# approximate_bayesian_computation
## Parameters

cm_name: abc_50

dataframe_in: data_missing_50

description: Approximate Bayesian Computation for Time Series

diff_func_name: manhattan_metrics

diff_func_parameters: {}

model_method: approximate_bayesian_computation

name: approximate_bayesian_computation

parameters:

  algorithm: pydream

  decision_variables:

    keys:

    - max_keys

  decision_variables_names:

  - graph_structure

  epsilons:

  - 1

  ground_truth_topology:

    keys:

    - max_keys

  initial_points: 100

  n_chains: 3

  n_draws: 15000

  n_iterations: 100

  nfe: 15000

  num_pool: 1

  population_size: 100

  seed: 6

report_parameters: {}

running_time: 181617.32870554924

type: calibrationmodel

version: 1.0.0

## Results

Summary CalibrationModel with solutions:

| | graph_structure | Distance |
|---|---|---|
| 0 | 17525.218903 | 22.135081 |
| 1 | 17525.218903 | 21.860653 |
| 2 | 17525.218903 | 20.972500 |
| 3 | 17525.218903 | 19.328859 |
| 4 | 0.000000 | 18.672811 |
| ... | ... | ... |
| 10260 | 0.000000 | 19.697679 |
| 10261 | 0.000000 | 20.387733 |
| 10262 | 0.000000 | 19.572947 |
| 10263 | 0.000000 | 18.520952 |
| 10264 | 0.000000 | 19.012362 |

[10265 rows x 2 columns]

with the most optimal solution:

```
   graph_structure   Distance   round
0            0.0   16.403901    0.0
```

with an acceptance percentage of 0.011117781780179222%