Calculate the time elapsed between 2 transition executions

On this page

- Features used to implement the example
- Example: Calculate the time elapsed between 2 transition executions
- Alternative Implementation
- Other examples of that functions
- Related Usage Examples

Features used to implement the example

- **Mathematical and date-time expression calculator**
- **Copy a parsed text to a field**

Example: Calculate the time elapsed between 2 transition executions

I use post-function **Mathematical and date-time expression calculator** for calculating time between transitions. But I don't want to log work and use field "**Time Spent**". I want to use custom field and get time in minutes. How can I do it, using **Jira Workflow Toolbox**? And second question: Is any chance to get time between transitions in pretty duration format (for example, 1d 2h).

In order to calculate the time between the execution of 2 different transitions (let's say "**Transition A**" and "**Transition B**"), and store the obtained value in minutes into a **Number custom field** you can use the following solution:

1. Create **Number** custom field called "**Time elapsed in minutes**", where we will store the value obtained.
2. Create a **Date-Time Picker** custom field called "**Transition A Execution Time**"
3. Insert post-function **Mathematical and date-time expression calculator** into transition "**Transition A**" (i.e., the transition executed earlier) using the following configuration:
    - Target field: **Transition A Execution Time**
    - Formula: **`{00057}`**
4. Insert post-function **Mathematical and date-time expression calculator** into transition "**Transition B**" (i.e., the transition executed later) using the following configuration:
    - Target field: select **Time elapsed in minutes**
    - Formula: **`({00057} - {aaaaa}) / {MINUTE}`**
      replacing **aaaaa** with the field code of **Transition A Execution Time** custom field.

Alternative Implementation

You can also represent the time duration between the 2 transition executions as a string in pretty format. To do it, also insert **Copy a parsed text to a field** post-function into "**Transition B**" with the following configuration:

- Target field: **a text custom field**
- Parsing mode: **advanced**
- Text to be parsed:

```
(floor(({00057} - {aaaaa}) / {DAY}) > 0 ? floor(({00057} - {aaaaa}) / {DAY}) + "d " : "") + (floor
(modulus(({00057} - {aaaaa}), {DAY}) / {HOUR}) > 0 ? floor(modulus(({00057} - {aaaaa}), {DAY}) /
{HOUR}) + "h " : "") + (round(modulus(({00057} - {aaaaa}), {HOUR}) / {MINUTE}) > 0 ? round(modulus
(({00057} - {aaaaa}), {HOUR}) / {MINUTE}) + "m" : "")
```

replacing **aaaaa** with the field code of Transition A **Execution Time** custom field

---

Other examples of that functions

Mathematical and date-time expression calculator

Page: Automatic work log with start and stop work transitions

Related Usage Examples

- Validate compatible values selection among dependent custom fields
    - example

Page: Automatically log work time when the user uses a "Stop Progress" transition
Page: Calculate the time elapsed between 2 transition executions
Page: Getting the number of selected values in a custom field of type Multi Select
Page: Implement a form with a series of questions and calculate a numeric value based on the answers
Page: Increment a field or set to 1 if it's not set
Page: Set "Date-Time Picker" custom field with current date-time
Page: Set "Due date" 6 natural days (or work days) earlier than a "Date Picker" custom field
Page: Set "Due date" to a specific day of next week no matter of date of creation this week
Page: Set "Due date" with certain time offset from current date
Page: Set "Total time spent" to "Current date and time - date and time of last update"
Page: Set a custom field "Urgency" depending on a combined value of issue's priority and "Impact" custom field
Page: Sum "Time Spent" in all sub-tasks of issues linked with issue link types "LinkA", "LinkB", "LinkC"
Page: Triage Jira Service Desk email requests (Move issues)
Page: Using project properties to calculate custom sequence numbers

---

Copy a parsed text to a field

Page: Add all assignees of certain sub-task types to a "Multi-User Picker" custom field
Page: Add and remove a single or a set of items from multi valued fields
Page: Add current user to comment
Page: Add or remove request participants
Page: Add watchers from a part of the issue summary: "Summary_text - watcher1, watcher2, watcher3, ..."
Page: Assign issue based on the value of a Cascading Select custom field
Page: Assign issue to last user who executed a certain transition in the workflow
Page: Automatically close resolved sub-tasks when parent issue is closed
Page: Automatically reopen parent issue when one of its sub-tasks is reopened
Page: Calculate the time elapsed between 2 transition executions
Page: Close parent issue when all sub-tasks are closed
Page: Combine the values of several Multi-User picker fields
Page: Compose a parsed text including the "full name" or a user selected in a User Picker custom field
Page: Compose dynamic text by inserting field values in a text template
Page: Copy issue labels to a custom field
Page: Copy the value of a user property into a user picker
Page: Create a comment in sub-tasks when parent transitions
Page: Execute transition in epic
Page: Getting the number of selected values in a custom field of type Multi Select
Page: Limit the number of hours a user can log per day
Page: Make a sub-task's status match parent issue's current status on creation
Page: Make parent issue progress through its workflow
Page: Moving story to "In Progress" when one of its sub-tasks is moved to "In Progress"
Page: Moving story to "Ready for QA" once all its sub-tasks are in "Ready for QA" status
Page: Parse Email adresses to watchers list
Page: Parsing text from last comment and appending it to issue's summary
Page: Remove versions selected in a version picker custom field
Page: Replace certain issue link types with different ones
Page: Restrict parent issue from closing if it has sub-tasks that were created during a given parent issue status
Page: Set a Select or Multi-Select field using regular expression to express the values to be assigned
Page: Set assignee depending on issue type
Page: Set field depending on time passed since issue creation
Page: Set priority for issues that have been in a certain status for longer than 24 hours
Page: Set security level based on groups and project roles the reporter or creator are in
Page: Transition linked issues in currently active sprint
Page: Transition only a sub-task among several ones

- validator
- custom-field

- Validate a custom field "Story Points" has been given a value in Fibonacci sequence
  - example
  - validator
  - custom-field
- Validate that multi-user picker custom field A does not contain any user in multi-user picker custom field B
  - example
  - validator
  - custom-field
- Validation on the value of a Cascading Select field
  - example
  - validator
  - custom-field
- Make different fields mandatory depending on the value of a Select List custom field
  - example
  - validator
  - custom-field
- Make a custom field mandatory when priority is "Critical" or "Blocker" and issue type is "Incident"
  - example
  - validator
  - custom-field
- Enforce a field (Select List) to be set when another field (Radio Button) has a certain value (works with any kind of field type)
  - example
  - validator
  - custom-field
- Make attachment mandatory depending on the value of certain custom field
  - example
  - validator
  - custom-field
- Create a dynamic set of sub-tasks based on checkbox selection with unique summaries
  - example
  - post-function
  - custom-field
  - sub-task
- Total of all story points in an epic
  - example
  - custom-field
  - calculated-field
- Show timeliness of an issue based on two date pickers
  - example
  - custom-field
  - calculated-field
- Add and remove a single or a set of items from multi valued fields
  - example
  - post-function
  - custom-field
  - issue-links
  - sub-task
- Highest value of a custom field among linked issues
  - example
  - custom-field
  - calculated-field
- Google Maps location from address
  - example
  - calculated-field
  - custom-field
- Make certain custom field required in resolve screen only if the resolution was set to "Fixed"
  - example
  - validator
  - custom-field

Page: Transition parent issue only when certain issue sub-task types are done
Page: Update Cascading Select custom field with a value of the field in parent issue
Page: Update checkboxes custom field if a file has been attached during a transition
Page: Validation on issue attachments
Page: Validation on MIME types of issue attachments
Page: Writing a comment to blocked issues when blocking issues are resolved