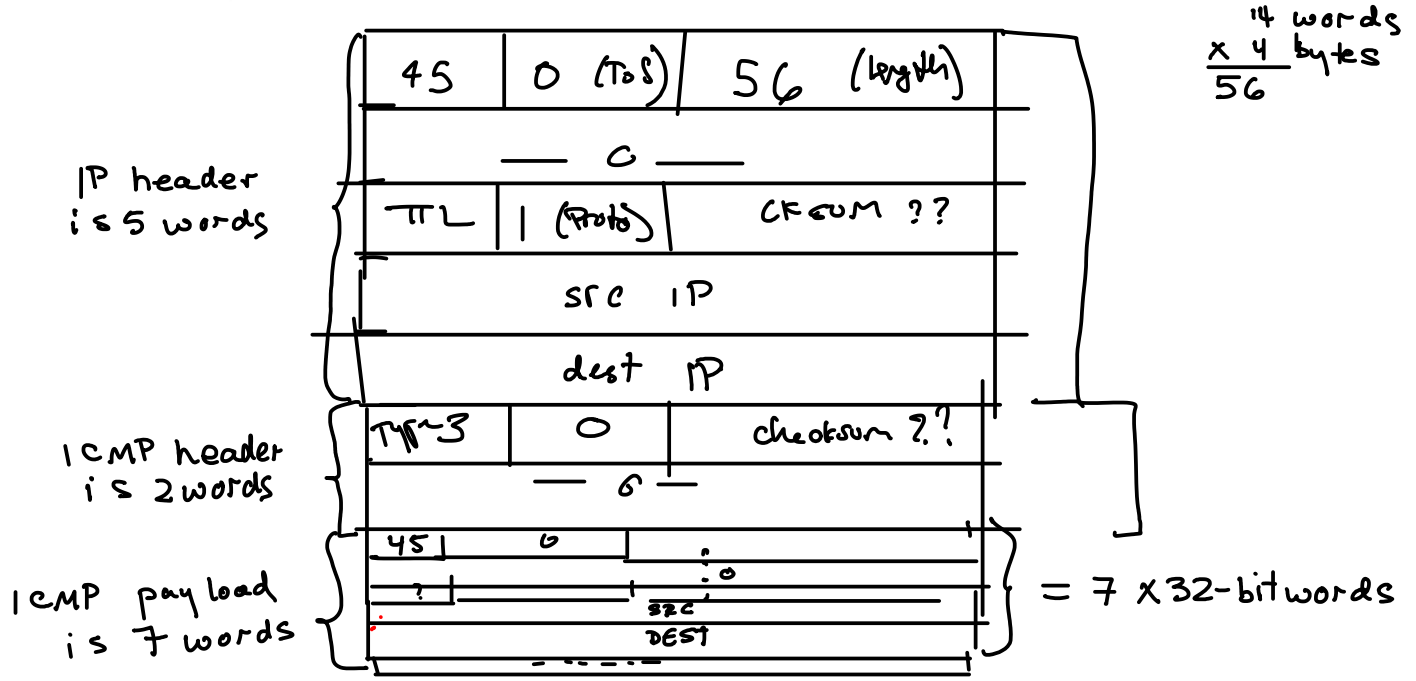


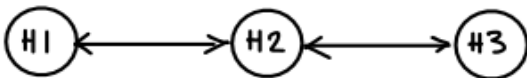
Lecture 20 - ICMP

Exercise 1: Write the contents of an ICMP Destination Unreachable packet with code 0 (Network Unreachable) including the IP header. Specify the values of any fields whose value are not defined by this question.



Exercise 2: The host H1 in the network shown in the diagram below issues the command 'traceroute H3'. Draw a table showing the ICMP messages transmitted and received by H1. Include five columns for source address, destination address, ICMP type, ICMP code and TTL value. Assume a single ping is used to discover each hop.

5 from unroutable IP header + 2 from packet payload



	source	dest	icmp TYPE	ICMP code	TTL
→	H1	H3	echo request = 8	0	1
←	H2	H1	TTL exceed = 11	0	(large)
→	H1	H3	echo request = 8	0	2
←	H3	H1	TTL exceeded = 11 OR echo response = 0	0	(large)