approximate_bayesian_computation

Parameters

cm_name: abc_10
dataframe_in: data_missing_10
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:
  - Manufacturing_Time
  epsilons:
  - 1
  n_chains: 3
  n_draws: 20000
  n_iterations: 100
  nfe: 15000
  objectives:
  - Manufacturer
  - Export_Port
  - Transit_Port
  - Import_Port
  - Wholesales_Distributor
  - Retailer_Amsterdam
  - Retailer_Utrecht
  - Retailer_Venlo
  population_size: 100
  ranges_variables:
  - - 1
     - 10
  seed: 30
report_parameters: {}
running_time: 432077.7103731632
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions:

	Manufacturing_Time	Distance
0	2.226109	7.551075
1	2.226109	7.551075
2	2.226109	7.551075
3	2.226109	7.551075
4	2.226109	7.551075
...	...	...
4664	3.349766	8.065861
4665	3.349760	8.093222
4666	3.349754	8.143036

4667 2.153087 7.936773
4668 2.172599 7.810646

[4669 rows x 2 columns]
with the most optimal solution:
Manufacturing_Time Distance
0 2.172297 5.843849
1 2.172298 5.843849
2 2.172298 5.843849
3 2.172298 5.843849
with an acceptance percentage of 7.800176746202457%

approximate_bayesian_computation

Parameters

cm_name: abc_25
dataframe_in: data_missing_25
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:
  - Manufacturing_Time
  epsilons:
  - 1
  n_chains: 3
  n_draws: 20000
  n_iterations: 100
  nfe: 15000
  objectives:
  - Manufacturer
  - Export_Port
  - Transit_Port
  - Import_Port
  - Wholesales_Distributor
  - Retailer_Amsterdam
  - Retailer_Utrecht
  - Retailer_Venlo
  population_size: 100
  ranges_variables:
  - - 1
     - 10
  seed: 30
report_parameters: {}
running_time: 422145.65921378136
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions:

	Manufacturing_Time	Distance
0	2.226109	7.994047
1	2.226109	7.994047
2	2.226109	7.994047
3	2.226109	7.994047
4	2.226109	7.994047
...	...	...
16522	2.397132	6.667321
16523	2.397132	6.667321
16524	2.397132	6.667321

16525 2.397132 6.667321
16526 2.397132 6.667321

[16527 rows x 2 columns]
with the most optimal solution:

	Manufacturing_Time	Distance
0	2.397133	6.667321
1	2.397133	6.667321
2	2.397133	6.667321
3	2.397133	6.667321
4	2.397133	6.667321
..	...	...
909	2.397132	6.667321
910	2.397132	6.667321
911	2.397132	6.667321
912	2.397132	6.667321
913	2.397132	6.667321

[914 rows x 2 columns]
with an acceptance percentage of 27.73414703283144%

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:
  - Manufacturing_Time
  epsilons:
  - 1
  n_chains: 3
  n_draws: 20000
  n_iterations: 100
  nfe: 15000
  objectives:
  - Manufacturer
  - Export_Port
  - Transit_Port
  - Import_Port
  - Wholesales_Distributor
  - Retailer_Amsterdam
  - Retailer_Utrecht
  - Retailer_Venlo
  population_size: 100
  ranges_variables:
  - - 1
     - 10
  seed: 30
report_parameters: {}
running_time: 405913.3776702881
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions:

	Manufacturing_Time	Distance
0	3.349760	12.595551
1	3.349760	12.595551
2	3.349760	12.595551
3	3.349760	12.595551
4	3.349760	12.595551
...	...	...
18161	3.353420	12.440077
18162	3.353420	12.440077
18163	3.353426	12.440084

18164 3.353431 12.440084
18165 3.353436 10.847544

[18166 rows x 2 columns]
with the most optimal solution:
Manufacturing_Time Distance
0 3.353435 10.84754
with an acceptance percentage of 30.378670401680758%

approximate_bayesian_computation

Parameters

cm_name: abc_75
dataframe_in: data_missing_75
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:
  - Manufacturing_Time
  epsilons:
  - 1
  n_chains: 3
  n_draws: 20000
  n_iterations: 100
  nfe: 15000
  objectives:
  - Manufacturer
  - Export_Port
  - Transit_Port
  - Import_Port
  - Wholesales_Distributor
  - Retailer_Amsterdam
  - Retailer_Utrecht
  - Retailer_Venlo
  population_size: 100
  ranges_variables:
  - - 1
     - 10
  seed: 30
report_parameters: {}
running_time: 431427.1736238003
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions:

	Manufacturing_Time	Distance
0	3.349760	23.423298
1	1.177835	23.325858
2	1.177835	23.325858
3	1.177835	23.325858
4	1.177835	23.325858
...	...	...
12570	2.243201	19.981754
12571	2.243201	19.981754
12572	2.243201	19.981754

```
12573           2.243201  19.981754
12574           2.243201  19.981754

[12575 rows x 2 columns]
 with the most optimal solution:
      Manufacturing_Time   Distance
0              3.291415  15.890468
1              3.291415  15.890468
2              3.291415  15.890468
3              3.291415  15.890468
4              3.291415  15.890468
...                 ...       ...
3993           3.291414  15.890468
3994           3.291414  15.890468
3995           3.291414  15.890468
3996           3.291414  15.890468
3997           3.291414  15.890468

[3998 rows x 2 columns]
 with an acceptance percentage of 20.98444299934971%
```

approximate_bayesian_computation

Parameters

cm_name: abc_90
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:
  - Manufacturing_Time
  epsilons:
  - 1
  n_chains: 3
  n_draws: 20000
  n_iterations: 100
  nfe: 15000
  objectives:
  - Manufacturer
  - Export_Port
  - Transit_Port
  - Import_Port
  - Wholesales_Distributor
  - Retailer_Amsterdam
  - Retailer_Utrecht
  - Retailer_Venlo
  population_size: 100
  ranges_variables:
  - - 1
     - 10
  seed: 30
report_parameters: {}
running_time: 436612.4161787033
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions:

	Manufacturing_Time	Distance
0	2.226109	15.129955
1	5.195231	19.049433
2	3.023306	15.411547
3	6.797292	23.256284
4	3.349760	15.830929
...	...	...
2404	2.806017	15.228344
2405	2.806017	15.228344
2406	2.806017	15.228344

2407 2.460897 15.020440
2408 2.115778 13.472553

[2409 rows x 2 columns]
with the most optimal solution:
Manufacturing_Time Distance
0 2.115778 13.472553
with an acceptance percentage of 4.013472729394894%

genetic_algorithm

Parameters

cm_name: ga_10
dataframe_in: data_missing_10
description: Genetic Algorithm for optimization of timeseries
diff_func_name: manhattan_metrics
diff_func_parameters: {}
model_method: genetic_algorithm
name: genetic_algorithm
parameters:
    algorithm: epsNSGAII
    decision_variables:
    - Manufacturing_Time
    epsilons:
    - 1
    n_draws: 20000
    n_iterations: 100
    nfe: 15000
    objectives:
    - Manufacturer
    - Export_Port
    - Transit_Port
    - Import_Port
    - Wholesales_Distributor
    - Retailer_Amsterdam
    - Retailer_Utrecht
    - Retailer_Venlo
    population_size: 100
    ranges_variables:
    -   - 1
        - 10
    seed: 30
report_parameters: {}
running_time: 348100.34425759315
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions
   Manufacturing_Time Manufacturer Export_Port Transit_Port Import_Port Wholesales_Distributor
Retailer_Amsterdam Retailer_Utrecht Retailer_Venlo
0   2.261198   2.768489   2.768489   2.768489   2.768489   2.768489   2.768489
2.768489   2.768489
 and eprogress is [3, 4, 5, 5, 5, 5, 5, 6, 6, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 8, 8, 8, 8, 8, 9]

genetic_algorithm
Parameters

cm_name: ga_25
dataframe_in: data_missing_25
description: Genetic Algorithm for optimization of timeseries
diff_func_name: manhattan_metrics
diff_func_parameters: {}
model_method: genetic_algorithm
name: genetic_algorithm
parameters:
    algorithm: epsNSGAII
    decision_variables:
    - Manufacturing_Time
    epsilons:
    - 1
    n_draws: 20000
    n_iterations: 100
    nfe: 15000
    objectives:
    - Manufacturer
    - Export_Port
    - Transit_Port
    - Import_Port
    - Wholesales_Distributor
    - Retailer_Amsterdam
    - Retailer_Utrecht
    - Retailer_Venlo
    population_size: 100
    ranges_variables:
    -   - 1
        - 10
    seed: 30
report_parameters: {}
running_time: 355362.7244617939
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions

	Manufacturing_Time	Manufacturer	Export_Port	Transit_Port	Import_Port	Wholesales_Distributor	Retailer_Amsterdam	Retailer_Utrecht	Retailer_Venlo
0	2.31549	2.188567	2.188567	2.188567	2.188567	2.188567	2.188567	2.188567	2.188567

and eprogress is [4, 5, 6, 7, 8, 8, 8, 8, 8, 8, 9, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12, 13, 13, 13, 13, 13, 13, 13, 13, 13, 13, 13, 13, 13, 13, 13, 13, 13]

genetic_algorithm

Parameters

```
cm_name: ga_50
dataframe_in: data_missing_50
description: Genetic Algorithm for optimization of timeseries
diff_func_name: manhattan_metrics
diff_func_parameters: {}
model_method: genetic_algorithm
name: genetic_algorithm
parameters:
    algorithm: epsNSGAII
    decision_variables:
    - Manufacturing_Time
    epsilons:
    - 1
    n_draws: 20000
    n_iterations: 100
    nfe: 15000
    objectives:
    - Manufacturer
    - Export_Port
    - Transit_Port
    - Import_Port
    - Wholesales_Distributor
    - Retailer_Amsterdam
    - Retailer_Utrecht
    - Retailer_Venlo
    population_size: 100
    ranges_variables:
    -   - 1
        - 10
    seed: 30
report_parameters: {}
running_time: 353349.2021205425
type: calibrationmodel
version: 1.0.0
```

Results

Summary CalibrationModel with solutions

```
   Manufacturing_Time  Manufacturer  Export_Port  Transit_Port  Import_Port  Wholesales_Distributor
Retailer_Amsterdam  Retailer_Utrecht  Retailer_Venlo
0            2.520919      4.745791     4.745791      4.745791     4.745791                4.745791            4.745791
4.745791        4.745791
```

and eprogress is [3, 3, 3, 3, 4, 5, 6, 6, 6, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 8, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10]

genetic_algorithm
Parameters

cm_name: ga_75
dataframe_in: data_missing_75
description: Genetic Algorithm for optimization of timeseries
diff_func_name: manhattan_metrics
diff_func_parameters: {}
model_method: genetic_algorithm
name: genetic_algorithm
parameters:
    algorithm: epsNSGAII
    decision_variables:
    - Manufacturing_Time
    epsilons:
    - 1
    n_draws: 20000
    n_iterations: 100
    nfe: 15000
    objectives:
    - Manufacturer
    - Export_Port
    - Transit_Port
    - Import_Port
    - Wholesales_Distributor
    - Retailer_Amsterdam
    - Retailer_Utrecht
    - Retailer_Venlo
    population_size: 100
    ranges_variables:
    -   - 1
        - 10
    seed: 30
report_parameters: {}
running_time: 354585.20345282555
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions

	Manufacturing_Time	Manufacturer	Export_Port	Transit_Port	Import_Port	Wholesales_Distributor	Retailer_Amsterdam	Retailer_Utrecht	Retailer_Venlo
0	3.12228	8.48702	8.48702	8.48702	8.48702	8.48702	8.48702	8.48702	8.48702

and eprogress is [5, 6, 6, 7, 7, 7, 7, 7, 8, 8, 8, 8, 8, 8, 8, 8, 8, 9]

genetic_algorithm

Parameters

cm_name: ga_90
dataframe_in: data_missing_90
description: Genetic Algorithm for optimization of timeseries
diff_func_name: manhattan_metrics
diff_func_parameters: {}
model_method: genetic_algorithm
name: genetic_algorithm
parameters:
    algorithm: epsNSGAII
    decision_variables:
    - Manufacturing_Time
    epsilons:
    - 1
    n_draws: 20000
    n_iterations: 100
    nfe: 15000
    objectives:
    - Manufacturer
    - Export_Port
    - Transit_Port
    - Import_Port
    - Wholesales_Distributor
    - Retailer_Amsterdam
    - Retailer_Utrecht
    - Retailer_Venlo
    population_size: 100
    ranges_variables:
    -   - 1
        - 10
    seed: 30
report_parameters: {}
running_time: 348616.0480413437
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with solutions
   Manufacturing_Time Manufacturer Export_Port Transit_Port Import_Port Wholesales_Distributor
Retailer_Amsterdam Retailer_Utrecht Retailer_Venlo
0   2.395708   7.666193   7.666193   7.666193   7.666193   7.666193   7.666193
7.666193   7.666193
 and eprogress is [4, 5, 6, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 8, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11]

powell_method

Parameters

cm_name: powell_10
dataframe_in: data_missing_10
description: Powell Method for optimization of timeseries with simulation
diff_func_name: manhattan_metrics
diff_func_parameters: {}
model_method: powell_method
name: powell_method
parameters:
  decision_variables:
  - Manufacturing_Time
  epsilons:
  - 1
  n_draws: 20000
  n_iterations: 100
  nfe: 1500
  objectives:
  - Manufacturer
  - Export_Port
  - Transit_Port
  - Import_Port
  - Wholesales_Distributor
  - Retailer_Amsterdam
  - Retailer_Utrecht
  - Retailer_Venlo
  population_size: 100
  ranges_variables:
  - - 1
     - 10
  seed: 30
report_parameters: {}
running_time: 1189.1614332199097
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with most optimal solution:

	Manufacturing_Time	Distance
0	2.908968	5.709939

powell_method

Parameters

cm_name: powell_25
dataframe_in: data_missing_25
description: Powell Method for optimization of timeseries with simulation
diff_func_name: manhattan_metrics
diff_func_parameters: {}
model_method: powell_method
name: powell_method
parameters:
  decision_variables:
  - Manufacturing_Time
  epsilons:
  - 1
  n_draws: 20000
  n_iterations: 100
  nfe: 1500
  objectives:
  - Manufacturer
  - Export_Port
  - Transit_Port
  - Import_Port
  - Wholesales_Distributor
  - Retailer_Amsterdam
  - Retailer_Utrecht
  - Retailer_Venlo
  population_size: 100
  ranges_variables:
  - - 1
     - 10
  seed: 30
report_parameters: {}
running_time: 1434.7149860858917
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with most optimal solution:

	Manufacturing_Time	Distance
0	2.733976	3.665413

powell_method

Parameters

cm_name: powell_50
dataframe_in: data_missing_50
description: Powell Method for optimization of timeseries with simulation
diff_func_name: manhattan_metrics
diff_func_parameters: {}
model_method: powell_method
name: powell_method
parameters:
  decision_variables:
  - Manufacturing_Time
  epsilons:
  - 1
  n_draws: 20000
  n_iterations: 100
  nfe: 1500
  objectives:
  - Manufacturer
  - Export_Port
  - Transit_Port
  - Import_Port
  - Wholesales_Distributor
  - Retailer_Amsterdam
  - Retailer_Utrecht
  - Retailer_Venlo
  population_size: 100
  ranges_variables:
  - - 1
     - 10
  seed: 30
report_parameters: {}
running_time: 2001.4003760814667
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with most optimal solution:

	Manufacturing_Time	Distance
0	2.528118	7.423446

powell_method

Parameters

cm_name: powell_75
dataframe_in: data_missing_75
description: Powell Method for optimization of timeseries with simulation
diff_func_name: manhattan_metrics
diff_func_parameters: {}
model_method: powell_method
name: powell_method
parameters:
  decision_variables:
  - Manufacturing_Time
  epsilons:
  - 1
  n_draws: 20000
  n_iterations: 100
  nfe: 1500
  objectives:
  - Manufacturer
  - Export_Port
  - Transit_Port
  - Import_Port
  - Wholesales_Distributor
  - Retailer_Amsterdam
  - Retailer_Utrecht
  - Retailer_Venlo
  population_size: 100
  ranges_variables:
  - - 1
     - 10
  seed: 30
report_parameters: {}
running_time: 1908.745833158493
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with most optimal solution:

	Manufacturing_Time	Distance
0	2.97593	12.181331

powell_method

Parameters

cm_name: powell_90
dataframe_in: data_missing_90
description: Powell Method for optimization of timeseries with simulation
diff_func_name: manhattan_metrics
diff_func_parameters: {}
model_method: powell_method
name: powell_method
parameters:
  decision_variables:
  - Manufacturing_Time
  epsilons:
  - 1
  n_draws: 20000
  n_iterations: 100
  nfe: 1500
  objectives:
  - Manufacturer
  - Export_Port
  - Transit_Port
  - Import_Port
  - Wholesales_Distributor
  - Retailer_Amsterdam
  - Retailer_Utrecht
  - Retailer_Venlo
  population_size: 100
  ranges_variables:
  - - 1
     - 10
  seed: 30
report_parameters: {}
running_time: 1195.14510679245
type: calibrationmodel
version: 1.0.0

Results

Summary CalibrationModel with most optimal solution:

	Manufacturing_Time	Distance
0	3.06668	12.066385

Summary

Model Name	Model Method	Score	Difference Function	Dataframe	Duration	Solution Params
powell_90	powell_method	0.94	manhattan_metrics	data_missing_90	1195.145 sec	{'Manufacturing_Time': 3.0666797127905974}
powell_75	powell_method	0.95	manhattan_metrics	data_missing_75	1908.746 sec	{'Manufacturing_Time': 2.9759301224650514}
powell_50	powell_method	1.0	manhattan_metrics	data_missing_50	2001.400 sec	{'Manufacturing_Time': 2.528117731012233}
powell_25	powell_method	0.97	manhattan_metrics	data_missing_25	1434.715 sec	{'Manufacturing_Time': 2.7339756053408304}
powell_10	powell_method	0.95	manhattan_metrics	data_missing_10	1189.161 sec	{'Manufacturing_Time': 2.9089680204700508}
ga_90	genetic_algorithm	0.99	manhattan_metrics	data_missing_90	348616.048 sec	{'Manufacturing_Time': 2.395707794129828}
ga_75	genetic_algorithm	0.93	manhattan_metrics	data_missing_75	354585.203 sec	{'Manufacturing_Time': 3.122280264666436}
ga_50	genetic_algorithm	1.0	manhattan_metrics	data_missing_50	353349.202 sec	{'Manufacturing_Time': 2.520919269732937}
ga_25	genetic_algorithm	0.98	manhattan_metrics	data_missing_25	355362.724 sec	{'Manufacturing_Time': 2.3154903447295965}
ga_10	genetic_algorithm	0.97	manhattan_metrics	data_missing_10	348100.344 sec	{'Manufacturing_Time': 2.2611981752648673}
abc_90	approximate_bayesian_computation	0.96	manhattan_metrics	data_missing_90	436612.416 sec	{'Manufacturing_Time': 2.115778123861375}
abc_75	approximate_bayesian_computation	0.91	manhattan_metrics	data_missing_75	431427.174 sec	{'Manufacturing_Time': 3.291414960742663}
abc_50	approximate_bayesian_computation	0.91	manhattan_metrics	data_missing_50	405913.378 sec	{'Manufacturing_Time': 3.3534351852297304}
abc_25	approximate_bayesian_computation	0.99	manhattan_metrics	data_missing_25	422145.659 sec	{'Manufacturing_Time': 2.3971332069782614}
abc_10	approximate_bayesian_computation	0.96	manhattan_metrics	data_missing_10	432077.710 sec	{'Manufacturing_Time': 2.1722969124821905}