# 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: 16
report_parameters: {}
running_time: 281757.2543041706
type: calibrationmodel
version: 1.0.0

## Results

Summary CalibrationModel with solutions:

| | graph_structure | Distance |
|---|---|---|
| 0 | 22546.691528 | 34.939719 |
| 1 | 33368.040374 | 31.425210 |
| 2 | 39999.000000 | 26.540916 |
| 3 | 39999.000000 | 26.445406 |
| 4 | 39999.000000 | 26.631335 |
| ... | ... | ... |
| 11971 | 34589.479087 | 14.508534 |
| 11972 | 34589.479087 | 14.977760 |
| 11973 | 34589.479087 | 15.090538 |
| 11974 | 34589.479087 | 15.197328 |
| 11975 | 34589.479087 | 14.652964 |

[11976 rows x 2 columns]

with the most optimal solution:

| | graph_structure | Distance | round |
|---|---|---|---|
| 0 | 34589.479087 | 13.955384 | 34589.0 |

with an acceptance percentage of 0.013341338136215063%