



# SNS COLLEGE OF TECHNOLOGY



Coimbatore-35.

**An Autonomous Institution**

Accredited by NBA – AICTE and Accredited by NAAC – UGC with ‘A++’ Grade  
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

## INTRODUCTION TO ARVR I YEAR/ II SEMESTER

### UNIT – I

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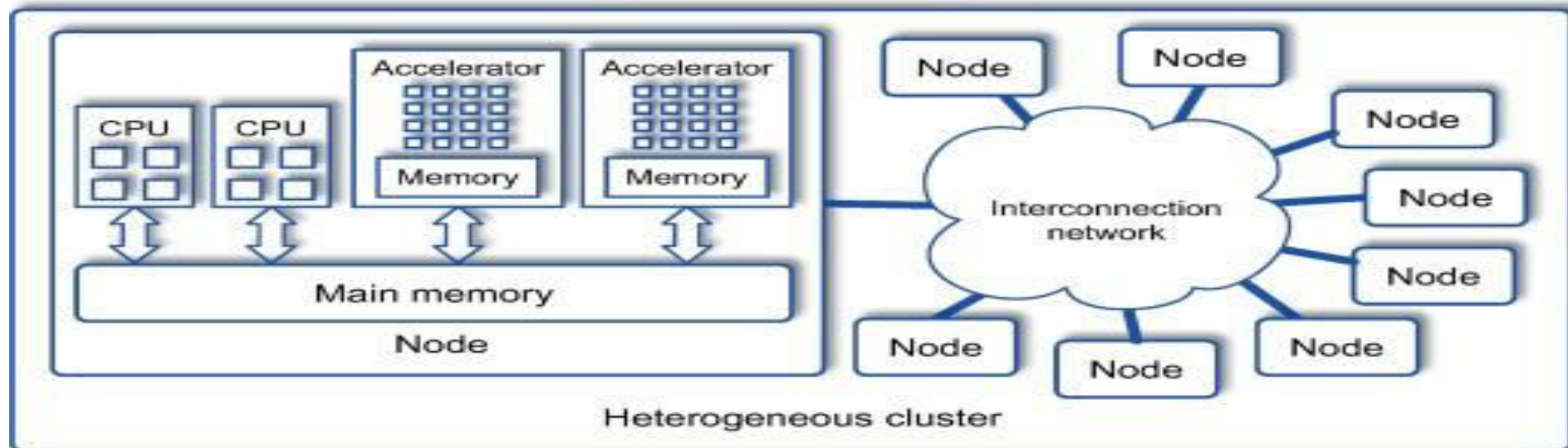
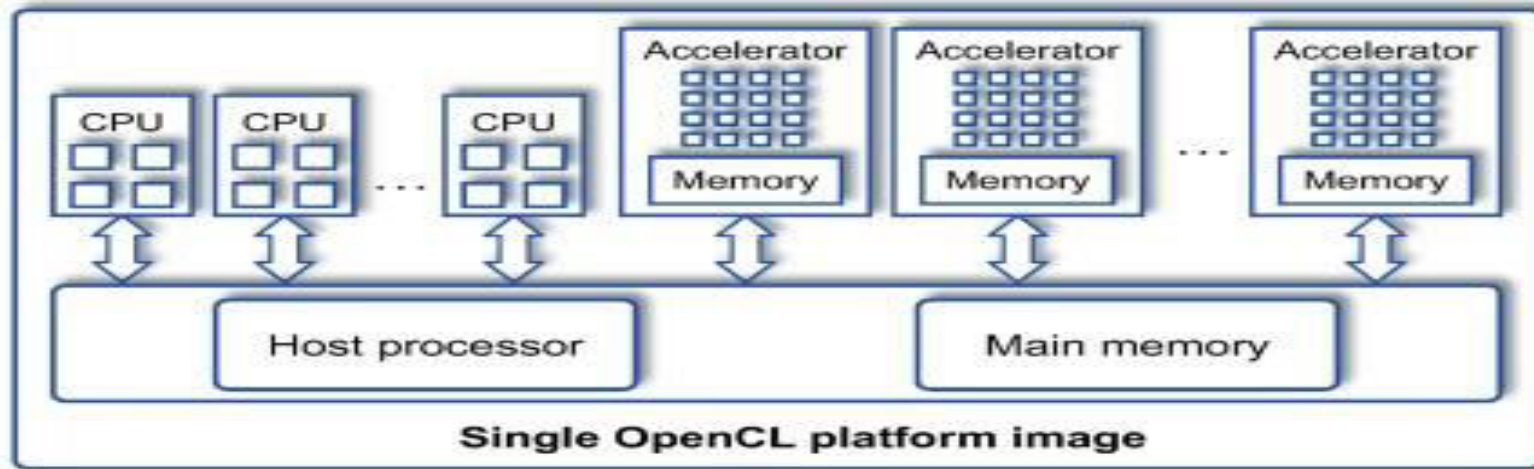
# Heterogeneous User Interface

- Digitization in the industrial sector forms the basis for the integration of augmented reality (AR) .
- It promotes the shift from analog to digital data. For example, data sent to servers by machines or products throughout the production process are **processed digitally**.
- The development effort for companies needs to be lowered so that AR can become more widespread and naturally integrated into industrial workflows.
- The **high heterogeneity of the user interface** (UI) in commercially available head-mounted displays (HMD) makes it difficult for developers to find an ergonomically high-quality solution for the specific tasks in the production environment

# Types of Heterogeneous User Interface

There are five types of Heterogeneous User Interface

- Multicore CPUs
- GPUs
- DSPs
- FPGAs
- ASICs



# Heterogeneous User Interface

- heterogeneous platforms with hardware accelerators have been the focus of recent research.
- One of the main tasks of a design flow involves the decision to map computations into software and/or hardware components.
- This task is traditionally known as hardware/software partitioning especially when the target system considers software components implemented in CPUs and hardware components synthesized from the input computations.