

# How to submit a job that will wait until later to run

It's possible to submit a job that will remain in a "blocked" state until a certain time on a specific day, at which time it will then automatically go into a "pending" state and be the next job dispatched to the farm

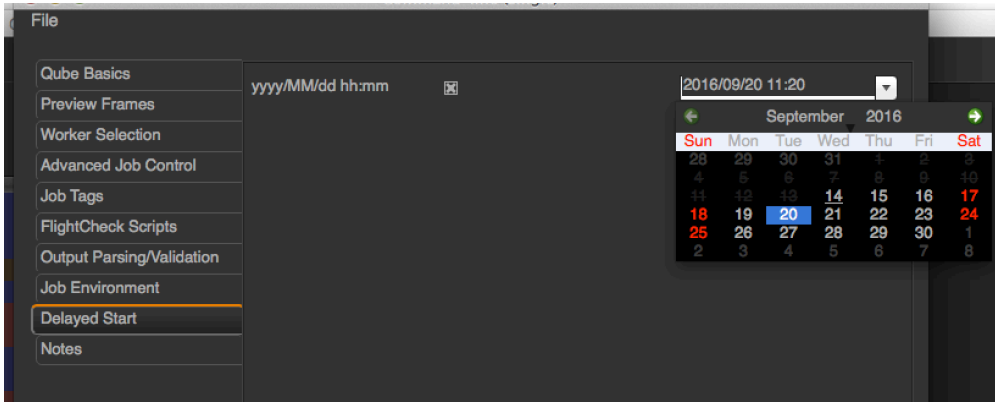
## With WranglerView

The screenshot shows the 'Submit cmdline' dialog box with the following fields and controls:

- Process Group: [Empty text field]
- Retry Frame/Instance: [0] [Up/Down arrows]
- Retry Work Delay: [0] [Up/Down arrows]
- Subjob Timeout: [-1] [Up/Down arrows]
- Frame Timeout: [-1] [Up/Down arrows]
- FlightCheck scripts: [Dropdown arrow]
- Job Pre-flight: [Text field] [Browse]
- Job Post-flight: [Text field] [Browse]
- Work Pre-flight: [Text field] [Browse]
- Work Post-flight: [Text field] [Browse]
- Qube Job Delayed Start: [Dropdown arrow]
- hh:mm M/D/Y: [Text field] [Time and Date]
- Qube Job Environment: [Dropdown arrow]
- Cwd: [Text field]
- Environment Variables: [Table with Key and Value columns]
- Buttons: Set Defaults, Clear Defaults,  Expert Mode, Cancel, Submit

Key	Value

## With ArtistView



## With the API

This is an example of how to submit a job that will start at a later time.

Lines of interest are:

- line 14, where the start time is set
- line 28, where the trigger condition is set

## Submit a job that will run in 1 hour

```
#!/usr/bin/env python

import sys
import os
import time

sys.path.append(os.environ['QBDIR'])
import qb

task = []
agenda = qb.genframes('1-2')

now = int(time.time())
later = now + 3600 - qb.QB_TIME_EPOCH_OFFSET

job = {
    'prototype': 'cmdrange',
    'name': 'wait time test',
    'status': 'blocked',
    'package': {'cmdline': 'sleep 30'},
    'agenda': agenda,
    'callbacks': [],
    'hosts': 'rhel52-64,rhel53-64,rhel54-64'
}

cb = {
    'language': 'qube',
    'triggers': 'dummy-time-self-%d' % later,
    'code': 'unblock-self'
}

job['callbacks'].append(cb)

task.append(job)

submitted = qb.submit(task)

for job in submitted:
    print 'submitted job %(id)s: %(name)s' % job
```