
UNIT 3: BATCH OPERATING SYSTEM

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3.0 Learning Objectives

After learning this unit, you will be able to understand:

- The concept of Batch
- Concept about Batch Processing
- Idea about File Processing

3.1 Introduction

Batch is the term which is given to the work of doing similar jobs continuously again and again but with a difference as in this the input data is shown for every iteration of the job and probably the output file.

Batch operating system is a kind of operating system requirement which mainly involves in mainframe computer that was used with the intention that it may perform great repetitive data processing work. It is analysed that a mainframe set is used to process 30 million pension statements which belongs to individual customers.

It is found that a batch job requires no intervention by a person once the initial commands are set up. Setting up a batch job is similar to filling out a form, with specific details required to be shown.

3.2 Basic terms

Databases

Batch processing is additionally applied for capable bigness database updates as well as automated transaction processing, as compared to collaborative online transaction processing (OLTP) approaches. The extract, transform, load (ETL) extent in populating data warehouses is inherently a batch approach in most implementations.

Images

Batch processing is often used to perform various operations with digital images such as resize, convert, watermark, or otherwise edit image files.

Conversions

Batch processing may additionally be applied for altering computer files from one format to another. For exemplary a batch job may change proprietary as well as legacy files to conventional standard formats for end-user queries along with display.

Batch window

A batch window continues “a duration of less-intensive online assignment”, when the computer system is accomplished to plunge batch jobs without obstruction from online systems.