

Data acquisition solution

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Here is one possible answer:

```
import os
import ecflow

defs = ecflow.Defs()
suite = defs.add_suite("data_aquisition")
suite.add_repeat( ecflow.RepeatDay(1) )
suite.add_variable("ECF_HOME",    os.getenv("HOME") + "/course")
suite.add_variable("ECF_INCLUDE", os.getenv("HOME") + "/course")
suite.add_variable("ECF_FILES",   os.getenv("HOME") + "/course/data")
suite.add_variable("SLEEP", "2")
for city in ( "Exeter", "Toulouse", "Offenbach", "Washington", "Tokyo", "Melbourne", "Montreal" ) :
    fcity = suite.add_family(city)
    fcity.add_task("archive")
    for obs_type in ( "observations", "fields", "images" ):
        type_fam = fcity.add_family(obs_type)
        if city in ("Exeter", "Toulouse", "Offenbach"): type_fam.add_time("00:00 23:00 01:00")
        if city in ("Washington") :                    type_fam.add_time("00:00 23:00 03:00")
        if city in ("Tokyo") :                          type_fam.add_time("12:00")
        if city in ("Melbourne") :                      type_fam.add_day( "monday" )
        if city in ("Montreal") :                      type_fam.add_date(1, 0, 0)

        type_fam.add_task("get")
        type_fam.add_task("process").add_trigger("get eq complete")
        type_fam.add_task("store").add_trigger("get eq complete")
```

It is also possible to automatically generate the *ecf script* using the python api:

```
defs.generate_scripts()
```

This enables testing of the *suite definition*, with out worrying about the *ecf scripts*.



When there are no *events*, *meters* or *labels* in the *suite definition*, the content of the generated scripts are identical. Hence this functionality should **only** be used as **debug** aid for the definition

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