contains a field named “TTL”.
What is the name of this field in IPv6?
In the pre-CIDR Internet, in what “class” was the IP address 172.18.254.16?
In IPv4, what is a “martian”?
RFC 1190 defines a protocol called ST, the Internet Stream Protocol. What is another name for this protocol?
TOS $100

IPv4 header field.
An agreement with an ISP.
Edition of Star Trek.
Shell Game!

Using command-line tools from a shell prompt, compute $0x1234 \text{xor} 0xabcd$, expressing the answer in hexadecimal.

(60 second limit)
A mainframe predecessor of DOS/360.
Faces of SDN $100
Faces of SDN $200
Faces of SDN $300
Faces of SDN $400
Faces of SDN $500
Pair up each protocol with its TCP port number:

FTP, SMTP, Telnet, SSH

21, 22, 23, 25
Potpourri $200

What earlier “SDx” inspired the term “SDN”?
What kind of arithmetic is used to compute the IP, TCP, and UDP checksums?
What country won the 2014 World Cup soccer championship?
State the first and last name of any current NFL player.