

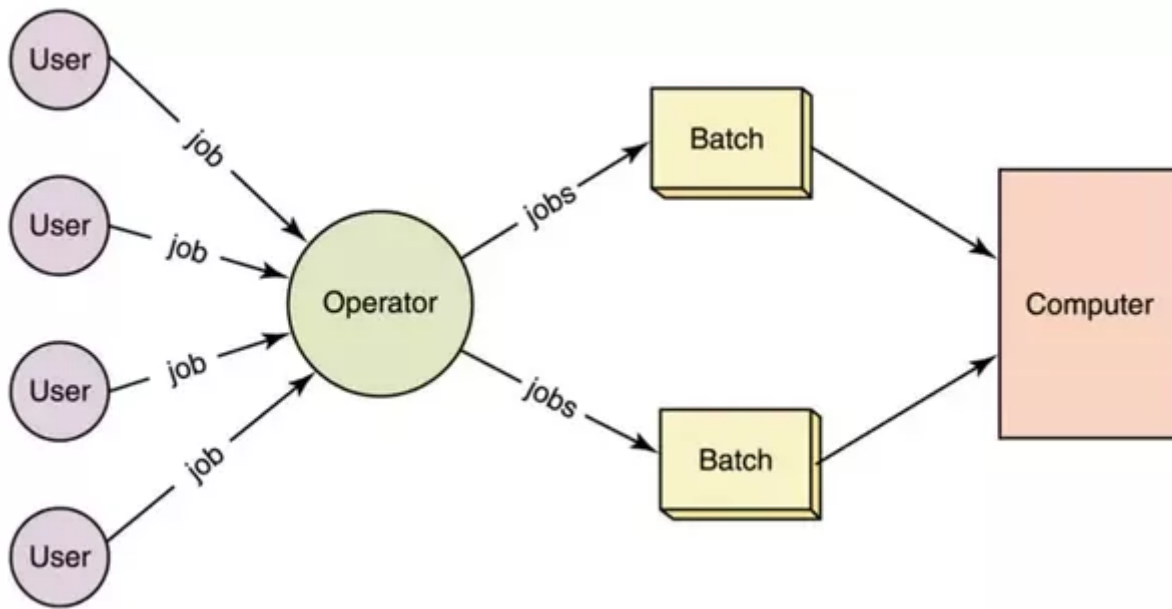


BATCH OPERATING SYSTEMS

“The operating system is termed as “batch operating” because the input data (job) are collected into **batches** or sets of records with similar needs and each batch is processed as a unit(group). The output is another batch that can be reused for computation.”

- In this, jobs which are of similar type are grouped together and treated as a **batch**.
- Now, they are stored on the **Punch card (a stiff paper in which digital data is stored)** and represented using some specific sequence of holes) which will be submitted to the system for processing.
- The system will then perform all the required operations in a **sequence**. So, we consider this as a type of Serial processing.

Eg: Bank Statements



Advantages:

- 1. Suppose a job takes a very long time(1 day or so). Then, such processes can be performed even in the **absence** of humans.
- 2. They doesn't require any **special** hardware and system support to input data.

Disadvantages:

1. It is very difficult to **debug** batch systems.
2. Lack of **interaction** between user and operating system.
3. Suppose an error occurs in one of the jobs of a batch. Then, all the **remaining** jobs get affected i.e; they have to wait until the error is resolved.



OPERATING SYSTEM TYPES OF OPERATING SYSTEM

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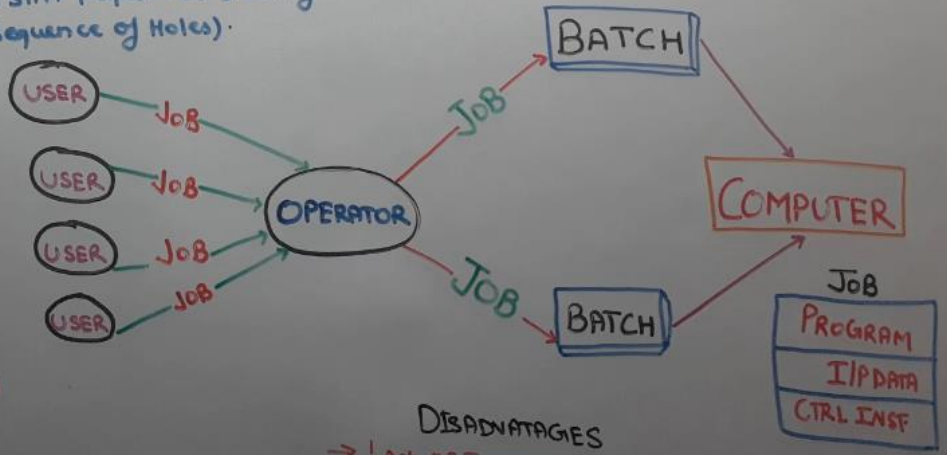
BATCH OPERATING SYSTEM

Mainly Used In MainFrame Computer eg IBM 360.
Jobs which are of Similar type are grouped together and as 'Batch'.
Then they are stored on 'Punch Card' (a stiff paper for storing digital data and represented with some sequence of Holes).
Which then Submitted to System & System Process them in Sequence.

Earlier Used in
→ PAYROLL → ELECTRICITY BILLS
→ WATER BILLS

ADVANTAGES:-

- i) Suppose a job takes a very Long Time (1 day or more) then it can be performed in absence of 'Human'
- ii) Time of Loading & Unloading of System Program is Saved due to Same Job



DISADVANTAGES

- LACK OF INTERACTION B/W USER & OS/Computer
- Due to Stop in One Job, Remaining other jobs also stop
- ALL will get output in the end.