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## # Assignment 6

- Oil What is the size of UDP header? What are the different fields? Describe its fields.
  - The size of header is 8 bytes (64 bits).

Source Port Destination Port

Checksum

Length

Application data (message)

Fig: UDP Header format

- There are 4 main fields and they are:

O Source Port:

This field is an optional field. When meaningful, it indicates the part of the sending process and assumed to be the port to which a veply should be addressed. If the field is not used, a value of zero is incerted. It is a 2 byte long field.

1 Destination Port:

This field identifies the destination port and is required 17.18 a 2-byte long field.

1 Length:

This is the size in bytes of the UDP packet including the header and data. The minimum length is 8 bytes, the length of the header zone.

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0	checkson:	erit jerr				
	The 2-byte long checksum field is used for error checking					
_	of the header and data.	-				
-		-				
(2Q	What is the size of TCP header, : What are the different					
_	Relds? Describe its fields?	-				
_		_				
_	The header of a TCP segment can range from 20-60 bytes.	_				
_	40 bytes are for options. If there are no options, header is					
_	of 20 bytes else it can be of utamost 60 bytes.					
-	32 bits	_				
	Source Part Dostination Port	_				
	Sequence number	_				
	Actnowledgement number	_				
_	TCP U A P R S F	_				
	header R C S' S Y 1 Hindausize	_				
	length G K H T N N	_				
	1 1					
4	Check sum					
Options						
	Data	-				
		-				
	fig: XP header format	-				
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	The Attended of TCP booking and	et senative				
	The different fields of 7CP header are					

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1 Source Port:

of the application that is sending the data segment

1 Destination port address:

This is a 16-bit field that holds the port address of the application in the host that is receiving the data segment.

1) sequence number:

This is a 82-bit field that holds the sequence number le. the byte number of the first byte that is sent in that particular segment.

@ Acknowledgement number:

This is a 32-bit field that holds the athrougherment number ie the byte number that the receiver expects to receive next.

O Header Length (HLEN):

This is a 4-bit field that indicates the length of the TCP header by number of 4-byte words in the header, io if the header is of 20 bytes, then this field will hold 5 (because 5×4-20. 9 f if the header is of maximum length: 60 bytes, then it will hold value is (because 15×4=60).

Hence, the value of this field is always between Sf15.

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•	Control flags:
	There are 6 1-bit control bits.
0	URG:
	urgent pointer is valid, the receiving TCP should interpret the urgent pointer ifield.
0	ACE:
	Acknowledgement number is valid
M	PSH:
	Request for push.
(10)	ReT:
	Reset the connection
ଭ	SYN:
60	Synchronize sequence numbers. FIN:
	Terminate the connection (finish)
	Mindou size:
	This field tells the window size of the sending TCP in bytes
• 1	Checksum;
	This field holds the checksum for error control. It is manchiton
	in TCP as opposed to UDP.
	Urgent Pointer:
-	This field (valid only if the URG control flag is set)

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needs to reach the receiving process at the earliest.	
 Ophons:	
This field provides additional functionality, like congestion control.	
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