# approximate_bayesian_computation

## Parameters

cm_name: abc_80

dataframe_in: data_missing_80

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: 26

report_parameters: {}

running_time: 184701.3613257408

type: calibrationmodel

version: 1.0.0

## Results

Summary CalibrationModel with solutions:

| | graph_structure | Distance |
|---|---|---|
| 0 | 3.159753e+04 | 201.897128 |
| 1 | 3.156725e+04 | 186.833919 |
| 2 | 3.999900e+04 | 107.671635 |
| 3 | 3.999900e+04 | 107.008620 |
| 4 | 3.999900e+04 | 97.844835 |
| .. | ... | ... |
| 430 | 1.018496e-11 | 46.927878 |
| 431 | 1.279597e-11 | 47.404799 |
| 432 | 1.540698e-11 | 49.969109 |
| 433 | 1.801800e-11 | 44.054387 |
| 434 | 0.000000e+00 | 44.980458 |

[435 rows x 2 columns]

with the most optimal solution:

```
   graph_structure  Distance  round
0            0.0  42.859522    0.0
```

with an acceptance percentage of 0.5358770818046383%