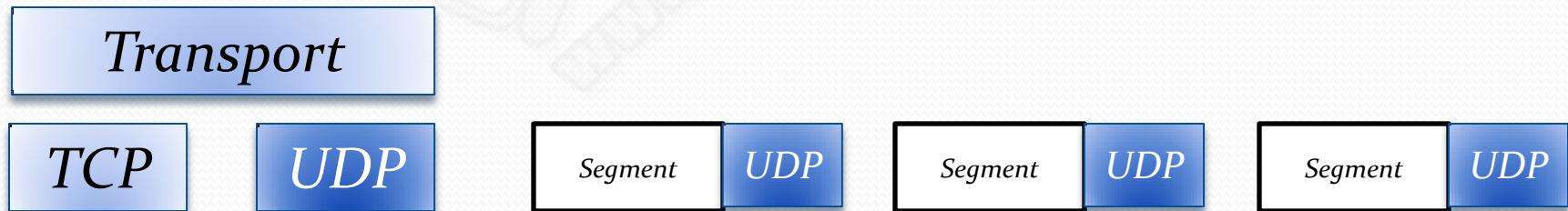


TCP & UDP

UDP

- User Datagram Protocol.
- Under layer 4.
- Byte stream is broken up into segments.
- Connectionless.
- unreliable.
- Fast.
- DNS example.

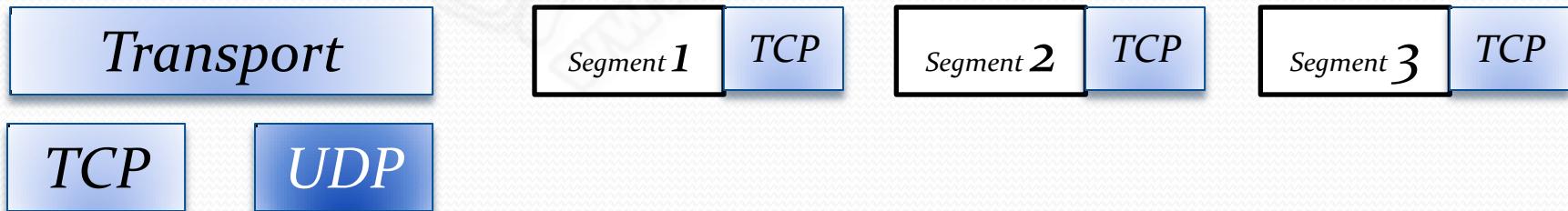


UDP Format

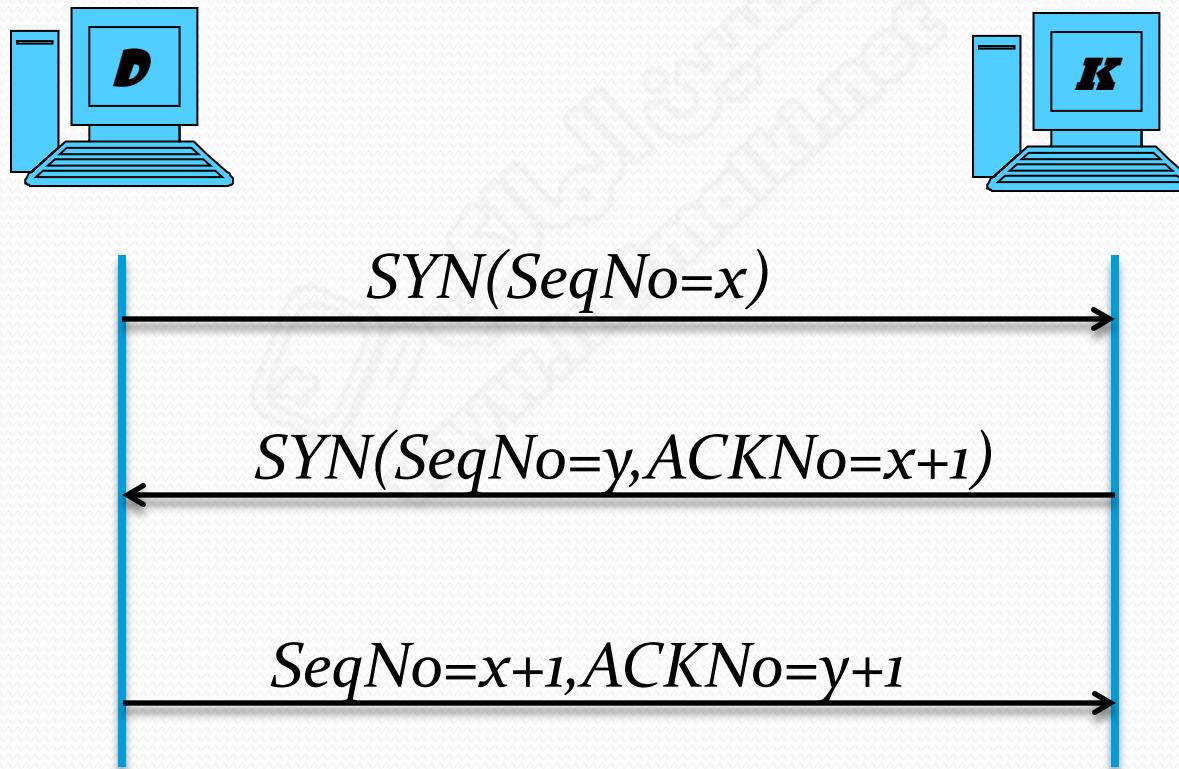
Source port (16 bits)	Destination port (16 bits)
Length	Checksum
Data	

TCP

- Transmission control Protocol.
- Under layer 4.
- Byte stream is broken up into segments.
- Connection - oriented.
- Reliable.
- Detect error.



Three-Way Handshake



TCP Format

Source port (16 bits)	Destination port (16 bits)		
Sequence number (32 bits)			
Acknowledgment number(32 bits)			
offset(4 bits)	Reserved(4 bits)	Control bits(8 bits)	Windows size (16 bits)
Checksum(16 bits)		Urgent pointer(16 bits)	
options			
Data			