

ompaession We need one field of 1 bit to represent whether packet (Eneader) is compressed or not. Hashed Exploiting Redundant fields. Redundant fields stor Same TCPIP flow i) reasion (4 bits) ii) Source Address (32 bits) Destination Address (32 bits) V) Source port (16 bits) vi) Destination post (16 bits) Total Size of All fields = 4+32+32+8+16+16 = 108 Now, IP header size = 20x8 = 160 bits TCP header size = 20x8 = 160 bits Total TCPIP heador size = 160+160 =320 bits

-Now, After Compression Now, To compress TCPIP header we are creating 32 bit hashID out of the Redundant (given) fields HashID size = 32 bit Total Size of Modified TCPIP header 320-108+32 bits (02iginal) (Redun) (hashID) dant) Oziginal Headre Size = 320 bits Modified Header Size = 244 bits  $\frac{1}{20} \cdot \frac{1}{20} \cdot \frac{1}{20}$  $= \frac{320 - 244 \times 100}{320}$  $=\frac{76}{320}$   $\times 100$ = 23.75 %

