Posting List compression

Since a posting list is a crescent list of doclDs, which are integers, we can use several coding techniques to reduce the amount of used space

· GAP ENCODING

Compress the docld by storing only the integer distance with the root of the list

(b) WMA CODING

Criven un integer value (in aux case,

about of the binary represention,

that will require n bits

The coded integer will be

Dinory rapportation

N-1

Zuees

EXAMPLE

Joc10 = 4

games code = 00/100

Delt: (.de (8)

Criven an integer value (in our case,

and old), compute its binary represention,

that will require in bits

_s The coded integer will be

Gomes encoling of ! Linary representation the length of the !

Example docld = 4

> 011/100 (rsmm) code (3) = 0/11

Pfor Del78

J (river strong of integer, son be unordered

—) Pick & bose and n (number of 675)

—) Compute the difference between the bose and

each dent

The result values in the range (3,2ⁿ⁻¹)

with their bining representation, represent everything everything of eccess' with the "Escape" sequence else in "eccess" with the "Escape" sequence

 $S = \{ 2, 5, 10, 1, 3 \}$ base = $\{ 4, 5 \}$

5-6 sie = { 1,4,9,0,2}

Value 70 code in 120ge (0,2-1):

coded_ S = 01/11/11/00:10

E1:31 Funo

ENGODE

- -> write the binny to prevention of the devents using loge U bits (sod podding in care) Jamber at 1835 at U
- -> Ps. 7:7:00 the raproson in 2 bit and لرون مرنا وسازمورد ر نوام
- —) Compute the following bit string; L= cancet of all bit in range w H= 22 broset 53 esch seisiged by & D (2017 of 1/01) and filled with as many I as the number of relevent esling in the buckets in range ?

0)5: If the sequence in into is

not ordered, use "conflections" sop accoding

\$1,1,3,4,2} -> \$1,2,5,9,71}

300000

We want 7- got the K-th integer

-) Partilian L in broket of legth wood take the K-th broket

_ Define Select (pjH) = position of p-th bit 1

Select (KIH) - Me brown

J Concert of L

-> Convert in integer