TNG DATASET FOR TDOS-RCPSP PROBLEM

Download link: <https://github.com/huudqtmu/dataset/blob/main/TNGDEF.zip>

The TNG dataset includes the following data files:

|  |  |
| --- | --- |
| **No.** | **TNG data file** |
|  | 71\_37\_1026\_1.def |
|  | 71\_39\_1026\_1.def |
|  | 71\_41\_1026\_1.def |
|  | 71\_45\_1026\_1.def |
|  | 137\_37\_1894\_1.def |
|  | 137\_39\_1894\_1.def |
|  | 137\_41\_1894\_1.def |
|  | 137\_45\_1894\_1.def |

Each data file describes about a project: tasks and resources

File's structure:

* Part 1 (lines 1-9): general information about the dataset
* Part 2 (lines 10-15) are the number of tasks, number of resources, number of priority relations and the number of skills
* Part 3 (line 16 onwards): information about the resources used to implement the project. Each resource has the following information:
* ResourceID: ID of resource (worker)
* Salary: the salary of the resource (worker)
* Skills: Resource Skills, including Skill Type and Skill Level information (e.g. Q1:2 means, resource type Q1 and skill level is 2)
* Part 4: information about the project's tasks to be performed, including
* TaskID
* Duration: task's execution time
* Skill: Resource requirements and skill levels to perform the task
* Predecessor IDs: ID list of tasks to be done and completed before executing the current task