

JobAndTask

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Fields

A job, derived from [JobInProgress](#), in general holds some basic information, including:

- jobId: [BSPJobID](#). The id of this job.
- jobName: String. The name of this job.
- user: String. See [BSPJobContext.getUser\(\)](#) wherein configures via `conf.get("user.name")`
- jobFile: Path. `job.xml`. See [BSPJobClient.submitJobInternal\(\)](#)
- localJobFile: Path. A local copied jobFile.
- localJarFile: Path. A local copied jar file.
- numBSPTasks: int. The number of BSP tasks to be
- master: String. The name of master server that is responsible for this job.
- maxTaskAttempts: int. default to 2.
- MAX_TASK_EXEC: int. bound to 1.
- inputPath: Path. Dir where split files are stored. i/o.
- State: [RUNNING\(1\)](#), [SUCCEEDED\(2\)](#), [FAILED\(3\)](#), [PREP\(4\)](#), [KILLED\(5\)](#)
- progress: long. % of `bsp()`. job status.
- setupProgress: long. % of `setup()` job status.
- cleanupProgress: long. % of `cleanup()` job status.
- startTime: long. The time this job is started. job status.
- finishTime: long. The time this job is finished. job status.
- superstepCount: long. This job's superstep count. job status.
- conf: Configuration. Specific setting for this job.
- Tasks: [TaskTable](#). See [TaskInProgress](#) and [Job Task Relation section](#).
 - attemptId: [TaskAttemptID](#). A task attempt id in which a [TaskID](#), containing [BSPJobID](#), is embedded.
 - failed: Boolean. If a task fails or not. default to false.
 - NUM_ATTEMPTS_PER_RESTART: int. Set to 1000.
 - partition: The `_i_th` numBSPTasks.
 - Phase: [SETUP](#), [COMPUTE](#), [BARRIER_SYNC](#), [CLEANUP](#)
 - State: [RUNNING](#), [SUCCEEDED](#), [FAILED](#), [KILLED](#)
 - completed: Boolean. if a task is completed/ succeed. default to false.
 - groom: String. On which groom a task runs.
 - startTime: `System.currentTimeMillis()`. default -1.
 - [RawSplit](#): The `_i_th` [RawSplit](#) if [RawSplit](#) is not null

State

A job status contains:

- PREP: This status is started when a job is created until all tasks are dispatched to groom servers.
 - [SetUp](#) a job
 - Scheduling
- RUNNING: When tasks are executed in [GroomServers](#).
- SUCCEEDED: When **all** tasks are in the **SUCCEEDED** state.
- FAILED: When one or more tasks exceed its **max attempt**
- CANCELLED: User/ Admin issues a cancel command.

? Unknown Attachment