TUGAS MENGHITUNG CRC

MATA KULIAH : KOMUNIKADI DATA



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Diketahui:

( message ) D = TIGA HURUF NAMA DEPAN = SUM

S= 1010011 + U=1010101 + M= 1001101 = SUM = 101001110101011001101 ( 21 bit )

( pattern ) P = ‘A’ = 1000001 ( 7 bit )

Nb: 0 disebelah kiri tidak tipakai ( dihitung ).

Hitung T ?

Rumus : T = D + R

Dimana F adalah FCS

JAWAB :

n – k + 1

k = 21

n – k + 1 = 7

n – 21 + 1 = 7

n = 7 + 21 – 1

n = 27

n – k = 27 – 21 = 6 bits

Thus n = 27 bit

K = 21 bit

( n – k )= 6 bit

T = D + R

101001110101011001101000000

Diterapkan menjadi : 1 0 1 0 1 0 1 1 0 0 1 1 0 1 0 1 0 0 1 0 0 0 1

1 0 0 0 0 0 1 1 0 1 0 0 1 1 1 0 1 0 1 0 1 1 0 0 1 1 0 1 0 0 0 0 0 0

1 0 0 0 0 0 1

1 0 0 1 0 1 0

1 0 0 0 0 0 1

1 0 1 1 1 0 1

1 0 0 0 0 0 1

1 1 1 0 0 0 1

1 0 0 0 0 0 1

1 1 0 0 0 0 1

1 0 0 0 0 0 1

1 0 0 0 0 0 0

1 0 0 0 0 0 1

1 0 1 0 0 1 0

1 0 0 0 0 0 1

1 0 0 1 1 0 0

1 0 0 0 0 0 1

1 1 0 1 0 0 0

1 0 0 0 0 0 1

1 0 1 0 0 1 R = 6 bit