

INTERNET SYSTEM

2















INTERNET ENGINEERING

Transport

Physical

IN2004S, javed@ke Javed I. Khanf

ork Interface

LECT-6, S-8





• N • E • L • T • L	INTERNET ENGINEERING			
Prefix	Suffix	Type Of Address	Purpose	
all-0s network network	all-Os all-Os all-1s	this computer network directed broadcast	used during bootstrap identifies a network broadcast on specified net	











0 VERS TIMET	IP Datagram Header 0 4 8 16 19 24 31 VERS H. LEN SERVICE TYPE TOTAL LENGTH IDENTIFICATION FLAGS FRAGMENT OFFSET TIME TO LIVE TYPE HEADER CHECKSUM SOURCE IP ADDRESS DESTINATION IP ADDRESS						
VARS=IP version, H.LEN=how many 32 bit segments in header SEVICE TYPE= min delay or max capacity path?						responsibility of: duplication, out- of-order, corrupt data or lost datagram problems.	
TOTAL LENGTH= HEADER-DATA octates. TIME TO LIVE=maximum allowable hops (0-255) HEADER CHECKSUM= 1's complement sum OPTIONS=optional, without it LEN=H.LEN=5, PADDING=0's to meet 32 bit boundary							LECT-6, S-19 N20045, javed@kent.edu Javed i. Khan@22004







































What if a fragment		INTERNET ENGINEERING					
YERS H. LEN SERVICE TY	PE TOTAL	LENGTH					
IDENTIFICATION	FLAGS FRAG	MENT OFFSET					
TIME TO LIVE TYPE	TIME TO LIVE TYPE HEADER CHECKSUM						
SOURC	SOURCE IP ADDRESS						
DESTINA ID ODTIONS (MAX B	DESTINATION IP ADDRESS						
IF OF TORS (MAT B	IP OPTIONS (WAY BE ONITTED) PADDING						
BEVIN							
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