

# [SHIR] Concurrency vs Parallelism

Last updated by | Veena Pachauri | Mar 8, 2023 at 11:57 PM PST

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## Concept

- **Concurrency**: multiple tasks are processing at the same time. Specific to copy activity via SHIR scenario, you could understand it as the multiple **diawp.exe processes** running simultaneously. Also we have a SHIR setting called "**concurrent jobs**" (aka SHIR **capacity**) which is the same concept of concurrency.
- **Parallelism**: represent that tasks are divided into smaller sub-tasks that are processed seemingly simultaneously or parallel. In specific to copy activity, it takes effect with "**Degree of copy parallelism**" ("**parallelCopies**" in JSON payload).

## How it helps with copy performance

Generally higher concurrency and higher parallelism can achieve better performance.

## How to apply it for perf tuning

First of all, please keep in mind that IR is just one of the factors

## Reference

<https://www.geeksforgeeks.org/difference-between-concurrency-and-parallelism/> 