6.2 Data Integrity

Thursday, 18 February 2021 7:02 PM

Keykams:

- Data Integrity

- Validation

- Verification

- Check Digit

- Modulo-11

- Checksum

_ Perity Check

- parity bit

- Fren lodd Parity,

Validations:

- Type

-Range

- Dimit

-format

-length

- Presenta

- existence

- parity byk

- Acknowledgement

- ARQs

- Timeout.

- Consistency

- Un'squeren

Verification:

Verification

Yisual Check

Double Endry

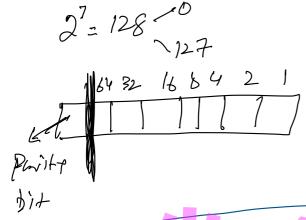
Communications Checksum

ARQs.

0-127

Gender

ARQ



$$A=65=01000001$$
 $B=66=010600000$
 $C=67=1000000$
 $Parity$
 $Byte$

Time set for reply. Timout occurs when Second computer does not acknowledge during set time.

- 9f timeout occurs their first machine vesends the data.

-94 acknowledgement assives: 2) date received and it correct; send rove 2) dater is secessed ad it is corrupted; send again Block

o →1 gain.

1->0 drop.

7 x 256 = 256

Lingle byk paristy tras

weaknesses?

1. IF two bits are swapped-

2. It two bits are gained.

3. IF two bits are dropped.

Checksum;

paristy

IF Sum is within

28 range Mi it is

We checksom.

IF sum is >255 or 28=256

1 Lien:

1. We divide sum by 256,X.

2. Round down he as to he rearest whole mode.

3. Then we multiply by 256

4. Subtract that from X

5. Result is checksom.