

# TaskTable

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## Task Table

A [TaskTable](#) records tasks information.

- The entire task table belongs to the same [BSPJobID](#).
- A 2d array space is allocated with **numBSPTasks** row, and **maxTaskAttempts** is configured to check if 'attempt task' exceeds the upper bound.
- Each row's first slot (ie Task[0]) is assigned with a task where

TaskID's id: 1...N where N < numBSPTasks  
TaskAttemptID' id: 1

- A task managed by the task table has attributes such that

{TaskID's id: 1...N where N < numBSPTasks, and the same row's id should equal.}  
{TaskAttemptID's id: 1...M where M < maxTaskAttempts }

See [An Task Table Example](#)

## An Task Table Example

	maxTaskAttempts		
numBSPTasks	Task {jobId:1, taskId: 1, attemptId: 1}	Task {jobId:1, taskId: 1, attemptId: 2}	Task jobId:1, taskId: 1, attemptId: 3
Task {jobId:1, taskId: 2, attemptId: 1}	Task {jobId:1, taskId: 2, attemptId: 2}	Task {jobId:1, taskId: 2, attemptId: 3}	

## Job Task Relation

? Unknown Attachment