# approximate_bayesian_computation

## Parameters

cm_name: abc_90_s6
dataframe_in: data_missing_90
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: 184511.92992687225
type: calibrationmodel
version: 1.0.0

## Results

Summary CalibrationModel with solutions:

| | graph_structure | Distance |
|---|---|---|
| 0 | 3.159753e+04 | 355.333809 |
| 1 | 3.156725e+04 | 328.706535 |
| 2 | 3.153696e+04 | 199.843050 |
| 3 | 3.999900e+04 | 181.794629 |
| 4 | 3.999900e+04 | 179.082669 |
| .. | ... | ... |
| 71 | 0.000000e+00 | 80.589960 |
| 72 | 1.576022e-14 | 79.844538 |
| 73 | 3.152043e-14 | 85.181530 |
| 74 | 4.728065e-14 | 87.834999 |
| 75 | 6.304086e-14 | 84.197813 |

[76 rows x 2 columns]

with the most optimal solution:

| | graph_structure | Distance | round |
|---|---|---|---|
| 0 | 3.711406e-13 | 79.844538 | 0.0 |
| 1 | 5.466643e-13 | 79.844538 | 0.0 |
| 2 | 1.576022e-14 | 79.844538 | 0.0 |

with an acceptance percentage of 0.12007204322593557%