



TCP Flags

C E U A P R S F

Congestion Window

C 0x80 Reduced (CWR)

E 0x40 ECN Echo (ECE)

U 0x20 Urgent

A 0x10 Ack

P 0x08 Push

R 0x04 Reset

S 0x02 Syn

F 0x01 Fin

Congestion Notification

ECN (Explicit Congestion Notification). See RFC 3168 for full details, valid states below.

Packet State	DSB	ECN bits
Syn	0 0	1 1
Syn-Ack	0 0	0 1
Ack	0 1	0 0
No Congestion	0 1	0 0
No Congestion	1 0	0 0
Congestion	1 1	0 0
Receiver Response	1 1	0 1
Sender Response	1 1	1 1

TCP Options

- 0 End of Options List
- 1 No Operation (NOP, Pad)
- 2 Maximum Segment size
- 3 Window Scale
- 4 Selective ACK ok
- 8 Timestamp

Checksum

Checksum of entire TCP segment and pseudo header (parts of IP header)

Offset

Number of 32-bit words in TCP header, minimum value of 5. Multiply by 4 to get byte count.

RFC 793

Please refer to RFC 793 for the complete Transmission Control Protocol (TCP) Specification.