



syngenio

We make IT work.

Introducing Bytes

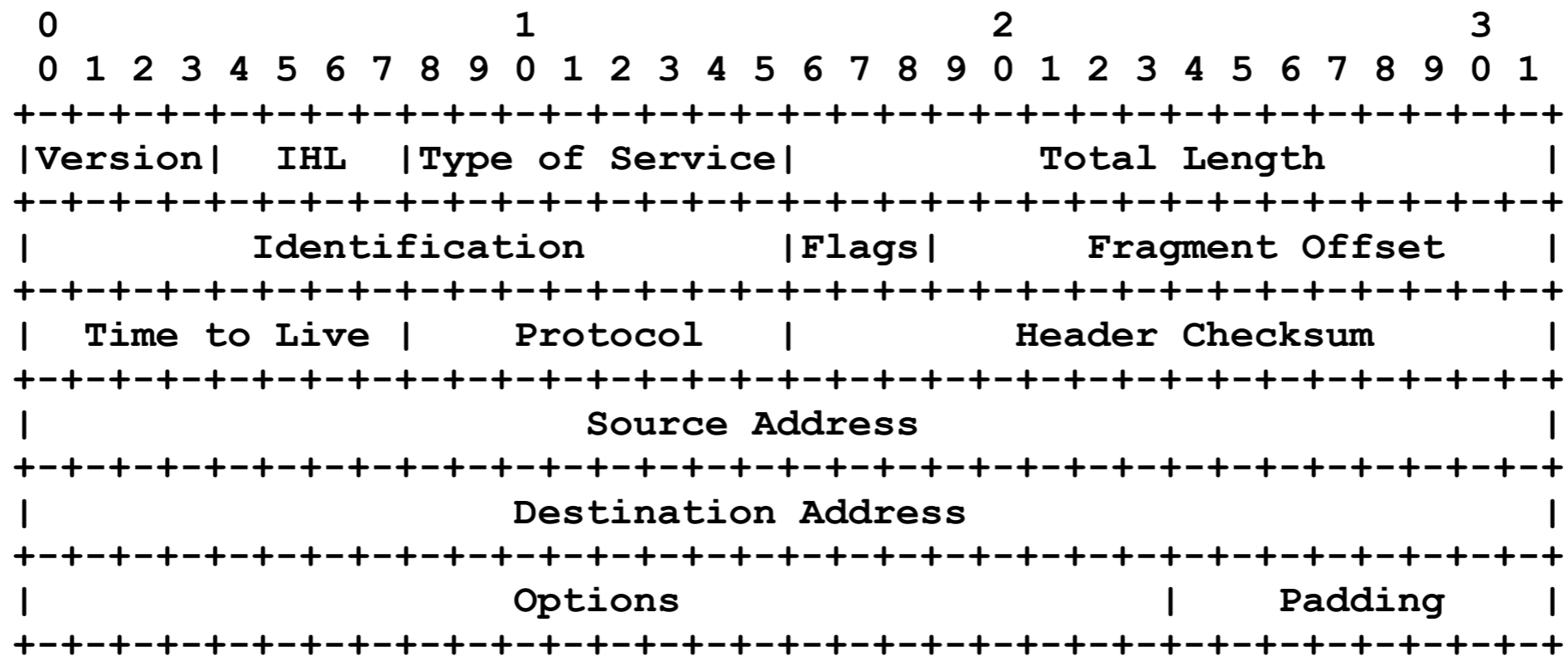
Tim Becker

tim.becker@syngenio.de

tim.becker@gmx.net

Dealing with bytes in Ruby
is a pain.

Everybody else is doing
DSL, why shouldn't I?



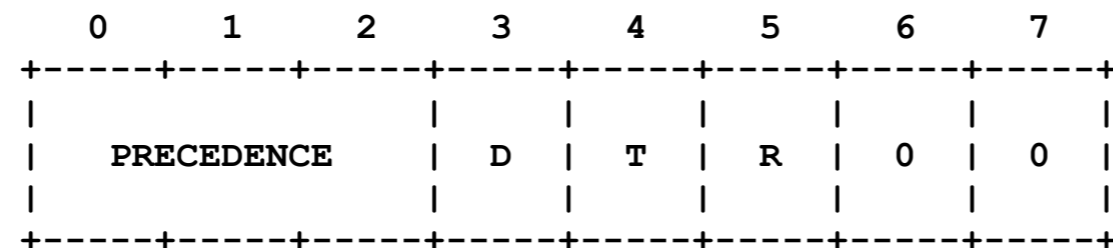
Bits 0-2: Precedence.

Bit 3: 0 = Normal Delay, 1 = Low Delay.

Bits 4: 0 = Normal Throughput, 1 = High Throughput.

Bits 5: 0 = Normal Reliability, 1 = High Reliability.

Bit 6-7: Reserved for Future Use.



Precedence

- 111 - Network Control
- 110 - Internetwork Control
- 101 - CRITIC/ECP
- 100 - Flash Override
- 011 - Flash
- 010 - Immediate
- 001 - Priority
- 000 - Routine

```

require "bytes"
class IPPacket
  include Bytes
  byte_accessor :ver_ihl , "vvvv ...." => :version
                        "... vvvv" => :ihl

  byte_accessor :tos,
    "111. .... | Precedence" => :network_control,
    "110. ...." => :inet_control,
    "101. ...." => :critic_epc,
    "100. ...." => :flash_override,
    "011. ...." => :flash,
    "010. ...." => :immediate,
    "001. ...." => :priority,
    "000. ...." => :routine,
    "...0 .... | Delay" => :normal_delay,
    "...1 ...." => :low_delay,
    "... 0... | Thoroughput" => :normal_throughput,
    "... 1..." => :high_throughput,
    "... .0.. | Reliability" => :low_reliability,
    "... .1.." => :high_reliability,
    "... ..1. | RFU" => :rfu_err_1
    "... ...1 | RFU" => :rfu_err_2
end

```

TODO
Speed
Consistency
Multibytes
Release

Try it?

[http://code.google.com/p/a2800276/
source/browse/trunk/ruby/bytes/](http://code.google.com/p/a2800276/source/browse/trunk/ruby/bytes/)

<http://blog.kuriositaet.de>