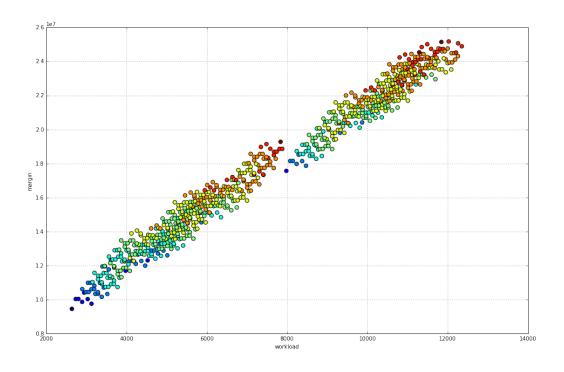
# Baselines\_notebook

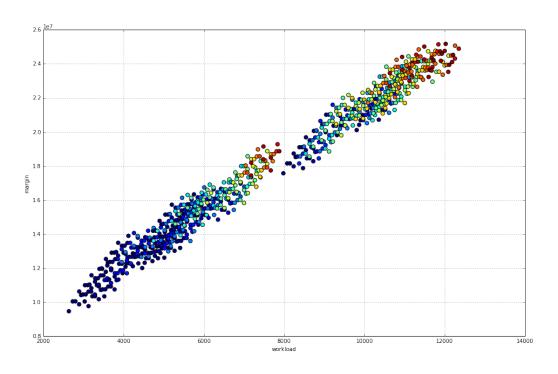
June 21, 2016

```
0.0.1 INITIALIZATION
In [13]: from ipywidgets import interact
         from baselines_plot import frequency_plot, schedule, scatter_plot, time_table
         from util import *
         import time
         %matplotlib inline
         bc = KTIBruggCables()
0.0.2 Get Opportunities and Batches
In [14]: opportunities = bc.get_opportunities()
         batches = bc.get_batches()
0.0.3 BASELINE GENERATION
In [15]: start = time.clock()
        baselines = bc.get_baselines()
         print(len(baselines), 'Baselines Generated in {0:.3f} sec.\n'
                                                         .format(time.clock()-start))
896 Baselines Generated in 1.790 sec.
0.0.4 FITNESS: compute the fitness for the baselines
In [16]: start = time.clock()
         fitness_b = bc.compute_fitness(baselines)
         print('Fitness Computed in {0:.3f} sec.\n'.format(time.clock()-start))
Fitness Computed in 38.315 sec.
In [17]: def plot_scatter_dynam(delay):
             fitness_ = fitness_b[fitness_b.delay <= delay]</pre>
             scatter_plot(fitness_.baselines.tolist(), 'workload', 'margin', df = fitness_)
```

interact(plot\_scatter\_dynam, delay=(0, fitness\_b.delay.max(), 10))



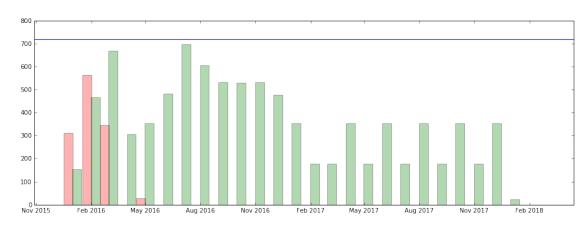


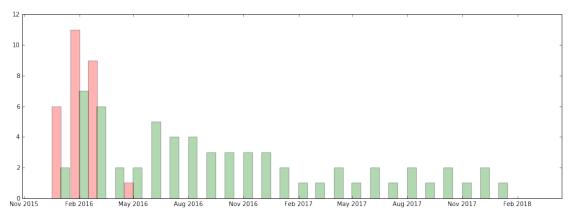


## Out[17]: <function \_\_main\_\_.plot\_scatter\_dynam>

### 0.0.5 SELECTION: preliminary selection rule for the best baseline

#### schedule(baseline)



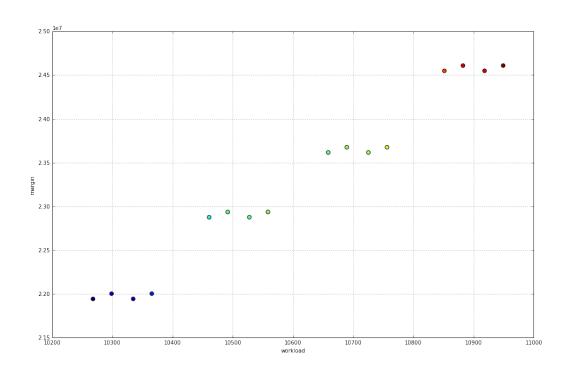


### 0.0.6 FILLING: combine the fillers to get the schedules

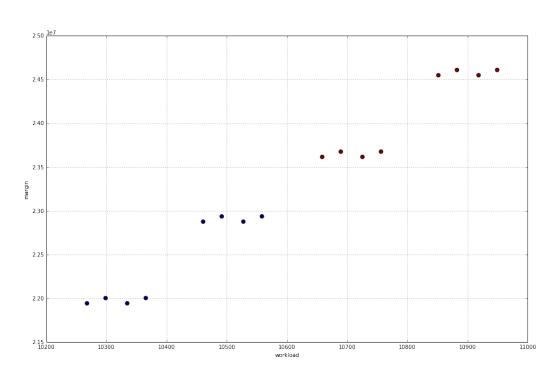
Number of Fillers: 0 Number of Fillers: 2 Number of Fillers: 6 Number of Fillers: 7

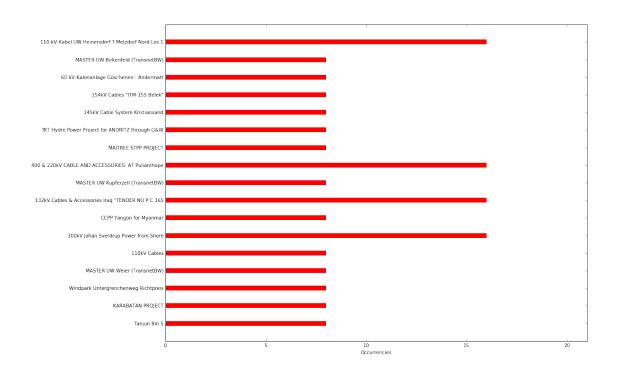
# 1 Diagnostic Plot

#### 1.0.1 Distribution of the Combinations





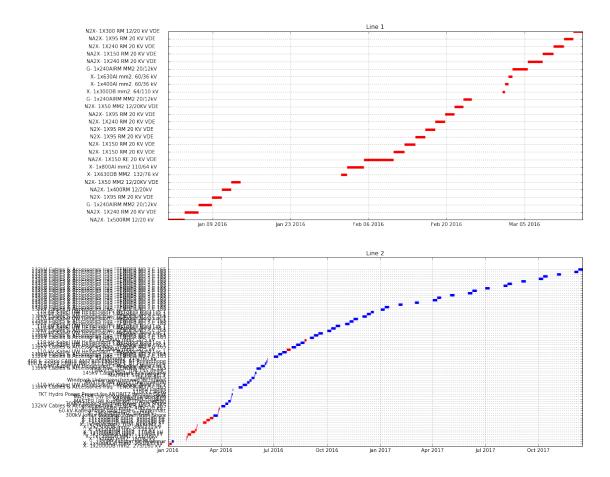




## 1.0.2 Selection of the "Best" Combination of Offers

#### 1.0.3 Workload Distribution





## 1.0.4 Questions:

- Strategy for the Baseline selection
- Strategy for the Schedule selection
- More diagnostic plots

## In []: