

# Transformation Statistics Version 4.0

- [Introduction](#)
- [Transformation Statistics File](#)
- [Queries](#)
  - [Transformation Statistics \(using the multiplier\\_factor\)](#)

## Introduction

Transformation statistics file contains information about the invocations in workflow executing grouped by the logical transformation name.

## Transformation Statistics File

The transformation statistics file contains the following information about invocations grouped by the logical transformation name in individual workflow. In case of hierarchal workflow it shows all the sub workflows including top level workflow separated by its wf\_uid.

**Transformation** - name of the logical transformation.

**Count** - the number of times the invocations with a given logical transformation name was executed.

**Succeeded** - the count of succeeded invocations with a given logical transformation name .

**Failed** - the count of failed invocations with a given logical transformation name .

**Mean(sec.)** - the mean of the invocation runtimes with a given logical transformation name times the multiplier\_factor.

**Min(sec.)** - the minimum runtime value of invocations with a given logical transformation name times the multiplier\_factor.

**Max(sec.)** - the maximum runtime value of invocations with a given logical transformation name times the multiplier\_factor.

**Total(sec.)** - the cumulative of runtime value of invocations with a given logical transformation name times the multiplier\_factor.

The runtime value is obtained from the *remote\_runtime* in the **invocation** table

## Queries

### Transformation Statistics (using the multiplier\_factor)

```
// API method name : get_transformation_statistics()

SELECT transformation,
       count(invocation_id) as count,
       min(remote_duration * multiplier_factor) as min,
       count(CASE WHEN (invoc.exitcode is NOT NULL and invoc.exitcode = 0) THEN invoc.exitcode END) AS success,
       count(CASE WHEN (invoc.exitcode is NOT NULL and invoc.exitcode != 0) THEN invoc.exitcode END) AS failure,
       max(remote_duration * multiplier_factor) as max,
       avg(remote_duration * multiplier_factor) as avg,
       sum(remote_duration * multiplier_factor) as sum FROM
invocation as invoc, job_instance as ji WHERE
invoc.job_instance_id = ji.job_instance_id and
invoc.wf_id IN (1,2,3) GROUP BY transformation
```