

Labels

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Some time it is very useful to see *task-specific* information in *ecflow_ui*. For this, we can define a *label*. A *label* is a string that is attached to a *task* and that can be updated using the *child command* *ecflow_client* `--label`

Ecf Script

We will create a new family **label** with a task **t1**.
Create *ecf script* `$HOME/course/test/label/t1.ecf`

`$HOME/course/test/label/t1.ecf`

```
%include <head.h>

n=1
while [[ $n -le 5 ]]           # Loop 5 times
do
    msg="The date is now $(date)"
    ecflow_client --label=info "$msg" # Set the label
    sleep 60                        # Wait a one minute
    (( n = $n + 1 ))
done

ecflow_client --label=info "I have now finished my work."

%include <tail.h>
```

Text

```
# Definition of the suite test. Note Family f1,f2 from previous pages are omitted
suite test
edit ECF_INCLUDE "$HOME/course"
edit ECF_HOME    "$HOME/course"
family label
    task t1
        label info ""
endfamily
endsuite
```

Python

The following section shows how to add an `ecflow.Label` in python: (**Note: families f1 and f2 are omitted for brevity**)

\$HOME/course/test.py

```
import os
from ecflow import Defs, Suite, Family, Task, Edit, Trigger, Complete, Event, Meter, Time, Day, Date, Label

def create_family_label():
    return Family("label",
                  Task("t1",
                      Label("info", "")))

print("Creating suite definition")
home = os.path.join(os.getenv("HOME"), "course")
defs = Defs(
    Suite("test",
        Edit(ECF_INCLUDE=home, ECF_HOME=home),
        create_family_label()))
print(defs)

print("Checking job creation: .ecf -> .job0")
print(defs.check_job_creation())

print("Checking trigger expressions")
assert len(defs.check()) == 0, defs.check()

print("Saving definition to file 'test.def'")
defs.save_as_defs("test.def")
```

What to do

1. Modify the [suite definition](#) file or python script
2. Create the new [ecf script](#) file **\$HOME/course/test/label/t1.ecf**
3. Replace the [suite definition](#)
4. Watch in [ecflow_ui](#)
5. Change the label colour in [ecflow_ui](#), Tools->Preferences...Appearance->Node Labels

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