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COURSE NAME: SYSTEM DESIGNAND INTRODUCTION TO

CLOUD

COURSE CODE: 23AD2103A

TOPICS: TYPES OF FRAMING, FIXED SIZE FRAMING, VARIABLE SIZE FRAMING,

FLOW CONTROL











SESSION DESCRIPTION

Types of framing, Fixed size framing, variable size framing, flow control









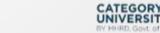


TYPES OF FRAMING

- There are two types of framing:
- **Fixed-size:** The frame is of fixed size and there is no need to provide boundaries to the frame, the length of the frame itself acts as a delimiter.
- **Drawback:** It suffers from internal fragmentation if the data size is less than the frame size
- Solution: Padding











TYPES OF FRAMING

- Variable size: In this, there is a need to define the end of the frame as well as the beginning of the next frame to distinguish. This can be done in two ways:
- **Length field** We can introduce a length field in the frame to indicate the length of the frame. Used in Ethernet(802.3). The problem with this is that sometimes the length field might get corrupted.
- End Delimiter (ED) We can introduce an ED(pattern) to indicate the end of the frame. Used in Token Ring. The problem with this is that ED can occur in the data.









FLOW CONTROL

- Flow control allows the two nodes to communicate with each other and work at different speeds. The data link layer monitors the flow control so that when a fast sender sends data, a slow receiver can receive the data at the same speed. Because of this flow control technique is used.
- Methods for Flow Control
- There are two methods are used for flow control, which are as follows –
- Feedback Based Flow Control
- Rate Based Flow Control









THANK YOU



Team – System Design & Introduction to Cloud







