## Unit-II Message Passing

## Introduction

Two basic methods for for information sharing as as follows

1. Shared Data Approach



Figure: Shared Data Approach

2. Message Passing Approach

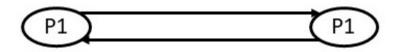


Figure: Message Passing Approach

## Desirable Features of a good Message Passing System

- 1. Simplicity
- 2. Uniform Semantics
  - ► Local Communication
  - ▶ Remote Communication
- 3. Efficiency
- 4. Reliability
- Correctness Issues related to correctness are
  - Atomicity
  - Ordered Delivery
  - Survivability
- Flexibility
- 7. Security
- 8. Portability

## Issues in IPC by Message Passing

A message is a block of information formatted by a sending process in such a manner that it is meaningful to the receiving process. In the designing of an IPC protocol for message-passing system, the following important issues need to be considered.

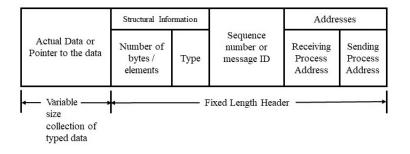


Figure: A Typical Message Structure