

Execute-perform the operation

Write- store the result

Any condition that comes the pipeline to stop their process is called hazard

Data hazard

It is the condition in which either the source or distributors operands of an instruction are not available at the time of execution.

Control of instruction hazard

It is the condition in which the execution of an instruction may be delayed due to an availability of an instruction.

Structured hazard

It is the situation when two or more instructions require the use of a given resource at the same time.

Advantages of pipeline

Faster execution

Time saving

High through put were through put rate of instruction execution.

Organization of microcomputer based system

A microcomputer system includes three components. Micro programmed output and memory there components are organized around a common communication path called a bus. The entire group of components is also referred as a system.

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