Final Report

December 9, 2018

Bayesian Data Analysis Project (BDA) - 2018

1   Analysis of House Prices Prediction through Supervised Bayesian Approach of Linear & Polynomial Regression

1.1   Data Analysis

This section of the report will briefly highlight some of the characteristics of the dataset chosen from Kaggle [1]. In addition to this, some figures and illustrations will be provided to support how the distribution of features and labels in the training data will affect the Stan modeling.

We start this section with importing all the necessary packages and importing the dataset to better visualize it and see all the features and labels in it.

```
In [1]: # Dependencies
        import numpy as np
        import matplotlib.pyplot as plt
        import pandas as pd
        import psis
        from IPython.display import display, HTML
        from sklearn.model_selection import train_test_split
        from sklearn.preprocessing import StandardScaler
        from sklearn.metrics import mean_squared_error
        from math import sqrt
        from scipy.special import logsumexp

        # Import from Stan utilities
        import stan_utility

In [2]: # Import dataset and view a part of it
        df = pd.read_csv("kc_house_data.csv")
        display(df.head())
```

```
           id             date     price  bedrooms  bathrooms  sqft_living  \
0  7129300520  20141013T000000  221900.0         3       1.00         1180
1  6414100192  20141209T000000  538000.0         3       2.25         2570
2  5631500400  20150225T000000  180000.0         2       1.00          770
3  2487200875  20141209T000000  604000.0         4       3.00         1960
```

```
4  1954400510  20150218T000000  510000.0          3       2.00          1680

   sqft_lot  floors  waterfront  view    ...      grade  sqft_above  \
0      5650     1.0           0     0     ...          7        1180
1      7242     2.0           0     0     ...          7        2170
2     10000     1.0           0     0     ...          6         770
3      5000     1.0           0     0     ...          7        1050
4      8080     1.0           0     0     ...          8        1680

   sqft_basement  yr_built  yr_renovated  zipcode      lat     long  \
0              0      1955             0    98178  47.5112 -122.257
1            400      1951          1991    98125  47.7210 -122.319
2              0      1933             0    98028  47.7379 -122.233
3            910      1965             0    98136  47.5208 -122.393
4              0      1987             0    98074  47.6168 -122.045

   sqft_living15  sqft_lot15
0           1340        5650
1           1690        7639
2           2720        8062
3           1360        5000
4           1800        7503

[5 rows x 21 columns]
```

As apparent from a portion of the dataset provided above, there are a total of 19 features of the house excluding the **price** which is the quantity we intended to infer from our model and the **id**. A total of 21613 observations exist in the dataset.

The objective of our analysis is to find the relationships of all the features with the **price** of the house. To achieve this feat, it is necessary to understand the distribution, nature, and correlation of each feature with the **price** of the house [2]. A good first step is the visualization of the house prices in all the observations. Some statistical indicators for the house prices are provided below:

```python
In [3]: # Statistical Metrics for House Prices
        minPrice = df.loc[:,'price'].min()
        maxPrice = df.loc[:,'price'].max()
        priceMean = df.loc[:,'price'].mean()
        priceMode = df.loc[:,'price'].mode()
        priceStats = df.loc[:,'price'].describe()

        print("Minimum House price: ", minPrice, "$")
        print("Maximum House price: ", maxPrice, "$")

        print("Mean of House prices: ", priceMean)
        print("\nMode of House prices: ")
        display(priceMode)
```

```python
print("Statistics about House Price: ")
display(priceStats)

# Histogram of log of House Prices
fig = plt.figure(figsize = (16, 16))
plt.hist(np.log(df['price']), bins = 99, edgecolor = 'black', color = 'red')
plt.xlabel('Log of House Prices', fontsize = 14)
plt.ylabel('Frequency', fontsize = 14)
plt.tick_params(labelsize = 13)
plt.title('Logarithmic House Price Distribution', fontsize = 14, fontweight = 'bold')
plt.savefig(f"figures/logHist.jpg")
```

```
Minimum House price:   75000.0 $
Maximum House price:   7700000.0 $
Mean of House prices:   540088.1417665294


Mode of House prices:


0     350000.0
1     450000.0
dtype: float64


Statistics about House Price:


count    2.161300e+04
mean     5.400881e+05
std      3.671272e+05
min      7.500000e+04
25%      3.219500e+05
50%      4.500000e+05
75%      6.450000e+05
max      7.700000e+06
Name: price, dtype: float64
```
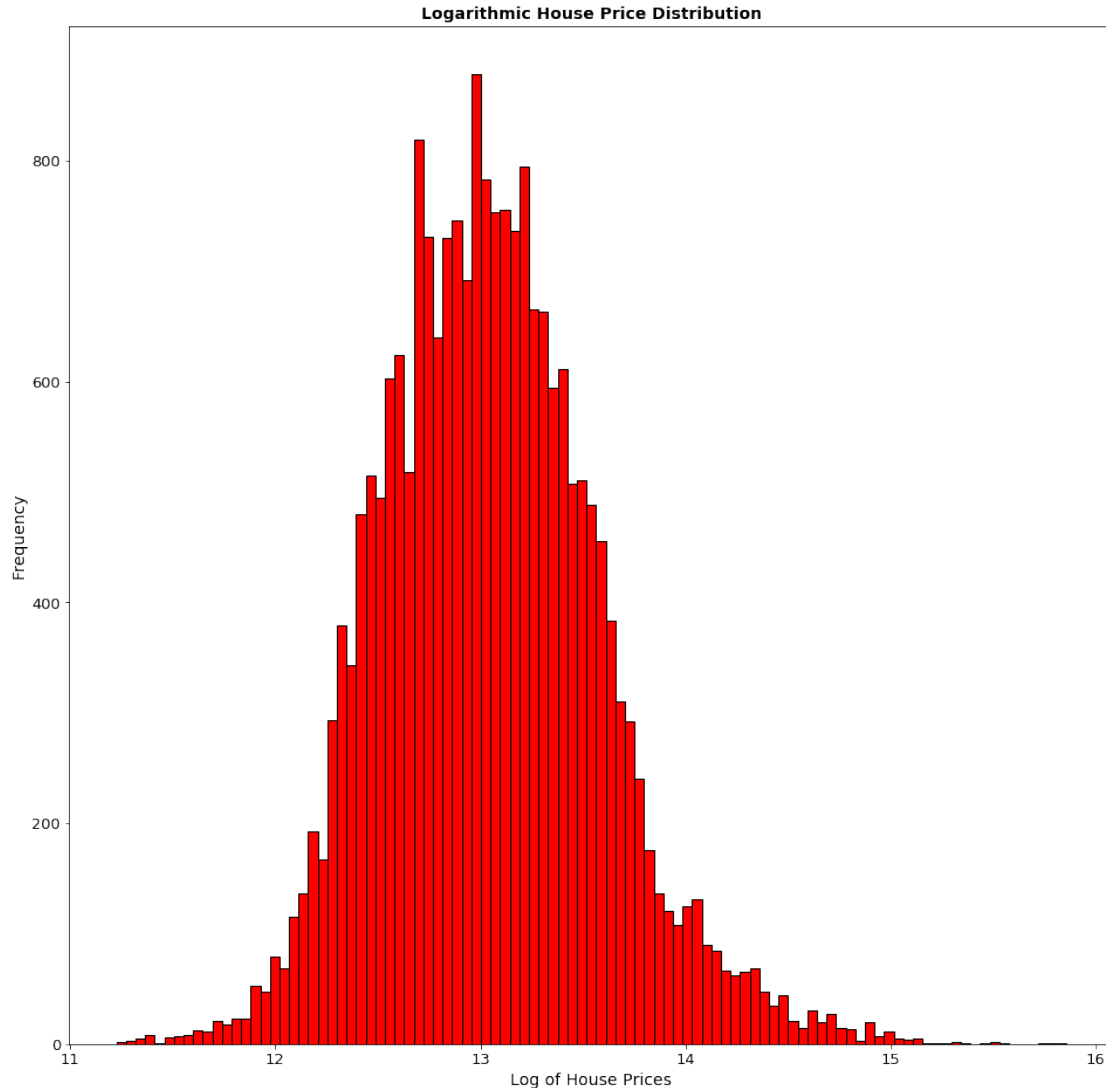
Logarithmic House Price Distribution

The statistical values along with the histogram clearly show that the prices are normally distributed with minimal skewness and most of the houses with prices 350k and 450k dollars. This provides reassurance that there will be no bias in the model as far as the house prices are concerned. The next step is to find the correlation between each feature with the price to understand the proportionalities between the two quantities which would provide useful information for *Feature Selection*. Before this, the feature **date** and **id** will be discarded from the dataset as they do not significantly (or at all) affect the price of the houses.

```
In [4]: # Drop unnecessary columns are display the updated dataset
        df = df.drop(['id', 'date'], axis = 1)
        display(df.head())
```

```
      price  bedrooms  bathrooms  sqft_living  sqft_lot  floors  waterfront  \
0  221900.0         3       1.00         1180      5650     1.0           0
1  538000.0         3       2.25         2570      7242     2.0           0
```

```
2   180000.0         2      1.00       770    10000   1.0           0
3   604000.0         4      3.00      1960     5000   1.0           0
4   510000.0         3      2.00      1680     8080   1.0           0

   view  condition  grade  sqft_above  sqft_basement  yr_built  yr_renovated  \
0     0          3      7        1180              0      1955             0
1     0          3      7        2170            400      1951          1991
2     0          3      6         770              0      1933             0
3     0          5      7        1050            910      1965             0
4     0          3      8        1680              0      1987             0

   zipcode      lat      long  sqft_living15  sqft_lot15
0    98178  47.5112  -122.257           1340        5650
1    98125  47.7210  -122.319           1690        7639
2    98028  47.7379  -122.233           2720        8062
3    98136  47.5208  -122.393           1360        5000
4    98074  47.6168  -122.045           1800        7503
```

```python
In [5]: # Correlation of all the features with the price of the house
        most_corr = df.corr()['price'].abs().sort_values(ascending = False)

        # Feature count
        F = 4

        # Retain the top 4 most correlated features with the price
        most_corr = most_corr[1:F + 1]

        '''
        Preparation of the data for the
        Stan Model (samples for convergence and predictions)
        '''
        totalSamples = 2000
        df = df.sample(n = totalSamples)

        # Store the prices in the label set
        labels = df['price']

        '''
        # Trim down the dataframe to the desired number of features
        and without the labels ('price')
        '''
        df = df.loc[:, most_corr.index]
```

As per the scope of the project and the size of the dataset, we have decided to shortlist a total of four features from the dataset with the highest magnitude of correlation values for creating our Bayesian model. As can be seen from the correlation values, the three selected features are **sqft_living**, **grade**, **sqft_above**, and **sqft_living15**. The detailed descriptions of each of these features are as follows:

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1. **sqft_living:** Square Footage of each home.
2. **grade:** Overall grade given to the housing unit based on King County grading system.
3. **sqft_above:** Square Footage of house apart from the basement.
4. **sqft_living15:** Living room area in 2015 (implies -- some renovations) This might or might not have affected the lot size area

   After selecting the best features, the dataset has been divided into a separate *training set* (all selected features) and a *test set* (list of all labels, i.e., **price**). Moreover, a subsample of the dataset roughly 10% of the original one has been extracted randomly for creating the Bayesian Model. The split ratio for train and test sets has been set to *70:30*. In addition to this, the feature dataset has been scaled using the **Standard Scaler** to ensure that the mean and variance of the feature distribution stays close to 0 and 1 respectively.

In [6]:
```python
# Create train and test splits for the features and labels
x_train, x_test, y_train, y_test = train_test_split(df, labels,
                                                    test_size = 0.1,
                                                    random_state = 42)

# Type conversion of splits
x_train = x_train.values
x_test = x_test.values
y_train = y_train.values
y_test = y_test.values

XTrain = x_train.astype(str).astype(float)
YTrain = y_train.ravel().astype(str).astype(float)
XTest = x_test.astype(str).astype(float)
YTest = y_test.ravel().astype(str).astype(float)

# Scaling of the train and test data for the model
scaler = StandardScaler()
scaler_new = StandardScaler()

XTrain_Scaled = scaler.fit_transform(XTrain)
XTest_Scaled = scaler.transform(XTest)

YTrain_Scaled = scaler_new.fit_transform(YTrain.reshape(-1, 1)).ravel()
YTest_Scaled = scaler_new.transform(YTest.reshape(-1, 1)).ravel()

# Input data for Stan model (Linear Regression)
data_linear = dict(
    tN = len(XTest_Scaled),
    N = len(XTrain_Scaled),
    F = F,
    y = YTrain_Scaled,
    x = XTrain_Scaled,
    x_test = XTest_Scaled
)
```

```python
# Input data for Stan model (Polynomial Regression)
data_poly = dict(
    tN = len(XTest_Scaled),
    N = len(XTrain_Scaled),
    F = F,
    y = YTrain_Scaled,
    x = XTrain_Scaled,
    x_2 = np.square(XTrain_Scaled),
    x_test = XTest_Scaled,
    x_test_2 = np.square(XTest_Scaled)
)
```

1.2   Bayesian Modeling

A regression model provides an equation where the *coefficients* represent the relationship between the independent variable(s), i.e., **features** and the dependent variable, i.e., the **price**. The *intercept* is the expected mean value of price if all features are equal to zero. Based upon our dataset having multiple features and a positive numbered label which is *non-categorical* and *non-ordinal*, the **linear** and **polynomial** regression models are best-suited for predicting the house prices. Our goal is to carry out a comparative analysis of the *Linear Regression* model and the *Polynomial Regression* model of **degree** 2 to find out which model is relatively appropriate for our dataset. The equation for a **linear regression model** is provided below:

$$y = \beta_0 + \beta_1 x + \varepsilon$$

Similarly, the equation for a **polynomial regression model** is provided below:

$$y = \beta_0 + \beta_1 x + \beta_2 x^2 + \varepsilon$$

As apparent from the trimmed dataset and the correlation values, there is no *hierarchy* in the data to enable us to explore **separate** and **hierarchal** models for Stan. Hence, both Stan models for *linear* and *polynomial* regression are **pooled** models [3].

For our problem, we have chosen weakly informative priors as defined in Gelman 2008. TO get the best result out of Stan, dataset instability has to be prevented, which can typically arise from bad geometry in the posterior that can cause Stan to adapt poorly and have heavy tails. Looking at the logarithmic plot of the **price**, the ideal choice is to proceed with the **weakly informative prior**. The reason behind this is the fact that the prior rules out unreasonable parameter values but is not so strong as to rule out values that might make sense. Furthermore, the loss in precision by making the prior a bit too weak is less serious than the gain in robustness by including parts of parameter space that might be relevant. As a result, the Cauchy distribution with mean 0 and a long tail is perceived to be the best choice for the problem at hand [4].

In our Stan model, we first construct the data block, which includes the *features* and *prices* of the **training set** along with their *count* and lastly, the *features* of the **test set** along with their *count*. We then initialize our parameters which in our case are the *intercept, slope values*, and the *variance*. The intercept and slope parameters are transformed into another parameter which can be considered as the **expected mean** of the price distribution.

We subsequently model the house prices as a normal sample with a mean that is the transformed parameter computed earlier.

Once the model is fitted, the parameters are then used to predict the house prices of the test set and also the log-likelihood values are generated in order to calculate the PSIS-LOO values (for performance analysis later on).

```
In [7]: # Stan models compilation (for both Linear and Polynomial Regression)
        model_linear = stan_utility.compile_model(filename = 'model_trial.stan',
                                                  model_name = 'linear')
        model_poly = stan_utility.compile_model(filename = 'model_trial_2.stan',
                                                model_name = 'polynomial')

Using cached StanModel
Using cached StanModel


In [8]: # Linear Regression model

        '''
        Model fitting with default parameters
        and displaying the results (random seed to reproduce results)
        '''
        fit_linear = model_linear.sampling(data = data_linear,
                                           seed = 194838, n_jobs = -1)
        print(fit_linear)

        '''
        # Extraction of Posterior Predictive samples
        from the model (Linear Regression)
        '''
        samples_linear = fit_linear.extract(permuted = True)

        # Ensuring that parameters to the Stan model are fine tuned
        stan_utility.check_treedepth(fit_linear)
```

```
Inference for Stan model: anon_model_23307f82cce8b5150747ec40c2ddb2a2.
4 chains, each with iter=2000; warmup=1000; thin=1;
post-warmup draws per chain=1000, total post-warmup draws=4000.
```

	mean	se_mean	sd	2.5%	25%	50%	75%	97.5%	n_eff	Rhat
intercept	-2.7e-5	2.2e-4	0.02	-0.03	-0.01	-1.7e-5	0.01	0.03	5462	1.0
theta[1]	0.53	6.1e-4	0.04	0.45	0.5	0.53	0.55	0.6	3622	1.0
theta[2]	0.35	4.1e-4	0.03	0.29	0.33	0.35	0.36	0.4	4289	1.0
theta[3]	-0.17	5.9e-4	0.04	-0.25	-0.2	-0.17	-0.15	-0.1	3823	1.0
theta[4]	0.08	3.8e-4	0.03	0.03	0.06	0.08	0.1	0.13	4416	1.0
sigma	0.68	1.5e-4	0.01	0.66	0.67	0.68	0.69	0.7	5398	1.0
y_mean[1]	-0.59	3.2e-4	0.02	-0.64	-0.61	-0.59	-0.58	-0.55	4834	1.0
y_mean[2]	-0.07	6.1e-4	0.04	-0.15	-0.1	-0.07	-0.05	5.1e-3	4059	1.0
y_mean[3]	0.14	3.8e-4	0.02	0.09	0.13	0.14	0.16	0.19	4132	1.0
y_mean[4]	-1.1	4.4e-4	0.03	-1.16	-1.12	-1.1	-1.08	-1.04	4678	1.0
y_mean[5]	0.46	6.0e-4	0.04	0.38	0.43	0.46	0.49	0.54	5013	1.0

y_mean[6]	-0.19	3.1e-4	0.02	-0.23	-0.2	-0.19	-0.17	-0.14	4968	1.0
y_mean[7]	-0.15	4.1e-4	0.03	-0.21	-0.17	-0.15	-0.14	-0.1	4759	1.0
y_mean[8]	0.06	3.3e-4	0.02	0.02	0.05	0.06	0.08	0.11	4378	1.0
y_mean[9]	2.28	9.7e-4	0.07	2.15	2.24	2.28	2.33	2.41	4534	1.0
y_mean[10]	-0.59	3.1e-4	0.02	-0.63	-0.6	-0.59	-0.57	-0.54	4934	1.0
y_mean[11]	1.7	9.3e-4	0.06	1.58	1.66	1.7	1.74	1.83	4663	1.0
y_mean[12]	0.83	5.6e-4	0.04	0.75	0.8	0.83	0.85	0.9	4792	1.0
y_mean[13]	1.01	6.9e-4	0.04	0.93	0.98	1.01	1.04	1.1	4144	1.0
y_mean[14]	0.26	4.1e-4	0.03	0.2	0.24	0.26	0.28	0.32	5073	1.0
y_mean[15]	1.73	8.6e-4	0.06	1.61	1.69	1.72	1.77	1.84	4644	1.0
y_mean[16]	-1.04	4.6e-4	0.03	-1.1	-1.06	-1.04	-1.02	-0.97	5202	1.0
y_mean[17]	-0.6	3.8e-4	0.03	-0.65	-0.61	-0.6	-0.58	-0.54	5321	1.0
y_mean[18]	1.46	7.9e-4	0.05	1.35	1.42	1.46	1.49	1.57	4592	1.0
y_mean[19]	-0.02	3.2e-4	0.02	-0.06	-0.04	-0.02	-7.4e-3	0.02	4599	1.0
y_mean[20]	-0.34	3.9e-4	0.03	-0.4	-0.36	-0.35	-0.33	-0.29	5020	1.0
y_mean[21]	0.06	3.1e-4	0.02	0.02	0.04	0.06	0.07	0.1	4484	1.0
y_mean[22]	0.07	3.2e-4	0.02	0.03	0.06	0.07	0.08	0.11	4404	1.0
y_mean[23]	-0.05	3.7e-4	0.03	-0.1	-0.07	-0.05	-0.03	-3.0e-4	4918	1.0
y_mean[24]	0.46	1.1e-3	0.07	0.31	0.4	0.46	0.51	0.6	4744	1.0
y_mean[25]	0.14	3.7e-4	0.02	0.1	0.13	0.14	0.16	0.19	4137	1.0
y_mean[26]	-0.62	3.2e-4	0.02	-0.66	-0.63	-0.62	-0.6	-0.57	5067	1.0
y_mean[27]	-0.29	2.9e-4	0.02	-0.33	-0.3	-0.29	-0.28	-0.25	5047	1.0
y_mean[28]	1.41	6.4e-4	0.04	1.33	1.38	1.41	1.44	1.49	4554	1.0
y_mean[29]	-0.65	3.3e-4	0.02	-0.69	-0.66	-0.65	-0.63	-0.6	4962	1.0
y_mean[30]	0.06	7.5e-4	0.05	-0.04	0.03	0.06	0.09	0.16	4046	1.0
y_mean[31]	0.51	6.6e-4	0.04	0.43	0.48	0.51	0.54	0.59	3927	1.0
y_mean[32]	-0.35	3.3e-4	0.02	-0.39	-0.36	-0.35	-0.33	-0.3	4901	1.0
y_mean[33]	1.53	6.9e-4	0.05	1.44	1.5	1.53	1.56	1.62	4612	1.0
y_mean[34]	-0.19	4.2e-4	0.03	-0.25	-0.21	-0.2	-0.18	-0.14	4824	1.0
y_mean[35]	-0.58	3.4e-4	0.02	-0.63	-0.6	-0.58	-0.56	-0.53	5302	1.0
y_mean[36]	-0.03	5.7e-4	0.04	-0.1	-0.05	-0.03	-2.5e-3	0.05	4503	1.0
y_mean[37]	0.03	3.3e-4	0.02	-0.02	0.01	0.03	0.04	0.08	5118	1.0
y_mean[38]	1.8	9.0e-4	0.06	1.68	1.76	1.8	1.84	1.92	4745	1.0
y_mean[39]	-0.23	4.9e-4	0.03	-0.29	-0.25	-0.23	-0.21	-0.17	4156	1.0
y_mean[40]	-0.27	4.6e-4	0.03	-0.34	-0.29	-0.27	-0.25	-0.21	4944	1.0
y_mean[41]	-0.13	3.5e-4	0.02	-0.18	-0.15	-0.13	-0.11	-0.08	4877	1.0
y_mean[42]	-0.5	3.2e-4	0.02	-0.54	-0.51	-0.5	-0.48	-0.45	4566	1.0
y_mean[43]	-1.23	5.0e-4	0.04	-1.3	-1.25	-1.23	-1.2	-1.16	5168	1.0
y_mean[44]	0.6	4.2e-4	0.03	0.54	0.58	0.6	0.62	0.65	4628	1.0
y_mean[45]	0.27	3.9e-4	0.03	0.22	0.26	0.27	0.29	0.33	4661	1.0
y_mean[46]	-0.55	3.1e-4	0.02	-0.59	-0.56	-0.55	-0.53	-0.51	5235	1.0
y_mean[47]	-0.33	3.8e-4	0.03	-0.38	-0.35	-0.33	-0.31	-0.28	4641	1.0
y_mean[48]	1.37	8.3e-4	0.06	1.25	1.33	1.37	1.41	1.49	5101	1.0
y_mean[49]	-0.9	5.0e-4	0.03	-0.97	-0.92	-0.9	-0.88	-0.84	4275	1.0
y_mean[50]	0.1	3.5e-4	0.02	0.05	0.08	0.1	0.12	0.15	4674	1.0
y_mean[51]	-0.62	4.0e-4	0.03	-0.68	-0.64	-0.62	-0.6	-0.57	5277	1.0
y_mean[52]	-0.41	4.6e-4	0.03	-0.46	-0.43	-0.41	-0.39	-0.35	4052	1.0
y_mean[53]	0.06	4.2e-4	0.03	-2.4e-3	0.04	0.06	0.08	0.12	5047	1.0

y_mean[54]	1.21	6.3e-4	0.04	1.13	1.18	1.21	1.24	1.3	4549	1.0
y_mean[55]	-0.16	5.2e-4	0.04	-0.23	-0.18	-0.16	-0.14	-0.09	4921	1.0
y_mean[56]	1.05	7.8e-4	0.05	0.94	1.01	1.04	1.08	1.15	4153	1.0
y_mean[57]	-0.4	5.9e-4	0.04	-0.48	-0.43	-0.4	-0.37	-0.32	4724	1.0
y_mean[58]	-0.26	4.7e-4	0.03	-0.32	-0.28	-0.27	-0.25	-0.2	3994	1.0
y_mean[59]	-0.32	4.9e-4	0.03	-0.38	-0.34	-0.32	-0.3	-0.25	4827	1.0
y_mean[60]	1.1	5.9e-4	0.04	1.02	1.07	1.1	1.13	1.18	4668	1.0
y_mean[61]	1.31	6.2e-4	0.04	1.22	1.28	1.31	1.33	1.39	4487	1.0
y_mean[62]	-0.88	5.3e-4	0.04	-0.95	-0.9	-0.88	-0.85	-0.81	4884	1.0
y_mean[63]	-0.72	4.0e-4	0.03	-0.78	-0.74	-0.72	-0.7	-0.67	5109	1.0
y_mean[64]	0.67	5.0e-4	0.03	0.61	0.65	0.67	0.69	0.74	4357	1.0
y_mean[65]	1.17	6.2e-4	0.04	1.09	1.14	1.17	1.2	1.25	4591	1.0
y_mean[66]	-1.1	4.8e-4	0.03	-1.16	-1.12	-1.1	-1.08	-1.04	4499	1.0
y_mean[67]	0.06	3.6e-4	0.02	0.01	0.05	0.06	0.08	0.11	4703	1.0
y_mean[68]	1.65	8.6e-4	0.06	1.53	1.61	1.65	1.69	1.77	4940	1.0
y_mean[69]	0.06	3.3e-4	0.02	0.02	0.05	0.06	0.08	0.1	4367	1.0
y_mean[70]	0.16	3.6e-4	0.03	0.11	0.15	0.16	0.18	0.21	5091	1.0
y_mean[71]	-1.13	4.3e-4	0.03	-1.19	-1.15	-1.13	-1.11	-1.07	5086	1.0
y_mean[72]	-0.54	3.4e-4	0.02	-0.58	-0.55	-0.54	-0.52	-0.49	4472	1.0
y_mean[73]	-0.4	4.1e-4	0.03	-0.45	-0.42	-0.4	-0.38	-0.34	5221	1.0
y_mean[74]	-0.13	3.7e-4	0.03	-0.18	-0.15	-0.13	-0.11	-0.08	4765	1.0
y_mean[75]	0.73	5.9e-4	0.04	0.65	0.7	0.73	0.75	0.8	3960	1.0
y_mean[76]	0.34	4.2e-4	0.03	0.28	0.32	0.34	0.36	0.4	4889	1.0
y_mean[77]	1.99	8.6e-4	0.06	1.88	1.95	1.99	2.03	2.1	4515	1.0
y_mean[78]	-0.3	4.0e-4	0.03	-0.35	-0.32	-0.3	-0.28	-0.25	4333	1.0
y_mean[79]	-0.13	6.4e-4	0.04	-0.22	-0.16	-0.13	-0.1	-0.05	4746	1.0
y_mean[80]	-1.13	4.4e-4	0.03	-1.19	-1.16	-1.13	-1.11	-1.07	5112	1.0
y_mean[81]	0.02	4.3e-4	0.03	-0.04	-2.5e-3	0.02	0.04	0.07	4341	1.0
y_mean[82]	0.76	5.1e-4	0.03	0.69	0.73	0.76	0.78	0.82	4274	1.0
y_mean[83]	-0.73	4.5e-4	0.03	-0.79	-0.75	-0.73	-0.71	-0.67	4902	1.0
y_mean[84]	0.96	8.0e-4	0.05	0.87	0.93	0.96	1.0	1.06	4128	1.0
y_mean[85]	0.74	6.6e-4	0.04	0.66	0.71	0.74	0.77	0.82	4141	1.0
y_mean[86]	1.51	1.0e-3	0.06	1.39	1.47	1.51	1.55	1.63	3644	1.0
y_mean[87]	-1.04	9.2e-4	0.06	-1.16	-1.08	-1.04	-1.0	-0.93	4252	1.0
y_mean[88]	-0.27	3.9e-4	0.03	-0.32	-0.29	-0.27	-0.25	-0.21	5099	1.0
y_mean[89]	-0.14	6.4e-4	0.04	-0.22	-0.16	-0.14	-0.11	-0.06	3902	1.0
y_mean[90]	-1.03	4.1e-4	0.03	-1.08	-1.05	-1.03	-1.01	-0.97	4886	1.0
y_mean[91]	-0.46	3.3e-4	0.02	-0.5	-0.47	-0.46	-0.44	-0.41	5245	1.0
y_mean[92]	0.75	4.5e-4	0.03	0.69	0.73	0.75	0.77	0.81	4733	1.0
y_mean[93]	0.34	7.4e-4	0.05	0.24	0.31	0.34	0.38	0.44	4707	1.0
y_mean[94]	-0.85	5.9e-4	0.04	-0.93	-0.88	-0.85	-0.82	-0.77	4915	1.0
y_mean[95]	-0.62	3.4e-4	0.02	-0.66	-0.63	-0.62	-0.6	-0.57	5227	1.0
y_mean[96]	-0.13	5.1e-4	0.03	-0.19	-0.15	-0.13	-0.1	-0.06	4648	1.0
y_mean[97]	-0.67	4.0e-4	0.03	-0.72	-0.69	-0.67	-0.65	-0.61	4670	1.0
y_mean[98]	0.23	3.6e-4	0.02	0.18	0.21	0.23	0.24	0.27	4466	1.0
y_mean[99]	0.56	5.7e-4	0.04	0.48	0.53	0.56	0.58	0.64	4923	1.0
y_mean[100]	0.19	7.1e-4	0.05	0.09	0.16	0.19	0.22	0.28	4511	1.0
y_mean[101]	0.49	4.5e-4	0.03	0.43	0.47	0.49	0.51	0.55	4669	1.0

y_mean[102]	-0.04	4.1e-4	0.03	-0.09	-0.05	-0.04	-0.02	0.02	4912	1.0
y_mean[103]	-1.05	4.3e-4	0.03	-1.11	-1.07	-1.05	-1.03	-0.99	4861	1.0
y_mean[104]	0.18	6.7e-4	0.04	0.09	0.15	0.18	0.21	0.26	4050	1.0
y_mean[105]	0.22	8.8e-4	0.06	0.1	0.18	0.22	0.25	0.33	4204	1.0
y_mean[106]	-0.32	4.3e-4	0.03	-0.38	-0.34	-0.32	-0.31	-0.27	4205	1.0
y_mean[107]	-0.43	2.9e-4	0.02	-0.47	-0.44	-0.43	-0.41	-0.39	5087	1.0
y_mean[108]	-0.46	3.1e-4	0.02	-0.5	-0.48	-0.46	-0.45	-0.42	5000	1.0
y_mean[109]	-1.13	4.8e-4	0.03	-1.19	-1.15	-1.13	-1.11	-1.06	4547	1.0
y_mean[110]	-0.1	3.7e-4	0.03	-0.15	-0.11	-0.1	-0.08	-0.05	4865	1.0
y_mean[111]	0.3	5.2e-4	0.04	0.23	0.28	0.3	0.33	0.38	4780	1.0
y_mean[112]	-0.75	5.2e-4	0.03	-0.81	-0.77	-0.75	-0.73	-0.68	4366	1.0
y_mean[113]	-0.48	3.6e-4	0.02	-0.53	-0.5	-0.48	-0.46	-0.43	4701	1.0
y_mean[114]	1.37	9.3e-4	0.07	1.24	1.32	1.37	1.41	1.5	5123	1.0
y_mean[115]	0.24	3.8e-4	0.02	0.2	0.23	0.24	0.26	0.29	4200	1.0
y_mean[116]	0.34	5.2e-4	0.03	0.27	0.32	0.34	0.36	0.4	3986	1.0
y_mean[117]	-0.45	8.0e-4	0.05	-0.55	-0.48	-0.45	-0.41	-0.35	4075	1.0
y_mean[118]	-0.86	5.1e-4	0.03	-0.93	-0.89	-0.86	-0.84	-0.8	4308	1.0
y_mean[119]	-0.12	4.4e-4	0.03	-0.18	-0.14	-0.12	-0.1	-0.06	4420	1.0
y_mean[120]	0.74	5.1e-4	0.03	0.67	0.72	0.74	0.76	0.8	4281	1.0
y_mean[121]	-0.44	2.8e-4	0.02	-0.48	-0.45	-0.44	-0.42	-0.4	5140	1.0
y_mean[122]	-0.88	5.2e-4	0.04	-0.95	-0.91	-0.88	-0.86	-0.81	4819	1.0
y_mean[123]	-0.19	5.7e-4	0.04	-0.26	-0.21	-0.19	-0.16	-0.12	3858	1.0
y_mean[124]	0.73	7.9e-4	0.05	0.62	0.69	0.73	0.76	0.83	4550	1.0
y_mean[125]	-1.51	6.2e-4	0.04	-1.59	-1.54	-1.51	-1.48	-1.43	4660	1.0
y_mean[126]	0.68	6.7e-4	0.04	0.59	0.65	0.68	0.71	0.76	4122	1.0
y_mean[127]	-0.58	3.1e-4	0.02	-0.62	-0.6	-0.58	-0.57	-0.54	5113	1.0
y_mean[128]	-0.5	4.3e-4	0.03	-0.56	-0.52	-0.5	-0.48	-0.45	5067	1.0
y_mean[129]	-0.62	3.2e-4	0.02	-0.66	-0.63	-0.62	-0.6	-0.57	4916	1.0
y_mean[130]	-0.07	4.1e-4	0.03	-0.12	-0.09	-0.07	-0.05	-0.02	4521	1.0
y_mean[131]	0.05	3.0e-4	0.02	7.6e-3	0.03	0.05	0.06	0.09	4793	1.0
y_mean[132]	1.78	8.6e-4	0.06	1.67	1.74	1.78	1.82	1.9	4607	1.0
y_mean[133]	-0.44	3.4e-4	0.02	-0.49	-0.46	-0.44	-0.43	-0.39	5156	1.0
y_mean[134]	-0.65	3.3e-4	0.02	-0.69	-0.66	-0.65	-0.63	-0.6	4937	1.0
y_mean[135]	-0.74	3.8e-4	0.03	-0.79	-0.76	-0.74	-0.72	-0.69	5020	1.0
y_mean[136]	-0.65	3.3e-4	0.02	-0.7	-0.67	-0.65	-0.63	-0.6	5129	1.0
y_mean[137]	-0.88	5.9e-4	0.04	-0.95	-0.91	-0.88	-0.86	-0.81	3970	1.0
y_mean[138]	0.3	2.7e-4	0.02	0.26	0.28	0.3	0.31	0.33	5108	1.0
y_mean[139]	0.17	8.2e-4	0.05	0.06	0.13	0.17	0.2	0.27	4225	1.0
y_mean[140]	-0.71	3.6e-4	0.03	-0.76	-0.73	-0.71	-0.69	-0.66	4978	1.0
y_mean[141]	-0.65	3.3e-4	0.02	-0.69	-0.66	-0.65	-0.63	-0.6	5143	1.0
y_mean[142]	-0.2	4.8e-4	0.03	-0.26	-0.22	-0.2	-0.18	-0.14	4646	1.0
y_mean[143]	-0.41	3.1e-4	0.02	-0.45	-0.42	-0.41	-0.39	-0.37	5030	1.0
y_mean[144]	-0.11	4.1e-4	0.03	-0.17	-0.13	-0.11	-0.09	-0.06	4408	1.0
y_mean[145]	-0.06	5.9e-4	0.04	-0.14	-0.09	-0.06	-0.04	0.01	4100	1.0
y_mean[146]	0.97	4.4e-4	0.03	0.91	0.95	0.97	0.99	1.03	4903	1.0
y_mean[147]	0.09	3.1e-4	0.02	0.04	0.07	0.09	0.1	0.13	4941	1.0
y_mean[148]	-0.25	4.5e-4	0.03	-0.32	-0.28	-0.25	-0.23	-0.19	4848	1.0
y_mean[149]	1.12	5.4e-4	0.03	1.05	1.1	1.12	1.14	1.19	4123	1.0

y_mean[150]	-0.46	3.6e-4	0.02	-0.51	-0.48	-0.46	-0.44	-0.41	4636	1.0
y_mean[151]	0.22	4.3e-4	0.03	0.17	0.21	0.22	0.24	0.28	4509	1.0
y_mean[152]	-0.33	3.8e-4	0.02	-0.38	-0.35	-0.33	-0.32	-0.28	4395	1.0
y_mean[153]	-0.36	4.3e-4	0.03	-0.41	-0.38	-0.36	-0.34	-0.3	3988	1.0
y_mean[154]	0.88	7.8e-4	0.05	0.78	0.85	0.88	0.91	0.98	3870	1.0
y_mean[155]	-0.37	3.5e-4	0.02	-0.42	-0.39	-0.37	-0.36	-0.32	4779	1.0
y_mean[156]	-0.07	3.5e-4	0.02	-0.12	-0.09	-0.07	-0.05	-0.02	4647	1.0
y_mean[157]	-1.11	4.3e-4	0.03	-1.17	-1.13	-1.11	-1.09	-1.05	4779	1.0
y_mean[158]	0.82	5.1e-4	0.03	0.76	0.8	0.82	0.85	0.89	4284	1.0
y_mean[159]	0.36	4.0e-4	0.03	0.31	0.35	0.37	0.38	0.42	4305	1.0
y_mean[160]	-0.46	3.3e-4	0.02	-0.5	-0.47	-0.46	-0.44	-0.41	4405	1.0
y_mean[161]	0.29	3.3e-4	0.02	0.24	0.27	0.29	0.3	0.33	5079	1.0
y_mean[162]	-0.31	5.7e-4	0.04	-0.39	-0.34	-0.31	-0.28	-0.23	4607	1.0
y_mean[163]	1.17	8.8e-4	0.06	1.07	1.14	1.17	1.21	1.28	4044	1.0
y_mean[164]	-0.29	2.7e-4	0.02	-0.33	-0.31	-0.29	-0.28	-0.26	5155	1.0
y_mean[165]	0.03	4.6e-4	0.03	-0.04	4.4e-3	0.03	0.05	0.09	5201	1.0
y_mean[166]	0.79	4.8e-4	0.03	0.73	0.77	0.79	0.81	0.85	4359	1.0
y_mean[167]	0.19	6.6e-4	0.04	0.11	0.16	0.19	0.22	0.27	4086	1.0
y_mean[168]	1.42	1.0e-3	0.07	1.29	1.37	1.42	1.47	1.56	4547	1.0
y_mean[169]	0.57	5.8e-4	0.04	0.5	0.54	0.57	0.59	0.64	3781	1.0
y_mean[170]	0.67	4.4e-4	0.03	0.61	0.65	0.67	0.69	0.73	4445	1.0
y_mean[171]	-1.03	4.3e-4	0.03	-1.09	-1.05	-1.03	-1.01	-0.98	4701	1.0
y_mean[172]	0.55	6.3e-4	0.04	0.47	0.52	0.55	0.58	0.63	4320	1.0
y_mean[173]	-0.38	5.4e-4	0.03	-0.45	-0.41	-0.38	-0.36	-0.32	3968	1.0
y_mean[174]	-0.04	4.2e-4	0.03	-0.1	-0.06	-0.04	-0.02	0.02	4753	1.0
y_mean[175]	-0.18	5.0e-4	0.03	-0.25	-0.2	-0.18	-0.16	-0.12	4192	1.0
y_mean[176]	-0.14	3.5e-4	0.02	-0.19	-0.16	-0.14	-0.12	-0.09	4884	1.0
y_mean[177]	-0.46	3.3e-4	0.02	-0.51	-0.48	-0.46	-0.45	-0.42	5105	1.0
y_mean[178]	0.92	5.3e-4	0.04	0.85	0.9	0.92	0.94	0.99	4393	1.0
y_mean[179]	0.62	10.0e-4	0.07	0.48	0.57	0.62	0.67	0.76	4961	1.0
y_mean[180]	0.1	3.7e-4	0.02	0.05	0.08	0.1	0.11	0.15	4195	1.0
y_mean[181]	-0.16	3.1e-4	0.02	-0.21	-0.18	-0.16	-0.15	-0.12	5065	1.0
y_mean[182]	-1.04	4.7e-4	0.03	-1.1	-1.06	-1.04	-1.02	-0.97	5247	1.0
y_mean[183]	0.52	5.3e-4	0.03	0.45	0.49	0.52	0.54	0.58	3979	1.0
y_mean[184]	0.77	5.2e-4	0.03	0.7	0.74	0.77	0.79	0.83	4259	1.0
y_mean[185]	-1.09	5.4e-4	0.04	-1.16	-1.11	-1.09	-1.07	-1.02	4380	1.0
y_mean[186]	0.64	4.2e-4	0.03	0.59	0.62	0.64	0.66	0.7	4552	1.0
y_mean[187]	-0.67	3.3e-4	0.02	-0.71	-0.68	-0.67	-0.65	-0.62	5006	1.0
y_mean[188]	-0.21	4.0e-4	0.03	-0.26	-0.22	-0.21	-0.19	-0.15	4895	1.0
y_mean[189]	-0.74	4.0e-4	0.03	-0.8	-0.76	-0.74	-0.72	-0.69	4862	1.0
y_mean[190]	0.05	6.4e-4	0.04	-0.03	0.02	0.05	0.08	0.13	3858	1.0
y_mean[191]	0.27	3.9e-4	0.03	0.22	0.25	0.27	0.29	0.32	4714	1.0
y_mean[192]	0.14	3.3e-4	0.02	0.1	0.13	0.14	0.16	0.19	4882	1.0
y_mean[193]	1.79	1.0e-3	0.07	1.66	1.75	1.79	1.84	1.93	4553	1.0
y_mean[194]	0.14	4.7e-4	0.03	0.08	0.12	0.14	0.16	0.2	4320	1.0
y_mean[195]	8.1e-4	5.3e-4	0.03	-0.07	-0.02	1.5e-3	0.02	0.07	4171	1.0
y_mean[196]	1.58	8.4e-4	0.06	1.47	1.54	1.58	1.62	1.7	4761	1.0
y_mean[197]	-0.15	5.9e-4	0.04	-0.22	-0.17	-0.15	-0.12	-0.07	3942	1.0

y_mean[198]	0.27	4.4e-4	0.03	0.21	0.25	0.27	0.29	0.32	4018	1.0
y_mean[199]	-0.91	4.7e-4	0.03	-0.98	-0.94	-0.91	-0.89	-0.85	4661	1.0
y_mean[200]	1.42	8.3e-4	0.06	1.31	1.39	1.42	1.46	1.53	4389	1.0
y_mean[201]	-0.51	3.1e-4	0.02	-0.56	-0.53	-0.51	-0.5	-0.47	5120	1.0
y_mean[202]	0.83	6.6e-4	0.04	0.75	0.8	0.83	0.86	0.92	3987	1.0
y_mean[203]	1.59	7.3e-4	0.05	1.49	1.56	1.59	1.62	1.69	4932	1.0
y_mean[204]	-0.28	4.5e-4	0.03	-0.34	-0.3	-0.28	-0.26	-0.22	4963	1.0
y_mean[205]	-0.26	4.9e-4	0.03	-0.32	-0.28	-0.26	-0.24	-0.19	3953	1.0
y_mean[206]	-0.6	3.3e-4	0.02	-0.64	-0.61	-0.6	-0.58	-0.55	5221	1.0
y_mean[207]	-0.18	3.8e-4	0.03	-0.23	-0.19	-0.18	-0.16	-0.13	4873	1.0
y_mean[208]	0.15	3.9e-4	0.03	0.1	0.13	0.15	0.17	0.2	4306	1.0
y_mean[209]	-1.0	4.5e-4	0.03	-1.06	-1.02	-1.0	-0.98	-0.94	4915	1.0
y_mean[210]	0.54	7.2e-4	0.04	0.46	0.51	0.54	0.57	0.63	3677	1.0
y_mean[211]	0.64	8.9e-4	0.06	0.52	0.59	0.64	0.68	0.76	4966	1.0
y_mean[212]	0.1	2.9e-4	0.02	0.06	0.09	0.1	0.12	0.14	4903	1.0
y_mean[213]	-0.51	3.6e-4	0.03	-0.56	-0.53	-0.51	-0.5	-0.46	5391	1.0
y_mean[214]	-0.37	3.5e-4	0.02	-0.42	-0.39	-0.37	-0.36	-0.33	4515	1.0
y_mean[215]	0.95	8.2e-4	0.06	0.85	0.92	0.95	0.99	1.06	4568	1.0
y_mean[216]	1.94	1.1e-3	0.08	1.8	1.89	1.94	2.0	2.1	5080	1.0
y_mean[217]	-0.35	3.6e-4	0.02	-0.4	-0.37	-0.35	-0.34	-0.3	4571	1.0
y_mean[218]	0.85	5.5e-4	0.04	0.78	0.83	0.85	0.87	0.92	4222	1.0
y_mean[219]	-0.11	5.9e-4	0.04	-0.2	-0.14	-0.11	-0.09	-0.03	4844	1.0
y_mean[220]	-0.77	4.7e-4	0.03	-0.84	-0.79	-0.77	-0.75	-0.71	5167	1.0
y_mean[221]	0.42	7.9e-4	0.05	0.32	0.38	0.42	0.45	0.52	4261	1.0
y_mean[222]	-0.67	3.9e-4	0.03	-0.72	-0.69	-0.67	-0.65	-0.61	5202	1.0
y_mean[223]	-0.38	3.5e-4	0.02	-0.42	-0.39	-0.38	-0.36	-0.33	4532	1.0
y_mean[224]	0.8	8.6e-4	0.06	0.68	0.76	0.8	0.84	0.92	4880	1.0
y_mean[225]	-0.22	3.7e-4	0.02	-0.26	-0.23	-0.22	-0.2	-0.17	4584	1.0
y_mean[226]	1.51	6.8e-4	0.05	1.42	1.47	1.51	1.54	1.6	4554	1.0
y_mean[227]	-0.1	4.2e-4	0.03	-0.15	-0.11	-0.1	-0.08	-0.04	4328	1.0
y_mean[228]	-0.82	5.8e-4	0.04	-0.89	-0.85	-0.82	-0.8	-0.75	3973	1.0
y_mean[229]	1.96	1.2e-3	0.08	1.79	1.9	1.96	2.02	2.13	4899	1.0
y_mean[230]	-0.07	5.3e-4	0.04	-0.14	-0.09	-0.07	-0.04	6.3e-3	4526	1.0
y_mean[231]	-5.3e-3	5.6e-4	0.04	-0.08	-0.03	-5.9e-3	0.02	0.06	3964	1.0
y_mean[232]	-0.56	3.2e-4	0.02	-0.6	-0.58	-0.56	-0.55	-0.52	4643	1.0
y_mean[233]	-0.5	3.1e-4	0.02	-0.54	-0.51	-0.5	-0.48	-0.45	4732	1.0
y_mean[234]	0.48	6.2e-4	0.04	0.4	0.45	0.48	0.51	0.56	4428	1.0
y_mean[235]	-0.87	5.8e-4	0.04	-0.94	-0.89	-0.87	-0.84	-0.8	3993	1.0
y_mean[236]	-0.44	2.9e-4	0.02	-0.48	-0.45	-0.44	-0.43	-0.4	5170	1.0
y_mean[237]	-0.6	3.1e-4	0.02	-0.64	-0.62	-0.6	-0.59	-0.56	5044	1.0
y_mean[238]	0.65	4.3e-4	0.03	0.59	0.63	0.65	0.67	0.71	4884	1.0
y_mean[239]	-0.94	4.2e-4	0.03	-0.99	-0.96	-0.94	-0.92	-0.88	5045	1.0
y_mean[240]	0.36	4.6e-4	0.03	0.29	0.33	0.36	0.38	0.42	4758	1.0
y_mean[241]	-0.61	3.2e-4	0.02	-0.66	-0.63	-0.62	-0.6	-0.57	4905	1.0
y_mean[242]	-0.96	4.6e-4	0.03	-1.02	-0.98	-0.96	-0.94	-0.89	4947	1.0
y_mean[243]	0.22	4.1e-4	0.03	0.17	0.2	0.22	0.24	0.27	4076	1.0
y_mean[244]	-0.27	5.5e-4	0.04	-0.34	-0.29	-0.27	-0.25	-0.2	4089	1.0
y_mean[245]	-0.31	4.8e-4	0.03	-0.37	-0.33	-0.31	-0.28	-0.24	4893	1.0

y_mean[246]	-0.92	4.9e-4	0.03	-0.99	-0.95	-0.92	-0.9	-0.86	4886	1.0
y_mean[247]	-0.92	4.7e-4	0.03	-0.98	-0.94	-0.92	-0.9	-0.86	4728	1.0
y_mean[248]	-0.03	5.9e-4	0.04	-0.1	-0.06	-0.03	-6.9e-3	0.04	3890	1.0
y_mean[249]	0.06	6.0e-4	0.04	-0.02	0.03	0.05	0.08	0.13	4199	1.0
y_mean[250]	-0.56	4.1e-4	0.03	-0.62	-0.58	-0.56	-0.54	-0.51	4370	1.0
y_mean[251]	-0.69	5.0e-4	0.03	-0.76	-0.71	-0.69	-0.67	-0.62	4738	1.0
y_mean[252]	0.35	4.3e-4	0.03	0.29	0.33	0.35	0.37	0.4	4310	1.0
y_mean[253]	0.06	4.1e-4	0.03	0.01	0.04	0.06	0.08	0.12	4239	1.0
y_mean[254]	-0.56	3.1e-4	0.02	-0.61	-0.58	-0.57	-0.55	-0.52	5125	1.0
y_mean[255]	-0.25	5.1e-4	0.04	-0.32	-0.28	-0.25	-0.23	-0.18	4759	1.0
y_mean[256]	1.1	9.3e-4	0.07	0.97	1.05	1.1	1.15	1.23	5172	1.0
y_mean[257]	-0.7	3.6e-4	0.03	-0.75	-0.72	-0.7	-0.69	-0.65	5089	1.0
y_mean[258]	0.33	2.5e-4	0.02	0.29	0.31	0.33	0.34	0.36	5139	1.0
y_mean[259]	0.47	3.7e-4	0.02	0.42	0.45	0.47	0.49	0.52	4300	1.0
y_mean[260]	0.61	4.2e-4	0.03	0.55	0.59	0.61	0.63	0.66	4766	1.0
y_mean[261]	0.28	6.7e-4	0.04	0.19	0.25	0.28	0.3	0.36	4045	1.0
y_mean[262]	-0.64	3.8e-4	0.03	-0.7	-0.66	-0.64	-0.62	-0.59	5245	1.0
y_mean[263]	1.62	8.6e-4	0.06	1.5	1.58	1.61	1.66	1.74	4971	1.0
y_mean[264]	-0.33	6.6e-4	0.05	-0.42	-0.36	-0.33	-0.3	-0.24	4825	1.0
y_mean[265]	0.34	5.2e-4	0.03	0.27	0.32	0.34	0.36	0.4	3995	1.0
y_mean[266]	-0.48	3.3e-4	0.02	-0.52	-0.5	-0.48	-0.47	-0.44	4394	1.0
y_mean[267]	-1.09	4.4e-4	0.03	-1.14	-1.11	-1.09	-1.07	-1.03	4657	1.0
y_mean[268]	-0.67	3.6e-4	0.03	-0.72	-0.69	-0.67	-0.66	-0.62	5173	1.0
y_mean[269]	3.66	1.3e-3	0.09	3.5	3.6	3.66	3.72	3.83	4546	1.0
y_mean[270]	-0.48	3.3e-4	0.02	-0.53	-0.5	-0.48	-0.47	-0.43	5262	1.0
y_mean[271]	1.02	7.0e-4	0.04	0.93	0.99	1.02	1.05	1.11	4138	1.0
y_mean[272]	-0.5	4.2e-4	0.03	-0.56	-0.52	-0.5	-0.48	-0.44	4452	1.0
y_mean[273]	-0.75	4.1e-4	0.03	-0.8	-0.77	-0.75	-0.73	-0.69	5073	1.0
y_mean[274]	-0.54	4.7e-4	0.03	-0.6	-0.56	-0.54	-0.52	-0.48	4362	1.0
y_mean[275]	0.68	4.5e-4	0.03	0.62	0.66	0.68	0.7	0.74	4410	1.0
y_mean[276]	-0.51	3.0e-4	0.02	-0.55	-0.52	-0.51	-0.49	-0.47	5345	1.0
y_mean[277]	-0.04	3.1e-4	0.02	-0.08	-0.06	-0.04	-0.03	1.6e-4	4861	1.0
y_mean[278]	0.1	4.2e-4	0.03	0.04	0.08	0.1	0.12	0.15	4372	1.0
y_mean[279]	0.42	5.5e-4	0.04	0.35	0.39	0.42	0.44	0.49	4062	1.0
y_mean[280]	-0.27	4.6e-4	0.03	-0.33	-0.29	-0.27	-0.25	-0.21	4839	1.0
y_mean[281]	-1.1	4.3e-4	0.03	-1.16	-1.12	-1.1	-1.08	-1.04	4758	1.0
y_mean[282]	-0.19	4.2e-4	0.03	-0.25	-0.21	-0.19	-0.18	-0.14	4359	1.0
y_mean[283]	-0.22	4.2e-4	0.03	-0.27	-0.24	-0.22	-0.2	-0.16	4886	1.0
y_mean[284]	-0.3	5.8e-4	0.04	-0.38	-0.33	-0.3	-0.27	-0.22	4851	1.0
y_mean[285]	-0.73	3.7e-4	0.03	-0.78	-0.75	-0.73	-0.72	-0.68	4992	1.0
y_mean[286]	-0.01	6.7e-4	0.04	-0.1	-0.04	-0.01	0.01	0.07	4048	1.0
y_mean[287]	-0.33	3.6e-4	0.03	-0.38	-0.34	-0.33	-0.31	-0.28	4952	1.0
y_mean[288]	-0.27	4.9e-4	0.03	-0.33	-0.29	-0.27	-0.25	-0.21	3952	1.0
y_mean[289]	-0.66	3.3e-4	0.02	-0.7	-0.68	-0.66	-0.64	-0.61	5000	1.0
y_mean[290]	-1.08	4.2e-4	0.03	-1.14	-1.1	-1.08	-1.06	-1.02	4966	1.0
y_mean[291]	-1.58	6.7e-4	0.04	-1.67	-1.61	-1.58	-1.55	-1.49	4453	1.0
y_mean[292]	-0.19	4.0e-4	0.03	-0.24	-0.21	-0.19	-0.17	-0.13	4839	1.0
y_mean[293]	0.16	6.8e-4	0.04	0.07	0.13	0.16	0.18	0.24	4105	1.0

y_mean[294]	0.84	5.4e-4	0.04	0.78	0.82	0.85	0.87	0.91	4226	1.0
y_mean[295]	-0.81	4.2e-4	0.03	-0.87	-0.83	-0.81	-0.79	-0.75	4982	1.0
y_mean[296]	-0.83	4.4e-4	0.03	-0.89	-0.85	-0.83	-0.81	-0.76	4941	1.0
y_mean[297]	-0.02	5.6e-4	0.04	-0.09	-0.05	-0.02	8.0e-4	0.05	4079	1.0
y_mean[298]	0.1	3.5e-4	0.03	0.05	0.09	0.1	0.12	0.16	5181	1.0
y_mean[299]	-0.36	4.7e-4	0.03	-0.43	-0.39	-0.36	-0.34	-0.3	4473	1.0
y_mean[300]	-1.06	4.4e-4	0.03	-1.11	-1.08	-1.06	-1.04	-1.0	4628	1.0
y_mean[301]	0.31	7.4e-4	0.05	0.21	0.28	0.31	0.34	0.41	4381	1.0
y_mean[302]	0.5	8.9e-4	0.06	0.4	0.47	0.51	0.54	0.62	4010	1.0
y_mean[303]	-0.16	4.1e-4	0.03	-0.21	-0.17	-0.16	-0.14	-0.1	4397	1.0
y_mean[304]	1.11	8.7e-4	0.06	1.0	1.07	1.11	1.15	1.23	4798	1.0
y_mean[305]	0.62	8.9e-4	0.05	0.51	0.58	0.62	0.65	0.72	3566	1.0
y_mean[306]	0.09	4.2e-4	0.03	0.03	0.07	0.09	0.11	0.15	5267	1.0
y_mean[307]	0.13	3.3e-4	0.02	0.09	0.12	0.13	0.15	0.17	4383	1.0
y_mean[308]	-0.26	4.4e-4	0.03	-0.33	-0.28	-0.26	-0.24	-0.2	4977	1.0
y_mean[309]	0.56	4.0e-4	0.03	0.5	0.54	0.56	0.58	0.61	4859	1.0
y_mean[310]	0.25	4.6e-4	0.03	0.19	0.23	0.25	0.28	0.32	5089	1.0
y_mean[311]	-0.53	6.7e-4	0.05	-0.62	-0.56	-0.53	-0.5	-0.44	4806	1.0
y_mean[312]	0.01	5.8e-4	0.04	-0.06	-0.01	9.4e-3	0.04	0.09	4097	1.0
y_mean[313]	-0.69	3.9e-4	0.03	-0.74	-0.71	-0.69	-0.68	-0.64	4761	1.0
y_mean[314]	0.28	4.0e-4	0.03	0.23	0.26	0.28	0.3	0.33	4340	1.0
y_mean[315]	0.19	6.7e-4	0.04	0.1	0.16	0.19	0.22	0.28	4212	1.0
y_mean[316]	1.28	5.5e-4	0.04	1.21	1.25	1.28	1.3	1.35	4414	1.0
y_mean[317]	0.78	6.1e-4	0.04	0.7	0.75	0.78	0.8	0.86	4465	1.0
y_mean[318]	-0.54	3.5e-4	0.02	-0.58	-0.55	-0.54	-0.52	-0.49	5077	1.0
y_mean[319]	1.82	10.0e-4	0.07	1.68	1.77	1.82	1.86	1.96	4807	1.0
y_mean[320]	-0.73	3.7e-4	0.03	-0.78	-0.75	-0.73	-0.72	-0.68	4992	1.0
y_mean[321]	0.51	7.0e-4	0.05	0.41	0.48	0.51	0.54	0.61	4871	1.0
y_mean[322]	-0.51	3.5e-4	0.03	-0.55	-0.52	-0.51	-0.49	-0.45	5358	1.0
y_mean[323]	-0.98	4.5e-4	0.03	-1.04	-1.0	-0.98	-0.96	-0.91	4988	1.0
y_mean[324]	-0.78	4.1e-4	0.03	-0.84	-0.8	-0.79	-0.77	-0.73	4967	1.0
y_mean[325]	-0.2	4.3e-4	0.03	-0.25	-0.22	-0.2	-0.18	-0.15	4166	1.0
y_mean[326]	-0.26	3.4e-4	0.02	-0.31	-0.28	-0.26	-0.25	-0.22	4713	1.0
y_mean[327]	0.69	5.6e-4	0.04	0.62	0.67	0.69	0.72	0.76	4028	1.0
y_mean[328]	0.39	4.7e-4	0.03	0.34	0.37	0.39	0.41	0.45	3839	1.0
y_mean[329]	-0.6	3.3e-4	0.02	-0.65	-0.62	-0.6	-0.59	-0.56	5207	1.0
y_mean[330]	-0.46	6.3e-4	0.04	-0.54	-0.49	-0.46	-0.43	-0.37	4638	1.0
y_mean[331]	0.28	5.3e-4	0.03	0.21	0.26	0.28	0.3	0.35	4028	1.0
y_mean[332]	-0.62	3.2e-4	0.02	-0.66	-0.63	-0.62	-0.6	-0.57	5104	1.0
y_mean[333]	-0.45	3.2e-4	0.02	-0.49	-0.47	-0.45	-0.44	-0.41	4618	1.0
y_mean[334]	-0.22	6.9e-4	0.05	-0.32	-0.25	-0.22	-0.19	-0.12	5148	1.0
y_mean[335]	-1.15	4.9e-4	0.03	-1.21	-1.17	-1.15	-1.13	-1.09	4562	1.0
y_mean[336]	0.58	6.8e-4	0.05	0.49	0.55	0.58	0.61	0.67	4859	1.0
y_mean[337]	1.7	1.4e-3	0.1	1.51	1.63	1.7	1.76	1.89	4994	1.0
y_mean[338]	-0.1	3.6e-4	0.03	-0.15	-0.11	-0.1	-0.08	-0.05	5019	1.0
y_mean[339]	-0.21	3.4e-4	0.02	-0.25	-0.22	-0.21	-0.19	-0.16	4658	1.0
y_mean[340]	0.39	9.6e-4	0.07	0.26	0.35	0.39	0.44	0.53	4896	1.0
y_mean[341]	-0.05	4.3e-4	0.03	-0.11	-0.07	-0.05	-0.03	4.1e-3	4547	1.0

y_mean[342]	-0.58	3.2e-4	0.02	-0.62	-0.59	-0.58	-0.56	-0.53	5144	1.0
y_mean[343]	0.05	3.9e-4	0.03	-9.5e-3	0.03	0.05	0.06	0.1	5112	1.0
y_mean[344]	-0.5	4.0e-4	0.03	-0.56	-0.52	-0.5	-0.48	-0.44	5396	1.0
y_mean[345]	0.67	4.8e-4	0.03	0.61	0.65	0.67	0.69	0.73	4377	1.0
y_mean[346]	-0.6	5.5e-4	0.04	-0.67	-0.63	-0.6	-0.58	-0.53	4523	1.0
y_mean[347]	0.54	7.7e-4	0.05	0.44	0.51	0.54	0.58	0.64	4252	1.0
y_mean[348]	0.47	5.7e-4	0.04	0.39	0.45	0.47	0.5	0.55	4866	1.0
y_mean[349]	-0.19	5.1e-4	0.03	-0.25	-0.21	-0.19	-0.17	-0.13	4056	1.0
y_mean[350]	0.43	4.5e-4	0.03	0.37	0.41	0.43	0.45	0.48	4256	1.0
y_mean[351]	-0.67	3.8e-4	0.03	-0.72	-0.68	-0.66	-0.65	-0.61	5039	1.0
y_mean[352]	-0.62	3.3e-4	0.02	-0.66	-0.63	-0.62	-0.6	-0.57	5185	1.0
y_mean[353]	0.78	5.7e-4	0.04	0.7	0.75	0.78	0.8	0.85	4367	1.0
y_mean[354]	-0.06	5.9e-4	0.04	-0.13	-0.08	-0.06	-0.03	0.02	3871	1.0
y_mean[355]	-0.06	3.6e-4	0.03	-0.11	-0.08	-0.06	-0.05	-0.01	5064	1.0
y_mean[356]	-0.58	6.1e-4	0.04	-0.66	-0.6	-0.58	-0.55	-0.5	4308	1.0
y_mean[357]	0.38	4.8e-4	0.03	0.32	0.36	0.38	0.4	0.45	4763	1.0
y_mean[358]	0.57	7.4e-4	0.05	0.48	0.53	0.57	0.6	0.65	3804	1.0
y_mean[359]	-0.68	4.2e-4	0.03	-0.73	-0.69	-0.68	-0.66	-0.62	4661	1.0
y_mean[360]	-0.08	6.0e-4	0.04	-0.15	-0.1	-0.08	-0.05	-4.8e-3	3833	1.0
y_mean[361]	-1.04	5.0e-4	0.03	-1.1	-1.06	-1.04	-1.02	-0.98	4367	1.0
y_mean[362]	-0.97	4.9e-4	0.03	-1.03	-0.99	-0.97	-0.95	-0.91	4535	1.0
y_mean[363]	-0.61	3.3e-4	0.02	-0.65	-0.62	-0.61	-0.59	-0.56	4775	1.0
y_mean[364]	-0.33	4.2e-4	0.03	-0.39	-0.35	-0.33	-0.31	-0.27	4977	1.0
y_mean[365]	-0.58	3.2e-4	0.02	-0.62	-0.6	-0.58	-0.56	-0.53	5193	1.0
y_mean[366]	-0.02	4.1e-4	0.03	-0.08	-0.04	-0.02	-5.7e-3	0.03	4496	1.0
y_mean[367]	-0.91	5.0e-4	0.03	-0.97	-0.93	-0.91	-0.89	-0.84	4234	1.0
y_mean[368]	0.1	3.5e-4	0.03	0.05	0.08	0.1	0.12	0.15	5185	1.0
y_mean[369]	-0.7	3.6e-4	0.03	-0.75	-0.72	-0.7	-0.68	-0.65	4901	1.0
y_mean[370]	0.17	4.1e-4	0.03	0.12	0.15	0.17	0.19	0.22	4071	1.0
y_mean[371]	-0.56	5.4e-4	0.04	-0.63	-0.59	-0.56	-0.54	-0.49	4339	1.0
y_mean[372]	-1.02	4.4e-4	0.03	-1.08	-1.04	-1.02	-1.0	-0.96	5048	1.0
y_mean[373]	-0.79	4.1e-4	0.03	-0.84	-0.81	-0.79	-0.77	-0.73	5005	1.0
y_mean[374]	-0.56	5.4e-4	0.04	-0.63	-0.59	-0.56	-0.54	-0.49	4348	1.0
y_mean[375]	0.04	5.8e-4	0.04	-0.04	0.01	0.03	0.06	0.11	4027	1.0
y_mean[376]	0.55	6.6e-4	0.05	0.46	0.52	0.55	0.58	0.64	5143	1.0
y_mean[377]	0.72	7.0e-4	0.05	0.63	0.68	0.72	0.75	0.81	4319	1.0
y_mean[378]	-0.3	4.5e-4	0.03	-0.35	-0.32	-0.3	-0.28	-0.24	4160	1.0
y_mean[379]	0.15	3.6e-4	0.02	0.11	0.14	0.15	0.17	0.2	4161	1.0
y_mean[380]	0.84	7.1e-4	0.05	0.75	0.81	0.84	0.88	0.94	4660	1.0
y_mean[381]	-0.13	5.3e-4	0.04	-0.2	-0.16	-0.13	-0.11	-0.06	4416	1.0
y_mean[382]	0.69	5.9e-4	0.04	0.61	0.66	0.69	0.71	0.77	4323	1.0
y_mean[383]	-1.18	4.4e-4	0.03	-1.24	-1.2	-1.18	-1.15	-1.11	5115	1.0
y_mean[384]	0.54	4.3e-4	0.03	0.49	0.52	0.54	0.56	0.6	4652	1.0
y_mean[385]	-0.57	3.1e-4	0.02	-0.61	-0.58	-0.57	-0.56	-0.53	5021	1.0
y_mean[386]	0.18	6.2e-4	0.04	0.1	0.15	0.18	0.21	0.26	4702	1.0
y_mean[387]	-0.24	4.9e-4	0.03	-0.3	-0.26	-0.24	-0.21	-0.17	4701	1.0
y_mean[388]	0.58	4.2e-4	0.03	0.53	0.56	0.58	0.6	0.64	4737	1.0
y_mean[389]	-0.49	2.8e-4	0.02	-0.53	-0.51	-0.49	-0.48	-0.45	5261	1.0

y_mean[390]	-0.58	4.0e-4	0.03	-0.64	-0.6	-0.58	-0.57	-0.53	4737	1.0
y_mean[391]	0.06	7.3e-4	0.05	-0.03	0.03	0.06	0.09	0.16	4114	1.0
y_mean[392]	0.86	5.6e-4	0.04	0.78	0.84	0.86	0.89	0.94	5006	1.0
y_mean[393]	-0.37	3.7e-4	0.03	-0.42	-0.39	-0.37	-0.36	-0.32	4998	1.0
y_mean[394]	0.1	7.2e-4	0.05	5.3e-3	0.07	0.1	0.13	0.19	4090	1.0
y_mean[395]	-0.08	4.0e-4	0.03	-0.13	-0.09	-0.08	-0.06	-0.02	4506	1.0
y_mean[396]	0.04	3.0e-4	0.02	4.0e-3	0.03	0.04	0.06	0.08	4665	1.0
y_mean[397]	-0.56	3.2e-4	0.02	-0.6	-0.57	-0.56	-0.54	-0.51	4644	1.0
y_mean[398]	0.05	7.0e-4	0.05	-0.04	0.02	0.05	0.08	0.14	4301	1.0
y_mean[399]	-0.53	4.0e-4	0.03	-0.59	-0.55	-0.53	-0.51	-0.47	5401	1.0
y_mean[400]	-0.28	4.3e-4	0.03	-0.33	-0.3	-0.28	-0.26	-0.23	4127	1.0
y_mean[401]	-0.34	5.2e-4	0.04	-0.41	-0.36	-0.34	-0.31	-0.26	5212	1.0
y_mean[402]	-0.5	4.0e-4	0.03	-0.55	-0.52	-0.5	-0.49	-0.45	4240	1.0
y_mean[403]	3.68	1.8e-3	0.12	3.45	3.6	3.68	3.76	3.9	4532	1.0
y_mean[404]	1.1	6.2e-4	0.04	1.02	1.07	1.1	1.12	1.18	4475	1.0
y_mean[405]	0.13	4.1e-4	0.03	0.08	0.11	0.13	0.15	0.18	4193	1.0
y_mean[406]	0.35	3.4e-4	0.02	0.3	0.33	0.35	0.36	0.39	4871	1.0
y_mean[407]	-0.7	4.0e-4	0.03	-0.75	-0.71	-0.7	-0.68	-0.64	5022	1.0
y_mean[408]	0.54	4.2e-4	0.03	0.48	0.52	0.54	0.56	0.6	4758	1.0
y_mean[409]	-0.5	3.1e-4	0.02	-0.54	-0.51	-0.5	-0.48	-0.45	5016	1.0
y_mean[410]	-0.47	6.2e-4	0.04	-0.55	-0.5	-0.47	-0.44	-0.38	4751	1.0
y_mean[411]	-0.17	4.5e-4	0.03	-0.23	-0.19	-0.17	-0.15	-0.11	4365	1.0
y_mean[412]	-0.02	5.3e-4	0.04	-0.09	-0.04	-0.02	2.7e-3	0.05	4504	1.0
y_mean[413]	-0.37	3.5e-4	0.02	-0.42	-0.39	-0.37	-0.36	-0.32	4472	1.0
y_mean[414]	-0.43	4.6e-4	0.03	-0.48	-0.45	-0.43	-0.41	-0.37	4076	1.0
y_mean[415]	-0.08	4.1e-4	0.03	-0.14	-0.1	-0.08	-0.06	-0.03	4677	1.0
y_mean[416]	-0.65	3.4e-4	0.02	-0.7	-0.67	-0.65	-0.63	-0.6	5156	1.0
y_mean[417]	-0.31	3.4e-4	0.02	-0.35	-0.32	-0.31	-0.29	-0.26	4622	1.0
y_mean[418]	-0.3	4.8e-4	0.03	-0.37	-0.32	-0.3	-0.28	-0.24	4890	1.0
y_mean[419]	0.51	6.0e-4	0.04	0.44	0.49	0.51	0.54	0.59	4253	1.0
y_mean[420]	1.4	7.5e-4	0.05	1.3	1.37	1.4	1.43	1.5	4695	1.0
y_mean[421]	-0.59	3.2e-4	0.02	-0.63	-0.61	-0.59	-0.57	-0.54	5201	1.0
y_mean[422]	-0.19	3.3e-4	0.02	-0.23	-0.2	-0.19	-0.17	-0.14	4791	1.0
y_mean[423]	-0.89	6.5e-4	0.04	-0.97	-0.92	-0.89	-0.87	-0.81	3943	1.0
y_mean[424]	-0.03	4.3e-4	0.03	-0.09	-0.05	-0.03	-0.01	0.02	4410	1.0
y_mean[425]	-0.95	7.0e-4	0.04	-1.04	-0.98	-0.95	-0.92	-0.86	4043	1.0
y_mean[426]	0.46	6.9e-4	0.05	0.37	0.43	0.46	0.49	0.56	5126	1.0
y_mean[427]	0.24	6.5e-4	0.05	0.15	0.21	0.24	0.28	0.34	5203	1.0
y_mean[428]	-0.61	3.1e-4	0.02	-0.65	-0.62	-0.61	-0.59	-0.56	4996	1.0
y_mean[429]	0.68	7.6e-4	0.05	0.58	0.64	0.68	0.72	0.78	4733	1.0
y_mean[430]	-1.2	4.4e-4	0.03	-1.26	-1.22	-1.2	-1.18	-1.14	4948	1.0
y_mean[431]	-0.36	4.0e-4	0.03	-0.42	-0.38	-0.36	-0.35	-0.31	4431	1.0
y_mean[432]	-0.3	5.6e-4	0.04	-0.37	-0.33	-0.3	-0.28	-0.23	3895	1.0
y_mean[433]	-0.68	3.7e-4	0.03	-0.72	-0.69	-0.68	-0.66	-0.63	4794	1.0
y_mean[434]	-0.25	3.2e-4	0.02	-0.29	-0.26	-0.25	-0.23	-0.2	4826	1.0
y_mean[435]	0.41	5.1e-4	0.04	0.34	0.38	0.41	0.43	0.48	4852	1.0
y_mean[436]	-0.44	6.6e-4	0.04	-0.52	-0.47	-0.44	-0.41	-0.35	4624	1.0
y_mean[437]	0.45	5.7e-4	0.04	0.37	0.42	0.45	0.47	0.52	4088	1.0

y_mean[438]	-1.05	4.3e-4	0.03	-1.11	-1.07	-1.05	-1.03	-0.99	4937	1.0
y_mean[439]	0.1	3.5e-4	0.02	0.06	0.09	0.1	0.12	0.15	4223	1.0
y_mean[440]	0.56	4.8e-4	0.03	0.5	0.54	0.56	0.59	0.63	4613	1.0
y_mean[441]	0.68	4.8e-4	0.03	0.62	0.66	0.68	0.71	0.75	4312	1.0
y_mean[442]	-0.27	4.3e-4	0.03	-0.33	-0.29	-0.27	-0.25	-0.22	4269	1.0
y_mean[443]	0.19	5.6e-4	0.04	0.12	0.17	0.19	0.22	0.27	4663	1.0
y_mean[444]	-0.38	5.6e-4	0.04	-0.45	-0.4	-0.38	-0.35	-0.31	3959	1.0
y_mean[445]	-0.45	3.7e-4	0.03	-0.51	-0.47	-0.45	-0.44	-0.4	5293	1.0
y_mean[446]	-0.62	3.2e-4	0.02	-0.67	-0.64	-0.62	-0.61	-0.58	4865	1.0
y_mean[447]	-0.36	2.7e-4	0.02	-0.4	-0.38	-0.36	-0.35	-0.33	5166	1.0
y_mean[448]	0.3	3.2e-4	0.02	0.26	0.29	0.3	0.32	0.35	4921	1.0
y_mean[449]	0.71	8.2e-4	0.05	0.61	0.68	0.71	0.75	0.81	3850	1.0
y_mean[450]	-0.12	3.8e-4	0.03	-0.17	-0.14	-0.12	-0.11	-0.07	4521	1.0
y_mean[451]	-0.29	5.0e-4	0.03	-0.36	-0.31	-0.29	-0.26	-0.22	4674	1.0
y_mean[452]	-0.69	3.9e-4	0.03	-0.75	-0.71	-0.69	-0.67	-0.64	5160	1.0
y_mean[453]	-0.63	3.4e-4	0.02	-0.67	-0.65	-0.63	-0.61	-0.58	5205	1.0
y_mean[454]	-0.01	3.1e-4	0.02	-0.05	-0.03	-0.01	-2.4e-4	0.03	4720	1.0
y_mean[455]	-0.14	4.0e-4	0.03	-0.19	-0.15	-0.14	-0.12	-0.08	4777	1.0
y_mean[456]	-0.3	3.2e-4	0.02	-0.35	-0.32	-0.3	-0.29	-0.26	4757	1.0
y_mean[457]	-1.04	4.3e-4	0.03	-1.1	-1.06	-1.04	-1.02	-0.98	5027	1.0
y_mean[458]	1.01	8.1e-4	0.06	0.9	0.97	1.01	1.05	1.12	4917	1.0
y_mean[459]	-0.2	4.9e-4	0.03	-0.26	-0.22	-0.2	-0.18	-0.13	4713	1.0
y_mean[460]	0.54	4.4e-4	0.03	0.48	0.52	0.54	0.56	0.6	4718	1.0
y_mean[461]	0.34	5.3e-4	0.03	0.27	0.31	0.34	0.36	0.4	4090	1.0
y_mean[462]	-0.74	6.1e-4	0.04	-0.81	-0.77	-0.74	-0.72	-0.66	4021	1.0
y_mean[463]	-0.37	3.5e-4	0.02	-0.42	-0.39	-0.37	-0.36	-0.33	4515	1.0
y_mean[464]	0.79	4.9e-4	0.03	0.73	0.77	0.79	0.81	0.86	4300	1.0
y_mean[465]	0.26	4.2e-4	0.03	0.2	0.24	0.26	0.27	0.31	4090	1.0
y_mean[466]	-0.32	3.9e-4	0.03	-0.38	-0.34	-0.32	-0.31	-0.27	4831	1.0
y_mean[467]	0.47	6.7e-4	0.04	0.38	0.44	0.47	0.5	0.55	4199	1.0
y_mean[468]	-0.22	5.4e-4	0.04	-0.29	-0.24	-0.22	-0.19	-0.15	4520	1.0
y_mean[469]	1.21	7.6e-4	0.05	1.1	1.17	1.21	1.24	1.31	4778	1.0
y_mean[470]	0.24	3.7e-4	0.02	0.19	0.22	0.24	0.25	0.28	4462	1.0
y_mean[471]	0.57	5.7e-4	0.04	0.5	0.54	0.57	0.59	0.64	4193	1.0
y_mean[472]	-0.7	3.5e-4	0.02	-0.75	-0.72	-0.7	-0.69	-0.65	5019	1.0
y_mean[473]	-0.12	3.4e-4	0.02	-0.16	-0.13	-0.12	-0.1	-0.07	4828	1.0
y_mean[474]	1.14	9.2e-4	0.06	1.03	1.11	1.14	1.18	1.26	4030	1.0
y_mean[475]	0.38	6.0e-4	0.04	0.31	0.36	0.38	0.41	0.46	3968	1.0
y_mean[476]	1.03	5.2e-4	0.04	0.96	1.01	1.03	1.05	1.1	4958	1.0
y_mean[477]	-0.92	5.2e-4	0.04	-0.99	-0.94	-0.92	-0.89	-0.85	4972	1.0
y_mean[478]	0.09	4.9e-4	0.03	0.03	0.07	0.09	0.11	0.15	4199	1.0
y_mean[479]	0.99	6.5e-4	0.04	0.9	0.96	0.99	1.01	1.07	4165	1.0
y_mean[480]	-0.03	3.1e-4	0.02	-0.07	-0.05	-0.03	-0.02	8.4e-3	4771	1.0
y_mean[481]	-0.25	3.1e-4	0.02	-0.29	-0.26	-0.25	-0.23	-0.21	4892	1.0
y_mean[482]	0.4	4.3e-4	0.03	0.34	0.38	0.4	0.41	0.45	3954	1.0
y_mean[483]	0.35	3.7e-4	0.03	0.3	0.33	0.35	0.36	0.4	4716	1.0
y_mean[484]	-0.76	4.0e-4	0.03	-0.82	-0.78	-0.76	-0.74	-0.71	4921	1.0
y_mean[485]	-1.18	4.4e-4	0.03	-1.24	-1.2	-1.18	-1.16	-1.12	4788	1.0

y_mean[486]	1.18	6.1e-4	0.04	1.1	1.15	1.18	1.21	1.26	4587	1.0
y_mean[487]	0.77	5.0e-4	0.03	0.71	0.75	0.77	0.79	0.84	4292	1.0
y_mean[488]	-0.17	3.2e-4	0.02	-0.21	-0.18	-0.17	-0.15	-0.12	4867	1.0
y_mean[489]	1.41	6.6e-4	0.04	1.32	1.38	1.41	1.44	1.49	4462	1.0
y_mean[490]	0.3	4.2e-4	0.03	0.24	0.28	0.3	0.32	0.35	4237	1.0
y_mean[491]	-0.14	4.0e-4	0.03	-0.19	-0.16	-0.14	-0.12	-0.08	4573	1.0
y_mean[492]	-0.3	5.6e-4	0.04	-0.37	-0.33	-0.3	-0.28	-0.23	3873	1.0
y_mean[493]	-0.28	4.8e-4	0.03	-0.35	-0.31	-0.28	-0.26	-0.21	5095	1.0
y_mean[494]	-0.03	6.6e-4	0.04	-0.11	-0.06	-0.03	-7.4e-3	0.05	3768	1.0
y_mean[495]	-9.1e-3	7.7e-4	0.05	-0.11	-0.04	-8.5e-3	0.03	0.1	4787	1.0
y_mean[496]	1.9	7.9e-4	0.05	1.79	1.86	1.9	1.93	2.0	4687	1.0
y_mean[497]	-0.03	3.1e-4	0.02	-0.07	-0.04	-0.03	-0.01	0.02	4760	1.0
y_mean[498]	1.74	1.1e-3	0.07	1.61	1.7	1.74	1.79	1.87	3866	1.0
y_mean[499]	0.14	5.3e-4	0.04	0.06	0.11	0.14	0.16	0.22	5268	1.0
y_mean[500]	-0.24	4.4e-4	0.03	-0.3	-0.26	-0.24	-0.22	-0.18	4864	1.0
y_mean[501]	0.19	3.4e-4	0.02	0.15	0.18	0.19	0.21	0.24	4461	1.0
y_mean[502]	-0.24	4.4e-4	0.03	-0.3	-0.26	-0.24	-0.22	-0.18	4419	1.0
y_mean[503]	-1.13	5.4e-4	0.04	-1.2	-1.15	-1.13	-1.1	-1.06	4445	1.0
y_mean[504]	1.82	7.8e-4	0.05	1.71	1.78	1.82	1.86	1.92	4691	1.0
y_mean[505]	0.14	3.2e-4	0.02	0.1	0.13	0.14	0.15	0.18	4594	1.0
y_mean[506]	-0.54	3.1e-4	0.02	-0.59	-0.56	-0.55	-0.53	-0.5	5197	1.0
y_mean[507]	0.03	4.7e-4	0.03	-0.04	5.5e-3	0.03	0.05	0.09	4353	1.0
y_mean[508]	-0.52	3.8e-4	0.02	-0.57	-0.54	-0.52	-0.5	-0.47	4306	1.0
y_mean[509]	-1.09	4.4e-4	0.03	-1.15	-1.11	-1.09	-1.07	-1.03	4681	1.0
y_mean[510]	-0.55	3.0e-4	0.02	-0.59	-0.57	-0.55	-0.54	-0.51	4923	1.0
y_mean[511]	-0.28	2.9e-4	0.02	-0.32	-0.29	-0.28	-0.26	-0.24	5065	1.0
y_mean[512]	2.11	1.2e-3	0.08	1.96	2.06	2.11	2.17	2.27	3968	1.0
y_mean[513]	0.58	4.2e-4	0.03	0.53	0.57	0.58	0.6	0.64	4774	1.0
y_mean[514]	-0.89	4.9e-4	0.03	-0.96	-0.92	-0.89	-0.87	-0.83	4366	1.0
y_mean[515]	-0.17	4.3e-4	0.03	-0.22	-0.19	-0.17	-0.15	-0.11	4683	1.0
y_mean[516]	0.28	8.4e-4	0.06	0.17	0.24	0.28	0.32	0.39	4660	1.0
y_mean[517]	1.01	7.1e-4	0.05	0.91	0.97	1.01	1.04	1.1	4215	1.0
y_mean[518]	-0.24	3.3e-4	0.02	-0.28	-0.25	-0.24	-0.22	-0.19	4714	1.0
y_mean[519]	-0.03	4.6e-4	0.03	-0.09	-0.05	-0.03	-7.1e-3	0.04	5126	1.0
y_mean[520]	1.2e-4	6.2e-4	0.04	-0.08	-0.03	-3.6e-4	0.03	0.08	3894	1.0
y_mean[521]	-0.45	5.0e-4	0.04	-0.52	-0.47	-0.45	-0.42	-0.38	5248	1.0
y_mean[522]	0.55	4.4e-4	0.03	0.49	0.53	0.55	0.57	0.62	4796	1.0
y_mean[523]	0.31	3.7e-4	0.02	0.27	0.3	0.31	0.33	0.36	4126	1.0
y_mean[524]	-0.27	4.4e-4	0.03	-0.33	-0.29	-0.27	-0.25	-0.21	4878	1.0
y_mean[525]	-0.3	4.0e-4	0.03	-0.35	-0.32	-0.3	-0.29	-0.25	4311	1.0
y_mean[526]	-0.42	3.5e-4	0.02	-0.46	-0.43	-0.42	-0.4	-0.37	4302	1.0
y_mean[527]	-0.16	3.6e-4	0.03	-0.21	-0.18	-0.16	-0.14	-0.11	4910	1.0
y_mean[528]	0.46	4.4e-4	0.03	0.41	0.44	0.46	0.48	0.52	4732	1.0
y_mean[529]	-0.21	5.0e-4	0.03	-0.27	-0.23	-0.21	-0.19	-0.15	4012	1.0
y_mean[530]	-0.62	3.4e-4	0.02	-0.67	-0.64	-0.62	-0.61	-0.57	5220	1.0
y_mean[531]	0.3	6.1e-4	0.04	0.22	0.28	0.3	0.33	0.38	4503	1.0
y_mean[532]	0.4	8.5e-4	0.06	0.29	0.36	0.4	0.44	0.51	4528	1.0
y_mean[533]	0.3	5.3e-4	0.03	0.23	0.28	0.3	0.32	0.37	4029	1.0

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y_mean[534]      0.61   5.6e-4   0.04    0.53    0.59    0.61    0.64    0.69   4973   1.0
y_mean[535]      0.23   5.7e-4   0.04    0.16     0.2    0.23    0.25     0.3   3799   1.0
y_mean[536]     -0.37   3.9e-4   0.03   -0.42   -0.38   -0.37   -0.35   -0.31   4943   1.0
y_mean[537]      1.95   8.2e-4   0.05    1.84    1.91    1.94    1.98    2.05   4156   1.0
y_mean[538]     -0.25   4.5e-4   0.03   -0.32   -0.28   -0.25   -0.23   -0.19   4853   1.0
y_mean[539]     -0.57   3.9e-4   0.03   -0.62   -0.59   -0.57   -0.55   -0.51   5358   1.0
y_mean[540]      0.35   4.6e-4   0.03    0.29    0.33    0.35    0.37    0.42   4791   1.0
y_mean[541]      0.35   4.9e-4   0.03    0.29    0.33    0.35    0.37    0.41   4078   1.0
y_mean[542]     -0.43   3.3e-4   0.02   -0.48   -0.45   -0.43   -0.42   -0.38   5078   1.0
y_mean[543]     -0.65   6.9e-4   0.04   -0.74   -0.68   -0.65   -0.62   -0.57   3981   1.0
y_mean[544]      -0.2   4.9e-4   0.03   -0.26   -0.22    -0.2   -0.18   -0.13   4129   1.0
y_mean[545]     -0.24   6.5e-4   0.04   -0.32   -0.27   -0.24   -0.21   -0.16   3824   1.0
y_mean[546]      0.78   5.0e-4   0.03    0.71    0.75    0.78     0.8    0.84   4292   1.0
y_mean[547]     -0.04   7.3e-4   0.05   -0.14   -0.08   -0.04 -7.8e-3    0.06   4546   1.0
y_mean[548]     -0.97   5.3e-4   0.03   -1.04   -0.99   -0.97   -0.95    -0.9   4257   1.0
y_mean[549]      -0.4   3.4e-4   0.02   -0.45   -0.42    -0.4   -0.39   -0.35   4886   1.0
y_mean[550]     -0.38   3.7e-4   0.03   -0.43    -0.4   -0.38   -0.36   -0.33   5013   1.0
y_mean[551]     -0.45   4.2e-4   0.03   -0.51   -0.47   -0.45   -0.44    -0.4   4427   1.0
y_mean[552]     -0.65   3.3e-4   0.02   -0.69   -0.66   -0.65   -0.63    -0.6   5143   1.0
y_mean[553]     -0.41   3.4e-4   0.02   -0.45   -0.42   -0.41   -0.39   -0.36   4559   1.0
y_mean[554]     -1.19   9.9e-4   0.06   -1.31   -1.24   -1.19   -1.15   -1.07   3888   1.0
y_mean[555]     -1.13   5.3e-4   0.04    -1.2   -1.15   -1.13   -1.11   -1.06   4462   1.0
y_mean[556]     -0.63   3.5e-4   0.02   -0.68   -0.65   -0.63   -0.62   -0.59   4709   1.0
y_mean[557]      0.27   4.2e-4   0.03    0.21    0.25    0.27    0.28    0.32   4123   1.0
y_mean[558]      0.49   6.4e-4   0.04    0.41    0.47    0.49    0.52    0.57   4130   1.0
y_mean[559]     -0.49   3.1e-4   0.02   -0.53    -0.5   -0.49   -0.47   -0.44   4984   1.0
y_mean[560]     -0.95   4.6e-4   0.03   -1.01   -0.97   -0.95   -0.93   -0.89   4858   1.0
y_mean[561]     -0.26   4.9e-4   0.03   -0.32   -0.28   -0.26   -0.23   -0.19   4658   1.0
y_mean[562]     -1.02   4.3e-4   0.03   -1.07   -1.04   -1.02    -1.0   -0.96   4932   1.0
y_mean[563]     -0.97   4.1e-4   0.03   -1.02   -0.99   -0.97   -0.95   -0.91   4979   1.0
y_mean[564]      0.17   4.0e-4   0.03    0.12    0.15    0.17    0.19    0.22   4535   1.0
y_mean[565]     -0.52   3.5e-4   0.02   -0.57   -0.54   -0.52   -0.51   -0.48   4838   1.0
y_mean[566]     -0.55   3.1e-4   0.02   -0.59   -0.56   -0.55   -0.53    -0.5   5144   1.0
y_mean[567]     -0.66   3.3e-4   0.02   -0.71   -0.68   -0.66   -0.65   -0.61   5079   1.0
y_mean[568]      1.07   8.4e-4   0.06    0.96    1.03    1.07    1.11    1.19   4884   1.0
y_mean[569]      0.14   3.3e-4   0.02     0.1    0.13    0.14    0.16    0.19   4356   1.0
y_mean[570]     -0.22   9.8e-4   0.06   -0.35   -0.26   -0.22   -0.17   -0.09   4329   1.0
y_mean[571]     -0.14   5.0e-4   0.03   -0.21   -0.17   -0.14   -0.12   -0.08   4478   1.0
y_mean[572]     -0.62   3.3e-4   0.02   -0.66   -0.64   -0.62    -0.6   -0.57   5208   1.0
y_mean[573]     -0.63   3.2e-4   0.02   -0.68   -0.65   -0.63   -0.62   -0.59   5024   1.0
y_mean[574]      0.61   4.3e-4   0.03    0.55    0.59    0.61    0.63    0.66   4543   1.0
y_mean[575]     -0.59   3.7e-4   0.03   -0.65   -0.61   -0.59   -0.58   -0.54   5321   1.0
y_mean[576]      0.11   3.2e-4   0.02    0.07     0.1    0.11    0.13    0.15   4442   1.0
y_mean[577]     -0.68   6.7e-4   0.05   -0.77   -0.71   -0.68   -0.65   -0.59   4688   1.0
y_mean[578]    5.6e-3   6.9e-4   0.04   -0.08   -0.02  4.9e-3    0.03    0.09   4047   1.0
y_mean[579]      0.87   5.1e-4   0.03     0.8    0.84    0.87    0.89    0.93   4730   1.0
y_mean[580]      0.06   3.5e-4   0.03    0.01    0.05    0.06    0.08    0.11   5185   1.0
y_mean[581]     -0.01   5.7e-4   0.04   -0.09   -0.04   -0.01    0.01    0.06   4661   1.0
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y_mean[582]	-0.84	4.9e-4	0.03	-0.91	-0.87	-0.84	-0.82	-0.78	4965	1.0
y_mean[583]	0.88	9.0e-4	0.06	0.77	0.84	0.88	0.92	1.0	4166	1.0
y_mean[584]	0.22	6.0e-4	0.04	0.14	0.19	0.22	0.24	0.3	4693	1.0
y_mean[585]	-1.13	4.3e-4	0.03	-1.18	-1.15	-1.13	-1.11	-1.07	4759	1.0
y_mean[586]	-0.61	3.3e-4	0.02	-0.66	-0.63	-0.61	-0.6	-0.57	5208	1.0
y_mean[587]	0.33	5.3e-4	0.03	0.26	0.31	0.33	0.35	0.4	4140	1.0
y_mean[588]	0.03	4.0e-4	0.03	-0.02	0.01	0.03	0.05	0.09	5106	1.0
y_mean[589]	0.3	2.9e-4	0.02	0.26	0.29	0.3	0.32	0.34	4948	1.0
y_mean[590]	-0.09	5.1e-4	0.03	-0.16	-0.11	-0.09	-0.07	-0.03	4383	1.0
y_mean[591]	0.4	5.1e-4	0.04	0.33	0.37	0.4	0.42	0.47	4750	1.0
y_mean[592]	0.78	5.0e-4	0.03	0.71	0.75	0.78	0.8	0.84	4292	1.0
y_mean[593]	0.93	8.8e-4	0.06	0.81	0.89	0.93	0.97	1.05	4753	1.0
y_mean[594]	-0.65	3.4e-4	0.02	-0.69	-0.66	-0.65	-0.63	-0.6	5163	1.0
y_mean[595]	-0.26	4.5e-4	0.03	-0.32	-0.28	-0.26	-0.24	-0.2	4880	1.0
y_mean[596]	0.16	6.4e-4	0.04	0.07	0.13	0.16	0.19	0.25	4692	1.0
y_mean[597]	-0.21	3.5e-4	0.02	-0.25	-0.22	-0.21	-0.19	-0.16	4767	1.0
y_mean[598]	0.5	5.6e-4	0.03	0.43	0.47	0.5	0.52	0.57	3831	1.0
y_mean[599]	0.05	3.6e-4	0.03	-4.3e-3	0.03	0.05	0.06	0.1	5197	1.0
y_mean[600]	0.63	9.1e-4	0.06	0.5	0.59	0.63	0.67	0.75	4538	1.0
y_mean[601]	-0.25	3.4e-4	0.02	-0.29	-0.26	-0.25	-0.23	-0.2	4655	1.0
y_mean[602]	0.41	4.3e-4	0.03	0.36	0.4	0.41	0.43	0.47	4034	1.0
y_mean[603]	-1.82	9.5e-4	0.06	-1.94	-1.86	-1.82	-1.78	-1.7	4380	1.0
y_mean[604]	-0.69	3.8e-4	0.03	-0.74	-0.7	-0.69	-0.67	-0.63	5132	1.0
y_mean[605]	-0.45	4.1e-4	0.03	-0.5	-0.47	-0.45	-0.43	-0.39	5283	1.0
y_mean[606]	-0.35	3.1e-4	0.02	-0.4	-0.37	-0.35	-0.34	-0.31	4852	1.0
y_mean[607]	2.08	7.6e-4	0.05	1.98	2.05	2.08	2.12	2.18	4746	1.0
y_mean[608]	0.17	6.2e-4	0.04	0.09	0.14	0.17	0.2	0.26	4771	1.0
y_mean[609]	0.96	7.9e-4	0.05	0.86	0.93	0.96	1.0	1.06	4088	1.0
y_mean[610]	-0.2	4.4e-4	0.03	-0.27	-0.23	-0.2	-0.18	-0.14	4888	1.0
y_mean[611]	-0.14	4.2e-4	0.03	-0.19	-0.16	-0.14	-0.12	-0.08	4823	1.0
y_mean[612]	1.67	1.0e-3	0.07	1.53	1.62	1.67	1.72	1.82	5061	1.0
y_mean[613]	-0.58	4.3e-4	0.03	-0.63	-0.6	-0.58	-0.56	-0.52	4397	1.0
y_mean[614]	-0.29	4.8e-4	0.03	-0.35	-0.31	-0.29	-0.26	-0.22	5106	1.0
y_mean[615]	-0.5	4.2e-4	0.03	-0.55	-0.52	-0.5	-0.48	-0.44	4471	1.0
y_mean[616]	0.22	3.6e-4	0.02	0.17	0.2	0.22	0.23	0.26	4509	1.0
y_mean[617]	0.8	6.1e-4	0.04	0.72	0.77	0.79	0.82	0.87	4051	1.0
y_mean[618]	-0.05	3.2e-4	0.02	-0.09	-0.06	-0.05	-0.03	-2.9e-3	4705	1.0
y_mean[619]	-0.28	4.2e-4	0.03	-0.34	-0.3	-0.28	-0.27	-0.23	4432	1.0
y_mean[620]	-0.52	4.1e-4	0.03	-0.57	-0.54	-0.52	-0.5	-0.47	4267	1.0
y_mean[621]	-0.42	3.3e-4	0.02	-0.46	-0.43	-0.42	-0.4	-0.37	5083	1.0
y_mean[622]	0.05	3.0e-4	0.02	0.01	0.04	0.05	0.07	0.09	4715	1.0
y_mean[623]	-0.05	3.7e-4	0.03	-0.1	-0.07	-0.05	-0.03	2.0e-3	5100	1.0
y_mean[624]	-1.19	4.3e-4	0.03	-1.25	-1.21	-1.19	-1.17	-1.13	4977	1.0
y_mean[625]	1.33	6.5e-4	0.04	1.25	1.3	1.33	1.36	1.41	4462	1.0
y_mean[626]	0.58	7.1e-4	0.04	0.49	0.55	0.58	0.61	0.66	3827	1.0
y_mean[627]	-0.66	3.3e-4	0.02	-0.71	-0.68	-0.66	-0.65	-0.61	5046	1.0
y_mean[628]	0.02	3.1e-4	0.02	-0.02	4.7e-3	0.02	0.03	0.06	4582	1.0
y_mean[629]	1.32	8.9e-4	0.06	1.2	1.28	1.32	1.36	1.43	4321	1.0

y_mean[630]	-0.11	3.7e-4	0.03	-0.16	-0.13	-0.11	-0.09	-0.06	4587	1.0
y_mean[631]	-0.54	3.3e-4	0.02	-0.58	-0.55	-0.54	-0.52	-0.49	4536	1.0
y_mean[632]	1.37	9.5e-4	0.07	1.24	1.32	1.37	1.41	1.5	4977	1.0
y_mean[633]	1.13	8.3e-4	0.06	1.01	1.09	1.13	1.16	1.24	4805	1.0
y_mean[634]	-0.48	3.7e-4	0.02	-0.53	-0.5	-0.48	-0.46	-0.43	4239	1.0
y_mean[635]	-0.05	4.4e-4	0.03	-0.11	-0.07	-0.05	-0.03	8.1e-3	4318	1.0
y_mean[636]	-0.38	3.5e-4	0.02	-0.42	-0.39	-0.38	-0.36	-0.33	4532	1.0
y_mean[637]	0.56	4.3e-4	0.03	0.5	0.54	0.56	0.58	0.61	4245	1.0
y_mean[638]	-0.46	3.1e-4	0.02	-0.5	-0.47	-0.46	-0.44	-0.41	4879	1.0
y_mean[639]	-0.34	4.1e-4	0.03	-0.4	-0.36	-0.34	-0.32	-0.28	5083	1.0
y_mean[640]	-0.65	4.9e-4	0.03	-0.71	-0.67	-0.65	-0.63	-0.58	4785	1.0
y_mean[641]	-0.37	3.5e-4	0.02	-0.41	-0.38	-0.37	-0.35	-0.32	4598	1.0
y_mean[642]	-0.54	4.4e-4	0.03	-0.6	-0.56	-0.54	-0.52	-0.48	4301	1.0
y_mean[643]	0.2	5.7e-4	0.04	0.13	0.18	0.2	0.23	0.28	4064	1.0
y_mean[644]	-0.36	3.6e-4	0.03	-0.41	-0.38	-0.36	-0.35	-0.31	4851	1.0
y_mean[645]	0.11	3.1e-4	0.02	0.06	0.09	0.11	0.12	0.15	4867	1.0
y_mean[646]	0.33	5.3e-4	0.04	0.26	0.31	0.33	0.35	0.4	4729	1.0
y_mean[647]	-0.55	3.0e-4	0.02	-0.59	-0.56	-0.55	-0.53	-0.5	4886	1.0
y_mean[648]	-0.18	3.9e-4	0.03	-0.23	-0.2	-0.18	-0.16	-0.12	4916	1.0
y_mean[649]	0.64	4.2e-4	0.03	0.59	0.62	0.64	0.66	0.7	4643	1.0
y_mean[650]	0.89	5.4e-4	0.04	0.82	0.86	0.89	0.91	0.96	4272	1.0
y_mean[651]	-0.28	2.8e-4	0.02	-0.32	-0.29	-0.28	-0.26	-0.24	5173	1.0
y_mean[652]	-0.08	5.0e-4	0.03	-0.15	-0.1	-0.08	-0.06	-0.01	4504	1.0
y_mean[653]	0.74	6.2e-4	0.04	0.65	0.71	0.74	0.77	0.83	5078	1.0
y_mean[654]	-0.02	3.1e-4	0.02	-0.06	-0.03	-0.02	-6.2e-3	0.02	4840	1.0
y_mean[655]	-0.05	4.3e-4	0.03	-0.11	-0.07	-0.05	-0.03	8.7e-3	5100	1.0
y_mean[656]	1.31	6.2e-4	0.04	1.23	1.28	1.31	1.34	1.39	4521	1.0
y_mean[657]	1.97	1.2e-3	0.07	1.82	1.92	1.97	2.01	2.11	4007	1.0
y_mean[658]	-0.21	6.9e-4	0.04	-0.29	-0.24	-0.21	-0.18	-0.13	3812	1.0
y_mean[659]	-0.45	3.8e-4	0.03	-0.5	-0.47	-0.45	-0.43	-0.39	5285	1.0
y_mean[660]	-0.32	5.1e-4	0.04	-0.39	-0.34	-0.32	-0.29	-0.25	4790	1.0
y_mean[661]	-0.53	3.2e-4	0.02	-0.58	-0.55	-0.54	-0.52	-0.49	4630	1.0
y_mean[662]	0.44	5.4e-4	0.04	0.37	0.42	0.44	0.47	0.51	4578	1.0
y_mean[663]	0.33	5.4e-4	0.04	0.26	0.3	0.33	0.35	0.4	4723	1.0
y_mean[664]	-0.27	4.9e-4	0.03	-0.34	-0.3	-0.27	-0.25	-0.2	4895	1.0
y_mean[665]	0.04	3.6e-4	0.03	-9.5e-3	0.02	0.04	0.06	0.09	5196	1.0
y_mean[666]	-0.26	4.7e-4	0.03	-0.32	-0.28	-0.26	-0.24	-0.2	4004	1.0
y_mean[667]	0.86	6.5e-4	0.04	0.78	0.83	0.86	0.88	0.94	4163	1.0
y_mean[668]	0.04	6.0e-4	0.04	-0.03	0.02	0.04	0.07	0.12	4275	1.0
y_mean[669]	-0.27	4.6e-4	0.03	-0.33	-0.29	-0.27	-0.25	-0.21	4022	1.0
y_mean[670]	-0.21	4.8e-4	0.03	-0.27	-0.23	-0.21	-0.19	-0.15	4140	1.0
y_mean[671]	-0.01	5.7e-4	0.04	-0.09	-0.04	-0.01	0.01	0.06	4419	1.0
y_mean[672]	1.73	8.1e-4	0.06	1.62	1.69	1.73	1.76	1.83	4648	1.0
y_mean[673]	-0.13	4.0e-4	0.03	-0.18	-0.14	-0.13	-0.11	-0.07	4705	1.0
y_mean[674]	3.11	1.2e-3	0.08	2.95	3.06	3.11	3.17	3.27	4775	1.0
y_mean[675]	-0.49	3.2e-4	0.02	-0.53	-0.5	-0.49	-0.47	-0.44	5220	1.0
y_mean[676]	-0.15	3.6e-4	0.03	-0.2	-0.17	-0.15	-0.13	-0.1	4902	1.0
y_mean[677]	-0.45	3.6e-4	0.03	-0.5	-0.47	-0.45	-0.43	-0.4	5273	1.0

y_mean[678]	-0.18	3.9e-4	0.03	-0.23	-0.2	-0.18	-0.16	-0.13	4913	1.0
y_mean[679]	-0.93	4.7e-4	0.03	-0.99	-0.95	-0.93	-0.91	-0.87	4612	1.0
y_mean[680]	-0.43	6.4e-4	0.04	-0.51	-0.46	-0.43	-0.41	-0.35	4047	1.0
y_mean[681]	-0.09	6.1e-4	0.04	-0.17	-0.12	-0.09	-0.07	-0.02	3816	1.0
y_mean[682]	-0.02	3.4e-4	0.02	-0.07	-0.04	-0.02	-9.6e-3	0.02	4559	1.0
y_mean[683]	2.91	1.7e-3	0.11	2.7	2.84	2.91	2.98	3.13	4376	1.0
y_mean[684]	0.36	8.3e-4	0.05	0.26	0.33	0.36	0.39	0.46	3925	1.0
y_mean[685]	-0.04	4.0e-4	0.03	-0.09	-0.05	-0.04	-0.02	0.02	4481	1.0
y_mean[686]	-0.02	4.3e-4	0.03	-0.08	-0.04	-0.02	-2.7e-3	0.04	4431	1.0
y_mean[687]	1.0	1.1e-3	0.07	0.87	0.96	1.0	1.05	1.13	3754	1.0
y_mean[688]	-0.23	5.3e-4	0.04	-0.3	-0.26	-0.23	-0.21	-0.16	4581	1.0
y_mean[689]	1.34	7.5e-4	0.05	1.24	1.3	1.34	1.37	1.43	4409	1.0
y_mean[690]	-0.41	4.7e-4	0.03	-0.47	-0.43	-0.41	-0.39	-0.35	4470	1.0
y_mean[691]	-0.18	3.9e-4	0.03	-0.24	-0.2	-0.18	-0.17	-0.13	4909	1.0
y_mean[692]	-1.07	4.3e-4	0.03	-1.13	-1.1	-1.07	-1.05	-1.01	5030	1.0
y_mean[693]	-0.56	3.3e-4	0.02	-0.6	-0.58	-0.56	-0.54	-0.51	5290	1.0
y_mean[694]	1.21	6.2e-4	0.04	1.13	1.18	1.21	1.24	1.29	4559	1.0
y_mean[695]	0.69	5.4e-4	0.04	0.62	0.67	0.69	0.72	0.76	4318	1.0
y_mean[696]	-0.58	3.3e-4	0.02	-0.62	-0.59	-0.58	-0.56	-0.53	4628	1.0
y_mean[697]	0.32	6.2e-4	0.04	0.23	0.29	0.31	0.34	0.4	4692	1.0
y_mean[698]	0.35	5.2e-4	0.04	0.28	0.33	0.35	0.38	0.42	5143	1.0
y_mean[699]	0.67	4.4e-4	0.03	0.62	0.65	0.67	0.69	0.73	4450	1.0
y_mean[700]	0.62	7.3e-4	0.05	0.52	0.59	0.62	0.66	0.73	5122	1.0
y_mean[701]	1.03	6.8e-4	0.04	0.95	1.0	1.03	1.06	1.12	4306	1.0
y_mean[702]	-0.51	3.3e-4	0.02	-0.56	-0.53	-0.51	-0.5	-0.46	5318	1.0
y_mean[703]	0.83	1.0e-3	0.07	0.69	0.79	0.83	0.88	0.97	4875	1.0
y_mean[704]	0.71	5.6e-4	0.04	0.63	0.68	0.71	0.73	0.79	4914	1.0
y_mean[705]	-0.84	4.7e-4	0.03	-0.9	-0.86	-0.84	-0.81	-0.77	4954	1.0
y_mean[706]	0.15	6.3e-4	0.04	0.07	0.12	0.15	0.18	0.24	4795	1.0
y_mean[707]	-0.58	3.1e-4	0.02	-0.62	-0.59	-0.58	-0.56	-0.53	4847	1.0
y_mean[708]	0.5	5.7e-4	0.04	0.42	0.47	0.5	0.52	0.57	4611	1.0
y_mean[709]	-0.64	3.4e-4	0.02	-0.69	-0.66	-0.64	-0.62	-0.59	5201	1.0
y_mean[710]	-0.04	4.9e-4	0.03	-0.11	-0.06	-0.04	-0.02	0.02	4213	1.0
y_mean[711]	1.39	1.1e-3	0.07	1.26	1.35	1.39	1.43	1.52	3578	1.0
y_mean[712]	0.28	7.3e-4	0.05	0.19	0.25	0.28	0.31	0.38	4391	1.0
y_mean[713]	-0.52	3.0e-4	0.02	-0.56	-0.53	-0.52	-0.5	-0.47	4955	1.0
y_mean[714]	0.1	3.1e-4	0.02	0.06	0.08	0.1	0.11	0.14	4782	1.0
y_mean[715]	-0.39	4.5e-4	0.03	-0.46	-0.42	-0.39	-0.37	-0.33	5248	1.0
y_mean[716]	-0.29	4.7e-4	0.03	-0.36	-0.31	-0.29	-0.27	-0.23	4958	1.0
y_mean[717]	-0.22	4.9e-4	0.03	-0.29	-0.25	-0.22	-0.2	-0.16	4825	1.0
y_mean[718]	0.1	3.1e-4	0.02	0.05	0.08	0.1	0.11	0.14	4593	1.0
y_mean[719]	0.48	4.5e-4	0.03	0.42	0.46	0.48	0.5	0.53	4117	1.0
y_mean[720]	0.3	3.1e-4	0.02	0.26	0.29	0.3	0.32	0.35	4874	1.0
y_mean[721]	-0.48	3.1e-4	0.02	-0.52	-0.5	-0.48	-0.47	-0.44	4967	1.0
y_mean[722]	0.4	4.8e-4	0.03	0.33	0.37	0.4	0.42	0.46	4761	1.0
y_mean[723]	-1.38	7.0e-4	0.05	-1.47	-1.42	-1.38	-1.35	-1.29	4373	1.0
y_mean[724]	0.9	5.9e-4	0.04	0.82	0.87	0.9	0.92	0.97	4178	1.0
y_mean[725]	0.73	4.4e-4	0.03	0.67	0.71	0.73	0.75	0.78	4457	1.0

y_mean[726]	-0.77	4.0e-4	0.03	-0.82	-0.79	-0.77	-0.75	-0.72	5012	1.0
y_mean[727]	-1.07	4.4e-4	0.03	-1.13	-1.1	-1.07	-1.05	-1.01	5108	1.0
y_mean[728]	-0.37	3.5e-4	0.02	-0.41	-0.38	-0.37	-0.35	-0.32	4570	1.0
y_mean[729]	-0.44	3.8e-4	0.02	-0.48	-0.45	-0.44	-0.42	-0.39	4164	1.0
y_mean[730]	-9.5e-4	4.7e-4	0.03	-0.06	-0.02	-1.1e-3	0.02	0.06	4274	1.0
y_mean[731]	1.61	1.2e-3	0.07	1.46	1.56	1.61	1.66	1.75	4091	1.0
y_mean[732]	0.17	4.6e-4	0.03	0.12	0.15	0.17	0.19	0.23	3999	1.0
y_mean[733]	-0.43	5.2e-4	0.03	-0.49	-0.45	-0.43	-0.41	-0.36	4088	1.0
y_mean[734]	0.14	3.5e-4	0.02	0.09	0.12	0.14	0.15	0.19	5134	1.0
y_mean[735]	0.17	3.1e-4	0.02	0.13	0.16	0.17	0.18	0.21	4520	1.0
y_mean[736]	1.14	9.7e-4	0.06	1.02	1.1	1.14	1.18	1.26	4099	1.0
y_mean[737]	0.37	5.1e-4	0.04	0.3	0.35	0.37	0.4	0.44	4772	1.0
y_mean[738]	0.68	5.0e-4	0.03	0.62	0.66	0.68	0.7	0.75	4345	1.0
y_mean[739]	0.84	5.3e-4	0.03	0.77	0.82	0.84	0.86	0.91	4258	1.0
y_mean[740]	0.92	6.7e-4	0.05	0.83	0.89	0.92	0.96	1.02	4856	1.0
y_mean[741]	-0.43	3.2e-4	0.02	-0.47	-0.44	-0.43	-0.41	-0.38	4770	1.0
y_mean[742]	1.13	7.5e-4	0.05	1.03	1.09	1.13	1.16	1.23	4606	1.0
y_mean[743]	1.01	7.2e-4	0.05	0.92	0.98	1.01	1.04	1.1	4118	1.0
y_mean[744]	0.49	9.3e-4	0.06	0.36	0.44	0.49	0.53	0.61	4751	1.0
y_mean[745]	0.88	6.6e-4	0.05	0.79	0.85	0.88	0.91	0.97	4738	1.0
y_mean[746]	-0.19	4.1e-4	0.03	-0.25	-0.21	-0.19	-0.17	-0.14	4942	1.0
y_mean[747]	2.82	1.2e-3	0.08	2.67	2.77	2.82	2.88	2.97	3908	1.0
y_mean[748]	0.14	5.1e-4	0.03	0.08	0.12	0.14	0.16	0.21	3986	1.0
y_mean[749]	0.77	4.9e-4	0.03	0.7	0.74	0.77	0.79	0.83	4303	1.0
y_mean[750]	0.81	4.2e-4	0.03	0.76	0.79	0.81	0.83	0.87	4935	1.0
y_mean[751]	1.82	1.4e-3	0.1	1.62	1.75	1.82	1.89	2.02	5110	1.0
y_mean[752]	0.86	7.2e-4	0.05	0.76	0.82	0.86	0.89	0.96	4806	1.0
y_mean[753]	0.43	5.1e-4	0.04	0.36	0.4	0.43	0.45	0.5	4718	1.0
y_mean[754]	1.69	8.0e-4	0.05	1.58	1.65	1.69	1.73	1.8	4668	1.0
y_mean[755]	-0.68	3.9e-4	0.03	-0.73	-0.7	-0.68	-0.66	-0.63	4956	1.0
y_mean[756]	0.33	3.1e-4	0.02	0.29	0.31	0.33	0.34	0.37	4468	1.0
y_mean[757]	0.51	7.1e-4	0.05	0.41	0.48	0.51	0.55	0.61	5006	1.0
y_mean[758]	1.44	6.9e-4	0.05	1.36	1.41	1.44	1.47	1.53	4416	1.0
y_mean[759]	0.69	5.0e-4	0.03	0.63	0.67	0.69	0.71	0.76	4356	1.0
y_mean[760]	-0.31	3.1e-4	0.02	-0.35	-0.32	-0.31	-0.29	-0.26	4855	1.0
y_mean[761]	-0.19	3.0e-4	0.02	-0.23	-0.2	-0.19	-0.18	-0.15	5196	1.0
y_mean[762]	0.79	8.8e-4	0.06	0.68	0.75	0.79	0.83	0.91	4299	1.0
y_mean[763]	-0.62	3.4e-4	0.02	-0.67	-0.64	-0.62	-0.6	-0.57	5237	1.0
y_mean[764]	0.04	7.4e-4	0.05	-0.06	6.8e-3	0.04	0.07	0.14	4662	1.0
y_mean[765]	-0.31	3.2e-4	0.02	-0.36	-0.33	-0.31	-0.3	-0.27	4980	1.0
y_mean[766]	-0.2	5.3e-4	0.03	-0.26	-0.22	-0.2	-0.18	-0.13	3957	1.0
y_mean[767]	1.14	7.6e-4	0.05	1.03	1.1	1.14	1.17	1.24	4804	1.0
y_mean[768]	0.43	8.2e-4	0.05	0.32	0.39	0.43	0.46	0.53	4070	1.0
y_mean[769]	0.45	4.0e-4	0.03	0.4	0.44	0.45	0.47	0.51	4105	1.0
y_mean[770]	-0.9	7.3e-4	0.05	-0.98	-0.93	-0.9	-0.86	-0.8	3940	1.0
y_mean[771]	-0.15	3.6e-4	0.02	-0.19	-0.16	-0.15	-0.13	-0.1	4904	1.0
y_mean[772]	-0.04	3.1e-4	0.02	-0.08	-0.06	-0.04	-0.03	1.2e-3	4808	1.0
y_mean[773]	-0.41	3.3e-4	0.02	-0.45	-0.43	-0.41	-0.39	-0.36	4787	1.0

y_mean[774]	0.92	6.6e-4	0.05	0.83	0.89	0.92	0.95	1.01	4757	1.0
y_mean[775]	0.73	6.9e-4	0.04	0.65	0.71	0.73	0.76	0.82	3809	1.0
y_mean[776]	0.25	4.5e-4	0.03	0.19	0.23	0.25	0.27	0.31	4010	1.0
y_mean[777]	0.53	6.2e-4	0.04	0.46	0.5	0.53	0.56	0.61	3912	1.0
y_mean[778]	-0.75	4.5e-4	0.03	-0.81	-0.77	-0.75	-0.73	-0.69	4960	1.0
y_mean[779]	-0.21	6.9e-4	0.04	-0.29	-0.24	-0.21	-0.18	-0.13	3812	1.0
y_mean[780]	-0.04	4.6e-4	0.03	-0.11	-0.07	-0.05	-0.02	0.02	5090	1.0
y_mean[781]	0.07	3.3e-4	0.02	0.03	0.05	0.07	0.08	0.11	4352	1.0
y_mean[782]	0.38	5.0e-4	0.03	0.31	0.35	0.38	0.4	0.45	4768	1.0
y_mean[783]	-0.16	3.7e-4	0.03	-0.21	-0.18	-0.16	-0.15	-0.11	4890	1.0
y_mean[784]	-0.48	3.2e-4	0.02	-0.52	-0.49	-0.48	-0.46	-0.43	5199	1.0
y_mean[785]	-0.74	3.8e-4	0.03	-0.79	-0.76	-0.74	-0.72	-0.69	5048	1.0
y_mean[786]	-0.22	5.1e-4	0.03	-0.28	-0.24	-0.22	-0.2	-0.15	3983	1.0
y_mean[787]	-0.46	6.3e-4	0.04	-0.54	-0.49	-0.46	-0.43	-0.37	4719	1.0
y_mean[788]	1.35	6.4e-4	0.04	1.27	1.32	1.35	1.38	1.43	4472	1.0
y_mean[789]	-0.02	3.1e-4	0.02	-0.06	-0.03	-0.02	-6.2e-3	0.02	4840	1.0
y_mean[790]	-0.18	6.1e-4	0.04	-0.26	-0.21	-0.18	-0.16	-0.11	3811	1.0
y_mean[791]	0.28	6.6e-4	0.05	0.19	0.25	0.28	0.31	0.37	4664	1.0
y_mean[792]	-0.69	3.5e-4	0.02	-0.73	-0.7	-0.69	-0.67	-0.64	5072	1.0
y_mean[793]	0.07	3.7e-4	0.02	0.03	0.06	0.07	0.09	0.12	4244	1.0
y_mean[794]	1.71	8.1e-4	0.05	1.61	1.67	1.71	1.75	1.82	4518	1.0
y_mean[795]	-1.08	5.1e-4	0.03	-1.15	-1.11	-1.08	-1.06	-1.02	4405	1.0
y_mean[796]	-4.9e-3	3.4e-4	0.02	-0.05	-0.02	-5.0e-3	9.9e-3	0.04	4498	1.0
y_mean[797]	-0.1	4.2e-4	0.03	-0.16	-0.12	-0.1	-0.08	-0.04	5092	1.0
y_mean[798]	-0.48	3.6e-4	0.03	-0.53	-0.5	-0.48	-0.46	-0.43	5363	1.0
y_mean[799]	0.07	3.8e-4	0.02	0.02	0.05	0.07	0.09	0.12	4232	1.0
y_mean[800]	0.21	6.2e-4	0.04	0.12	0.18	0.21	0.23	0.29	4582	1.0
y_mean[801]	0.46	4.9e-4	0.03	0.39	0.44	0.46	0.48	0.53	4681	1.0
y_mean[802]	1.38	1.3e-3	0.08	1.23	1.33	1.38	1.44	1.54	3579	1.0
y_mean[803]	-0.67	3.4e-4	0.02	-0.71	-0.68	-0.67	-0.65	-0.62	4871	1.0
y_mean[804]	-1.07	4.4e-4	0.03	-1.13	-1.09	-1.07	-1.05	-1.01	4663	1.0
y_mean[805]	-0.06	3.8e-4	0.03	-0.12	-0.08	-0.06	-0.05	-0.01	4781	1.0
y_mean[806]	-0.18	3.1e-4	0.02	-0.22	-0.19	-0.18	-0.16	-0.13	4958	1.0
y_mean[807]	-0.3	4.8e-4	0.03	-0.37	-0.32	-0.3	-0.27	-0.23	5133	1.0
y_mean[808]	-0.56	6.2e-4	0.04	-0.64	-0.59	-0.56	-0.53	-0.48	4568	1.0
y_mean[809]	-0.65	4.0e-4	0.03	-0.71	-0.67	-0.66	-0.64	-0.6	5227	1.0
y_mean[810]	-0.19	3.5e-4	0.02	-0.24	-0.21	-0.19	-0.18	-0.15	4786	1.0
y_mean[811]	-0.33	4.1e-4	0.03	-0.38	-0.35	-0.33	-0.31	-0.27	5001	1.0
y_mean[812]	1.15	4.8e-4	0.03	1.08	1.13	1.15	1.17	1.21	4582	1.0
y_mean[813]	0.04	4.9e-4	0.03	-0.02	0.02	0.04	0.06	0.1	4304	1.0
y_mean[814]	1.35	6.4e-4	0.04	1.27	1.32	1.35	1.38	1.43	4483	1.0
y_mean[815]	0.42	5.1e-4	0.03	0.35	0.4	0.42	0.44	0.49	4325	1.0
y_mean[816]	-1.02	4.3e-4	0.03	-1.08	-1.04	-1.02	-1.0	-0.96	4878	1.0
y_mean[817]	-1.89	8.7e-4	0.06	-2.01	-1.94	-1.9	-1.86	-1.78	4575	1.0
y_mean[818]	0.32	4.6e-4	0.03	0.26	0.3	0.32	0.34	0.38	4092	1.0
y_mean[819]	-0.45	3.2e-4	0.02	-0.49	-0.46	-0.45	-0.43	-0.4	4877	1.0
y_mean[820]	-0.94	4.6e-4	0.03	-1.0	-0.96	-0.94	-0.92	-0.87	4792	1.0
y_mean[821]	-0.49	4.2e-4	0.03	-0.54	-0.51	-0.49	-0.47	-0.43	4194	1.0

y_mean[822]	0.02	4.8e-4	0.03	-0.04	1.2e-3	0.02	0.04	0.09	4596	1.0
y_mean[823]	-0.21	4.3e-4	0.03	-0.27	-0.23	-0.21	-0.19	-0.16	4413	1.0
y_mean[824]	-0.78	4.2e-4	0.03	-0.84	-0.8	-0.78	-0.76	-0.73	4922	1.0
y_mean[825]	0.29	4.0e-4	0.03	0.24	0.27	0.29	0.31	0.34	4443	1.0
y_mean[826]	-0.23	4.2e-4	0.03	-0.28	-0.25	-0.23	-0.21	-0.17	4877	1.0
y_mean[827]	-0.71	3.6e-4	0.03	-0.76	-0.73	-0.71	-0.69	-0.66	4978	1.0
y_mean[828]	0.55	3.9e-4	0.03	0.49	0.53	0.55	0.57	0.6	4796	1.0
y_mean[829]	0.17	3.4e-4	0.02	0.12	0.15	0.17	0.18	0.21	4841	1.0
y_mean[830]	-0.45	9.6e-4	0.06	-0.57	-0.49	-0.45	-0.41	-0.33	4132	1.0
y_mean[831]	-0.77	4.0e-4	0.03	-0.82	-0.79	-0.77	-0.75	-0.71	5019	1.0
y_mean[832]	-0.32	4.6e-4	0.03	-0.38	-0.34	-0.32	-0.3	-0.26	4270	1.0
y_mean[833]	0.74	5.4e-4	0.04	0.67	0.72	0.74	0.76	0.81	4239	1.0
y_mean[834]	1.96	1.1e-3	0.08	1.81	1.91	1.96	2.01	2.11	4484	1.0
y_mean[835]	-0.51	3.1e-4	0.02	-0.56	-0.53	-0.51	-0.5	-0.47	5054	1.0
y_mean[836]	-0.32	3.8e-4	0.03	-0.37	-0.34	-0.32	-0.31	-0.27	4365	1.0
y_mean[837]	-0.2	3.9e-4	0.03	-0.25	-0.21	-0.2	-0.18	-0.14	4878	1.0
y_mean[838]	-0.36	2.6e-4	0.02	-0.4	-0.37	-0.36	-0.35	-0.32	5234	1.0
y_mean[839]	-0.24	4.6e-4	0.03	-0.3	-0.26	-0.24	-0.22	-0.18	4146	1.0
y_mean[840]	-0.39	4.1e-4	0.03	-0.44	-0.41	-0.39	-0.37	-0.34	4419	1.0
y_mean[841]	0.83	8.5e-4	0.05	0.72	0.79	0.82	0.86	0.93	3686	1.0
y_mean[842]	0.15	3.5e-4	0.02	0.11	0.13	0.15	0.16	0.19	4217	1.0
y_mean[843]	-0.71	6.2e-4	0.04	-0.79	-0.74	-0.71	-0.68	-0.63	4488	1.0
y_mean[844]	0.3	6.7e-4	0.04	0.22	0.28	0.3	0.33	0.39	4236	1.0
y_mean[845]	0.26	3.6e-4	0.02	0.22	0.25	0.26	0.28	0.31	4197	1.0
y_mean[846]	-0.31	4.9e-4	0.03	-0.37	-0.33	-0.3	-0.28	-0.24	4805	1.0
y_mean[847]	0.35	5.8e-4	0.04	0.28	0.33	0.36	0.38	0.43	4098	1.0
y_mean[848]	0.49	5.7e-4	0.04	0.42	0.46	0.49	0.52	0.56	4342	1.0
y_mean[849]	-0.7	3.6e-4	0.02	-0.74	-0.71	-0.7	-0.68	-0.65	4923	1.0
y_mean[850]	-1.08	4.3e-4	0.03	-1.14	-1.1	-1.08	-1.07	-1.03	4828	1.0
y_mean[851]	0.74	4.8e-4	0.03	0.67	0.72	0.74	0.76	0.8	4324	1.0
y_mean[852]	-0.11	5.0e-4	0.03	-0.17	-0.13	-0.11	-0.08	-0.04	4510	1.0
y_mean[853]	1.37	5.9e-4	0.04	1.29	1.34	1.37	1.39	1.45	4527	1.0
y_mean[854]	0.04	6.0e-4	0.04	-0.03	0.02	0.04	0.07	0.12	4039	1.0
y_mean[855]	-0.06	6.3e-4	0.04	-0.13	-0.08	-0.06	-0.03	0.02	3809	1.0
y_mean[856]	0.58	4.3e-4	0.03	0.52	0.56	0.58	0.6	0.64	4568	1.0
y_mean[857]	-0.63	4.1e-4	0.03	-0.69	-0.65	-0.63	-0.61	-0.57	5268	1.0
y_mean[858]	-0.73	6.0e-4	0.04	-0.81	-0.76	-0.73	-0.71	-0.66	4299	1.0
y_mean[859]	0.4	3.5e-4	0.02	0.36	0.39	0.4	0.42	0.45	4427	1.0
y_mean[860]	-0.55	6.1e-4	0.04	-0.63	-0.58	-0.55	-0.52	-0.47	4379	1.0
y_mean[861]	-0.54	3.0e-4	0.02	-0.58	-0.55	-0.54	-0.53	-0.5	4988	1.0
y_mean[862]	-0.64	3.3e-4	0.02	-0.69	-0.66	-0.64	-0.63	-0.6	5037	1.0
y_mean[863]	1.61	7.7e-4	0.05	1.51	1.58	1.61	1.64	1.71	4388	1.0
y_mean[864]	0.59	4.2e-4	0.03	0.54	0.57	0.59	0.61	0.65	4704	1.0
y_mean[865]	0.42	5.7e-4	0.04	0.35	0.39	0.42	0.44	0.49	3986	1.0
y_mean[866]	1.38	9.8e-4	0.07	1.25	1.34	1.38	1.43	1.51	4465	1.0
y_mean[867]	-0.25	4.5e-4	0.03	-0.31	-0.27	-0.25	-0.23	-0.19	4872	1.0
y_mean[868]	0.17	4.8e-4	0.03	0.11	0.15	0.17	0.19	0.24	4057	1.0
y_mean[869]	-0.66	3.6e-4	0.03	-0.71	-0.68	-0.66	-0.64	-0.61	5055	1.0

y_mean[870]	-3.4e-3	4.0e-4	0.03	-0.06	-0.02	-3.4e-3	0.01	0.05	4728	1.0
y_mean[871]	-0.3	4.7e-4	0.03	-0.37	-0.33	-0.3	-0.28	-0.24	4867	1.0
y_mean[872]	-0.46	3.2e-4	0.02	-0.51	-0.48	-0.46	-0.45	-0.42	5140	1.0
y_mean[873]	0.59	5.2e-4	0.04	0.52	0.57	0.59	0.61	0.66	4606	1.0
y_mean[874]	-0.03	3.1e-4	0.02	-0.07	-0.05	-0.03	-0.02	0.01	4925	1.0
y_mean[875]	1.71	9.2e-4	0.06	1.59	1.67	1.71	1.75	1.82	4261	1.0
y_mean[876]	-0.31	3.9e-4	0.03	-0.37	-0.33	-0.32	-0.3	-0.26	4480	1.0
y_mean[877]	0.18	5.8e-4	0.04	0.1	0.15	0.18	0.2	0.25	4400	1.0
y_mean[878]	-0.72	3.8e-4	0.03	-0.77	-0.74	-0.72	-0.7	-0.67	5096	1.0
y_mean[879]	-0.33	5.1e-4	0.04	-0.4	-0.35	-0.33	-0.31	-0.26	4804	1.0
y_mean[880]	1.13	7.2e-4	0.05	1.04	1.1	1.13	1.17	1.23	4599	1.0
y_mean[881]	-0.28	3.3e-4	0.02	-0.33	-0.3	-0.28	-0.27	-0.24	4857	1.0
y_mean[882]	0.09	6.3e-4	0.04	3.4e-3	0.06	0.09	0.11	0.17	4438	1.0
y_mean[883]	-0.06	4.0e-4	0.03	-0.12	-0.08	-0.06	-0.05	-0.01	4583	1.0
y_mean[884]	-0.22	4.8e-4	0.03	-0.28	-0.24	-0.22	-0.2	-0.16	4031	1.0
y_mean[885]	-0.22	4.8e-4	0.03	-0.29	-0.25	-0.22	-0.2	-0.16	4736	1.0
y_mean[886]	-0.18	3.7e-4	0.03	-0.23	-0.2	-0.18	-0.17	-0.14	4654	1.0
y_mean[887]	0.06	4.9e-4	0.04	-8.4e-3	0.04	0.06	0.08	0.13	5232	1.0
y_mean[888]	-0.83	6.1e-4	0.04	-0.91	-0.86	-0.83	-0.81	-0.75	4298	1.0
y_mean[889]	0.26	8.1e-4	0.05	0.16	0.23	0.26	0.29	0.36	3862	1.0
y_mean[890]	-0.37	2.6e-4	0.02	-0.41	-0.38	-0.37	-0.36	-0.33	5316	1.0
y_mean[891]	1.03	7.4e-4	0.05	0.94	1.0	1.03	1.06	1.11	3827	1.0
y_mean[892]	-0.86	4.6e-4	0.03	-0.92	-0.88	-0.86	-0.84	-0.8	4946	1.0
y_mean[893]	0.48	4.7e-4	0.03	0.42	0.46	0.48	0.5	0.54	4606	1.0
y_mean[894]	-0.09	4.9e-4	0.03	-0.15	-0.11	-0.09	-0.07	-0.03	4126	1.0
y_mean[895]	-0.2	4.7e-4	0.03	-0.26	-0.22	-0.2	-0.18	-0.14	4411	1.0
y_mean[896]	-1.51	6.3e-4	0.04	-1.59	-1.54	-1.51	-1.48	-1.42	4575	1.0
y_mean[897]	-1.05	4.3e-4	0.03	-1.1	-1.07	-1.05	-1.03	-0.99	4783	1.0
y_mean[898]	-0.65	3.4e-4	0.02	-0.69	-0.66	-0.65	-0.63	-0.6	5163	1.0
y_mean[899]	-1.14	4.3e-4	0.03	-1.2	-1.16	-1.14	-1.12	-1.08	4982	1.0
y_mean[900]	0.05	3.3e-4	0.02	7.8e-3	0.04	0.05	0.07	0.1	5100	1.0
y_mean[901]	-0.09	3.9e-4	0.03	-0.14	-0.11	-0.09	-0.07	-0.04	4624	1.0
y_mean[902]	-0.21	5.3e-4	0.03	-0.27	-0.23	-0.21	-0.19	-0.14	3944	1.0
y_mean[903]	0.02	5.8e-4	0.04	-0.05	-3.4e-3	0.02	0.05	0.1	4748	1.0
y_mean[904]	0.63	4.5e-4	0.03	0.57	0.61	0.63	0.65	0.69	4438	1.0
y_mean[905]	-1.18	4.3e-4	0.03	-1.24	-1.2	-1.18	-1.16	-1.12	4877	1.0
y_mean[906]	-0.6	3.4e-4	0.02	-0.65	-0.61	-0.6	-0.58	-0.55	5043	1.0
y_mean[907]	0.49	4.3e-4	0.03	0.44	0.47	0.49	0.51	0.55	4363	1.0
y_mean[908]	0.17	5.6e-4	0.04	0.09	0.14	0.17	0.19	0.24	4312	1.0
y_mean[909]	-0.47	3.7e-4	0.03	-0.53	-0.49	-0.47	-0.46	-0.42	5360	1.0
y_mean[910]	-0.05	5.3e-4	0.04	-0.13	-0.08	-0.05	-0.03	0.02	5065	1.0
y_mean[911]	-0.75	4.5e-4	0.03	-0.81	-0.77	-0.75	-0.73	-0.69	4898	1.0
y_mean[912]	-0.25	6.0e-4	0.04	-0.33	-0.28	-0.25	-0.22	-0.17	4586	1.0
y_mean[913]	-0.52	3.1e-4	0.02	-0.56	-0.54	-0.52	-0.51	-0.48	5061	1.0
y_mean[914]	0.75	6.0e-4	0.04	0.67	0.72	0.75	0.78	0.83	4425	1.0
y_mean[915]	-0.1	3.4e-4	0.02	-0.15	-0.12	-0.1	-0.08	-0.05	4959	1.0
y_mean[916]	0.72	8.3e-4	0.05	0.61	0.69	0.72	0.76	0.83	4179	1.0
y_mean[917]	-0.14	4.8e-4	0.03	-0.2	-0.16	-0.14	-0.11	-0.07	4708	1.0

y_mean[918]	-0.02	3.1e-4	0.02	-0.06	-0.03	-0.02	-5.3e-3	0.02	4969	1.0
y_mean[919]	-0.41	3.8e-4	0.02	-0.46	-0.43	-0.42	-0.4	-0.36	4140	1.0
y_mean[920]	1.34	6.6e-4	0.04	1.26	1.31	1.34	1.37	1.43	4637	1.0
y_mean[921]	0.6	5.5e-4	0.04	0.52	0.57	0.6	0.62	0.67	4401	1.0
y_mean[922]	-0.37	5.4e-4	0.04	-0.44	-0.4	-0.37	-0.35	-0.3	4790	1.0
y_mean[923]	-0.02	3.0e-4	0.02	-0.06	-0.03	-0.02	-1.4e-3	0.03	4829	1.0
y_mean[924]	-0.59	3.4e-4	0.02	-0.64	-0.61	-0.59	-0.57	-0.54	5098	1.0
y_mean[925]	-0.78	4.3e-4	0.03	-0.84	-0.8	-0.78	-0.76	-0.72	4979	1.0
y_mean[926]	0.31	4.1e-4	0.03	0.26	0.29	0.31	0.33	0.37	4543	1.0
y_mean[927]	1.5	8.2e-4	0.06	1.39	1.46	1.5	1.54	1.61	4725	1.0
y_mean[928]	-1.11	4.4e-4	0.03	-1.16	-1.13	-1.11	-1.09	-1.05	4689	1.0
y_mean[929]	-1.08	4.4e-4	0.03	-1.14	-1.1	-1.08	-1.06	-1.01	5129	1.0
y_mean[930]	-0.04	3.4e-4	0.02	-0.09	-0.05	-0.04	-0.02	0.01	5079	1.0
y_mean[931]	-0.52	3.6e-4	0.03	-0.57	-0.54	-0.52	-0.5	-0.46	5388	1.0
y_mean[932]	0.06	3.0e-4	0.02	0.02	0.04	0.06	0.07	0.1	4680	1.0
y_mean[933]	-0.54	3.4e-4	0.02	-0.58	-0.55	-0.54	-0.52	-0.49	4474	1.0
y_mean[934]	-0.19	3.5e-4	0.03	-0.24	-0.21	-0.19	-0.17	-0.14	5016	1.0
y_mean[935]	0.22	6.3e-4	0.04	0.14	0.19	0.22	0.24	0.29	3939	1.0
y_mean[936]	0.31	4.2e-4	0.03	0.26	0.3	0.31	0.33	0.37	4376	1.0
y_mean[937]	-0.48	3.7e-4	0.02	-0.53	-0.5	-0.48	-0.46	-0.43	4239	1.0
y_mean[938]	-1.0	5.7e-4	0.04	-1.07	-1.02	-1.0	-0.97	-0.92	4237	1.0
y_mean[939]	0.3	4.2e-4	0.03	0.24	0.28	0.3	0.31	0.35	4265	1.0
y_mean[940]	-0.27	3.0e-4	0.02	-0.31	-0.28	-0.27	-0.25	-0.23	4980	1.0
y_mean[941]	0.49	9.3e-4	0.06	0.36	0.45	0.49	0.53	0.61	4734	1.0
y_mean[942]	-0.98	4.6e-4	0.03	-1.03	-1.0	-0.98	-0.96	-0.91	4477	1.0
y_mean[943]	-0.43	3.8e-4	0.03	-0.48	-0.45	-0.43	-0.41	-0.37	5232	1.0
y_mean[944]	-1.37	6.9e-4	0.05	-1.47	-1.41	-1.37	-1.34	-1.28	4771	1.0
y_mean[945]	0.99	6.9e-4	0.05	0.89	0.96	0.99	1.02	1.08	5003	1.0
y_mean[946]	0.17	3.8e-4	0.02	0.12	0.15	0.16	0.18	0.21	4117	1.0
y_mean[947]	-0.61	3.3e-4	0.02	-0.65	-0.62	-0.61	-0.59	-0.56	5223	1.0
y_mean[948]	-0.94	5.0e-4	0.04	-1.0	-0.96	-0.94	-0.91	-0.87	5009	1.0
y_mean[949]	1.16	7.5e-4	0.05	1.06	1.12	1.16	1.19	1.25	4272	1.0
y_mean[950]	-0.11	3.5e-4	0.02	-0.16	-0.13	-0.11	-0.1	-0.07	4768	1.0
y_mean[951]	-0.61	3.4e-4	0.02	-0.66	-0.63	-0.61	-0.6	-0.57	4714	1.0
y_mean[952]	0.35	6.9e-4	0.05	0.26	0.32	0.35	0.38	0.44	4257	1.0
y_mean[953]	-0.41	4.4e-4	0.03	-0.46	-0.43	-0.41	-0.39	-0.35	4056	1.0
y_mean[954]	-0.17	4.0e-4	0.03	-0.22	-0.18	-0.17	-0.15	-0.11	4896	1.0
y_mean[955]	-0.96	4.6e-4	0.03	-1.02	-0.98	-0.96	-0.94	-0.9	4545	1.0
y_mean[956]	0.75	4.7e-4	0.03	0.69	0.73	0.75	0.77	0.81	4364	1.0
y_mean[957]	-0.58	4.4e-4	0.03	-0.64	-0.6	-0.58	-0.56	-0.52	4526	1.0
y_mean[958]	-0.38	2.6e-4	0.02	-0.41	-0.39	-0.38	-0.36	-0.34	5330	1.0
y_mean[959]	-0.56	3.1e-4	0.02	-0.6	-0.57	-0.56	-0.55	-0.52	4932	1.0
y_mean[960]	0.53	5.3e-4	0.04	0.46	0.51	0.53	0.56	0.6	4885	1.0
y_mean[961]	-0.42	4.4e-4	0.03	-0.48	-0.44	-0.42	-0.4	-0.36	4545	1.0
y_mean[962]	0.74	7.4e-4	0.05	0.64	0.7	0.74	0.77	0.83	4363	1.0
y_mean[963]	-1.04	4.7e-4	0.03	-1.1	-1.06	-1.04	-1.02	-0.98	4460	1.0
y_mean[964]	0.31	7.5e-4	0.05	0.22	0.28	0.31	0.35	0.41	4315	1.0
y_mean[965]	-0.07	3.3e-4	0.02	-0.11	-0.08	-0.07	-0.05	-0.02	4704	1.0

y_mean[966]	0.47	4.6e-4	0.03	0.4	0.44	0.47	0.49	0.53	4693	1.0
y_mean[967]	-0.82	4.4e-4	0.03	-0.88	-0.84	-0.82	-0.8	-0.76	4980	1.0
y_mean[968]	-0.58	3.1e-4	0.02	-0.62	-0.59	-0.58	-0.56	-0.53	5181	1.0
y_mean[969]	0.63	1.2e-3	0.08	0.46	0.57	0.63	0.68	0.79	4606	1.0
y_mean[970]	0.29	6.3e-4	0.04	0.2	0.26	0.29	0.31	0.37	4331	1.0
y_mean[971]	0.8	8.3e-4	0.06	0.68	0.76	0.8	0.84	0.92	5109	1.0
y_mean[972]	-0.41	6.3e-4	0.04	-0.49	-0.44	-0.41	-0.38	-0.32	4721	1.0
y_mean[973]	1.32	6.4e-4	0.04	1.24	1.3	1.32	1.35	1.41	4302	1.0
y_mean[974]	1.84	7.8e-4	0.05	1.73	1.8	1.84	1.87	1.94	4690	1.0
y_mean[975]	1.48	6.7e-4	0.05	1.39	1.45	1.48	1.51	1.57	4660	1.0
y_mean[976]	-0.11	4.2e-4	0.03	-0.16	-0.13	-0.11	-0.09	-0.05	4338	1.0
y_mean[977]	-0.54	3.1e-4	0.02	-0.58	-0.56	-0.54	-0.53	-0.5	5073	1.0
y_mean[978]	9.2e-3	3.1e-4	0.02	-0.03	-5.1e-3	9.1e-3	0.02	0.05	4614	1.0
y_mean[979]	-0.05	3.3e-4	0.02	-0.09	-0.06	-0.05	-0.03	-2.1e-3	4671	1.0
y_mean[980]	1.15	7.4e-4	0.05	1.05	1.12	1.15	1.19	1.25	4671	1.0
y_mean[981]	-0.03	6.4e-4	0.04	-0.11	-0.06	-0.03	-6.6e-3	0.05	4125	1.0
y_mean[982]	-0.37	3.5e-4	0.02	-0.42	-0.39	-0.37	-0.36	-0.33	4644	1.0
y_mean[983]	0.58	4.3e-4	0.03	0.52	0.56	0.58	0.59	0.63	4592	1.0
y_mean[984]	-0.22	4.5e-4	0.03	-0.27	-0.23	-0.22	-0.2	-0.16	4107	1.0
y_mean[985]	-0.7	4.9e-4	0.03	-0.76	-0.72	-0.7	-0.67	-0.63	4716	1.0
y_mean[986]	-1.45	6.3e-4	0.04	-1.54	-1.48	-1.45	-1.43	-1.37	4755	1.0
y_mean[987]	0.24	3.8e-4	0.03	0.19	0.23	0.24	0.26	0.29	4802	1.0
y_mean[988]	0.85	6.5e-4	0.04	0.76	0.82	0.84	0.87	0.93	4055	1.0
y_mean[989]	-0.93	4.8e-4	0.03	-0.99	-0.95	-0.93	-0.91	-0.86	4854	1.0
y_mean[990]	0.28	9.9e-4	0.06	0.15	0.24	0.28	0.32	0.4	4070	1.0
y_mean[991]	0.47	6.1e-4	0.04	0.39	0.44	0.47	0.49	0.54	4046	1.0
y_mean[992]	0.51	8.9e-4	0.06	0.4	0.48	0.51	0.55	0.62	3944	1.0
y_mean[993]	-0.59	8.8e-4	0.05	-0.69	-0.62	-0.59	-0.55	-0.48	3728	1.0
y_mean[994]	-0.58	3.1e-4	0.02	-0.62	-0.6	-0.58	-0.57	-0.54	4806	1.0
y_mean[995]	0.07	5.3e-4	0.03	5.4e-3	0.05	0.07	0.1	0.14	4238	1.0
y_mean[996]	0.06	3.0e-4	0.02	0.02	0.04	0.06	0.07	0.1	4617	1.0
y_mean[997]	0.4	6.1e-4	0.04	0.31	0.37	0.4	0.43	0.48	5154	1.0
y_mean[998]	-0.49	3.0e-4	0.02	-0.53	-0.5	-0.49	-0.47	-0.45	5133	1.0
y_mean[999]	0.25	4.6e-4	0.03	0.19	0.23	0.25	0.27	0.3	4023	1.0
y_mean[1000]	1.13	6.0e-4	0.04	1.05	1.11	1.13	1.16	1.21	4728	1.0
y_mean[1001]	0.8	5.1e-4	0.03	0.73	0.77	0.8	0.82	0.86	4271	1.0
y_mean[1002]	0.59	5.0e-4	0.03	0.52	0.57	0.59	0.61	0.66	4475	1.0
y_mean[1003]	0.98	6.2e-4	0.04	0.9	0.96	0.98	1.01	1.07	4706	1.0
y_mean[1004]	0.28	4.9e-4	0.03	0.22	0.26	0.28	0.3	0.34	4333	1.0
y_mean[1005]	-0.24	4.7e-4	0.03	-0.3	-0.26	-0.24	-0.22	-0.18	4042	1.0
y_mean[1006]	1.07	9.0e-4	0.06	0.96	1.04	1.07	1.11	1.18	3930	1.0
y_mean[1007]	1.71	8.1e-4	0.05	1.6	1.67	1.71	1.75	1.82	4501	1.0
y_mean[1008]	-0.41	2.8e-4	0.02	-0.45	-0.42	-0.41	-0.39	-0.37	5174	1.0
y_mean[1009]	3.11	1.2e-3	0.08	2.96	3.05	3.11	3.16	3.26	4474	1.0
y_mean[1010]	-0.16	4.4e-4	0.03	-0.22	-0.18	-0.16	-0.14	-0.11	4442	1.0
y_mean[1011]	-0.28	5.1e-4	0.04	-0.35	-0.31	-0.28	-0.26	-0.22	4799	1.0
y_mean[1012]	-0.44	3.6e-4	0.02	-0.49	-0.46	-0.44	-0.42	-0.39	4243	1.0
y_mean[1013]	-0.13	3.5e-4	0.02	-0.17	-0.14	-0.13	-0.11	-0.08	4914	1.0

y_mean[1014]	-0.8	1.1e-3	0.07	-0.93	-0.85	-0.8	-0.75	-0.67	3917	1.0
y_mean[1015]	-0.35	3.8e-4	0.03	-0.41	-0.37	-0.35	-0.34	-0.3	4874	1.0
y_mean[1016]	-0.28	4.7e-4	0.03	-0.34	-0.3	-0.28	-0.26	-0.22	4828	1.0
y_mean[1017]	1.48	8.0e-4	0.05	1.38	1.45	1.48	1.52	1.59	4721	1.0
y_mean[1018]	0.33	4.8e-4	0.03	0.27	0.31	0.33	0.35	0.39	4059	1.0
y_mean[1019]	-0.4	6.9e-4	0.04	-0.49	-0.43	-0.4	-0.37	-0.32	4012	1.0
y_mean[1020]	0.05	6.5e-4	0.04	-0.03	0.02	0.05	0.08	0.14	4601	1.0
y_mean[1021]	-0.32	4.3e-4	0.03	-0.37	-0.34	-0.32	-0.3	-0.26	4011	1.0
y_mean[1022]	-0.6	3.2e-4	0.02	-0.64	-0.62	-0.6	-0.58	-0.55	5206	1.0
y_mean[1023]	-0.6	3.5e-4	0.03	-0.65	-0.62	-0.61	-0.59	-0.55	5283	1.0
y_mean[1024]	-0.9	4.8e-4	0.03	-0.96	-0.92	-0.9	-0.88	-0.84	4549	1.0
y_mean[1025]	-0.83	5.0e-4	0.03	-0.9	-0.86	-0.83	-0.81	-0.77	4591	1.0
y_mean[1026]	-0.25	3.5e-4	0.02	-0.3	-0.26	-0.25	-0.23	-0.2	4551	1.0
y_mean[1027]	-0.7	3.7e-4	0.03	-0.75	-0.72	-0.7	-0.68	-0.65	5125	1.0
y_mean[1028]	8.0e-3	5.8e-4	0.04	-0.07	-0.02	7.0e-3	0.03	0.08	4168	1.0
y_mean[1029]	-0.76	3.9e-4	0.03	-0.81	-0.78	-0.76	-0.74	-0.7	5021	1.0
y_mean[1030]	-0.22	6.6e-4	0.04	-0.3	-0.24	-0.22	-0.19	-0.13	3887	1.0
y_mean[1031]	-0.54	3.1e-4	0.02	-0.58	-0.55	-0.54	-0.52	-0.49	5099	1.0
y_mean[1032]	0.13	3.2e-4	0.02	0.09	0.12	0.13	0.15	0.18	4631	1.0
y_mean[1033]	-0.27	4.0e-4	0.03	-0.32	-0.29	-0.27	-0.25	-0.22	4434	1.0
y_mean[1034]	1.33	6.8e-4	0.05	1.24	1.3	1.33	1.36	1.42	4438	1.0
y_mean[1035]	-0.21	4.1e-4	0.03	-0.26	-0.23	-0.21	-0.19	-0.15	4892	1.0
y_mean[1036]	-0.59	3.2e-4	0.02	-0.63	-0.61	-0.59	-0.57	-0.54	5201	1.0
y_mean[1037]	-0.54	3.4e-4	0.02	-0.58	-0.56	-0.54	-0.53	-0.49	4449	1.0
y_mean[1038]	1.15	5.9e-4	0.04	1.08	1.13	1.15	1.18	1.23	4309	1.0
y_mean[1039]	-0.84	5.2e-4	0.03	-0.91	-0.86	-0.84	-0.82	-0.77	4420	1.0
y_mean[1040]	0.19	4.6e-4	0.03	0.13	0.17	0.19	0.21	0.25	4036	1.0
y_mean[1041]	-0.42	2.9e-4	0.02	-0.46	-0.44	-0.42	-0.41	-0.38	5065	1.0
y_mean[1042]	-0.75	4.1e-4	0.03	-0.8	-0.77	-0.75	-0.73	-0.69	5073	1.0
y_mean[1043]	-0.66	4.3e-4	0.03	-0.72	-0.69	-0.66	-0.64	-0.6	5202	1.0
y_mean[1044]	0.01	3.4e-4	0.02	-0.04	-4.3e-3	0.01	0.03	0.06	5134	1.0
y_mean[1045]	-0.47	3.1e-4	0.02	-0.51	-0.49	-0.47	-0.46	-0.43	4692	1.0
y_mean[1046]	0.73	7.0e-4	0.04	0.64	0.7	0.73	0.76	0.81	3851	1.0
y_mean[1047]	-0.75	5.0e-4	0.03	-0.82	-0.78	-0.76	-0.73	-0.69	4687	1.0
y_mean[1048]	0.21	3.5e-4	0.02	0.16	0.19	0.21	0.22	0.25	4465	1.0
y_mean[1049]	-0.22	4.2e-4	0.03	-0.27	-0.24	-0.22	-0.2	-0.16	4886	1.0
y_mean[1050]	-0.27	5.7e-4	0.04	-0.35	-0.3	-0.27	-0.24	-0.19	5167	1.0
y_mean[1051]	0.61	5.1e-4	0.03	0.54	0.58	0.61	0.63	0.67	4737	1.0
y_mean[1052]	-0.78	4.5e-4	0.03	-0.84	-0.8	-0.78	-0.76	-0.71	4814	1.0
y_mean[1053]	2.15	1.2e-3	0.08	1.99	2.1	2.15	2.2	2.31	4406	1.0
y_mean[1054]	-0.32	5.6e-4	0.03	-0.39	-0.34	-0.32	-0.3	-0.25	3873	1.0
y_mean[1055]	0.18	3.6e-4	0.02	0.13	0.16	0.18	0.19	0.22	4223	1.0
y_mean[1056]	1.57	7.2e-4	0.05	1.47	1.54	1.57	1.6	1.67	4643	1.0
y_mean[1057]	1.13	7.2e-4	0.05	1.04	1.1	1.13	1.17	1.23	4715	1.0
y_mean[1058]	0.28	4.5e-4	0.03	0.22	0.26	0.28	0.3	0.34	4052	1.0
y_mean[1059]	-0.49	2.9e-4	0.02	-0.53	-0.5	-0.49	-0.47	-0.45	5218	1.0
y_mean[1060]	-0.06	4.6e-4	0.03	-0.12	-0.08	-0.06	-0.04	8.9e-4	4527	1.0
y_mean[1061]	-0.46	2.9e-4	0.02	-0.5	-0.47	-0.46	-0.44	-0.41	5496	1.0

y_mean[1062]	0.2	5.0e-4	0.04	0.13	0.18	0.2	0.22	0.27	5048	1.0
y_mean[1063]	-0.23	4.5e-4	0.03	-0.29	-0.25	-0.23	-0.21	-0.17	4546	1.0
y_mean[1064]	-0.27	4.2e-4	0.03	-0.33	-0.29	-0.27	-0.25	-0.22	4265	1.0
y_mean[1065]	0.54	5.2e-4	0.03	0.47	0.52	0.54	0.56	0.61	4591	1.0
y_mean[1066]	-0.97	4.5e-4	0.03	-1.03	-1.0	-0.97	-0.95	-0.91	4595	1.0
y_mean[1067]	0.1	6.1e-4	0.04	0.02	0.07	0.1	0.13	0.19	5166	1.0
y_mean[1068]	0.76	6.4e-4	0.04	0.67	0.73	0.76	0.78	0.84	4254	1.0
y_mean[1069]	-0.24	4.4e-4	0.03	-0.3	-0.26	-0.24	-0.22	-0.18	4370	1.0
y_mean[1070]	0.02	6.0e-4	0.04	-0.06	-8.2e-3	0.02	0.05	0.1	4732	1.0
y_mean[1071]	0.41	5.2e-4	0.03	0.34	0.38	0.41	0.43	0.47	3989	1.0
y_mean[1072]	-0.27	4.7e-4	0.03	-0.34	-0.29	-0.27	-0.25	-0.21	4885	1.0
y_mean[1073]	-0.97	4.5e-4	0.03	-1.03	-0.99	-0.97	-0.95	-0.9	4927	1.0
y_mean[1074]	-0.52	4.0e-4	0.03	-0.58	-0.54	-0.52	-0.5	-0.46	5411	1.0
y_mean[1075]	-0.34	3.7e-4	0.02	-0.39	-0.36	-0.34	-0.33	-0.29	4425	1.0
y_mean[1076]	-0.72	3.6e-4	0.03	-0.77	-0.74	-0.72	-0.71	-0.67	4982	1.0
y_mean[1077]	-0.34	3.9e-4	0.03	-0.39	-0.35	-0.34	-0.32	-0.29	4355	1.0
y_mean[1078]	-0.31	6.6e-4	0.05	-0.41	-0.35	-0.31	-0.28	-0.22	4824	1.0
y_mean[1079]	0.35	5.1e-4	0.04	0.28	0.33	0.35	0.38	0.42	4769	1.0
y_mean[1080]	-0.43	5.8e-4	0.04	-0.51	-0.46	-0.43	-0.41	-0.35	4786	1.0
y_mean[1081]	0.17	5.1e-4	0.03	0.1	0.14	0.17	0.19	0.23	4655	1.0
y_mean[1082]	0.81	8.4e-4	0.06	0.7	0.78	0.81	0.85	0.92	4593	1.0
y_mean[1083]	-0.72	3.9e-4	0.03	-0.78	-0.74	-0.72	-0.7	-0.67	5105	1.0
y_mean[1084]	-0.12	3.4e-4	0.02	-0.16	-0.13	-0.12	-0.1	-0.07	4891	1.0
y_mean[1085]	0.71	6.7e-4	0.04	0.63	0.68	0.71	0.73	0.79	3876	1.0
y_mean[1086]	8.6e-4	3.7e-4	0.02	-0.05	-0.02	6.1e-4	0.02	0.05	4412	1.0
y_mean[1087]	-0.52	2.9e-4	0.02	-0.56	-0.53	-0.52	-0.51	-0.48	5233	1.0
y_mean[1088]	0.69	4.6e-4	0.03	0.63	0.67	0.69	0.72	0.76	4376	1.0
y_mean[1089]	-0.38	7.6e-4	0.05	-0.48	-0.41	-0.38	-0.35	-0.29	4141	1.0
y_mean[1090]	-0.51	3.1e-4	0.02	-0.55	-0.53	-0.51	-0.5	-0.47	5060	1.0
y_mean[1091]	-0.77	5.7e-4	0.04	-0.84	-0.8	-0.77	-0.75	-0.7	4264	1.0
y_mean[1092]	-0.11	3.7e-4	0.03	-0.16	-0.13	-0.11	-0.09	-0.06	4856	1.0
y_mean[1093]	-0.01	6.5e-4	0.04	-0.09	-0.04	-0.01	0.02	0.07	4187	1.0
y_mean[1094]	-0.17	6.6e-4	0.04	-0.25	-0.19	-0.17	-0.14	-0.08	3895	1.0
y_mean[1095]	0.73	4.7e-4	0.03	0.67	0.71	0.73	0.75	0.79	4361	1.0
y_mean[1096]	-0.29	3.6e-4	0.03	-0.35	-0.31	-0.29	-0.28	-0.25	4827	1.0
y_mean[1097]	0.05	3.0e-4	0.02	0.01	0.04	0.05	0.07	0.09	4633	1.0
y_mean[1098]	-1.19	4.4e-4	0.03	-1.25	-1.21	-1.19	-1.17	-1.13	5052	1.0
y_mean[1099]	1.01	8.9e-4	0.05	0.9	0.97	1.01	1.04	1.11	3696	1.0
y_mean[1100]	-0.75	4.6e-4	0.03	-0.81	-0.77	-0.75	-0.73	-0.69	4856	1.0
y_mean[1101]	0.56	4.3e-4	0.03	0.5	0.54	0.56	0.58	0.61	4610	1.0
y_mean[1102]	-0.3	3.1e-4	0.02	-0.35	-0.32	-0.3	-0.29	-0.26	4972	1.0
y_mean[1103]	-0.26	4.3e-4	0.03	-0.32	-0.28	-0.26	-0.24	-0.2	4216	1.0
y_mean[1104]	-0.6	3.8e-4	0.03	-0.65	-0.62	-0.6	-0.59	-0.55	4519	1.0
y_mean[1105]	-0.54	3.1e-4	0.02	-0.58	-0.55	-0.54	-0.53	-0.5	4779	1.0
y_mean[1106]	0.07	3.3e-4	0.02	0.02	0.05	0.07	0.08	0.12	5108	1.0
y_mean[1107]	-0.79	4.1e-4	0.03	-0.84	-0.81	-0.79	-0.77	-0.73	4977	1.0
y_mean[1108]	-0.32	4.0e-4	0.03	-0.37	-0.34	-0.32	-0.3	-0.26	4887	1.0
y_mean[1109]	-0.53	3.6e-4	0.03	-0.58	-0.55	-0.53	-0.51	-0.48	5385	1.0

y_mean[1110]	2.09	9.5e-4	0.06	1.96	2.04	2.09	2.13	2.21	4440	1.0
y_mean[1111]	-0.17	3.7e-4	0.03	-0.22	-0.19	-0.17	-0.15	-0.12	4884	1.0
y_mean[1112]	-0.25	4.5e-4	0.03	-0.3	-0.27	-0.25	-0.23	-0.19	4176	1.0
y_mean[1113]	-0.06	3.2e-4	0.02	-0.1	-0.07	-0.06	-0.04	-0.01	4801	1.0
y_mean[1114]	0.08	3.1e-4	0.02	0.04	0.07	0.08	0.1	0.13	4477	1.0
y_mean[1115]	-0.04	9.9e-4	0.07	-0.18	-0.09	-0.04	3.0e-3	0.09	4768	1.0
y_mean[1116]	0.6	1.1e-3	0.08	0.45	0.55	0.6	0.65	0.75	4388	1.0
y_mean[1117]	-0.39	3.2e-4	0.02	-0.43	-0.41	-0.39	-0.37	-0.35	4781	1.0
y_mean[1118]	-0.54	3.2e-4	0.02	-0.58	-0.56	-0.54	-0.52	-0.49	5237	1.0
y_mean[1119]	0.71	5.9e-4	0.04	0.64	0.68	0.71	0.74	0.79	4295	1.0
y_mean[1120]	-0.12	6.3e-4	0.04	-0.2	-0.15	-0.12	-0.09	-0.04	3791	1.0
y_mean[1121]	1.33	6.5e-4	0.04	1.25	1.3	1.33	1.36	1.41	4468	1.0
y_mean[1122]	-0.27	4.1e-4	0.03	-0.32	-0.28	-0.27	-0.25	-0.21	4253	1.0
y_mean[1123]	-0.81	4.7e-4	0.03	-0.87	-0.83	-0.81	-0.79	-0.75	4977	1.0
y_mean[1124]	-0.39	3.9e-4	0.03	-0.44	-0.4	-0.39	-0.37	-0.33	5014	1.0
y_mean[1125]	-0.37	5.0e-4	0.03	-0.44	-0.4	-0.37	-0.35	-0.31	4821	1.0
y_mean[1126]	-0.01	3.4e-4	0.02	-0.06	-0.03	-0.01	2.0e-3	0.03	5055	1.0
y_mean[1127]	-1.24	4.8e-4	0.03	-1.3	-1.26	-1.24	-1.21	-1.17	5134	1.0
y_mean[1128]	-0.35	5.9e-4	0.04	-0.43	-0.38	-0.35	-0.32	-0.27	4721	1.0
y_mean[1129]	-0.11	4.4e-4	0.03	-0.17	-0.13	-0.11	-0.09	-0.05	5014	1.0
y_mean[1130]	-0.51	3.1e-4	0.02	-0.55	-0.53	-0.51	-0.5	-0.47	5145	1.0
y_mean[1131]	-0.36	5.6e-4	0.04	-0.43	-0.38	-0.36	-0.33	-0.28	4742	1.0
y_mean[1132]	-0.22	3.8e-4	0.03	-0.27	-0.23	-0.22	-0.2	-0.17	4559	1.0
y_mean[1133]	0.66	3.7e-4	0.03	0.61	0.65	0.66	0.68	0.71	4908	1.0
y_mean[1134]	-0.64	3.9e-4	0.03	-0.69	-0.66	-0.64	-0.62	-0.59	5080	1.0
y_mean[1135]	-0.39	3.4e-4	0.02	-0.43	-0.4	-0.39	-0.37	-0.34	4566	1.0
y_mean[1136]	-0.67	3.8e-4	0.03	-0.72	-0.69	-0.67	-0.65	-0.62	4709	1.0
y_mean[1137]	-0.1	5.0e-4	0.03	-0.17	-0.12	-0.1	-0.08	-0.04	4103	1.0
y_mean[1138]	-0.59	3.5e-4	0.02	-0.63	-0.6	-0.59	-0.57	-0.54	4555	1.0
y_mean[1139]	-0.71	3.8e-4	0.03	-0.76	-0.73	-0.71	-0.69	-0.66	5117	1.0
y_mean[1140]	-0.31	4.2e-4	0.03	-0.37	-0.33	-0.31	-0.29	-0.25	4967	1.0
y_mean[1141]	-0.67	3.4e-4	0.02	-0.71	-0.68	-0.67	-0.65	-0.62	4907	1.0
y_mean[1142]	0.82	5.0e-4	0.03	0.76	0.8	0.82	0.85	0.89	4305	1.0
y_mean[1143]	1.33	1.0e-3	0.07	1.2	1.29	1.33	1.38	1.47	4287	1.0
y_mean[1144]	0.12	3.2e-4	0.02	0.08	0.11	0.12	0.14	0.16	4412	1.0
y_mean[1145]	-0.43	3.2e-4	0.02	-0.47	-0.44	-0.43	-0.41	-0.38	4795	1.0
y_mean[1146]	-0.81	4.3e-4	0.03	-0.87	-0.83	-0.81	-0.79	-0.75	4957	1.0
y_mean[1147]	-0.28	5.3e-4	0.04	-0.36	-0.31	-0.28	-0.26	-0.21	4653	1.0
y_mean[1148]	0.13	4.4e-4	0.03	0.07	0.11	0.13	0.16	0.2	5295	1.0
y_mean[1149]	-0.1	4.8e-4	0.03	-0.16	-0.12	-0.1	-0.08	-0.04	4097	1.0
y_mean[1150]	-0.35	6.9e-4	0.05	-0.44	-0.38	-0.35	-0.32	-0.26	4501	1.0
y_mean[1151]	-0.97	4.5e-4	0.03	-1.03	-0.99	-0.97	-0.95	-0.91	4794	1.0
y_mean[1152]	-0.85	4.3e-4	0.03	-0.91	-0.87	-0.85	-0.83	-0.79	5084	1.0
y_mean[1153]	0.38	4.8e-4	0.03	0.31	0.36	0.38	0.4	0.44	4762	1.0
y_mean[1154]	-0.28	4.8e-4	0.03	-0.34	-0.31	-0.28	-0.26	-0.22	4160	1.0
y_mean[1155]	-0.09	5.7e-4	0.04	-0.16	-0.12	-0.09	-0.07	-0.02	3870	1.0
y_mean[1156]	-0.12	3.5e-4	0.02	-0.16	-0.13	-0.12	-0.1	-0.07	4938	1.0
y_mean[1157]	-0.36	3.5e-4	0.02	-0.41	-0.38	-0.36	-0.35	-0.32	4714	1.0

y_mean[1158]	0.18	4.0e-4	0.03	0.12	0.16	0.18	0.2	0.23	5225	1.0
y_mean[1159]	-0.45	3.3e-4	0.02	-0.49	-0.46	-0.45	-0.43	-0.4	4454	1.0
y_mean[1160]	2.16	1.2e-3	0.07	2.02	2.12	2.16	2.21	2.31	3719	1.0
y_mean[1161]	1.99	8.8e-4	0.06	1.88	1.96	1.99	2.03	2.11	4054	1.0
y_mean[1162]	-0.85	5.1e-4	0.03	-0.92	-0.88	-0.85	-0.83	-0.79	4467	1.0
y_mean[1163]	-0.29	3.1e-4	0.02	-0.34	-0.31	-0.29	-0.28	-0.25	4858	1.0
y_mean[1164]	-0.58	3.4e-4	0.02	-0.63	-0.6	-0.58	-0.57	-0.54	4574	1.0
y_mean[1165]	0.64	6.6e-4	0.05	0.55	0.61	0.64	0.67	0.74	5009	1.0
y_mean[1166]	-1.11	4.5e-4	0.03	-1.17	-1.13	-1.11	-1.09	-1.05	4617	1.0
y_mean[1167]	-1.14	4.3e-4	0.03	-1.19	-1.16	-1.14	-1.12	-1.08	4780	1.0
y_mean[1168]	0.39	7.0e-4	0.04	0.31	0.37	0.39	0.42	0.48	3584	1.0
y_mean[1169]	0.22	4.6e-4	0.03	0.16	0.2	0.22	0.25	0.29	5283	1.0
y_mean[1170]	-1.85	9.1e-4	0.06	-1.97	-1.89	-1.85	-1.81	-1.73	4471	1.0
y_mean[1171]	-0.42	3.3e-4	0.02	-0.46	-0.43	-0.42	-0.4	-0.37	4627	1.0
y_mean[1172]	0.47	3.9e-4	0.03	0.42	0.46	0.47	0.49	0.53	4741	1.0
y_mean[1173]	1.18	9.1e-4	0.06	1.05	1.14	1.18	1.22	1.3	4848	1.0
y_mean[1174]	-0.36	2.6e-4	0.02	-0.4	-0.38	-0.36	-0.35	-0.33	5267	1.0
y_mean[1175]	-0.1	4.0e-4	0.03	-0.15	-0.12	-0.1	-0.08	-0.04	4927	1.0
y_mean[1176]	-0.04	4.3e-4	0.03	-0.09	-0.05	-0.04	-0.02	0.02	4438	1.0
y_mean[1177]	-0.28	4.2e-4	0.03	-0.33	-0.3	-0.28	-0.26	-0.23	4254	1.0
y_mean[1178]	0.26	6.1e-4	0.04	0.18	0.23	0.26	0.29	0.34	4170	1.0
y_mean[1179]	0.15	4.2e-4	0.03	0.1	0.13	0.15	0.16	0.2	4089	1.0
y_mean[1180]	-0.53	2.9e-4	0.02	-0.57	-0.54	-0.53	-0.52	-0.49	5222	1.0
y_mean[1181]	0.93	5.4e-4	0.04	0.86	0.91	0.93	0.96	1.0	4515	1.0
y_mean[1182]	1.55	8.7e-4	0.06	1.43	1.51	1.55	1.59	1.67	4732	1.0
y_mean[1183]	0.31	4.3e-4	0.03	0.25	0.29	0.31	0.32	0.36	3931	1.0
y_mean[1184]	1.35	7.8e-4	0.05	1.26	1.32	1.35	1.38	1.45	3781	1.0
y_mean[1185]	-0.16	3.7e-4	0.03	-0.21	-0.17	-0.16	-0.14	-0.11	4933	1.0
y_mean[1186]	-0.65	4.4e-4	0.03	-0.71	-0.67	-0.65	-0.63	-0.59	4570	1.0
y_mean[1187]	0.18	5.8e-4	0.04	0.1	0.15	0.18	0.2	0.26	4554	1.0
y_mean[1188]	-0.26	3.2e-4	0.02	-0.3	-0.27	-0.26	-0.24	-0.22	4766	1.0
y_mean[1189]	-0.13	4.3e-4	0.03	-0.19	-0.15	-0.13	-0.11	-0.08	4406	1.0
y_mean[1190]	-0.29	5.0e-4	0.04	-0.36	-0.31	-0.29	-0.26	-0.21	5136	1.0
y_mean[1191]	-0.34	3.7e-4	0.02	-0.39	-0.35	-0.34	-0.32	-0.29	4411	1.0
y_mean[1192]	-1.41	6.8e-4	0.05	-1.5	-1.44	-1.41	-1.37	-1.31	4891	1.0
y_mean[1193]	-1.09	4.3e-4	0.03	-1.15	-1.11	-1.09	-1.07	-1.03	4822	1.0
y_mean[1194]	0.13	5.8e-4	0.04	0.05	0.1	0.13	0.15	0.2	4235	1.0
y_mean[1195]	-0.71	3.9e-4	0.03	-0.76	-0.73	-0.71	-0.69	-0.66	5124	1.0
y_mean[1196]	0.11	3.1e-4	0.02	0.06	0.09	0.11	0.12	0.15	4867	1.0
y_mean[1197]	-0.82	4.5e-4	0.03	-0.88	-0.84	-0.82	-0.8	-0.76	4976	1.0
y_mean[1198]	0.54	4.5e-4	0.03	0.48	0.52	0.54	0.56	0.6	4596	1.0
y_mean[1199]	-0.84	4.4e-4	0.03	-0.9	-0.86	-0.84	-0.82	-0.78	4954	1.0
y_mean[1200]	-0.39	3.6e-4	0.02	-0.44	-0.41	-0.39	-0.38	-0.35	4573	1.0
y_mean[1201]	0.31	4.7e-4	0.03	0.25	0.29	0.31	0.33	0.37	3997	1.0
y_mean[1202]	-0.97	8.3e-4	0.06	-1.08	-1.01	-0.97	-0.93	-0.85	4608	1.0
y_mean[1203]	-0.12	5.9e-4	0.04	-0.19	-0.14	-0.12	-0.1	-0.05	3839	1.0
y_mean[1204]	-0.25	3.4e-4	0.02	-0.29	-0.26	-0.25	-0.23	-0.2	4761	1.0
y_mean[1205]	-0.66	3.4e-4	0.02	-0.71	-0.68	-0.66	-0.65	-0.62	5064	1.0

y_mean[1206]	-1.02	4.4e-4	0.03	-1.08	-1.04	-1.02	-1.0	-0.96	5106	1.0
y_mean[1207]	-0.22	4.4e-4	0.03	-0.28	-0.24	-0.22	-0.2	-0.16	4846	1.0
y_mean[1208]	0.47	4.1e-4	0.03	0.41	0.45	0.47	0.49	0.52	4372	1.0
y_mean[1209]	-0.65	3.3e-4	0.02	-0.7	-0.67	-0.65	-0.64	-0.6	5037	1.0
y_mean[1210]	1.29	8.3e-4	0.05	1.18	1.25	1.29	1.32	1.39	4137	1.0
y_mean[1211]	0.22	4.5e-4	0.03	0.16	0.2	0.22	0.23	0.27	3945	1.0
y_mean[1212]	-0.39	3.5e-4	0.03	-0.44	-0.4	-0.39	-0.37	-0.34	5072	1.0
y_mean[1213]	0.15	4.4e-4	0.03	0.09	0.13	0.15	0.17	0.22	5294	1.0
y_mean[1214]	-0.49	3.1e-4	0.02	-0.53	-0.5	-0.49	-0.47	-0.44	4648	1.0
y_mean[1215]	0.38	6.9e-4	0.05	0.29	0.35	0.38	0.42	0.48	5179	1.0
y_mean[1216]	-0.03	7.5e-4	0.05	-0.13	-0.06	-0.03	-3.0e-3	0.06	3819	1.0
y_mean[1217]	0.66	7.3e-4	0.05	0.56	0.63	0.66	0.69	0.76	4489	1.0
y_mean[1218]	-0.44	3.3e-4	0.02	-0.48	-0.45	-0.44	-0.43	-0.39	4535	1.0
y_mean[1219]	-0.35	3.7e-4	0.02	-0.4	-0.36	-0.35	-0.33	-0.3	4295	1.0
y_mean[1220]	-0.63	4.3e-4	0.03	-0.69	-0.65	-0.63	-0.61	-0.58	4536	1.0
y_mean[1221]	0.25	3.9e-4	0.03	0.2	0.24	0.25	0.27	0.3	4298	1.0
y_mean[1222]	0.24	8.9e-4	0.06	0.12	0.2	0.24	0.28	0.35	4363	1.0
y_mean[1223]	-0.75	3.9e-4	0.03	-0.81	-0.77	-0.75	-0.73	-0.7	4947	1.0
y_mean[1224]	-0.65	3.9e-4	0.03	-0.7	-0.67	-0.65	-0.63	-0.6	4642	1.0
y_mean[1225]	-0.1	5.2e-4	0.03	-0.17	-0.13	-0.1	-0.08	-0.04	4227	1.0
y_mean[1226]	-0.13	4.0e-4	0.03	-0.19	-0.15	-0.13	-0.11	-0.08	4715	1.0
y_mean[1227]	0.41	1.1e-3	0.07	0.27	0.36	0.41	0.46	0.56	4408	1.0
y_mean[1228]	-0.08	3.9e-4	0.03	-0.13	-0.1	-0.08	-0.06	-0.03	4747	1.0
y_mean[1229]	-0.07	3.6e-4	0.03	-0.12	-0.09	-0.07	-0.06	-0.02	4877	1.0
y_mean[1230]	1.07	5.9e-4	0.04	0.99	1.04	1.07	1.1	1.15	4683	1.0
y_mean[1231]	-0.6	6.1e-4	0.04	-0.68	-0.63	-0.6	-0.57	-0.52	4698	1.0
y_mean[1232]	0.4	3.6e-4	0.03	0.35	0.38	0.4	0.42	0.45	4867	1.0
y_mean[1233]	-0.44	3.6e-4	0.02	-0.49	-0.46	-0.44	-0.42	-0.39	4243	1.0
y_mean[1234]	1.02	6.2e-4	0.04	0.93	0.99	1.01	1.04	1.1	4703	1.0
y_mean[1235]	0.56	6.5e-4	0.04	0.48	0.53	0.56	0.59	0.65	4517	1.0
y_mean[1236]	0.89	6.7e-4	0.04	0.81	0.86	0.89	0.92	0.97	3771	1.0
y_mean[1237]	-0.53	3.0e-4	0.02	-0.58	-0.55	-0.53	-0.52	-0.49	5041	1.0
y_mean[1238]	-0.75	3.9e-4	0.03	-0.8	-0.77	-0.75	-0.73	-0.69	4938	1.0
y_mean[1239]	-0.26	4.1e-4	0.03	-0.31	-0.28	-0.26	-0.24	-0.2	4232	1.0
y_mean[1240]	1.99	1.2e-3	0.08	1.84	1.94	1.99	2.05	2.15	4211	1.0
y_mean[1241]	-0.49	3.1e-4	0.02	-0.54	-0.51	-0.49	-0.48	-0.45	5009	1.0
y_mean[1242]	1.72	7.8e-4	0.05	1.61	1.68	1.72	1.75	1.82	4664	1.0
y_mean[1243]	0.49	6.9e-4	0.04	0.41	0.47	0.49	0.52	0.58	3991	1.0
y_mean[1244]	-0.28	4.4e-4	0.03	-0.34	-0.3	-0.28	-0.26	-0.22	4907	1.0
y_mean[1245]	0.69	7.1e-4	0.04	0.6	0.66	0.69	0.72	0.77	3864	1.0
y_mean[1246]	0.06	2.7e-4	0.02	0.02	0.04	0.06	0.07	0.1	5137	1.0
y_mean[1247]	3.5e-3	3.5e-4	0.02	-0.04	-0.01	3.4e-3	0.02	0.05	4430	1.0
y_mean[1248]	0.66	4.6e-4	0.03	0.6	0.64	0.66	0.68	0.72	4420	1.0
y_mean[1249]	-0.39	4.3e-4	0.03	-0.44	-0.41	-0.39	-0.37	-0.33	4045	1.0
y_mean[1250]	-1.15	4.3e-4	0.03	-1.21	-1.17	-1.15	-1.13	-1.09	5054	1.0
y_mean[1251]	-0.68	3.5e-4	0.03	-0.73	-0.7	-0.68	-0.66	-0.63	5128	1.0
y_mean[1252]	-0.2	5.2e-4	0.03	-0.26	-0.22	-0.2	-0.17	-0.13	4525	1.0
y_mean[1253]	0.21	4.2e-4	0.03	0.15	0.19	0.21	0.23	0.26	4360	1.0

y_mean[1254]	-0.79	4.1e-4	0.03	-0.84	-0.81	-0.79	-0.77	-0.73	4975	1.0
y_mean[1255]	-0.34	5.0e-4	0.03	-0.41	-0.36	-0.34	-0.31	-0.27	4815	1.0
y_mean[1256]	-0.04	5.6e-4	0.04	-0.11	-0.07	-0.04	-0.02	0.03	4037	1.0
y_mean[1257]	0.89	4.3e-4	0.03	0.83	0.87	0.89	0.91	0.95	5016	1.0
y_mean[1258]	-0.91	5.0e-4	0.03	-0.97	-0.93	-0.91	-0.89	-0.84	4292	1.0
y_mean[1259]	0.34	6.5e-4	0.04	0.26	0.32	0.34	0.37	0.43	4612	1.0
y_mean[1260]	-0.51	7.8e-4	0.05	-0.62	-0.55	-0.52	-0.48	-0.41	4397	1.0
y_mean[1261]	-0.51	3.1e-4	0.02	-0.55	-0.53	-0.51	-0.5	-0.47	4811	1.0
y_mean[1262]	-0.31	2.9e-4	0.02	-0.35	-0.32	-0.31	-0.29	-0.27	5026	1.0
y_mean[1263]	-1.23	7.8e-4	0.05	-1.33	-1.27	-1.23	-1.2	-1.13	4435	1.0
y_mean[1264]	-0.14	3.5e-4	0.02	-0.19	-0.15	-0.14	-0.12	-0.09	4753	1.0
y_mean[1265]	-0.18	5.0e-4	0.03	-0.24	-0.2	-0.18	-0.16	-0.12	4071	1.0
y_mean[1266]	-0.48	3.6e-4	0.02	-0.52	-0.49	-0.48	-0.46	-0.43	4719	1.0
y_mean[1267]	-0.08	3.8e-4	0.03	-0.14	-0.1	-0.08	-0.07	-0.03	4934	1.0
y_mean[1268]	0.8	7.1e-4	0.05	0.7	0.76	0.8	0.83	0.9	5093	1.0
y_mean[1269]	-1.03	4.3e-4	0.03	-1.09	-1.05	-1.03	-1.01	-0.97	4782	1.0
y_mean[1270]	-0.61	3.3e-4	0.02	-0.65	-0.63	-0.61	-0.59	-0.56	5208	1.0
y_mean[1271]	0.81	8.4e-4	0.05	0.7	0.77	0.81	0.85	0.91	3975	1.0
y_mean[1272]	-0.61	4.0e-4	0.03	-0.67	-0.63	-0.61	-0.59	-0.55	5297	1.0
y_mean[1273]	-2.7e-3	4.4e-4	0.03	-0.06	-0.02	-3.0e-3	0.02	0.06	4385	1.0
y_mean[1274]	-0.25	3.3e-4	0.02	-0.3	-0.27	-0.25	-0.24	-0.21	4850	1.0
y_mean[1275]	-0.22	4.6e-4	0.03	-0.29	-0.24	-0.22	-0.2	-0.16	4840	1.0
y_mean[1276]	-0.02	3.1e-4	0.02	-0.06	-0.04	-0.02	-7.5e-3	0.02	4762	1.0
y_mean[1277]	-0.25	5.1e-4	0.03	-0.32	-0.27	-0.25	-0.23	-0.18	4674	1.0
y_mean[1278]	-0.55	3.3e-4	0.02	-0.59	-0.56	-0.55	-0.53	-0.5	5156	1.0
y_mean[1279]	-0.6	3.6e-4	0.03	-0.65	-0.62	-0.6	-0.58	-0.55	4958	1.0
y_mean[1280]	-1.03	5.0e-4	0.03	-1.1	-1.06	-1.03	-1.01	-0.97	4370	1.0
y_mean[1281]	-0.77	4.0e-4	0.03	-0.83	-0.79	-0.77	-0.75	-0.72	4939	1.0
y_mean[1282]	-0.54	4.3e-4	0.03	-0.6	-0.56	-0.54	-0.52	-0.48	5385	1.0
y_mean[1283]	0.21	3.7e-4	0.02	0.17	0.2	0.21	0.23	0.26	4483	1.0
y_mean[1284]	-0.08	4.0e-4	0.03	-0.14	-0.1	-0.08	-0.06	-0.03	4627	1.0
y_mean[1285]	0.55	4.6e-4	0.03	0.49	0.53	0.55	0.57	0.6	4056	1.0
y_mean[1286]	-0.1	4.9e-4	0.03	-0.16	-0.12	-0.1	-0.08	-0.04	4080	1.0
y_mean[1287]	0.71	9.0e-4	0.06	0.59	0.67	0.71	0.75	0.82	4478	1.0
y_mean[1288]	-0.34	5.1e-4	0.04	-0.41	-0.36	-0.34	-0.31	-0.26	5210	1.0
y_mean[1289]	0.52	6.4e-4	0.04	0.44	0.49	0.52	0.55	0.61	4727	1.0
y_mean[1290]	-0.15	3.6e-4	0.03	-0.2	-0.17	-0.15	-0.13	-0.1	4865	1.0
y_mean[1291]	1.44	7.3e-4	0.05	1.35	1.41	1.44	1.47	1.53	4363	1.0
y_mean[1292]	-0.33	3.8e-4	0.03	-0.38	-0.35	-0.33	-0.31	-0.28	4508	1.0
y_mean[1293]	-0.34	6.0e-4	0.04	-0.43	-0.37	-0.34	-0.31	-0.25	5192	1.0
y_mean[1294]	-0.48	3.6e-4	0.02	-0.52	-0.49	-0.48	-0.46	-0.43	4257	1.0
y_mean[1295]	0.87	5.1e-4	0.03	0.81	0.85	0.87	0.9	0.94	4428	1.0
y_mean[1296]	-0.5	3.4e-4	0.02	-0.55	-0.52	-0.5	-0.48	-0.45	4842	1.0
y_mean[1297]	-0.15	4.0e-4	0.03	-0.21	-0.17	-0.15	-0.13	-0.1	4764	1.0
y_mean[1298]	1.85	8.3e-4	0.06	1.74	1.81	1.85	1.89	1.96	4753	1.0
y_mean[1299]	0.68	4.3e-4	0.03	0.63	0.66	0.68	0.7	0.74	4508	1.0
y_mean[1300]	-0.07	4.3e-4	0.03	-0.13	-0.09	-0.07	-0.05	-9.9e-3	4544	1.0
y_mean[1301]	0.9	6.9e-4	0.04	0.82	0.87	0.91	0.93	0.99	4140	1.0

y_mean[1302]	0.38	8.1e-4	0.05	0.28	0.35	0.38	0.42	0.49	4510	1.0
y_mean[1303]	1.45	6.8e-4	0.05	1.36	1.42	1.45	1.48	1.53	4443	1.0
y_mean[1304]	-0.66	3.3e-4	0.02	-0.71	-0.68	-0.66	-0.64	-0.61	5070	1.0
y_mean[1305]	-0.57	3.1e-4	0.02	-0.61	-0.58	-0.57	-0.55	-0.52	4839	1.0
y_mean[1306]	-0.6	4.1e-4	0.03	-0.65	-0.62	-0.6	-0.58	-0.54	4467	1.0
y_mean[1307]	-0.47	3.4e-4	0.02	-0.51	-0.48	-0.47	-0.45	-0.42	5299	1.0
y_mean[1308]	0.59	4.2e-4	0.03	0.53	0.57	0.59	0.61	0.64	4694	1.0
y_mean[1309]	-0.61	3.3e-4	0.02	-0.65	-0.62	-0.61	-0.59	-0.56	5207	1.0
y_mean[1310]	-0.71	4.7e-4	0.03	-0.78	-0.74	-0.71	-0.69	-0.65	4804	1.0
y_mean[1311]	0.71	7.7e-4	0.05	0.6	0.67	0.71	0.74	0.81	4551	1.0
y_mean[1312]	-0.09	6.1e-4	0.04	-0.18	-0.12	-0.09	-0.07	-0.02	4268	1.0
y_mean[1313]	-0.68	3.9e-4	0.03	-0.73	-0.7	-0.68	-0.66	-0.62	5188	1.0
y_mean[1314]	-0.66	4.3e-4	0.03	-0.72	-0.68	-0.66	-0.64	-0.6	4601	1.0
y_mean[1315]	1.3	5.8e-4	0.04	1.22	1.27	1.3	1.32	1.38	4498	1.0
y_mean[1316]	0.47	7.7e-4	0.05	0.37	0.43	0.47	0.5	0.55	3624	1.0
y_mean[1317]	-0.03	3.2e-4	0.02	-0.07	-0.05	-0.03	-0.02	0.01	4664	1.0
y_mean[1318]	2.21	9.9e-4	0.06	2.09	2.17	2.21	2.25	2.34	4166	1.0
y_mean[1319]	-0.54	3.1e-4	0.02	-0.58	-0.55	-0.54	-0.52	-0.49	5195	1.0
y_mean[1320]	-0.56	3.1e-4	0.02	-0.61	-0.58	-0.57	-0.55	-0.52	5176	1.0
y_mean[1321]	-0.53	4.2e-4	0.03	-0.59	-0.55	-0.53	-0.51	-0.47	4922	1.0
y_mean[1322]	0.1	3.4e-4	0.02	0.06	0.09	0.1	0.12	0.15	4263	1.0
y_mean[1323]	-0.63	4.6e-4	0.03	-0.7	-0.66	-0.63	-0.61	-0.57	4881	1.0
y_mean[1324]	0.42	5.2e-4	0.04	0.35	0.4	0.42	0.45	0.49	4781	1.0
y_mean[1325]	-0.68	3.5e-4	0.02	-0.72	-0.69	-0.68	-0.66	-0.63	4879	1.0
y_mean[1326]	-0.01	6.2e-4	0.04	-0.09	-0.04	-0.01	0.01	0.06	4081	1.0
y_mean[1327]	1.16	5.9e-4	0.04	1.09	1.14	1.16	1.19	1.24	4624	1.0
y_mean[1328]	0.17	6.5e-4	0.04	0.08	0.14	0.17	0.2	0.25	4386	1.0
y_mean[1329]	0.2	4.5e-4	0.03	0.15	0.18	0.2	0.22	0.26	4023	1.0
y_mean[1330]	0.76	5.8e-4	0.04	0.69	0.74	0.76	0.79	0.84	4540	1.0
y_mean[1331]	-0.35	2.9e-4	0.02	-0.39	-0.37	-0.35	-0.34	-0.31	5036	1.0
y_mean[1332]	0.07	3.1e-4	0.02	0.03	0.05	0.07	0.08	0.11	4487	1.0
y_mean[1333]	-0.08	3.4e-4	0.02	-0.13	-0.1	-0.08	-0.07	-0.04	4737	1.0
y_mean[1334]	-0.7	3.7e-4	0.03	-0.75	-0.72	-0.7	-0.68	-0.64	5135	1.0
y_mean[1335]	-0.24	4.9e-4	0.03	-0.31	-0.26	-0.24	-0.21	-0.17	4703	1.0
y_mean[1336]	-0.46	3.3e-4	0.02	-0.5	-0.47	-0.46	-0.44	-0.41	4444	1.0
y_mean[1337]	0.59	4.3e-4	0.03	0.53	0.57	0.59	0.61	0.64	4570	1.0
y_mean[1338]	-0.46	3.9e-4	0.03	-0.51	-0.48	-0.46	-0.45	-0.41	4173	1.0
y_mean[1339]	-0.37	3.3e-4	0.02	-0.41	-0.38	-0.37	-0.35	-0.33	4752	1.0
y_mean[1340]	-1.03	4.5e-4	0.03	-1.09	-1.05	-1.03	-1.01	-0.97	4530	1.0
y_mean[1341]	-0.12	3.6e-4	0.03	-0.16	-0.13	-0.12	-0.1	-0.07	4841	1.0
y_mean[1342]	-0.88	4.8e-4	0.03	-0.95	-0.91	-0.88	-0.86	-0.82	4678	1.0
y_mean[1343]	-0.25	3.8e-4	0.03	-0.3	-0.27	-0.25	-0.23	-0.2	4518	1.0
y_mean[1344]	-1.09	4.2e-4	0.03	-1.14	-1.11	-1.09	-1.07	-1.03	4887	1.0
y_mean[1345]	-0.21	5.1e-4	0.03	-0.27	-0.23	-0.21	-0.19	-0.15	3994	1.0
y_mean[1346]	0.89	5.3e-4	0.04	0.81	0.86	0.89	0.91	0.96	4854	1.0
y_mean[1347]	0.43	7.1e-4	0.05	0.34	0.4	0.43	0.46	0.52	4240	1.0
y_mean[1348]	0.09	6.6e-4	0.04	0.01	0.07	0.09	0.12	0.17	3879	1.0
y_mean[1349]	0.68	5.9e-4	0.04	0.6	0.65	0.68	0.71	0.76	4643	1.0

y_mean[1350]	-0.07	5.6e-4	0.04	-0.14	-0.09	-0.07	-0.04	2.6e-3	4014	1.0
y_mean[1351]	-0.12	5.5e-4	0.04	-0.19	-0.14	-0.12	-0.09	-0.05	4246	1.0
y_mean[1352]	-0.65	3.7e-4	0.03	-0.7	-0.67	-0.65	-0.63	-0.6	4681	1.0
y_mean[1353]	0.08	3.1e-4	0.02	0.03	0.06	0.08	0.09	0.12	4878	1.0
y_mean[1354]	-0.07	4.6e-4	0.03	-0.13	-0.09	-0.07	-0.05	-0.01	4417	1.0
y_mean[1355]	1.05	5.0e-4	0.03	0.99	1.03	1.05	1.08	1.12	4166	1.0
y_mean[1356]	0.39	5.3e-4	0.03	0.32	0.37	0.39	0.41	0.46	4067	1.0
y_mean[1357]	-1.11	4.5e-4	0.03	-1.17	-1.13	-1.11	-1.09	-1.04	5198	1.0
y_mean[1358]	-1.01	4.7e-4	0.03	-1.07	-1.03	-1.01	-0.99	-0.95	4451	1.0
y_mean[1359]	0.33	6.3e-4	0.04	0.25	0.31	0.33	0.36	0.42	4518	1.0
y_mean[1360]	-0.44	3.4e-4	0.02	-0.48	-0.45	-0.44	-0.42	-0.39	4360	1.0
y_mean[1361]	0.14	3.3e-4	0.02	0.09	0.12	0.14	0.15	0.18	5002	1.0
y_mean[1362]	2.2	9.1e-4	0.06	2.08	2.15	2.2	2.24	2.32	4607	1.0
y_mean[1363]	-0.99	4.5e-4	0.03	-1.05	-1.01	-0.99	-0.97	-0.92	5014	1.0
y_mean[1364]	0.27	4.3e-4	0.03	0.22	0.25	0.27	0.29	0.33	4456	1.0
y_mean[1365]	1.4e-3	3.1e-4	0.02	-0.04	-0.01	1.2e-3	0.02	0.04	4974	1.0
y_mean[1366]	0.85	6.0e-4	0.04	0.77	0.82	0.85	0.87	0.92	4176	1.0
y_mean[1367]	-0.71	4.6e-4	0.03	-0.77	-0.73	-0.71	-0.68	-0.64	4946	1.0
y_mean[1368]	0.33	1.3e-3	0.08	0.16	0.27	0.33	0.38	0.49	4309	1.0
y_mean[1369]	-0.71	3.6e-4	0.03	-0.76	-0.73	-0.71	-0.7	-0.66	4932	1.0
y_mean[1370]	0.03	3.0e-4	0.02	-9.3e-3	0.02	0.03	0.04	0.07	4636	1.0
y_mean[1371]	0.52	5.8e-4	0.04	0.44	0.49	0.52	0.54	0.59	4328	1.0
y_mean[1372]	2.09	8.0e-4	0.05	1.99	2.06	2.09	2.13	2.2	4491	1.0
y_mean[1373]	1.0	7.5e-4	0.05	0.91	0.97	1.0	1.03	1.09	3786	1.0
y_mean[1374]	-0.63	3.3e-4	0.02	-0.68	-0.65	-0.63	-0.61	-0.58	5186	1.0
y_mean[1375]	0.81	6.3e-4	0.04	0.73	0.78	0.81	0.83	0.89	4200	1.0
y_mean[1376]	-1.18	4.4e-4	0.03	-1.24	-1.2	-1.18	-1.16	-1.12	5092	1.0
y_mean[1377]	0.52	4.3e-4	0.03	0.47	0.51	0.52	0.54	0.58	4667	1.0
y_mean[1378]	-0.51	3.2e-4	0.02	-0.55	-0.52	-0.51	-0.49	-0.47	4580	1.0
y_mean[1379]	0.17	3.5e-4	0.02	0.13	0.16	0.17	0.19	0.22	4267	1.0
y_mean[1380]	-0.39	3.7e-4	0.03	-0.44	-0.41	-0.39	-0.37	-0.34	5101	1.0
y_mean[1381]	0.49	4.5e-4	0.03	0.43	0.47	0.49	0.51	0.55	4658	1.0
y_mean[1382]	1.86	1.2e-3	0.07	1.73	1.82	1.86	1.91	2.0	3578	1.0
y_mean[1383]	0.46	6.2e-4	0.04	0.37	0.43	0.46	0.49	0.55	5059	1.0
y_mean[1384]	-1.04	4.8e-4	0.03	-1.1	-1.06	-1.04	-1.02	-0.98	4413	1.0
y_mean[1385]	0.53	5.3e-4	0.04	0.46	0.51	0.53	0.56	0.6	4543	1.0
y_mean[1386]	-0.96	5.4e-4	0.04	-1.02	-0.98	-0.96	-0.93	-0.89	4191	1.0
y_mean[1387]	0.49	6.5e-4	0.04	0.4	0.46	0.49	0.52	0.58	4621	1.0
y_mean[1388]	-0.72	3.7e-4	0.03	-0.77	-0.74	-0.72	-0.7	-0.67	5085	1.0
y_mean[1389]	-0.46	5.0e-4	0.03	-0.52	-0.48	-0.46	-0.44	-0.39	4210	1.0
y_mean[1390]	0.18	4.1e-4	0.03	0.13	0.17	0.18	0.2	0.24	4055	1.0
y_mean[1391]	-0.8	4.8e-4	0.03	-0.86	-0.82	-0.8	-0.78	-0.73	4856	1.0
y_mean[1392]	-0.51	3.1e-4	0.02	-0.55	-0.53	-0.51	-0.5	-0.47	5145	1.0
y_mean[1393]	-0.63	3.8e-4	0.03	-0.68	-0.65	-0.63	-0.61	-0.58	4906	1.0
y_mean[1394]	-0.29	4.2e-4	0.03	-0.35	-0.31	-0.29	-0.27	-0.23	4874	1.0
y_mean[1395]	-0.61	3.5e-4	0.03	-0.66	-0.63	-0.61	-0.59	-0.56	5276	1.0
y_mean[1396]	-0.51	2.9e-4	0.02	-0.55	-0.53	-0.51	-0.5	-0.47	5203	1.0
y_mean[1397]	0.28	5.6e-4	0.04	0.22	0.26	0.28	0.31	0.35	3982	1.0

y_mean[1398]	-0.03	4.8e-4	0.03	-0.1	-0.06	-0.03	-0.01	0.03	4644	1.0
y_mean[1399]	-0.02	3.0e-4	0.02	-0.06	-0.03	-0.02	-1.4e-3	0.03	4829	1.0
y_mean[1400]	-0.63	3.2e-4	0.02	-0.67	-0.65	-0.63	-0.62	-0.59	4906	1.0
y_mean[1401]	0.02	3.1e-4	0.02	-0.02	3.6e-3	0.02	0.03	0.06	4598	1.0
y_mean[1402]	0.31	6.0e-4	0.04	0.22	0.28	0.31	0.34	0.39	4966	1.0
y_mean[1403]	0.01	4.3e-4	0.03	-0.05	-6.7e-3	0.01	0.03	0.08	5194	1.0
y_mean[1404]	-0.29	4.3e-4	0.03	-0.35	-0.31	-0.29	-0.27	-0.23	4891	1.0
y_mean[1405]	-0.34	5.4e-4	0.04	-0.41	-0.37	-0.34	-0.32	-0.27	4762	1.0
y_mean[1406]	0.32	7.6e-4	0.05	0.22	0.28	0.32	0.35	0.42	4402	1.0
y_mean[1407]	1.08	7.1e-4	0.05	0.98	1.05	1.08	1.11	1.18	4753	1.0
y_mean[1408]	1.65	9.2e-4	0.06	1.53	1.61	1.65	1.69	1.76	4250	1.0
y_mean[1409]	-0.66	5.1e-4	0.04	-0.74	-0.69	-0.67	-0.64	-0.59	4916	1.0
y_mean[1410]	1.73	8.1e-4	0.06	1.62	1.69	1.72	1.76	1.84	4778	1.0
y_mean[1411]	2.24	9.5e-4	0.06	2.12	2.2	2.24	2.28	2.36	4137	1.0
y_mean[1412]	-0.05	4.3e-4	0.03	-0.11	-0.07	-0.05	-0.03	5.3e-3	4553	1.0
y_mean[1413]	1.19	7.0e-4	0.05	1.1	1.16	1.19	1.22	1.28	4547	1.0
y_mean[1414]	-0.29	4.1e-4	0.03	-0.34	-0.3	-0.29	-0.27	-0.23	4354	1.0
y_mean[1415]	0.22	3.1e-4	0.02	0.18	0.21	0.23	0.24	0.27	5122	1.0
y_mean[1416]	-0.48	3.5e-4	0.02	-0.52	-0.49	-0.48	-0.46	-0.43	4304	1.0
y_mean[1417]	-0.78	4.2e-4	0.03	-0.84	-0.8	-0.78	-0.76	-0.73	4927	1.0
y_mean[1418]	0.63	5.7e-4	0.04	0.56	0.61	0.63	0.66	0.71	4117	1.0
y_mean[1419]	-1.12	4.3e-4	0.03	-1.17	-1.14	-1.12	-1.1	-1.06	5006	1.0
y_mean[1420]	0.1	6.1e-4	0.04	0.02	0.07	0.1	0.12	0.17	4062	1.0
y_mean[1421]	-0.51	3.1e-4	0.02	-0.55	-0.53	-0.51	-0.5	-0.47	5060	1.0
y_mean[1422]	-0.22	4.2e-4	0.03	-0.27	-0.24	-0.22	-0.2	-0.16	4886	1.0
y_mean[1423]	0.2	3.9e-4	0.03	0.15	0.18	0.2	0.22	0.26	4912	1.0
y_mean[1424]	1.7e-3	4.7e-4	0.03	-0.06	-0.02	1.5e-3	0.02	0.06	4361	1.0
y_mean[1425]	0.69	4.6e-4	0.03	0.63	0.67	0.69	0.71	0.75	4395	1.0
y_mean[1426]	-0.56	3.1e-4	0.02	-0.61	-0.58	-0.57	-0.55	-0.52	5176	1.0
y_mean[1427]	0.58	4.2e-4	0.03	0.53	0.56	0.58	0.6	0.64	4670	1.0
y_mean[1428]	1.09	6.2e-4	0.04	1.01	1.06	1.09	1.11	1.17	4240	1.0
y_mean[1429]	-0.59	3.2e-4	0.02	-0.64	-0.61	-0.59	-0.58	-0.55	5203	1.0
y_mean[1430]	-0.03	6.5e-4	0.04	-0.12	-0.06	-0.04	-8.5e-3	0.05	4057	1.0
y_mean[1431]	-0.71	3.6e-4	0.03	-0.76	-0.73	-0.71	-0.69	-0.66	5077	1.0
y_mean[1432]	0.31	5.1e-4	0.03	0.25	0.29	0.31	0.33	0.37	3918	1.0
y_mean[1433]	0.72	5.4e-4	0.04	0.65	0.69	0.72	0.75	0.8	5081	1.0
y_mean[1434]	0.62	6.2e-4	0.04	0.54	0.6	0.62	0.65	0.71	4992	1.0
y_mean[1435]	0.23	8.1e-4	0.05	0.13	0.2	0.23	0.27	0.33	4121	1.0
y_mean[1436]	-0.68	6.4e-4	0.04	-0.76	-0.7	-0.68	-0.65	-0.59	4302	1.0
y_mean[1437]	0.15	6.5e-4	0.04	0.06	0.12	0.15	0.18	0.24	4687	1.0
y_mean[1438]	-0.49	3.1e-4	0.02	-0.53	-0.5	-0.49	-0.47	-0.44	4724	1.0
y_mean[1439]	0.9	6.1e-4	0.04	0.83	0.88	0.9	0.93	0.98	4166	1.0
y_mean[1440]	0.22	5.9e-4	0.04	0.14	0.19	0.22	0.25	0.3	4720	1.0
y_mean[1441]	-0.01	3.6e-4	0.02	-0.06	-0.03	-0.01	4.7e-3	0.04	4456	1.0
y_mean[1442]	0.45	5.4e-4	0.04	0.38	0.43	0.45	0.48	0.52	4395	1.0
y_mean[1443]	-1.1	5.2e-4	0.03	-1.16	-1.12	-1.1	-1.07	-1.03	4419	1.0
y_mean[1444]	-0.63	4.2e-4	0.03	-0.69	-0.65	-0.63	-0.61	-0.57	5267	1.0
y_mean[1445]	0.17	3.3e-4	0.02	0.12	0.15	0.17	0.18	0.21	4696	1.0

y_mean[1446]	0.51	7.2e-4	0.04	0.43	0.48	0.51	0.54	0.59	3566	1.0
y_mean[1447]	-0.51	3.1e-4	0.02	-0.55	-0.53	-0.51	-0.5	-0.47	4691	1.0
y_mean[1448]	0.26	4.1e-4	0.03	0.21	0.24	0.26	0.28	0.31	4138	1.0
y_mean[1449]	-0.33	7.9e-4	0.05	-0.43	-0.37	-0.33	-0.3	-0.23	3961	1.0
y_mean[1450]	-1.38	6.9e-4	0.05	-1.47	-1.42	-1.38	-1.35	-1.29	4430	1.0
y_mean[1451]	-0.49	2.9e-4	0.02	-0.53	-0.51	-0.49	-0.48	-0.45	5196	1.0
y_mean[1452]	-0.07	3.5e-4	0.02	-0.12	-0.09	-0.07	-0.06	-0.03	5031	1.0
y_mean[1453]	0.16	3.8e-4	0.03	0.11	0.14	0.16	0.18	0.22	5194	1.0
y_mean[1454]	-0.77	4.2e-4	0.03	-0.82	-0.79	-0.77	-0.75	-0.71	4879	1.0
y_mean[1455]	-0.47	4.6e-4	0.03	-0.54	-0.49	-0.47	-0.45	-0.41	5278	1.0
y_mean[1456]	0.99	4.0e-4	0.03	0.94	0.97	0.99	1.01	1.04	4662	1.0
y_mean[1457]	-0.62	3.4e-4	0.02	-0.66	-0.64	-0.62	-0.6	-0.57	4690	1.0
y_mean[1458]	-0.29	4.5e-4	0.03	-0.34	-0.3	-0.29	-0.27	-0.23	4021	1.0
y_mean[1459]	0.08	3.1e-4	0.02	0.04	0.07	0.08	0.1	0.12	4556	1.0
y_mean[1460]	0.14	5.9e-4	0.04	0.06	0.11	0.14	0.16	0.22	4622	1.0
y_mean[1461]	-0.54	2.9e-4	0.02	-0.58	-0.55	-0.54	-0.52	-0.5	5212	1.0
y_mean[1462]	-0.64	3.2e-4	0.02	-0.68	-0.65	-0.64	-0.62	-0.59	5049	1.0
y_mean[1463]	0.77	4.7e-4	0.03	0.71	0.75	0.77	0.79	0.84	4847	1.0
y_mean[1464]	0.01	3.3e-4	0.02	-0.03	-2.6e-3	0.01	0.03	0.06	4457	1.0
y_mean[1465]	-0.6	3.7e-4	0.03	-0.66	-0.62	-0.6	-0.59	-0.55	5304	1.0
y_mean[1466]	-1.15	4.5e-4	0.03	-1.21	-1.18	-1.15	-1.13	-1.09	5167	1.0
y_mean[1467]	-1.1	4.2e-4	0.03	-1.15	-1.12	-1.1	-1.08	-1.04	4947	1.0
y_mean[1468]	0.07	3.7e-4	0.02	0.02	0.05	0.07	0.08	0.11	4255	1.0
y_mean[1469]	-0.08	6.0e-4	0.04	-0.15	-0.1	-0.08	-0.05	4.9e-4	4079	1.0
y_mean[1470]	-0.29	4.0e-4	0.03	-0.35	-0.31	-0.29	-0.28	-0.24	4287	1.0
y_mean[1471]	-3.2e-3	4.9e-4	0.03	-0.07	-0.02	-3.5e-3	0.02	0.06	4263	1.0
y_mean[1472]	2.42	1.2e-3	0.08	2.26	2.36	2.42	2.47	2.57	3847	1.0
y_mean[1473]	-0.91	4.8e-4	0.03	-0.97	-0.93	-0.91	-0.89	-0.85	4473	1.0
y_mean[1474]	-0.11	5.4e-4	0.03	-0.18	-0.14	-0.11	-0.09	-0.05	3922	1.0
y_mean[1475]	-0.45	3.2e-4	0.02	-0.49	-0.46	-0.45	-0.43	-0.4	4843	1.0
y_mean[1476]	0.51	4.5e-4	0.03	0.45	0.49	0.51	0.53	0.57	4105	1.0
y_mean[1477]	-0.48	3.2e-4	0.02	-0.52	-0.49	-0.48	-0.46	-0.43	5097	1.0
y_mean[1478]	-0.55	3.1e-4	0.02	-0.59	-0.56	-0.55	-0.53	-0.5	5144	1.0
y_mean[1479]	-0.34	4.7e-4	0.03	-0.4	-0.36	-0.34	-0.31	-0.27	4399	1.0
y_mean[1480]	-1.08	4.2e-4	0.03	-1.14	-1.1	-1.08	-1.06	-1.02	4845	1.0
y_mean[1481]	-0.24	4.1e-4	0.03	-0.29	-0.26	-0.24	-0.22	-0.19	4265	1.0
y_mean[1482]	-0.04	4.2e-4	0.03	-0.1	-0.06	-0.04	-0.02	0.02	5133	1.0
y_mean[1483]	-0.25	4.4e-4	0.03	-0.3	-0.27	-0.25	-0.23	-0.19	4219	1.0
y_mean[1484]	-0.61	6.9e-4	0.05	-0.7	-0.64	-0.61	-0.58	-0.52	4305	1.0
y_mean[1485]	-0.21	4.0e-4	0.03	-0.27	-0.23	-0.21	-0.19	-0.16	4693	1.0
y_mean[1486]	-1.13	4.2e-4	0.03	-1.19	-1.15	-1.13	-1.11	-1.07	5075	1.0
y_mean[1487]	-1.19	4.7e-4	0.03	-1.25	-1.21	-1.19	-1.16	-1.12	5181	1.0
y_mean[1488]	5.7e-3	3.7e-4	0.03	-0.05	-0.01	5.4e-3	0.02	0.06	4999	1.0
y_mean[1489]	1.21	6.6e-4	0.05	1.11	1.18	1.21	1.24	1.3	4809	1.0
y_mean[1490]	1.29	8.4e-4	0.05	1.18	1.25	1.29	1.32	1.39	4126	1.0
y_mean[1491]	0.64	6.3e-4	0.04	0.56	0.62	0.64	0.67	0.72	4230	1.0
y_mean[1492]	-0.65	3.6e-4	0.03	-0.7	-0.67	-0.65	-0.64	-0.6	5136	1.0
y_mean[1493]	-1.1	4.3e-4	0.03	-1.16	-1.12	-1.11	-1.09	-1.04	4784	1.0

y_mean[1494]	-0.41	6.5e-4	0.04	-0.5	-0.44	-0.41	-0.38	-0.32	4466	1.0
y_mean[1495]	0.57	4.3e-4	0.03	0.51	0.55	0.57	0.59	0.63	4601	1.0
y_mean[1496]	1.46	6.6e-4	0.04	1.37	1.43	1.46	1.49	1.54	4629	1.0
y_mean[1497]	-0.7	5.0e-4	0.03	-0.77	-0.73	-0.7	-0.68	-0.64	4686	1.0
y_mean[1498]	-0.34	4.4e-4	0.03	-0.4	-0.36	-0.34	-0.32	-0.29	4325	1.0
y_mean[1499]	-0.56	3.3e-4	0.02	-0.6	-0.57	-0.56	-0.54	-0.51	5021	1.0
y_mean[1500]	0.16	4.3e-4	0.03	0.1	0.14	0.16	0.18	0.22	4728	1.0
y_mean[1501]	0.73	6.3e-4	0.04	0.65	0.7	0.73	0.76	0.81	4279	1.0
y_mean[1502]	1.3	5.6e-4	0.04	1.23	1.28	1.3	1.33	1.38	4886	1.0
y_mean[1503]	-0.46	3.2e-4	0.02	-0.5	-0.48	-0.46	-0.45	-0.41	5029	1.0
y_mean[1504]	3.9e-3	8.1e-4	0.06	-0.11	-0.03	4.1e-3	0.04	0.12	4990	1.0
y_mean[1505]	0.77	7.0e-4	0.05	0.67	0.74	0.77	0.81	0.87	5084	1.0
y_mean[1506]	-0.85	5.1e-4	0.04	-0.92	-0.88	-0.86	-0.83	-0.78	4914	1.0
y_mean[1507]	1.21	6.2e-4	0.04	1.13	1.18	1.21	1.24	1.29	4555	1.0
y_mean[1508]	0.94	5.5e-4	0.04	0.86	0.91	0.94	0.96	1.01	4684	1.0
y_mean[1509]	0.1	3.1e-4	0.02	0.05	0.08	0.1	0.11	0.14	4527	1.0
y_mean[1510]	-0.51	3.1e-4	0.02	-0.56	-0.53	-0.51	-0.5	-0.47	5054	1.0
y_mean[1511]	-0.51	3.3e-4	0.02	-0.55	-0.53	-0.51	-0.5	-0.47	4499	1.0
y_mean[1512]	-0.34	4.2e-4	0.03	-0.4	-0.36	-0.34	-0.32	-0.28	5124	1.0
y_mean[1513]	-0.64	3.3e-4	0.02	-0.68	-0.65	-0.64	-0.62	-0.59	5125	1.0
y_mean[1514]	-0.58	5.8e-4	0.04	-0.65	-0.61	-0.58	-0.55	-0.5	4338	1.0
y_mean[1515]	-0.06	4.0e-4	0.03	-0.11	-0.08	-0.06	-0.04	-5.6e-4	4957	1.0
y_mean[1516]	-0.04	3.5e-4	0.02	-0.08	-0.05	-0.04	-0.02	0.01	4781	1.0
y_mean[1517]	0.12	4.0e-4	0.03	0.07	0.1	0.12	0.13	0.17	4140	1.0
y_mean[1518]	-1.0	5.0e-4	0.03	-1.06	-1.02	-1.0	-0.98	-0.93	4342	1.0
y_mean[1519]	0.53	4.5e-4	0.03	0.47	0.51	0.53	0.55	0.59	4759	1.0
y_mean[1520]	-0.32	5.8e-4	0.04	-0.4	-0.35	-0.32	-0.29	-0.24	4599	1.0
y_mean[1521]	0.98	6.7e-4	0.05	0.89	0.95	0.98	1.02	1.08	5063	1.0
y_mean[1522]	-0.39	3.8e-4	0.03	-0.44	-0.41	-0.39	-0.37	-0.34	4605	1.0
y_mean[1523]	-1.21	4.7e-4	0.03	-1.27	-1.23	-1.21	-1.19	-1.14	5155	1.0
y_mean[1524]	-0.22	4.9e-4	0.03	-0.28	-0.24	-0.22	-0.2	-0.15	4052	1.0
y_mean[1525]	-0.09	3.6e-4	0.03	-0.14	-0.11	-0.09	-0.08	-0.04	4882	1.0
y_mean[1526]	-0.09	5.0e-4	0.03	-0.15	-0.11	-0.09	-0.07	-0.03	4033	1.0
y_mean[1527]	0.61	4.5e-4	0.03	0.55	0.59	0.61	0.63	0.67	4502	1.0
y_mean[1528]	0.58	6.4e-4	0.04	0.5	0.55	0.58	0.61	0.66	4356	1.0
y_mean[1529]	-0.5	3.5e-4	0.03	-0.55	-0.52	-0.5	-0.49	-0.45	5369	1.0
y_mean[1530]	0.89	5.9e-4	0.04	0.81	0.87	0.89	0.92	0.97	4747	1.0
y_mean[1531]	-0.9	7.7e-4	0.05	-1.0	-0.94	-0.9	-0.87	-0.81	3956	1.0
y_mean[1532]	1.76	7.2e-4	0.05	1.67	1.73	1.76	1.79	1.86	4237	1.0
y_mean[1533]	-0.53	3.1e-4	0.02	-0.57	-0.55	-0.53	-0.52	-0.49	4632	1.0
y_mean[1534]	-0.15	5.1e-4	0.03	-0.22	-0.17	-0.15	-0.13	-0.08	4271	1.0
y_mean[1535]	1.71	9.3e-4	0.06	1.59	1.67	1.71	1.75	1.84	4648	1.0
y_mean[1536]	0.11	5.0e-4	0.03	0.05	0.09	0.11	0.14	0.18	4780	1.0
y_mean[1537]	-0.02	4.7e-4	0.03	-0.08	-0.04	-0.02	1.2e-3	0.04	4525	1.0
y_mean[1538]	0.68	4.6e-4	0.03	0.62	0.66	0.68	0.7	0.74	4400	1.0
y_mean[1539]	-1.03	4.5e-4	0.03	-1.08	-1.05	-1.03	-1.01	-0.97	4519	1.0
y_mean[1540]	-0.66	5.4e-4	0.04	-0.74	-0.69	-0.66	-0.64	-0.59	4483	1.0
y_mean[1541]	-0.38	5.6e-4	0.04	-0.46	-0.41	-0.38	-0.36	-0.31	4829	1.0

y_mean[1542]	-0.55	7.8e-4	0.05	-0.64	-0.58	-0.55	-0.52	-0.45	3971	1.0
y_mean[1543]	-0.55	3.3e-4	0.02	-0.59	-0.56	-0.55	-0.53	-0.5	4572	1.0
y_mean[1544]	1.07	7.6e-4	0.05	0.98	1.04	1.07	1.1	1.16	3669	1.0
y_mean[1545]	-0.33	2.7e-4	0.02	-0.37	-0.34	-0.33	-0.32	-0.29	5166	1.0
y_mean[1546]	-0.18	4.9e-4	0.03	-0.24	-0.2	-0.18	-0.16	-0.12	4341	1.0
y_mean[1547]	-0.96	4.9e-4	0.03	-1.02	-0.98	-0.96	-0.93	-0.89	5070	1.0
y_mean[1548]	-0.44	2.9e-4	0.02	-0.48	-0.45	-0.44	-0.42	-0.39	5078	1.0
y_mean[1549]	-1.17	4.3e-4	0.03	-1.23	-1.19	-1.17	-1.15	-1.11	4903	1.0
y_mean[1550]	-0.53	5.7e-4	0.04	-0.61	-0.56	-0.53	-0.51	-0.46	4654	1.0
y_mean[1551]	-0.31	3.9e-4	0.03	-0.36	-0.33	-0.31	-0.29	-0.26	4322	1.0
y_mean[1552]	0.56	6.5e-4	0.04	0.48	0.53	0.56	0.59	0.64	4077	1.0
y_mean[1553]	-0.48	3.1e-4	0.02	-0.52	-0.49	-0.48	-0.46	-0.44	4840	1.0
y_mean[1554]	-0.6	5.2e-4	0.04	-0.67	-0.63	-0.6	-0.58	-0.53	4656	1.0
y_mean[1555]	0.73	5.2e-4	0.03	0.66	0.71	0.73	0.75	0.79	4286	1.0
y_mean[1556]	0.73	5.3e-4	0.03	0.66	0.71	0.73	0.76	0.8	4215	1.0
y_mean[1557]	-0.83	4.3e-4	0.03	-0.89	-0.85	-0.83	-0.81	-0.77	5147	1.0
y_mean[1558]	-0.18	4.9e-4	0.03	-0.24	-0.2	-0.18	-0.16	-0.11	4300	1.0
y_mean[1559]	-4.3e-3	3.1e-4	0.02	-0.04	-0.02	-4.3e-3	9.5e-3	0.04	4691	1.0
y_mean[1560]	0.2	3.6e-4	0.03	0.15	0.18	0.2	0.22	0.25	4980	1.0
y_mean[1561]	-0.28	5.3e-4	0.04	-0.35	-0.31	-0.28	-0.26	-0.21	4665	1.0
y_mean[1562]	-1.11	4.3e-4	0.03	-1.16	-1.13	-1.1	-1.09	-1.04	5046	1.0
y_mean[1563]	-0.3	4.8e-4	0.03	-0.37	-0.32	-0.3	-0.28	-0.24	4821	1.0
y_mean[1564]	0.16	6.7e-4	0.04	0.07	0.13	0.16	0.19	0.25	4402	1.0
y_mean[1565]	-0.29	4.0e-4	0.03	-0.34	-0.31	-0.29	-0.27	-0.23	4390	1.0
y_mean[1566]	0.25	5.2e-4	0.04	0.18	0.23	0.25	0.27	0.32	4905	1.0
y_mean[1567]	-8.4e-4	4.2e-4	0.03	-0.05	-0.02	-1.1e-3	0.02	0.06	4384	1.0
y_mean[1568]	1.19	8.2e-4	0.06	1.08	1.16	1.19	1.23	1.3	4583	1.0
y_mean[1569]	-0.42	2.7e-4	0.02	-0.46	-0.43	-0.42	-0.41	-0.38	5343	1.0
y_mean[1570]	0.41	6.4e-4	0.04	0.32	0.38	0.41	0.43	0.49	4205	1.0
y_mean[1571]	0.56	5.0e-4	0.03	0.5	0.54	0.56	0.59	0.63	4515	1.0
y_mean[1572]	0.68	4.4e-4	0.03	0.63	0.67	0.68	0.7	0.74	4473	1.0
y_mean[1573]	0.68	4.4e-4	0.03	0.63	0.66	0.68	0.7	0.74	4441	1.0
y_mean[1574]	-0.53	3.3e-4	0.02	-0.57	-0.55	-0.53	-0.52	-0.49	4518	1.0
y_mean[1575]	0.48	1.1e-3	0.08	0.33	0.43	0.48	0.54	0.64	4537	1.0
y_mean[1576]	0.81	7.6e-4	0.05	0.71	0.77	0.81	0.84	0.91	4391	1.0
y_mean[1577]	-0.37	5.5e-4	0.04	-0.45	-0.4	-0.37	-0.35	-0.3	4767	1.0
y_mean[1578]	-0.21	4.2e-4	0.03	-0.27	-0.23	-0.21	-0.19	-0.16	4292	1.0
y_mean[1579]	-0.33	5.4e-4	0.04	-0.4	-0.35	-0.33	-0.3	-0.25	4763	1.0
y_mean[1580]	-0.72	4.3e-4	0.03	-0.77	-0.74	-0.72	-0.7	-0.66	4757	1.0
y_mean[1581]	-0.16	4.5e-4	0.03	-0.22	-0.18	-0.16	-0.14	-0.1	4698	1.0
y_mean[1582]	0.11	4.2e-4	0.03	0.05	0.09	0.11	0.13	0.16	4645	1.0
y_mean[1583]	-1.03	4.7e-4	0.03	-1.09	-1.05	-1.03	-1.01	-0.96	5254	1.0
y_mean[1584]	-0.84	4.8e-4	0.03	-0.9	-0.86	-0.84	-0.82	-0.77	4847	1.0
y_mean[1585]	-0.2	4.2e-4	0.03	-0.25	-0.22	-0.2	-0.18	-0.15	4266	1.0
y_mean[1586]	0.69	5.3e-4	0.04	0.62	0.67	0.69	0.72	0.76	4627	1.0
y_mean[1587]	-0.48	3.1e-4	0.02	-0.52	-0.5	-0.48	-0.47	-0.44	4967	1.0
y_mean[1588]	-0.53	3.7e-4	0.03	-0.58	-0.55	-0.53	-0.51	-0.48	5393	1.0
y_mean[1589]	-0.51	2.9e-4	0.02	-0.56	-0.53	-0.51	-0.5	-0.47	5275	1.0

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y_mean[1590]    0.94   6.2e-4   0.04    0.86    0.91    0.94    0.96    1.02    4171   1.0
y_mean[1591]   -1.15   4.3e-4   0.03   -1.21   -1.17   -1.15   -1.13   -1.09    4985   1.0
y_mean[1592]   -0.98   4.4e-4   0.03   -1.04    -1.0   -0.98   -0.96   -0.92    4840   1.0
y_mean[1593]   -0.75   4.1e-4   0.03    -0.8   -0.77   -0.75   -0.73   -0.69    4852   1.0
y_mean[1594]   -1.09   4.6e-4   0.03   -1.15   -1.11   -1.09   -1.06   -1.02    4550   1.0
y_mean[1595]   -0.31   4.7e-4   0.03   -0.37   -0.33   -0.31   -0.29   -0.25    4213   1.0
y_mean[1596]   -1.01   4.4e-4   0.03   -1.07   -1.04   -1.01   -0.99   -0.95    4998   1.0
y_mean[1597]   -0.67   3.8e-4   0.03   -0.73   -0.69   -0.67   -0.66   -0.62    5190   1.0
y_mean[1598]    0.08   5.9e-4   0.04  3.7e-4    0.05    0.08     0.1    0.15    4206   1.0
y_mean[1599]   -0.21   3.3e-4   0.02   -0.26   -0.23   -0.21    -0.2   -0.17    4907   1.0
y_mean[1600]    0.54   7.9e-4   0.06    0.43     0.5    0.54    0.58    0.65    4895   1.0
y_mean[1601]   -0.91   4.8e-4   0.03   -0.98   -0.94   -0.91   -0.89   -0.85    4741   1.0
y_mean[1602]   -0.27   7.4e-4   0.05   -0.36    -0.3   -0.27   -0.24   -0.18    3907   1.0
y_mean[1603]     1.0   6.9e-4   0.05    0.92    0.97     1.0    1.03    1.09    4502   1.0
y_mean[1604]    0.52   6.2e-4   0.04    0.44    0.49    0.52    0.55    0.61    4846   1.0
y_mean[1605]    0.09   5.2e-4   0.04    0.02    0.07    0.09    0.12    0.16    4460   1.0
y_mean[1606]   -0.68   3.6e-4   0.03   -0.73    -0.7   -0.68   -0.66   -0.63    5157   1.0
y_mean[1607]   -0.44   3.5e-4   0.03   -0.48   -0.45   -0.44   -0.42   -0.38    5192   1.0
y_mean[1608]     0.4   4.2e-4   0.03    0.35    0.38     0.4    0.42    0.46    4401   1.0
y_mean[1609]   -0.76   3.9e-4   0.03   -0.81   -0.78   -0.76   -0.74    -0.7    4978   1.0
y_mean[1610]    1.57   8.1e-4   0.06    1.46    1.53    1.57    1.61    1.68    4736   1.0
y_mean[1611]   -0.51   3.6e-4   0.03   -0.56   -0.53   -0.51   -0.49   -0.46    4889   1.0
y_mean[1612]    0.93   8.7e-4   0.06    0.81    0.89    0.93    0.96    1.04    4409   1.0
y_mean[1613]    -1.1   4.3e-4   0.03   -1.16   -1.12    -1.1   -1.08   -1.04    5000   1.0
y_mean[1614]   -0.21   4.1e-4   0.03   -0.27   -0.23   -0.21   -0.19   -0.16    4890   1.0
y_mean[1615]     0.4   4.0e-4   0.03    0.35    0.38     0.4    0.42    0.45    4155   1.0
y_mean[1616]   -0.42   4.4e-4   0.03   -0.47   -0.44   -0.42    -0.4   -0.36    4262   1.0
y_mean[1617]    -0.1   4.7e-4   0.03   -0.16   -0.12    -0.1   -0.08   -0.05    4130   1.0
y_mean[1618]    0.43   5.2e-4   0.04    0.36    0.41    0.43    0.45     0.5    4928   1.0
y_mean[1619]   -0.44   3.2e-4   0.02   -0.49   -0.46   -0.44   -0.43    -0.4    4605   1.0
y_mean[1620]    1.03   9.3e-4   0.06    0.91    0.99    1.03    1.07    1.15    4279   1.0
y_mean[1621]   -0.21   3.6e-4   0.03   -0.26   -0.23   -0.21   -0.19   -0.16    5140   1.0
y_mean[1622]   -0.54   3.1e-4   0.02   -0.58   -0.55   -0.54   -0.52   -0.49    5123   1.0
y_mean[1623]    0.61   5.5e-4   0.04    0.54    0.59    0.61    0.63    0.68    4251   1.0
y_mean[1624]   -0.82   4.3e-4   0.03   -0.87   -0.84   -0.82    -0.8   -0.76    4954   1.0
y_mean[1625]  -7.5e-3   3.0e-4   0.02   -0.05   -0.02  -7.5e-3  6.4e-3    0.03    4885   1.0
y_mean[1626]    -0.6   3.5e-4   0.02   -0.64   -0.61    -0.6   -0.58   -0.55    4575   1.0
y_mean[1627]    0.17   3.9e-4   0.02    0.12    0.15    0.17    0.18    0.22    4102   1.0
y_mean[1628]   -0.52   3.1e-4   0.02   -0.56   -0.53   -0.52    -0.5   -0.47    5074   1.0
y_mean[1629]   -0.57   3.1e-4   0.02   -0.61   -0.58   -0.57   -0.55   -0.52    5160   1.0
y_mean[1630]    0.81   7.5e-4   0.05    0.72    0.78    0.81    0.85    0.91    4226   1.0
y_mean[1631]   -1.27   5.1e-4   0.04   -1.34    -1.3   -1.27   -1.25    -1.2    5121   1.0
y_mean[1632]    0.82   6.0e-4   0.04    0.74     0.8    0.82    0.85     0.9    4521   1.0
y_mean[1633]    0.58   5.5e-4   0.04    0.51    0.56    0.58    0.61    0.66    4946   1.0
y_mean[1634]    0.98   8.9e-4   0.06    0.88    0.94    0.98    1.02     1.1    4145   1.0
y_mean[1635]    0.32   4.3e-4   0.03    0.26     0.3    0.32    0.34    0.38    4714   1.0
y_mean[1636]   -0.24   7.2e-4   0.05   -0.35   -0.28   -0.25   -0.21   -0.14    5146   1.0
y_mean[1637]   -0.32   3.5e-4   0.02   -0.37   -0.33   -0.32    -0.3   -0.27    4604   1.0
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y_mean[1638]	0.78	6.2e-4	0.04	0.7	0.76	0.78	0.81	0.86	4404	1.0
y_mean[1639]	0.24	3.5e-4	0.02	0.2	0.23	0.24	0.26	0.29	4286	1.0
y_mean[1640]	0.14	4.5e-4	0.03	0.08	0.12	0.14	0.16	0.19	4168	1.0
y_mean[1641]	-0.04	3.2e-4	0.02	-0.08	-0.06	-0.04	-0.03	3.1e-3	4962	1.0
y_mean[1642]	-0.02	3.2e-4	0.02	-0.06	-0.03	-0.02	-2.7e-3	0.03	4620	1.0
y_mean[1643]	-0.96	4.5e-4	0.03	-1.02	-0.98	-0.96	-0.94	-0.9	4763	1.0
y_mean[1644]	-0.67	3.4e-4	0.02	-0.72	-0.69	-0.67	-0.66	-0.62	5096	1.0
y_mean[1645]	-0.58	3.2e-4	0.02	-0.63	-0.6	-0.58	-0.57	-0.54	5197	1.0
y_mean[1646]	1.37	6.2e-4	0.04	1.28	1.34	1.37	1.4	1.45	4631	1.0
y_mean[1647]	0.12	6.0e-4	0.04	0.04	0.09	0.12	0.15	0.2	4373	1.0
y_mean[1648]	-0.14	5.7e-4	0.04	-0.21	-0.16	-0.14	-0.12	-0.07	3861	1.0
y_mean[1649]	-0.13	3.7e-4	0.03	-0.18	-0.15	-0.13	-0.11	-0.08	4971	1.0
y_mean[1650]	-0.28	3.5e-4	0.02	-0.33	-0.3	-0.28	-0.26	-0.23	4854	1.0
y_mean[1651]	-0.43	3.7e-4	0.03	-0.49	-0.45	-0.43	-0.42	-0.38	5220	1.0
y_mean[1652]	0.35	5.2e-4	0.03	0.28	0.33	0.35	0.37	0.41	4008	1.0
y_mean[1653]	1.47	8.1e-4	0.06	1.36	1.43	1.47	1.51	1.58	4955	1.0
y_mean[1654]	-0.62	3.7e-4	0.02	-0.67	-0.64	-0.62	-0.61	-0.57	4615	1.0
y_mean[1655]	0.58	7.1e-4	0.04	0.5	0.55	0.58	0.61	0.66	3649	1.0
y_mean[1656]	0.54	4.4e-4	0.03	0.48	0.52	0.54	0.56	0.59	4611	1.0
y_mean[1657]	-0.36	3.6e-4	0.02	-0.41	-0.37	-0.36	-0.34	-0.31	4468	1.0
y_mean[1658]	1.61	8.5e-4	0.05	1.5	1.58	1.61	1.65	1.72	4087	1.0
y_mean[1659]	0.11	4.0e-4	0.03	0.05	0.09	0.11	0.13	0.17	5144	1.0
y_mean[1660]	0.08	2.5e-4	0.02	0.04	0.07	0.08	0.09	0.11	5111	1.0
y_mean[1661]	-0.01	3.3e-4	0.02	-0.06	-0.03	-0.01	-4.1e-5	0.03	4559	1.0
y_mean[1662]	2.31	1.5e-3	0.1	2.12	2.25	2.31	2.37	2.5	4319	1.0
y_mean[1663]	-0.86	5.1e-4	0.03	-0.92	-0.88	-0.86	-0.84	-0.79	4353	1.0
y_mean[1664]	0.77	5.2e-4	0.03	0.7	0.75	0.77	0.79	0.84	4349	1.0
y_mean[1665]	-0.12	4.0e-4	0.03	-0.17	-0.14	-0.12	-0.1	-0.07	4374	1.0
y_mean[1666]	-0.29	3.3e-4	0.02	-0.34	-0.31	-0.29	-0.28	-0.25	4685	1.0
y_mean[1667]	-0.69	3.5e-4	0.02	-0.74	-0.71	-0.69	-0.67	-0.64	5083	1.0
y_mean[1668]	0.43	5.5e-4	0.04	0.35	0.41	0.43	0.46	0.5	4789	1.0
y_mean[1669]	-0.09	5.0e-4	0.03	-0.15	-0.11	-0.09	-0.07	-0.03	4042	1.0
y_mean[1670]	-0.59	6.8e-4	0.05	-0.69	-0.63	-0.59	-0.56	-0.5	4724	1.0
y_mean[1671]	-0.15	4.3e-4	0.03	-0.21	-0.17	-0.15	-0.13	-0.09	4478	1.0
y_mean[1672]	-0.36	3.6e-4	0.02	-0.41	-0.38	-0.36	-0.35	-0.31	4462	1.0
y_mean[1673]	-0.04	8.1e-4	0.06	-0.15	-0.08	-0.04	-4.1e-3	0.07	5045	1.0
y_mean[1674]	-0.29	4.0e-4	0.03	-0.34	-0.31	-0.29	-0.27	-0.24	4531	1.0
y_mean[1675]	-0.7	3.7e-4	0.03	-0.75	-0.72	-0.7	-0.68	-0.65	5123	1.0
y_mean[1676]	-1.08	4.9e-4	0.03	-1.15	-1.1	-1.08	-1.06	-1.02	4442	1.0
y_mean[1677]	-0.6	3.3e-4	0.02	-0.64	-0.61	-0.6	-0.58	-0.55	5230	1.0
y_mean[1678]	-0.47	3.1e-4	0.02	-0.51	-0.49	-0.47	-0.46	-0.43	4933	1.0
y_mean[1679]	-0.05	7.3e-4	0.05	-0.15	-0.08	-0.05	-0.02	0.04	4085	1.0
y_mean[1680]	-0.33	3.8e-4	0.03	-0.38	-0.35	-0.33	-0.31	-0.28	4508	1.0
y_mean[1681]	1.96	1.1e-3	0.08	1.81	1.9	1.96	2.01	2.11	4900	1.0
y_mean[1682]	-0.72	5.1e-4	0.03	-0.78	-0.74	-0.72	-0.69	-0.65	4682	1.0
y_mean[1683]	-0.14	4.2e-4	0.03	-0.2	-0.16	-0.14	-0.12	-0.08	4853	1.0
y_mean[1684]	-0.26	2.8e-4	0.02	-0.3	-0.28	-0.26	-0.25	-0.22	5103	1.0
y_mean[1685]	-1.12	4.5e-4	0.03	-1.18	-1.15	-1.12	-1.1	-1.06	5187	1.0

y_mean[1686]	1.82	9.4e-4	0.06	1.71	1.79	1.82	1.86	1.93	3762	1.0
y_mean[1687]	-0.58	3.8e-4	0.03	-0.62	-0.59	-0.58	-0.56	-0.52	4445	1.0
y_mean[1688]	-1.08	4.3e-4	0.03	-1.14	-1.1	-1.08	-1.06	-1.02	5099	1.0
y_mean[1689]	-0.04	3.3e-4	0.02	-0.08	-0.05	-0.04	-0.02	7.8e-3	5036	1.0
y_mean[1690]	0.62	6.6e-4	0.04	0.54	0.59	0.62	0.65	0.7	4003	1.0
y_mean[1691]	2.68	1.1e-3	0.08	2.53	2.63	2.68	2.73	2.82	4524	1.0
y_mean[1692]	0.58	5.0e-4	0.03	0.52	0.56	0.58	0.6	0.65	4488	1.0
y_mean[1693]	-0.44	3.3e-4	0.02	-0.48	-0.46	-0.44	-0.43	-0.4	4417	1.0
y_mean[1694]	0.23	3.9e-4	0.03	0.18	0.22	0.23	0.25	0.28	4163	1.0
y_mean[1695]	-1.06	4.6e-4	0.03	-1.12	-1.09	-1.06	-1.04	-1.0	4526	1.0
y_mean[1696]	-0.68	3.6e-4	0.02	-0.73	-0.7	-0.68	-0.66	-0.63	4846	1.0
y_mean[1697]	1.47	7.5e-4	0.05	1.37	1.43	1.47	1.5	1.57	4922	1.0
y_mean[1698]	0.68	4.2e-4	0.03	0.62	0.66	0.68	0.7	0.74	4583	1.0
y_mean[1699]	0.25	5.5e-4	0.04	0.17	0.22	0.25	0.28	0.33	5259	1.0
y_mean[1700]	0.02	6.8e-4	0.04	-0.07	-9.9e-3	0.02	0.05	0.11	4174	1.0
y_mean[1701]	0.25	3.5e-4	0.02	0.2	0.23	0.25	0.26	0.29	4576	1.0
y_mean[1702]	-0.38	5.4e-4	0.04	-0.46	-0.41	-0.38	-0.36	-0.31	4790	1.0
y_mean[1703]	-0.57	3.2e-4	0.02	-0.61	-0.59	-0.57	-0.56	-0.53	4661	1.0
y_mean[1704]	0.14	2.8e-4	0.02	0.1	0.13	0.14	0.15	0.18	4838	1.0
y_mean[1705]	-0.16	3.6e-4	0.03	-0.21	-0.18	-0.16	-0.14	-0.11	4881	1.0
y_mean[1706]	-0.57	5.7e-4	0.04	-0.65	-0.6	-0.57	-0.55	-0.49	4604	1.0
y_mean[1707]	0.34	5.2e-4	0.03	0.27	0.32	0.34	0.36	0.4	3995	1.0
y_mean[1708]	2.38	1.0e-3	0.07	2.24	2.33	2.38	2.43	2.51	4567	1.0
y_mean[1709]	0.13	3.8e-4	0.03	0.08	0.11	0.13	0.15	0.18	4400	1.0
y_mean[1710]	-0.96	4.6e-4	0.03	-1.02	-0.98	-0.96	-0.94	-0.89	4881	1.0
y_mean[1711]	0.66	6.9e-4	0.05	0.57	0.63	0.66	0.69	0.76	5025	1.0
y_mean[1712]	0.62	4.8e-4	0.03	0.55	0.59	0.62	0.64	0.68	4443	1.0
y_mean[1713]	-0.26	3.6e-4	0.02	-0.31	-0.28	-0.26	-0.25	-0.22	4493	1.0
y_mean[1714]	-0.67	3.5e-4	0.02	-0.72	-0.69	-0.67	-0.65	-0.62	5132	1.0
y_mean[1715]	0.76	4.8e-4	0.03	0.69	0.73	0.76	0.78	0.82	4315	1.0
y_mean[1716]	-0.42	3.3e-4	0.02	-0.47	-0.44	-0.42	-0.41	-0.38	4971	1.0
y_mean[1717]	-0.25	4.9e-4	0.03	-0.31	-0.27	-0.24	-0.22	-0.18	4242	1.0
y_mean[1718]	2.07	9.2e-4	0.06	1.95	2.03	2.07	2.11	2.19	4463	1.0
y_mean[1719]	-0.04	4.4e-4	0.03	-0.1	-0.06	-0.04	-0.02	0.02	4412	1.0
y_mean[1720]	2.29	1.1e-3	0.08	2.14	2.24	2.29	2.34	2.44	4782	1.0
y_mean[1721]	-0.42	3.4e-4	0.02	-0.47	-0.44	-0.42	-0.41	-0.38	4440	1.0
y_mean[1722]	-0.26	3.6e-4	0.02	-0.31	-0.28	-0.26	-0.24	-0.21	4475	1.0
y_mean[1723]	-0.64	3.4e-4	0.02	-0.68	-0.65	-0.64	-0.62	-0.59	5191	1.0
y_mean[1724]	0.38	4.7e-4	0.03	0.32	0.36	0.38	0.4	0.44	4433	1.0
y_mean[1725]	0.25	5.1e-4	0.03	0.19	0.23	0.25	0.27	0.32	3989	1.0
y_mean[1726]	0.53	3.6e-4	0.02	0.48	0.51	0.53	0.55	0.58	4607	1.0
y_mean[1727]	-0.16	5.4e-4	0.04	-0.23	-0.18	-0.16	-0.13	-0.09	4412	1.0
y_mean[1728]	1.29	6.5e-4	0.04	1.21	1.26	1.29	1.32	1.38	4483	1.0
y_mean[1729]	2.46	1.2e-3	0.08	2.3	2.4	2.46	2.51	2.62	4236	1.0
y_mean[1730]	-0.74	5.1e-4	0.03	-0.8	-0.76	-0.74	-0.71	-0.67	4544	1.0
y_mean[1731]	0.38	5.5e-4	0.04	0.3	0.35	0.38	0.41	0.46	5133	1.0
y_mean[1732]	-0.38	4.5e-4	0.03	-0.43	-0.4	-0.38	-0.36	-0.32	4245	1.0
y_mean[1733]	0.09	3.1e-4	0.02	0.05	0.07	0.09	0.1	0.13	4520	1.0

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y_mean[1734]	-0.4	3.4e-4	0.02	-0.45	-0.42	-0.4	-0.39	-0.36	4861	1.0
y_mean[1735]	-0.61	3.7e-4	0.03	-0.66	-0.63	-0.61	-0.59	-0.55	5297	1.0
y_mean[1736]	-0.56	3.1e-4	0.02	-0.6	-0.58	-0.56	-0.55	-0.51	5169	1.0
y_mean[1737]	-1.03	5.1e-4	0.03	-1.09	-1.05	-1.03	-1.01	-0.96	4348	1.0
y_mean[1738]	-0.42	5.9e-4	0.04	-0.5	-0.45	-0.42	-0.39	-0.34	4936	1.0
y_mean[1739]	0.23	2.6e-4	0.02	0.19	0.22	0.23	0.24	0.27	4934	1.0
y_mean[1740]	-0.18	5.1e-4	0.03	-0.24	-0.2	-0.18	-0.16	-0.11	4111	1.0
y_mean[1741]	-0.49	4.6e-4	0.03	-0.55	-0.51	-0.49	-0.47	-0.43	4192	1.0
y_mean[1742]	0.21	2.9e-4	0.02	0.17	0.19	0.21	0.22	0.25	4678	1.0
y_mean[1743]	1.08	5.0e-4	0.03	1.02	1.06	1.08	1.1	1.15	4236	1.0
y_mean[1744]	-0.69	4.4e-4	0.03	-0.75	-0.71	-0.69	-0.67	-0.63	5153	1.0
y_mean[1745]	-0.63	3.3e-4	0.02	-0.67	-0.64	-0.63	-0.61	-0.58	5193	1.0
y_mean[1746]	0.81	4.9e-4	0.03	0.75	0.79	0.81	0.83	0.88	4368	1.0
y_mean[1747]	3.42	2.1e-3	0.15	3.15	3.33	3.42	3.52	3.71	4936	1.0
y_mean[1748]	1.09	7.5e-4	0.05	0.99	1.05	1.09	1.12	1.18	4135	1.0
y_mean[1749]	0.69	4.8e-4	0.03	0.63	0.67	0.69	0.71	0.76	4964	1.0
y_mean[1750]	0.66	4.6e-4	0.03	0.6	0.64	0.66	0.68	0.73	5062	1.0
y_mean[1751]	-0.2	4.3e-4	0.03	-0.26	-0.22	-0.2	-0.18	-0.14	4895	1.0
y_mean[1752]	1.06	7.7e-4	0.05	0.96	1.02	1.06	1.09	1.16	4674	1.0
y_mean[1753]	-0.93	4.7e-4	0.03	-0.99	-0.95	-0.93	-0.91	-0.87	4460	1.0
y_mean[1754]	0.21	3.7e-4	0.02	0.16	0.19	0.21	0.23	0.26	4205	1.0
y_mean[1755]	0.25	3.6e-4	0.02	0.2	0.24	0.25	0.27	0.3	4455	1.0
y_mean[1756]	-1.54	1.6e-3	0.1	-1.74	-1.62	-1.54	-1.48	-1.34	3908	1.0
y_mean[1757]	0.84	6.1e-4	0.04	0.76	0.82	0.84	0.87	0.92	4286	1.0
y_mean[1758]	-0.1	6.3e-4	0.04	-0.18	-0.13	-0.1	-0.08	-0.03	3816	1.0
y_mean[1759]	0.31	4.3e-4	0.03	0.25	0.29	0.31	0.33	0.37	4681	1.0
y_mean[1760]	-0.51	5.7e-4	0.04	-0.58	-0.53	-0.51	-0.48	-0.43	4671	1.0
y_mean[1761]	-0.61	3.4e-4	0.02	-0.66	-0.63	-0.61	-0.59	-0.56	4659	1.0
y_mean[1762]	0.38	5.0e-4	0.03	0.31	0.35	0.38	0.4	0.44	4754	1.0
y_mean[1763]	0.46	3.2e-4	0.02	0.42	0.45	0.46	0.48	0.51	5050	1.0
y_mean[1764]	-0.3	4.4e-4	0.03	-0.36	-0.32	-0.3	-0.28	-0.24	4961	1.0
y_mean[1765]	1.41	6.3e-4	0.04	1.32	1.38	1.4	1.43	1.49	4507	1.0
y_mean[1766]	2.04	1.2e-3	0.09	1.88	1.98	2.04	2.1	2.22	5021	1.0
y_mean[1767]	-0.26	4.8e-4	0.03	-0.32	-0.28	-0.26	-0.24	-0.2	4151	1.0
y_mean[1768]	-0.13	3.5e-4	0.02	-0.18	-0.15	-0.13	-0.11	-0.08	4930	1.0
y_mean[1769]	-0.23	5.7e-4	0.04	-0.3	-0.26	-0.23	-0.21	-0.16	3885	1.0
y_mean[1770]	-0.48	3.5e-4	0.02	-0.53	-0.5	-0.48	-0.47	-0.44	4727	1.0
y_mean[1771]	1.4	6.5e-4	0.04	1.32	1.37	1.4	1.43	1.49	4491	1.0
y_mean[1772]	0.09	4.2e-4	0.03	0.04	0.07	0.09	0.11	0.15	4185	1.0
y_mean[1773]	0.43	5.5e-4	0.04	0.36	0.4	0.43	0.45	0.5	4172	1.0
y_mean[1774]	-0.67	3.6e-4	0.03	-0.72	-0.68	-0.67	-0.65	-0.61	5176	1.0
y_mean[1775]	0.09	4.5e-4	0.03	0.03	0.07	0.09	0.11	0.15	4772	1.0
y_mean[1776]	-6.2e-3	6.5e-4	0.04	-0.09	-0.03	-6.5e-3	0.02	0.07	3805	1.0
y_mean[1777]	-0.71	3.8e-4	0.03	-0.77	-0.73	-0.71	-0.7	-0.66	5110	1.0
y_mean[1778]	0.92	8.5e-4	0.05	0.82	0.89	0.92	0.96	1.03	4108	1.0
y_mean[1779]	0.99	6.1e-4	0.04	0.91	0.96	0.99	1.02	1.08	4875	1.0
y_mean[1780]	-0.21	4.1e-4	0.03	-0.27	-0.23	-0.21	-0.19	-0.16	4890	1.0
y_mean[1781]	-0.98	5.3e-4	0.03	-1.04	-1.0	-0.98	-0.95	-0.91	4265	1.0

y_mean[1782]	-0.87	5.0e-4	0.03	-0.93	-0.89	-0.87	-0.84	-0.8	4489	1.0
y_mean[1783]	-0.83	4.7e-4	0.03	-0.89	-0.85	-0.83	-0.81	-0.76	4962	1.0
y_mean[1784]	-1.18	4.4e-4	0.03	-1.24	-1.2	-1.18	-1.16	-1.11	5070	1.0
y_mean[1785]	0.33	6.1e-4	0.04	0.25	0.3	0.33	0.35	0.41	4510	1.0
y_mean[1786]	0.22	3.6e-4	0.02	0.17	0.2	0.22	0.23	0.26	4402	1.0
y_mean[1787]	-0.41	3.6e-4	0.03	-0.46	-0.42	-0.41	-0.39	-0.36	4973	1.0
y_mean[1788]	0.79	7.0e-4	0.04	0.7	0.76	0.79	0.82	0.88	3951	1.0
y_mean[1789]	0.51	6.4e-4	0.04	0.43	0.48	0.51	0.53	0.58	3787	1.0
y_mean[1790]	0.36	4.9e-4	0.03	0.29	0.34	0.36	0.38	0.42	4762	1.0
y_mean[1791]	-0.72	4.6e-4	0.03	-0.78	-0.74	-0.72	-0.7	-0.66	4826	1.0
y_mean[1792]	0.34	4.9e-4	0.03	0.27	0.32	0.34	0.36	0.41	4974	1.0
y_mean[1793]	-0.61	3.6e-4	0.03	-0.66	-0.63	-0.61	-0.59	-0.55	5288	1.0
y_mean[1794]	1.0	8.2e-4	0.05	0.9	0.96	1.0	1.03	1.11	4363	1.0
y_mean[1795]	-0.68	3.5e-4	0.02	-0.73	-0.7	-0.68	-0.67	-0.64	4909	1.0
y_mean[1796]	-0.28	4.8e-4	0.03	-0.35	-0.31	-0.28	-0.26	-0.22	4816	1.0
y_mean[1797]	-0.73	3.9e-4	0.03	-0.78	-0.74	-0.73	-0.71	-0.67	5037	1.0
y_mean[1798]	0.92	7.2e-4	0.05	0.82	0.89	0.92	0.95	1.02	4659	1.0
y_mean[1799]	-0.6	3.3e-4	0.02	-0.64	-0.61	-0.6	-0.58	-0.55	4712	1.0
y_mean[1800]	0.42	4.4e-4	0.03	0.37	0.4	0.42	0.44	0.48	4152	1.0
ypred[1]	0.22	0.01	0.67	-1.11	-0.23	0.23	0.68	1.56	4038	1.0
ypred[2]	-0.51	0.01	0.69	-1.84	-0.99	-0.52	-0.04	0.88	4010	1.0
ypred[3]	-0.14	0.01	0.68	-1.45	-0.61	-0.15	0.3	1.21	3988	1.0
ypred[4]	-0.81	0.01	0.67	-2.14	-1.27	-0.83	-0.36	0.5	4004	1.0
ypred[5]	-0.03	0.01	0.68	-1.37	-0.49	-0.02	0.43	1.31	4098	1.0
ypred[6]	-0.59	0.01	0.68	-1.94	-1.05	-0.58	-0.12	0.75	3768	1.0
ypred[7]	0.95	0.01	0.68	-0.37	0.49	0.96	1.42	2.24	3970	1.0
ypred[8]	-0.53	0.01	0.68	-1.87	-0.97	-0.52	-0.08	0.81	4044	1.0
ypred[9]	-0.25	0.01	0.69	-1.57	-0.72	-0.24	0.22	1.12	3997	1.0
ypred[10]	1.06	0.01	0.68	-0.32	0.62	1.06	1.52	2.38	3816	1.0
ypred[11]	1.17	0.01	0.68	-0.16	0.71	1.18	1.63	2.48	3835	1.0
ypred[12]	-0.43	0.01	0.7	-1.8	-0.9	-0.43	0.04	0.95	4129	1.0
ypred[13]	0.18	0.01	0.68	-1.14	-0.26	0.18	0.62	1.55	3488	1.0
ypred[14]	9.6e-3	0.01	0.69	-1.4	-0.44	0.02	0.48	1.34	4124	1.0
ypred[15]	-1.23	0.01	0.69	-2.6	-1.69	-1.23	-0.77	0.11	4186	1.0
ypred[16]	0.88	0.01	0.69	-0.48	0.4	0.87	1.35	2.25	3885	1.0
ypred[17]	1.21	0.01	0.68	-0.06	0.74	1.21	1.67	2.58	4092	1.0
ypred[18]	0.29	0.01	0.68	-0.99	-0.17	0.28	0.75	1.63	3851	1.0
ypred[19]	1.25	0.01	0.7	-0.08	0.77	1.25	1.72	2.59	3972	1.0
ypred[20]	-0.48	0.01	0.69	-1.8	-0.95	-0.48	-0.02	0.87	3785	1.0
ypred[21]	-0.7	0.01	0.69	-2.08	-1.16	-0.71	-0.24	0.66	3696	1.0
ypred[22]	-0.28	0.01	0.67	-1.58	-0.74	-0.28	0.16	1.02	3959	1.0
ypred[23]	0.22	0.01	0.69	-1.16	-0.24	0.23	0.69	1.55	3728	1.0
ypred[24]	-0.05	0.01	0.67	-1.39	-0.49	-0.02	0.4	1.23	3906	1.0
ypred[25]	0.28	0.01	0.68	-1.04	-0.18	0.28	0.74	1.58	3959	1.0
ypred[26]	-0.42	0.01	0.69	-1.76	-0.89	-0.41	0.04	0.91	4019	1.0
ypred[27]	-0.31	0.01	0.68	-1.63	-0.77	-0.31	0.14	1.03	3788	1.0
ypred[28]	0.05	0.01	0.68	-1.31	-0.4	0.05	0.52	1.37	4005	1.0
ypred[29]	-0.61	0.01	0.69	-1.97	-1.08	-0.6	-0.16	0.71	3942	1.0

ypred[30]	-0.08	0.01	0.68	-1.41	-0.53	-0.09	0.38	1.24	3777	1.0
ypred[31]	0.13	0.01	0.68	-1.2	-0.35	0.14	0.59	1.47	4044	1.0
ypred[32]	1.37	0.01	0.69	9.1e-3	0.91	1.38	1.83	2.71	3902	1.0
ypred[33]	-0.11	0.01	0.68	-1.42	-0.57	-0.11	0.34	1.27	4066	1.0
ypred[34]	-0.63	0.01	0.69	-1.95	-1.11	-0.64	-0.18	0.71	4081	1.0
ypred[35]	-0.05	0.01	0.67	-1.36	-0.5	-0.04	0.4	1.27	4322	1.0
ypred[36]	-0.15	0.01	0.68	-1.48	-0.61	-0.15	0.31	1.18	3810	1.0
ypred[37]	-0.36	0.01	0.69	-1.7	-0.83	-0.36	0.12	1.01	4131	1.0
ypred[38]	0.15	0.01	0.68	-1.18	-0.31	0.16	0.6	1.51	3883	1.0
ypred[39]	1.93	0.01	0.67	0.62	1.47	1.92	2.38	3.23	4245	1.0
ypred[40]	-0.6	0.01	0.68	-1.91	-1.07	-0.6	-0.15	0.71	4026	1.0
ypred[41]	-0.36	0.01	0.68	-1.7	-0.81	-0.35	0.11	0.96	3887	1.0
ypred[42]	-0.64	0.01	0.68	-1.95	-1.08	-0.64	-0.18	0.73	3939	1.0
ypred[43]	0.62	0.01	0.68	-0.72	0.16	0.62	1.08	1.95	3621	1.0
ypred[44]	-0.32	0.01	0.67	-1.66	-0.77	-0.32	0.14	1.0	3963	1.0
ypred[45]	-0.65	0.01	0.68	-2.01	-1.09	-0.65	-0.19	0.65	4046	1.0
ypred[46]	-0.03	0.01	0.68	-1.4	-0.49	-0.04	0.44	1.31	3687	1.0
ypred[47]	-0.4	0.01	0.69	-1.77	-0.86	-0.41	0.05	0.96	3993	1.0
ypred[48]	-0.1	0.01	0.69	-1.45	-0.55	-0.12	0.36	1.29	3708	1.0
ypred[49]	-0.33	0.01	0.68	-1.66	-0.79	-0.33	0.13	1.01	3765	1.0
ypred[50]	-0.58	0.01	0.68	-1.91	-1.05	-0.59	-0.11	0.75	3968	1.0
ypred[51]	-0.51	0.01	0.68	-1.84	-0.98	-0.5	-0.04	0.83	4097	1.0
ypred[52]	0.05	0.01	0.68	-1.3	-0.41	0.05	0.52	1.38	3668	1.0
ypred[53]	-0.93	0.01	0.67	-2.23	-1.38	-0.94	-0.47	0.4	3885	1.0
ypred[54]	-0.73	0.01	0.68	-2.08	-1.18	-0.74	-0.27	0.58	3967	1.0
ypred[55]	-1.02	0.01	0.69	-2.33	-1.49	-1.02	-0.57	0.32	3919	1.0
ypred[56]	1.06	0.01	0.68	-0.26	0.6	1.05	1.52	2.39	3917	1.0
ypred[57]	1.03	0.01	0.69	-0.35	0.57	1.04	1.5	2.34	3944	1.0
ypred[58]	0.44	0.01	0.69	-0.91	-0.03	0.43	0.9	1.8	3859	1.0
ypred[59]	-0.15	0.01	0.69	-1.52	-0.64	-0.14	0.32	1.19	3653	1.0
ypred[60]	-0.56	0.01	0.68	-1.91	-1.02	-0.55	-0.11	0.78	4005	1.0
ypred[61]	-0.22	0.01	0.68	-1.6	-0.68	-0.21	0.24	1.11	3870	1.0
ypred[62]	0.89	0.01	0.67	-0.46	0.44	0.89	1.35	2.2	3584	1.0
ypred[63]	-1.02	0.01	0.67	-2.35	-1.47	-1.01	-0.56	0.3	3924	1.0
ypred[64]	-0.84	0.01	0.67	-2.15	-1.31	-0.84	-0.39	0.49	3950	1.0
ypred[65]	0.13	0.01	0.68	-1.19	-0.33	0.14	0.58	1.45	3977	1.0
ypred[66]	-0.81	0.01	0.69	-2.14	-1.27	-0.82	-0.36	0.58	3653	1.0
ypred[67]	-0.65	0.01	0.67	-1.96	-1.1	-0.66	-0.21	0.7	3847	1.0
ypred[68]	-0.15	0.01	0.69	-1.51	-0.62	-0.15	0.31	1.21	3707	1.0
ypred[69]	0.1	0.01	0.68	-1.27	-0.35	0.1	0.56	1.43	4247	1.0
ypred[70]	-0.26	0.01	0.66	-1.51	-0.71	-0.27	0.19	1.02	4015	1.0
ypred[71]	-0.64	0.01	0.69	-1.99	-1.12	-0.64	-0.17	0.72	3582	1.0
ypred[72]	-0.41	0.01	0.68	-1.7	-0.87	-0.43	0.05	0.94	3853	1.0
ypred[73]	-1.04	0.01	0.68	-2.37	-1.51	-1.04	-0.57	0.28	4014	1.0
ypred[74]	-1.08	0.01	0.69	-2.43	-1.54	-1.09	-0.62	0.27	4020	1.0
ypred[75]	0.4	0.01	0.69	-0.93	-0.06	0.41	0.87	1.75	4168	1.0
ypred[76]	-1.0	0.01	0.69	-2.37	-1.45	-1.0	-0.54	0.36	4050	1.0
ypred[77]	0.14	0.01	0.69	-1.24	-0.32	0.14	0.61	1.5	3985	1.0

ypred[78]	-0.17	0.01	0.7	-1.54	-0.65	-0.17	0.32	1.2	3978	1.0
ypred[79]	-0.95	0.01	0.67	-2.27	-1.4	-0.95	-0.49	0.34	3913	1.0
ypred[80]	-0.39	0.01	0.68	-1.71	-0.85	-0.38	0.05	0.88	4042	1.0
ypred[81]	-0.26	0.01	0.69	-1.59	-0.72	-0.26	0.2	1.1	3852	1.0
ypred[82]	-0.02	0.01	0.68	-1.33	-0.48	-0.02	0.44	1.29	4145	1.0
ypred[83]	0.1	0.01	0.69	-1.24	-0.36	0.09	0.57	1.44	3897	1.0
ypred[84]	0.18	0.01	0.68	-1.19	-0.27	0.18	0.65	1.51	3929	1.0
ypred[85]	0.31	0.01	0.68	-1.03	-0.14	0.31	0.76	1.68	3786	1.0
ypred[86]	-0.28	0.01	0.68	-1.61	-0.74	-0.28	0.19	1.07	4194	1.0
ypred[87]	-0.51	0.01	0.7	-1.89	-0.96	-0.52	-0.04	0.86	4118	1.0
ypred[88]	-0.48	0.01	0.68	-1.84	-0.93	-0.47	-0.02	0.88	3881	1.0
ypred[89]	-0.84	0.01	0.68	-2.15	-1.3	-0.85	-0.37	0.47	4055	1.0
ypred[90]	-0.07	0.01	0.67	-1.42	-0.52	-0.06	0.37	1.24	4004	1.0
ypred[91]	-0.28	0.01	0.69	-1.66	-0.74	-0.28	0.18	1.06	3778	1.0
ypred[92]	-1.01	0.01	0.68	-2.31	-1.46	-1.01	-0.55	0.32	3951	1.0
ypred[93]	-0.32	0.01	0.69	-1.69	-0.78	-0.32	0.14	1.03	3999	1.0
ypred[94]	-0.31	0.01	0.68	-1.65	-0.78	-0.32	0.17	1.01	4155	1.0
ypred[95]	0.3	0.01	0.68	-1.04	-0.14	0.3	0.76	1.66	4048	1.0
ypred[96]	-0.31	0.01	0.68	-1.65	-0.76	-0.31	0.14	1.06	4093	1.0
ypred[97]	1.03	0.01	0.69	-0.33	0.58	1.03	1.51	2.37	4211	1.0
ypred[98]	-0.46	0.01	0.68	-1.79	-0.93	-0.46	-3.8e-3	0.87	4158	1.0
ypred[99]	-0.15	0.01	0.68	-1.46	-0.6	-0.16	0.3	1.22	4074	1.0
ypred[100]	-0.93	0.01	0.68	-2.27	-1.4	-0.94	-0.48	0.4	3969	1.0
ypred[101]	0.08	0.01	0.68	-1.29	-0.38	0.08	0.53	1.45	3861	1.0
ypred[102]	-0.12	0.01	0.69	-1.46	-0.58	-0.12	0.33	1.29	4063	1.0
ypred[103]	0.56	0.01	0.69	-0.81	0.1	0.55	1.04	1.88	4011	1.0
ypred[104]	-0.2	0.01	0.68	-1.51	-0.66	-0.2	0.26	1.12	4121	1.0
ypred[105]	-0.67	0.01	0.69	-2.01	-1.14	-0.66	-0.2	0.68	4109	1.0
ypred[106]	-0.4	0.01	0.69	-1.73	-0.86	-0.43	0.06	0.98	3835	1.0
ypred[107]	-0.1	0.01	0.69	-1.46	-0.57	-0.1	0.37	1.25	3641	1.0
ypred[108]	0.31	0.01	0.69	-1.05	-0.15	0.32	0.78	1.66	3799	1.0
ypred[109]	2.14	0.01	0.69	0.76	1.69	2.14	2.6	3.43	4057	1.0
ypred[110]	1.37	0.01	0.67	0.07	0.93	1.38	1.82	2.69	3739	1.0
ypred[111]	-0.41	0.01	0.68	-1.76	-0.87	-0.39	0.06	0.92	3920	1.0
ypred[112]	-0.08	0.01	0.68	-1.43	-0.53	-0.07	0.37	1.22	3877	1.0
ypred[113]	-0.73	0.01	0.68	-2.05	-1.2	-0.73	-0.28	0.59	4111	1.0
ypred[114]	-0.7	0.01	0.69	-2.02	-1.16	-0.71	-0.24	0.68	3998	1.0
ypred[115]	0.18	0.01	0.69	-1.18	-0.27	0.18	0.65	1.56	3853	1.0
ypred[116]	0.31	0.01	0.69	-1.04	-0.15	0.31	0.76	1.67	3959	1.0
ypred[117]	0.12	0.01	0.69	-1.18	-0.34	0.12	0.6	1.43	3666	1.0
ypred[118]	1.29	0.01	0.69	-0.08	0.82	1.29	1.75	2.67	4168	1.0
ypred[119]	-0.12	0.01	0.67	-1.42	-0.57	-0.13	0.33	1.2	3881	1.0
ypred[120]	-0.18	0.01	0.68	-1.55	-0.63	-0.17	0.27	1.15	3741	1.0
ypred[121]	-0.49	0.01	0.69	-1.84	-0.97	-0.48	-0.01	0.88	4118	1.0
ypred[122]	-5.7e-3	0.01	0.68	-1.34	-0.47	2.5e-3	0.44	1.34	3897	1.0
ypred[123]	1.59	0.01	0.68	0.23	1.14	1.58	2.05	2.93	3962	1.0
ypred[124]	-0.27	0.01	0.68	-1.63	-0.73	-0.28	0.19	1.1	3770	1.0
ypred[125]	0.27	0.01	0.69	-1.11	-0.19	0.27	0.73	1.62	4103	1.0

ypred[126]	-0.82	0.01	0.68	-2.17	-1.26	-0.81	-0.35	0.45	3946	1.0
ypred[127]	-0.11	0.01	0.69	-1.47	-0.58	-0.11	0.36	1.25	3917	1.0
ypred[128]	-0.39	0.01	0.69	-1.72	-0.86	-0.39	0.08	0.94	4179	1.0
ypred[129]	1.0	0.01	0.68	-0.28	0.54	0.99	1.44	2.34	3353	1.0
ypred[130]	0.12	0.01	0.68	-1.19	-0.34	0.11	0.58	1.46	4056	1.0
ypred[131]	-0.89	0.01	0.68	-2.21	-1.36	-0.9	-0.43	0.48	4274	1.0
ypred[132]	-0.49	0.01	0.68	-1.81	-0.95	-0.5	-0.04	0.86	3562	1.0
ypred[133]	0.82	0.01	0.68	-0.55	0.38	0.83	1.28	2.2	4196	1.0
ypred[134]	-0.23	0.01	0.67	-1.52	-0.69	-0.24	0.23	1.07	3878	1.0
ypred[135]	0.07	0.01	0.67	-1.26	-0.37	0.08	0.54	1.38	3781	1.0
ypred[136]	0.45	0.01	0.68	-0.88	-2.1e-3	0.45	0.91	1.78	3967	1.0
ypred[137]	-0.12	0.01	0.68	-1.46	-0.59	-0.11	0.34	1.21	3840	1.0
ypred[138]	2.35	0.01	0.68	1.02	1.89	2.35	2.8	3.71	3869	1.0
ypred[139]	-0.93	0.01	0.69	-2.3	-1.41	-0.92	-0.45	0.4	3737	1.0
ypred[140]	-0.15	0.01	0.68	-1.45	-0.61	-0.15	0.3	1.17	3674	1.0
ypred[141]	-1.08	0.01	0.68	-2.38	-1.55	-1.08	-0.62	0.24	3882	1.0
ypred[142]	-2.8e-3	0.01	0.67	-1.34	-0.44	-1.3e-3	0.46	1.33	3903	1.0
ypred[143]	0.19	0.01	0.69	-1.2	-0.28	0.19	0.65	1.54	3717	1.0
ypred[144]	-0.55	0.01	0.68	-1.87	-1.01	-0.55	-0.09	0.77	3648	1.0
ypred[145]	0.19	0.01	0.68	-1.19	-0.26	0.18	0.65	1.48	3845	1.0
ypred[146]	-0.24	0.01	0.67	-1.55	-0.68	-0.24	0.2	1.12	4064	1.0
ypred[147]	-0.14	0.01	0.68	-1.47	-0.59	-0.14	0.33	1.19	3811	1.0
ypred[148]	0.45	0.01	0.68	-0.92	-0.01	0.47	0.92	1.77	3583	1.0
ypred[149]	0.95	0.01	0.69	-0.39	0.47	0.95	1.41	2.3	3961	1.0
ypred[150]	0.51	0.01	0.69	-0.87	0.03	0.53	0.97	1.86	4036	1.0
ypred[151]	1.25	0.01	0.68	-0.04	0.79	1.23	1.71	2.62	3926	1.0
ypred[152]	-0.46	0.01	0.67	-1.8	-0.89	-0.45	-0.01	0.81	4145	1.0
ypred[153]	1.58	0.01	0.68	0.27	1.12	1.58	2.03	2.91	3982	1.0
ypred[154]	-0.55	0.01	0.68	-1.85	-1.03	-0.55	-0.09	0.76	4076	1.0
ypred[155]	0.18	0.01	0.69	-1.18	-0.28	0.18	0.64	1.55	3846	1.0
ypred[156]	1.66	0.01	0.69	0.32	1.19	1.66	2.13	3.02	3817	1.0
ypred[157]	-0.98	0.01	0.68	-2.3	-1.43	-0.98	-0.53	0.39	3875	1.0
ypred[158]	0.89	0.01	0.69	-0.45	0.42	0.9	1.36	2.27	3863	1.0
ypred[159]	-0.16	0.01	0.68	-1.5	-0.61	-0.17	0.3	1.2	3647	1.0
ypred[160]	-1.17	0.01	0.68	-2.5	-1.65	-1.16	-0.7	0.11	3983	1.0
ypred[161]	-0.58	0.01	0.69	-1.9	-1.05	-0.58	-0.11	0.79	3723	1.0
ypred[162]	-0.5	0.01	0.69	-1.87	-0.96	-0.5	-0.04	0.84	3413	1.0
ypred[163]	0.5	0.01	0.68	-0.82	0.02	0.49	0.95	1.86	4044	1.0
ypred[164]	0.62	0.01	0.67	-0.68	0.16	0.61	1.06	1.99	4247	1.0
ypred[165]	-0.11	0.01	0.67	-1.44	-0.57	-0.11	0.35	1.2	3916	1.0
ypred[166]	-0.27	0.01	0.68	-1.6	-0.7	-0.27	0.18	1.05	4010	1.0
ypred[167]	-0.57	0.01	0.69	-1.89	-1.04	-0.57	-0.1	0.76	3844	1.0
ypred[168]	-0.11	0.01	0.68	-1.45	-0.56	-0.11	0.35	1.26	3493	1.0
ypred[169]	0.28	0.01	0.69	-1.1	-0.17	0.28	0.73	1.66	3614	1.0
ypred[170]	-0.04	0.01	0.68	-1.42	-0.5	-0.03	0.41	1.32	4104	1.0
ypred[171]	-0.25	0.01	0.68	-1.56	-0.72	-0.25	0.2	1.08	4028	1.0
ypred[172]	-1.21	0.01	0.69	-2.58	-1.68	-1.22	-0.74	0.15	3975	1.0
ypred[173]	-0.5	0.01	0.69	-1.83	-0.96	-0.51	-0.04	0.89	3749	1.0

ypred[174]	-0.75	0.01	0.69	-2.11	-1.21	-0.74	-0.28	0.58	4142	1.0
ypred[175]	-0.25	0.01	0.68	-1.58	-0.71	-0.25	0.21	1.05	3954	1.0
ypred[176]	-0.63	0.01	0.68	-1.96	-1.09	-0.65	-0.17	0.71	3712	1.0
ypred[177]	-0.33	0.01	0.68	-1.68	-0.78	-0.33	0.13	1.01	3796	1.0
ypred[178]	-0.08	0.01	0.68	-1.38	-0.54	-0.08	0.38	1.27	3945	1.0
ypred[179]	0.02	0.01	0.68	-1.31	-0.43	0.02	0.49	1.35	4180	1.0
ypred[180]	-0.34	0.01	0.69	-1.7	-0.83	-0.34	0.13	1.02	3938	1.0
ypred[181]	0.23	0.01	0.67	-1.08	-0.22	0.21	0.67	1.59	4140	1.0
ypred[182]	-0.98	0.01	0.68	-2.37	-1.42	-0.99	-0.53	0.3	4070	1.0
ypred[183]	-0.02	0.01	0.68	-1.37	-0.48	-0.01	0.44	1.31	3830	1.0
ypred[184]	-0.07	0.01	0.67	-1.42	-0.52	-0.07	0.4	1.25	3932	1.0
ypred[185]	-0.4	0.01	0.67	-1.73	-0.85	-0.39	0.05	0.93	4018	1.0
ypred[186]	-0.16	0.01	0.68	-1.51	-0.61	-0.16	0.29	1.15	3937	1.0
ypred[187]	0.14	0.01	0.67	-1.16	-0.32	0.14	0.6	1.43	3992	1.0
ypred[188]	-0.68	0.01	0.66	-1.96	-1.13	-0.69	-0.23	0.62	3840	1.0
ypred[189]	-0.43	0.01	0.69	-1.78	-0.9	-0.43	0.02	0.95	3799	1.0
ypred[190]	-1.31	0.01	0.66	-2.64	-1.75	-1.31	-0.86	-0.02	3912	1.0
ypred[191]	-0.18	0.01	0.68	-1.48	-0.65	-0.18	0.29	1.1	3853	1.0
ypred[192]	-0.26	0.01	0.67	-1.58	-0.71	-0.26	0.19	1.05	4199	1.0
ypred[193]	-0.49	0.01	0.68	-1.83	-0.94	-0.49	-0.02	0.82	3990	1.0
ypred[194]	-0.11	0.01	0.69	-1.44	-0.57	-0.12	0.36	1.23	4226	1.0
ypred[195]	0.1	0.01	0.69	-1.25	-0.35	0.1	0.55	1.44	3523	1.0
ypred[196]	-0.04	0.01	0.7	-1.39	-0.5	-0.06	0.41	1.38	3938	1.0
ypred[197]	-0.26	0.01	0.69	-1.61	-0.71	-0.26	0.2	1.08	3943	1.0
ypred[198]	0.17	0.01	0.69	-1.18	-0.3	0.17	0.63	1.5	4189	1.0
ypred[199]	-0.78	0.01	0.69	-2.15	-1.25	-0.78	-0.31	0.6	4072	1.0
ypred[200]	-0.95	0.01	0.68	-2.28	-1.41	-0.94	-0.49	0.37	4054	1.0
y_predicted[1]	0.22	2.6e-4	0.02	0.18	0.2	0.22	0.23	0.25	5002	1.0
y_predicted[2]	-0.5	3.1e-4	0.02	-0.54	-0.51	-0.5	-0.48	-0.45	5059	1.0
y_predicted[3]	-0.13	3.5e-4	0.02	-0.17	-0.14	-0.13	-0.11	-0.08	4890	1.0
y_predicted[4]	-0.8	4.1e-4	0.03	-0.86	-0.82	-0.8	-0.78	-0.74	4975	1.0
y_predicted[5]	-0.04	3.3e-4	0.02	-0.08	-0.05	-0.04	-0.02	8.9e-3	4601	1.0
y_predicted[6]	-0.6	3.2e-4	0.02	-0.65	-0.62	-0.6	-0.59	-0.56	5119	1.0
y_predicted[7]	0.95	6.4e-4	0.04	0.88	0.93	0.95	0.98	1.03	3759	1.0
y_predicted[8]	-0.53	3.4e-4	0.02	-0.58	-0.55	-0.53	-0.51	-0.48	5337	1.0
y_predicted[9]	-0.27	4.2e-4	0.03	-0.32	-0.29	-0.27	-0.25	-0.21	4363	1.0
y_predicted[10]	1.05	6.7e-4	0.04	0.97	1.02	1.05	1.08	1.14	4224	1.0
y_predicted[11]	1.18	8.7e-4	0.06	1.07	1.14	1.18	1.22	1.29	4546	1.0
y_predicted[12]	-0.44	3.2e-4	0.02	-0.48	-0.45	-0.44	-0.42	-0.39	4806	1.0
y_predicted[13]	0.19	3.4e-4	0.02	0.14	0.17	0.19	0.2	0.23	4447	1.0
y_predicted[14]	0.02	3.0e-4	0.02	-0.02	5.0e-3	0.02	0.03	0.06	4685	1.0
y_predicted[15]	-1.22	4.4e-4	0.03	-1.28	-1.24	-1.22	-1.2	-1.16	4958	1.0
y_predicted[16]	0.85	6.4e-4	0.04	0.77	0.82	0.85	0.88	0.93	4167	1.0
y_predicted[17]	1.21	6.3e-4	0.04	1.12	1.18	1.2	1.23	1.29	4786	1.0
y_predicted[18]	0.28	6.6e-4	0.05	0.19	0.25	0.28	0.31	0.37	4764	1.0
y_predicted[19]	1.25	5.9e-4	0.04	1.17	1.22	1.25	1.27	1.32	4630	1.0
y_predicted[20]	-0.48	3.1e-4	0.02	-0.52	-0.5	-0.48	-0.47	-0.44	4967	1.0
y_predicted[21]	-0.7	3.7e-4	0.03	-0.75	-0.72	-0.7	-0.68	-0.65	5125	1.0

y_predicted[22]	-0.29	4.8e-4	0.03	-0.35	-0.31	-0.29	-0.26	-0.22	4823	1.0
y_predicted[23]	0.22	8.1e-4	0.05	0.12	0.19	0.22	0.26	0.33	4190	1.0
y_predicted[24]	-0.05	4.2e-4	0.03	-0.1	-0.07	-0.05	-0.03	5.7e-3	4535	1.0
y_predicted[25]	0.27	4.1e-4	0.03	0.22	0.25	0.27	0.29	0.32	4180	1.0
y_predicted[26]	-0.42	2.9e-4	0.02	-0.46	-0.43	-0.42	-0.4	-0.38	5086	1.0
y_predicted[27]	-0.3	4.9e-4	0.03	-0.37	-0.32	-0.3	-0.28	-0.23	4807	1.0
y_predicted[28]	0.04	3.0e-4	0.02	-7.9e-4	0.03	0.04	0.05	0.08	4680	1.0
y_predicted[29]	-0.61	3.3e-4	0.02	-0.65	-0.62	-0.61	-0.59	-0.56	4759	1.0
y_predicted[30]	-0.08	6.0e-4	0.04	-0.16	-0.11	-0.08	-0.06	-5.9e-3	4061	1.0
y_predicted[31]	0.12	6.1e-4	0.04	0.04	0.09	0.12	0.15	0.2	4220	1.0
y_predicted[32]	1.37	6.9e-4	0.05	1.28	1.34	1.37	1.4	1.46	4412	1.0
y_predicted[33]	-0.1	5.0e-4	0.03	-0.17	-0.13	-0.11	-0.08	-0.04	4608	1.0
y_predicted[34]	-0.64	3.4e-4	0.02	-0.69	-0.66	-0.64	-0.63	-0.6	5182	1.0
y_predicted[35]	-0.05	3.2e-4	0.02	-0.09	-0.06	-0.05	-0.03	-4.0e-3	4717	1.0
y_predicted[36]	-0.16	4.3e-4	0.03	-0.22	-0.18	-0.16	-0.14	-0.1	4947	1.0
y_predicted[37]	-0.36	3.6e-4	0.02	-0.41	-0.38	-0.36	-0.35	-0.32	4483	1.0
y_predicted[38]	0.14	3.3e-4	0.02	0.1	0.13	0.14	0.16	0.19	4356	1.0
y_predicted[39]	1.94	1.3e-3	0.08	1.78	1.88	1.94	1.99	2.09	3773	1.0
y_predicted[40]	-0.59	3.1e-4	0.02	-0.63	-0.6	-0.59	-0.58	-0.55	4894	1.0
y_predicted[41]	-0.36	3.7e-4	0.03	-0.41	-0.37	-0.35	-0.34	-0.3	4957	1.0
y_predicted[42]	-0.63	5.3e-4	0.04	-0.71	-0.66	-0.64	-0.61	-0.56	4588	1.0
y_predicted[43]	0.63	4.2e-4	0.03	0.57	0.61	0.63	0.65	0.68	4568	1.0
y_predicted[44]	-0.31	4.9e-4	0.03	-0.37	-0.33	-0.31	-0.29	-0.25	3901	1.0
y_predicted[45]	-0.65	3.4e-4	0.02	-0.7	-0.67	-0.65	-0.64	-0.6	5167	1.0
y_predicted[46]	-0.03	4.2e-4	0.03	-0.08	-0.05	-0.03	-10.0e-3	0.03	4484	1.0
y_predicted[47]	-0.41	3.7e-4	0.03	-0.46	-0.43	-0.41	-0.39	-0.36	5164	1.0
y_predicted[48]	-0.1	5.9e-4	0.04	-0.17	-0.13	-0.1	-0.08	-0.03	3839	1.0
y_predicted[49]	-0.32	5.0e-4	0.03	-0.39	-0.34	-0.32	-0.3	-0.25	4799	1.0
y_predicted[50]	-0.58	3.2e-4	0.02	-0.62	-0.6	-0.58	-0.56	-0.53	5193	1.0
y_predicted[51]	-0.5	3.8e-4	0.02	-0.55	-0.51	-0.5	-0.48	-0.45	4261	1.0
y_predicted[52]	0.05	6.1e-4	0.04	-0.02	0.03	0.05	0.08	0.13	3967	1.0
y_predicted[53]	-0.94	4.6e-4	0.03	-1.0	-0.96	-0.94	-0.92	-0.88	4798	1.0
y_predicted[54]	-0.74	4.1e-4	0.03	-0.8	-0.76	-0.74	-0.72	-0.68	5079	1.0
y_predicted[55]	-1.03	4.5e-4	0.03	-1.08	-1.05	-1.03	-1.01	-0.97	4559	1.0
y_predicted[56]	1.04	7.3e-4	0.05	0.94	1.01	1.04	1.07	1.14	4669	1.0
y_predicted[57]	1.03	1.0e-3	0.06	0.9	0.98	1.03	1.07	1.15	3669	1.0
y_predicted[58]	0.45	5.9e-4	0.04	0.38	0.43	0.45	0.48	0.53	4060	1.0
y_predicted[59]	-0.16	6.4e-4	0.04	-0.23	-0.18	-0.16	-0.13	-0.08	3795	1.0
y_predicted[60]	-0.56	3.1e-4	0.02	-0.6	-0.57	-0.56	-0.54	-0.51	5100	1.0
y_predicted[61]	-0.21	4.6e-4	0.03	-0.28	-0.24	-0.21	-0.19	-0.15	4548	1.0
y_predicted[62]	0.89	5.9e-4	0.04	0.81	0.86	0.89	0.91	0.97	4180	1.0
y_predicted[63]	-1.0	4.4e-4	0.03	-1.06	-1.02	-1.0	-0.98	-0.94	5029	1.0
y_predicted[64]	-0.83	5.3e-4	0.04	-0.89	-0.85	-0.83	-0.8	-0.76	4389	1.0
y_predicted[65]	0.15	8.0e-4	0.05	0.04	0.12	0.15	0.19	0.25	4439	1.0
y_predicted[66]	-0.82	4.3e-4	0.03	-0.88	-0.84	-0.82	-0.8	-0.76	4955	1.0
y_predicted[67]	-0.63	3.4e-4	0.02	-0.68	-0.65	-0.63	-0.62	-0.58	5204	1.0
y_predicted[68]	-0.14	6.4e-4	0.04	-0.23	-0.17	-0.14	-0.12	-0.06	4203	1.0
y_predicted[69]	0.12	3.1e-4	0.02	0.08	0.1	0.12	0.13	0.16	4662	1.0

y_predicted[70]	-0.27	4.3e-4	0.03	-0.32	-0.28	-0.27	-0.25	-0.21	4192	1.0
y_predicted[71]	-0.63	3.2e-4	0.02	-0.67	-0.64	-0.63	-0.61	-0.58	4938	1.0
y_predicted[72]	-0.41	3.9e-4	0.03	-0.46	-0.43	-0.41	-0.4	-0.36	4122	1.0
y_predicted[73]	-1.04	4.3e-4	0.03	-1.09	-1.06	-1.04	-1.02	-0.98	4843	1.0
y_predicted[74]	-1.08	4.3e-4	0.03	-1.14	-1.1	-1.08	-1.06	-1.02	4742	1.0
y_predicted[75]	0.41	5.0e-4	0.03	0.35	0.39	0.41	0.44	0.48	4542	1.0
y_predicted[76]	-1.01	4.8e-4	0.03	-1.07	-1.03	-1.01	-0.98	-0.94	4397	1.0
y_predicted[77]	0.17	3.4e-4	0.02	0.12	0.15	0.17	0.18	0.21	4294	1.0
y_predicted[78]	-0.16	3.7e-4	0.03	-0.21	-0.18	-0.16	-0.14	-0.11	4927	1.0
y_predicted[79]	-0.96	4.6e-4	0.03	-1.02	-0.98	-0.96	-0.94	-0.89	4881	1.0
y_predicted[80]	-0.41	3.3e-4	0.02	-0.46	-0.43	-0.41	-0.4	-0.37	4702	1.0
y_predicted[81]	-0.28	3.2e-4	0.02	-0.32	-0.3	-0.28	-0.27	-0.24	4834	1.0
y_predicted[82]	-2.8e-4	3.0e-4	0.02	-0.04	-0.01	-2.5e-4	0.01	0.04	4794	1.0
y_predicted[83]	0.1	4.8e-4	0.03	0.04	0.08	0.1	0.12	0.16	4569	1.0
y_predicted[84]	0.18	2.5e-4	0.02	0.14	0.16	0.18	0.19	0.21	5108	1.0
y_predicted[85]	0.32	7.6e-4	0.05	0.22	0.29	0.32	0.36	0.43	4688	1.0
y_predicted[86]	-0.27	2.8e-4	0.02	-0.31	-0.29	-0.27	-0.26	-0.23	5342	1.0
y_predicted[87]	-0.52	3.0e-4	0.02	-0.56	-0.53	-0.52	-0.51	-0.48	4869	1.0
y_predicted[88]	-0.48	6.2e-4	0.04	-0.56	-0.5	-0.48	-0.45	-0.39	4799	1.0
y_predicted[89]	-0.82	4.7e-4	0.03	-0.89	-0.84	-0.82	-0.8	-0.76	4901	1.0
y_predicted[90]	-0.07	4.2e-4	0.03	-0.13	-0.09	-0.07	-0.05	-0.02	4563	1.0
y_predicted[91]	-0.29	3.1e-4	0.02	-0.33	-0.3	-0.29	-0.27	-0.24	4831	1.0
y_predicted[92]	-1.01	4.8e-4	0.03	-1.07	-1.03	-1.01	-0.99	-0.95	4388	1.0
y_predicted[93]	-0.32	3.8e-4	0.03	-0.37	-0.34	-0.32	-0.3	-0.27	4627	1.0
y_predicted[94]	-0.3	4.6e-4	0.03	-0.35	-0.32	-0.3	-0.28	-0.24	3977	1.0
y_predicted[95]	0.3	7.4e-4	0.05	0.2	0.27	0.3	0.34	0.4	4419	1.0
y_predicted[96]	-0.31	5.9e-4	0.04	-0.39	-0.34	-0.31	-0.29	-0.24	4560	1.0
y_predicted[97]	1.04	4.5e-4	0.03	0.98	1.02	1.04	1.06	1.1	4873	1.0
y_predicted[98]	-0.46	3.3e-4	0.02	-0.5	-0.47	-0.46	-0.44	-0.41	5108	1.0
y_predicted[99]	-0.15	5.5e-4	0.03	-0.22	-0.17	-0.15	-0.13	-0.08	4020	1.0
y_predicted[100]	-0.93	4.2e-4	0.03	-0.99	-0.95	-0.93	-0.91	-0.88	5121	1.0
y_predicted[101]	0.07	5.9e-4	0.04	-1.6e-3	0.05	0.07	0.1	0.15	4086	1.0
y_predicted[102]	-0.13	3.5e-4	0.02	-0.17	-0.14	-0.13	-0.11	-0.08	4937	1.0
y_predicted[103]	0.56	4.2e-4	0.03	0.51	0.54	0.56	0.58	0.62	4699	1.0
y_predicted[104]	-0.19	4.0e-4	0.03	-0.25	-0.21	-0.19	-0.18	-0.14	4904	1.0
y_predicted[105]	-0.67	3.6e-4	0.02	-0.72	-0.69	-0.67	-0.65	-0.62	4796	1.0
y_predicted[106]	-0.42	4.0e-4	0.03	-0.47	-0.43	-0.42	-0.4	-0.36	4102	1.0
y_predicted[107]	-0.1	3.7e-4	0.03	-0.15	-0.11	-0.1	-0.08	-0.05	4679	1.0
y_predicted[108]	0.32	6.0e-4	0.04	0.24	0.29	0.32	0.34	0.4	4828	1.0
y_predicted[109]	2.14	9.0e-4	0.06	2.03	2.1	2.14	2.18	2.26	4421	1.0
y_predicted[110]	1.37	9.2e-4	0.06	1.26	1.33	1.37	1.41	1.48	3825	1.0
y_predicted[111]	-0.4	3.6e-4	0.02	-0.45	-0.42	-0.4	-0.38	-0.35	4537	1.0
y_predicted[112]	-0.09	4.0e-4	0.03	-0.14	-0.1	-0.09	-0.07	-0.03	4613	1.0
y_predicted[113]	-0.72	4.0e-4	0.03	-0.77	-0.74	-0.72	-0.7	-0.67	4800	1.0
y_predicted[114]	-0.69	4.9e-4	0.03	-0.76	-0.72	-0.69	-0.67	-0.63	4803	1.0
y_predicted[115]	0.17	6.4e-4	0.04	0.08	0.14	0.17	0.19	0.25	4852	1.0
y_predicted[116]	0.29	6.2e-4	0.04	0.21	0.27	0.3	0.32	0.38	4590	1.0
y_predicted[117]	0.14	3.5e-4	0.02	0.1	0.13	0.14	0.16	0.19	4241	1.0

y_predicted[118]	1.29	6.6e-4	0.05	1.2	1.26	1.29	1.32	1.38	4668	1.0
y_predicted[119]	-0.12	4.7e-4	0.03	-0.18	-0.14	-0.12	-0.1	-0.06	4536	1.0
y_predicted[120]	-0.17	3.7e-4	0.03	-0.22	-0.19	-0.17	-0.15	-0.12	4905	1.0
y_predicted[121]	-0.48	3.1e-4	0.02	-0.53	-0.5	-0.48	-0.47	-0.44	5106	1.0
y_predicted[122]	-0.02	4.0e-4	0.03	-0.08	-0.04	-0.02	-6.0e-3	0.03	4449	1.0
y_predicted[123]	1.58	6.7e-4	0.05	1.49	1.55	1.58	1.61	1.67	4797	1.0
y_predicted[124]	-0.26	5.2e-4	0.04	-0.34	-0.29	-0.27	-0.24	-0.19	5110	1.0
y_predicted[125]	0.27	4.9e-4	0.03	0.21	0.25	0.27	0.29	0.33	3984	1.0
y_predicted[126]	-0.83	6.6e-4	0.04	-0.9	-0.85	-0.83	-0.8	-0.74	3838	1.0
y_predicted[127]	-0.11	4.4e-4	0.03	-0.17	-0.13	-0.11	-0.09	-0.05	4292	1.0
y_predicted[128]	-0.4	3.5e-4	0.02	-0.44	-0.41	-0.4	-0.38	-0.35	4374	1.0
y_predicted[129]	0.98	6.9e-4	0.05	0.89	0.95	0.98	1.02	1.08	5087	1.0
y_predicted[130]	0.11	3.8e-4	0.03	0.05	0.09	0.11	0.13	0.16	5235	1.0
y_predicted[131]	-0.89	6.6e-4	0.04	-0.97	-0.92	-0.89	-0.86	-0.8	4255	1.0
y_predicted[132]	-0.49	3.7e-4	0.03	-0.54	-0.51	-0.49	-0.47	-0.44	4662	1.0
y_predicted[133]	0.83	5.0e-4	0.03	0.77	0.81	0.83	0.85	0.9	4317	1.0
y_predicted[134]	-0.24	4.8e-4	0.03	-0.29	-0.26	-0.24	-0.22	-0.17	4030	1.0
y_predicted[135]	0.07	3.0e-4	0.02	0.03	0.06	0.07	0.09	0.11	4872	1.0
y_predicted[136]	0.45	4.7e-4	0.03	0.39	0.43	0.45	0.47	0.51	4708	1.0
y_predicted[137]	-0.13	5.0e-4	0.03	-0.2	-0.16	-0.13	-0.11	-0.07	4664	1.0
y_predicted[138]	2.33	1.0e-3	0.07	2.2	2.29	2.33	2.38	2.46	4467	1.0
y_predicted[139]	-0.92	4.7e-4	0.03	-0.98	-0.95	-0.92	-0.9	-0.86	4702	1.0
y_predicted[140]	-0.16	4.4e-4	0.03	-0.22	-0.18	-0.16	-0.14	-0.1	4187	1.0
y_predicted[141]	-1.07	4.4e-4	0.03	-1.12	-1.09	-1.07	-1.05	-1.01	4665	1.0
y_predicted[142]	7.4e-3	3.0e-4	0.02	-0.03	-6.9e-3	7.3e-3	0.02	0.05	4905	1.0
y_predicted[143]	0.19	4.5e-4	0.03	0.12	0.16	0.19	0.21	0.25	5088	1.0
y_predicted[144]	-0.55	3.1e-4	0.02	-0.6	-0.57	-0.55	-0.54	-0.51	5146	1.0
y_predicted[145]	0.19	3.5e-4	0.02	0.14	0.17	0.19	0.21	0.24	4908	1.0
y_predicted[146]	-0.22	4.1e-4	0.03	-0.27	-0.24	-0.22	-0.2	-0.16	4873	1.0
y_predicted[147]	-0.13	5.2e-4	0.03	-0.2	-0.15	-0.13	-0.11	-0.07	3988	1.0
y_predicted[148]	0.43	4.8e-4	0.03	0.37	0.41	0.43	0.45	0.49	3850	1.0
y_predicted[149]	0.95	6.3e-4	0.04	0.86	0.92	0.95	0.98	1.03	4724	1.0
y_predicted[150]	0.51	8.4e-4	0.06	0.39	0.47	0.51	0.55	0.63	5126	1.0
y_predicted[151]	1.26	6.9e-4	0.05	1.17	1.23	1.26	1.29	1.35	4485	1.0
y_predicted[152]	-0.45	3.4e-4	0.02	-0.5	-0.47	-0.45	-0.44	-0.41	4781	1.0
y_predicted[153]	1.58	8.2e-4	0.05	1.47	1.54	1.58	1.61	1.68	4293	1.0
y_predicted[154]	-0.55	3.3e-4	0.02	-0.59	-0.57	-0.55	-0.54	-0.51	4541	1.0
y_predicted[155]	0.19	4.1e-4	0.03	0.14	0.17	0.19	0.21	0.25	4459	1.0
y_predicted[156]	1.65	9.5e-4	0.06	1.52	1.61	1.65	1.69	1.78	4550	1.0
y_predicted[157]	-0.99	4.4e-4	0.03	-1.04	-1.01	-0.99	-0.97	-0.92	4967	1.0
y_predicted[158]	0.91	5.3e-4	0.04	0.84	0.88	0.91	0.93	0.98	4815	1.0
y_predicted[159]	-0.16	4.8e-4	0.03	-0.22	-0.18	-0.16	-0.14	-0.1	4105	1.0
y_predicted[160]	-1.17	4.3e-4	0.03	-1.23	-1.19	-1.17	-1.15	-1.11	4972	1.0
y_predicted[161]	-0.57	3.1e-4	0.02	-0.61	-0.59	-0.57	-0.56	-0.53	4854	1.0
y_predicted[162]	-0.48	3.7e-4	0.03	-0.54	-0.5	-0.48	-0.47	-0.43	4940	1.0
y_predicted[163]	0.5	4.5e-4	0.03	0.44	0.48	0.5	0.52	0.56	4667	1.0
y_predicted[164]	0.61	7.4e-4	0.04	0.53	0.58	0.61	0.65	0.7	3594	1.0
y_predicted[165]	-0.11	3.5e-4	0.02	-0.16	-0.13	-0.11	-0.1	-0.07	4971	1.0

y_predicted[166]	-0.26	7.2e-4	0.05	-0.37	-0.3	-0.26	-0.23	-0.16	5147	1.0
y_predicted[167]	-0.56	3.1e-4	0.02	-0.61	-0.58	-0.57	-0.55	-0.52	5176	1.0
y_predicted[168]	-0.11	4.3e-4	0.03	-0.17	-0.13	-0.11	-0.09	-0.05	4481	1.0
y_predicted[169]	0.29	5.9e-4	0.04	0.22	0.26	0.29	0.31	0.36	3990	1.0
y_predicted[170]	-0.03	3.9e-4	0.03	-0.09	-0.05	-0.03	-0.02	0.02	4807	1.0
y_predicted[171]	-0.26	3.2e-4	0.02	-0.31	-0.28	-0.26	-0.25	-0.22	4973	1.0
y_predicted[172]	-1.19	4.4e-4	0.03	-1.25	-1.21	-1.19	-1.17	-1.13	5045	1.0
y_predicted[173]	-0.5	3.3e-4	0.02	-0.54	-0.51	-0.5	-0.48	-0.45	4445	1.0
y_predicted[174]	-0.74	3.8e-4	0.03	-0.79	-0.76	-0.74	-0.72	-0.69	5027	1.0
y_predicted[175]	-0.24	3.6e-4	0.02	-0.29	-0.26	-0.24	-0.22	-0.19	4639	1.0
y_predicted[176]	-0.62	3.2e-4	0.02	-0.66	-0.63	-0.62	-0.6	-0.57	4985	1.0
y_predicted[177]	-0.35	5.9e-4	0.04	-0.42	-0.37	-0.34	-0.32	-0.27	4655	1.0
y_predicted[178]	-0.09	3.3e-4	0.02	-0.13	-0.1	-0.09	-0.07	-0.04	4861	1.0
y_predicted[179]	0.03	2.9e-4	0.02	-0.01	0.01	0.03	0.04	0.07	5151	1.0
y_predicted[180]	-0.35	3.6e-4	0.02	-0.4	-0.37	-0.35	-0.34	-0.31	4453	1.0
y_predicted[181]	0.21	2.6e-4	0.02	0.18	0.2	0.21	0.23	0.25	5116	1.0
y_predicted[182]	-1.0	4.5e-4	0.03	-1.06	-1.02	-1.0	-0.97	-0.93	5118	1.0
y_predicted[183]	-0.02	5.0e-4	0.03	-0.09	-0.04	-0.02	1.4e-3	0.04	4441	1.0
y_predicted[184]	-0.05	3.2e-4	0.02	-0.1	-0.07	-0.05	-0.04	-0.01	4898	1.0
y_predicted[185]	-0.39	3.7e-4	0.02	-0.44	-0.41	-0.39	-0.38	-0.34	4193	1.0
y_predicted[186]	-0.17	5.1e-4	0.04	-0.24	-0.19	-0.17	-0.15	-0.1	4677	1.0
y_predicted[187]	0.12	3.2e-4	0.02	0.08	0.11	0.12	0.14	0.17	4454	1.0
y_predicted[188]	-0.67	3.4e-4	0.02	-0.72	-0.69	-0.67	-0.66	-0.63	4938	1.0
y_predicted[189]	-0.44	3.3e-4	0.02	-0.48	-0.46	-0.44	-0.43	-0.4	4417	1.0
y_predicted[190]	-1.3	1.2e-3	0.07	-1.44	-1.35	-1.3	-1.25	-1.16	3960	1.0
y_predicted[191]	-0.19	4.9e-4	0.03	-0.25	-0.21	-0.19	-0.17	-0.13	4124	1.0
y_predicted[192]	-0.26	5.0e-4	0.03	-0.32	-0.28	-0.26	-0.24	-0.2	4000	1.0
y_predicted[193]	-0.49	3.5e-4	0.02	-0.54	-0.51	-0.49	-0.48	-0.45	4959	1.0
y_predicted[194]	-0.11	3.8e-4	0.03	-0.16	-0.13	-0.11	-0.09	-0.06	4692	1.0
y_predicted[195]	0.1	3.2e-4	0.02	0.06	0.08	0.1	0.11	0.14	4376	1.0
y_predicted[196]	-0.05	3.8e-4	0.03	-0.1	-0.06	-0.05	-0.03	3.3e-3	4732	1.0
y_predicted[197]	-0.25	4.5e-4	0.03	-0.31	-0.27	-0.25	-0.23	-0.19	4855	1.0
y_predicted[198]	0.17	6.4e-4	0.04	0.09	0.15	0.17	0.2	0.26	4315	1.0
y_predicted[199]	-0.78	4.8e-4	0.03	-0.84	-0.8	-0.78	-0.75	-0.71	4814	1.0
y_predicted[200]	-0.96	4.5e-4	0.03	-1.01	-0.98	-0.96	-0.93	-0.89	4633	1.0
loglik_pred[1]	-0.57	2.4e-4	0.02	-0.6	-0.58	-0.57	-0.56	-0.53	5033	1.0
loglik_pred[2]	-0.6	3.8e-4	0.02	-0.65	-0.61	-0.59	-0.58	-0.55	4152	1.0
loglik_pred[3]	-0.64	3.2e-4	0.02	-0.68	-0.66	-0.64	-0.63	-0.6	4352	1.0
loglik_pred[4]	-0.56	2.6e-4	0.02	-0.6	-0.58	-0.56	-0.55	-0.53	5094	1.0
loglik_pred[5]	-0.67	4.9e-4	0.03	-0.74	-0.69	-0.67	-0.65	-0.61	4975	1.0
loglik_pred[6]	-0.63	2.7e-4	0.02	-0.67	-0.64	-0.63	-0.62	-0.59	5262	1.0
loglik_pred[7]	-0.67	3.6e-4	0.02	-0.72	-0.69	-0.67	-0.66	-0.63	4687	1.0
loglik_pred[8]	-0.54	2.2e-4	0.02	-0.57	-0.55	-0.54	-0.53	-0.51	5274	1.0
loglik_pred[9]	-0.63	6.4e-4	0.04	-0.72	-0.66	-0.63	-0.6	-0.56	4476	1.0
loglik_pred[10]	-0.57	2.3e-4	0.02	-0.6	-0.58	-0.57	-0.56	-0.53	5354	1.0
loglik_pred[11]	-2.91	3.0e-3	0.21	-3.34	-3.06	-2.91	-2.77	-2.52	4826	1.0
loglik_pred[12]	-7.22	4.0e-3	0.29	-7.79	-7.4	-7.22	-7.03	-6.64	5112	1.0
loglik_pred[13]	-0.71	6.2e-4	0.04	-0.8	-0.74	-0.71	-0.69	-0.64	4139	1.0

loglik_pred[14]	-1.3	7.5e-4	0.05	-1.41	-1.34	-1.3	-1.26	-1.2	5070	1.0
loglik_pred[15]	-0.95	1.2e-3	0.08	-1.12	-1.01	-0.95	-0.9	-0.81	4592	1.0
loglik_pred[16]	-0.55	2.5e-4	0.02	-0.59	-0.57	-0.55	-0.54	-0.52	5168	1.0
loglik_pred[17]	-0.7	3.5e-4	0.03	-0.75	-0.72	-0.7	-0.68	-0.65	5309	1.0
loglik_pred[18]	-0.69	6.7e-4	0.05	-0.79	-0.72	-0.69	-0.66	-0.61	4506	1.0
loglik_pred[19]	-0.76	3.5e-4	0.02	-0.81	-0.77	-0.76	-0.74	-0.72	4552	1.0
loglik_pred[20]	-0.85	4.7e-4	0.03	-0.92	-0.87	-0.85	-0.83	-0.79	4986	1.0
loglik_pred[21]	-0.54	2.2e-4	0.02	-0.57	-0.55	-0.54	-0.53	-0.51	5375	1.0
loglik_pred[22]	-0.54	2.2e-4	0.02	-0.57	-0.55	-0.54	-0.53	-0.51	5299	1.0
loglik_pred[23]	-0.71	3.5e-4	0.02	-0.76	-0.73	-0.71	-0.69	-0.66	4893	1.0
loglik_pred[24]	-1.09	1.7e-3	0.12	-1.34	-1.17	-1.09	-1.01	-0.89	4581	1.0
loglik_pred[25]	-0.76	3.9e-4	0.03	-0.81	-0.78	-0.76	-0.74	-0.71	4155	1.0
loglik_pred[26]	-0.56	2.3e-4	0.02	-0.6	-0.58	-0.56	-0.55	-0.53	5376	1.0
loglik_pred[27]	-0.54	2.2e-4	0.02	-0.57	-0.55	-0.54	-0.53	-0.51	5342	1.0
loglik_pred[28]	-1.12	1.0e-3	0.07	-1.26	-1.17	-1.12	-1.07	-1.0	4555	1.0
loglik_pred[29]	-0.65	2.9e-4	0.02	-0.69	-0.66	-0.65	-0.64	-0.61	5002	1.0
loglik_pred[30]	-0.54	2.6e-4	0.02	-0.58	-0.55	-0.54	-0.53	-0.51	4550	1.0
loglik_pred[31]	-1.59	1.4e-3	0.09	-1.77	-1.65	-1.59	-1.53	-1.42	3917	1.0
loglik_pred[32]	-0.94	4.4e-4	0.03	-1.0	-0.96	-0.94	-0.92	-0.88	4910	1.0
loglik_pred[33]	-1.32	1.3e-3	0.09	-1.5	-1.38	-1.32	-1.26	-1.16	4635	1.0
loglik_pred[34]	-0.57	2.7e-4	0.02	-0.61	-0.59	-0.57	-0.56	-0.54	4904	1.0
loglik_pred[35]	-0.54	2.2e-4	0.02	-0.57	-0.55	-0.54	-0.53	-0.51	5338	1.0
loglik_pred[36]	-1.08	8.7e-4	0.06	-1.2	-1.12	-1.08	-1.04	-0.97	4490	1.0
loglik_pred[37]	-1.12	5.3e-4	0.04	-1.2	-1.15	-1.12	-1.1	-1.05	5099	1.0
loglik_pred[38]	-0.83	1.0e-3	0.07	-0.97	-0.87	-0.83	-0.78	-0.7	4709	1.0
loglik_pred[39]	-0.6	3.2e-4	0.02	-0.64	-0.61	-0.6	-0.58	-0.56	4736	1.0
loglik_pred[40]	-0.69	4.0e-4	0.03	-0.75	-0.71	-0.69	-0.67	-0.64	5001	1.0
loglik_pred[41]	-1.91	9.5e-4	0.07	-2.04	-1.96	-1.91	-1.87	-1.79	4810	1.0
loglik_pred[42]	-0.76	3.3e-4	0.02	-0.81	-0.78	-0.76	-0.75	-0.72	4730	1.0
loglik_pred[43]	-0.88	6.1e-4	0.04	-0.97	-0.91	-0.88	-0.85	-0.8	5127	1.0
loglik_pred[44]	-1.03	6.1e-4	0.04	-1.11	-1.05	-1.02	-1.0	-0.95	4618	1.0
loglik_pred[45]	-1.15	6.4e-4	0.04	-1.24	-1.18	-1.15	-1.12	-1.07	4671	1.0
loglik_pred[46]	-0.54	2.2e-4	0.02	-0.57	-0.55	-0.54	-0.53	-0.51	5387	1.0
loglik_pred[47]	-0.54	2.2e-4	0.02	-0.57	-0.55	-0.54	-0.53	-0.51	5292	1.0
loglik_pred[48]	-1.11	1.3e-3	0.09	-1.31	-1.17	-1.11	-1.05	-0.94	5055	1.0
loglik_pred[49]	-0.58	2.9e-4	0.02	-0.62	-0.59	-0.58	-0.57	-0.54	4793	1.0
loglik_pred[50]	-1.27	6.4e-4	0.04	-1.36	-1.3	-1.27	-1.24	-1.19	4659	1.0
loglik_pred[51]	-0.57	2.6e-4	0.02	-0.61	-0.58	-0.57	-0.56	-0.54	5308	1.0
loglik_pred[52]	-0.54	2.3e-4	0.02	-0.58	-0.55	-0.54	-0.53	-0.51	5240	1.0
loglik_pred[53]	-0.87	5.1e-4	0.04	-0.94	-0.89	-0.87	-0.84	-0.8	4983	1.0
loglik_pred[54]	-0.8	6.8e-4	0.05	-0.89	-0.83	-0.8	-0.77	-0.71	4477	1.0
loglik_pred[55]	-1.48	1.1e-3	0.07	-1.64	-1.53	-1.48	-1.43	-1.34	4897	1.0
loglik_pred[56]	-1.63	1.7e-3	0.11	-1.86	-1.7	-1.63	-1.56	-1.42	4126	1.0
loglik_pred[57]	-1.48	1.2e-3	0.08	-1.64	-1.53	-1.47	-1.42	-1.32	4681	1.0
loglik_pred[58]	-1.2	8.0e-4	0.05	-1.3	-1.23	-1.19	-1.16	-1.1	3932	1.0
loglik_pred[59]	-0.65	3.8e-4	0.03	-0.71	-0.67	-0.65	-0.63	-0.6	5001	1.0
loglik_pred[60]	-0.76	6.0e-4	0.04	-0.84	-0.79	-0.76	-0.73	-0.68	4573	1.0
loglik_pred[61]	-1.05	9.1e-4	0.06	-1.18	-1.09	-1.05	-1.01	-0.93	4507	1.0

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loglik_pred[62]    -0.54  2.4e-4  0.02  -0.58  -0.56  -0.54  -0.53  -0.51  5271  1.0
loglik_pred[63]    -0.77  4.1e-4  0.03  -0.83  -0.79  -0.77  -0.75  -0.71  5127  1.0
loglik_pred[64]    -1.62  1.1e-3  0.07  -1.77  -1.67  -1.62  -1.57  -1.48  4507  1.0
loglik_pred[65]    -0.72  5.8e-4  0.04   -0.8  -0.75  -0.72  -0.69  -0.65  4497  1.0
loglik_pred[66]    -1.22  8.3e-4  0.06  -1.33  -1.26  -1.22  -1.19  -1.12  4499  1.0
loglik_pred[67]    -1.08  5.5e-4  0.04  -1.15   -1.1  -1.08  -1.05   -1.0  4677  1.0
loglik_pred[68]    -1.66  1.9e-3  0.13  -1.94  -1.75  -1.66  -1.57  -1.41  4938  1.0
loglik_pred[69]    -0.54  2.3e-4  0.02  -0.57  -0.55  -0.54  -0.53  -0.51  5243  1.0
loglik_pred[70]     -0.6  2.6e-4  0.02  -0.64  -0.61   -0.6  -0.59  -0.56  5345  1.0
loglik_pred[71]    -0.57  2.7e-4  0.02  -0.61  -0.58  -0.57  -0.56  -0.53  5168  1.0
loglik_pred[72]    -2.84  1.4e-3  0.09  -3.02   -2.9  -2.84  -2.78  -2.66  4526  1.0
loglik_pred[73]    -0.58  2.8e-4  0.02  -0.62  -0.59  -0.58  -0.57  -0.54  5199  1.0
loglik_pred[74]    -0.97  5.1e-4  0.04  -1.04  -0.99  -0.97  -0.95   -0.9  4730  1.0
loglik_pred[75]     -1.4  1.2e-3  0.07  -1.55  -1.45   -1.4  -1.35  -1.26  3982  1.0
loglik_pred[76]    -0.57  2.7e-4  0.02  -0.61  -0.59  -0.57  -0.56  -0.54  5123  1.0
loglik_pred[77]    -7.65  5.7e-3  0.39  -8.44  -7.91  -7.65  -7.39  -6.91  4606  1.0
loglik_pred[78]    -0.54  2.3e-4  0.02  -0.58  -0.55  -0.54  -0.53  -0.51  5237  1.0
loglik_pred[79]    -1.02  9.2e-4  0.06  -1.15  -1.06  -1.01  -0.97   -0.9  4690  1.0
loglik_pred[80]    -0.76  4.5e-4  0.03  -0.83  -0.78  -0.76  -0.74   -0.7  5081  1.0
loglik_pred[81]    -0.89  5.4e-4  0.04  -0.96  -0.91  -0.89  -0.87  -0.83  4290  1.0
loglik_pred[82]    -0.59  3.2e-4  0.02  -0.63   -0.6  -0.59  -0.57  -0.55  4506  1.0
loglik_pred[83]    -0.72  4.2e-4  0.03  -0.78  -0.74  -0.72   -0.7  -0.66  5110  1.0
loglik_pred[84]    -0.69  6.7e-4  0.04  -0.78  -0.72  -0.68  -0.66  -0.61  4089  1.0
loglik_pred[85]    -0.54  2.3e-4  0.02  -0.57  -0.55  -0.54  -0.53  -0.51  5069  1.0
loglik_pred[86]     -2.2  2.8e-3  0.17  -2.54  -2.31  -2.19  -2.08  -1.88  3647  1.0
loglik_pred[87]    -0.54  2.7e-4  0.02  -0.57  -0.55  -0.54  -0.53  -0.51  4119  1.0
loglik_pred[88]    -1.27  7.0e-4  0.05  -1.37   -1.3  -1.27  -1.23  -1.17  5120  1.0
loglik_pred[89]    -0.88  8.0e-4  0.05  -0.99  -0.91  -0.88  -0.85  -0.79  3831  1.0
loglik_pred[90]    -0.55  2.4e-4  0.02  -0.59  -0.56  -0.55  -0.54  -0.52  5206  1.0
loglik_pred[91]    -0.55  2.3e-4  0.02  -0.58  -0.56  -0.55  -0.53  -0.51  5330  1.0
loglik_pred[92]    -0.55  2.4e-4  0.02  -0.59  -0.56  -0.55  -0.54  -0.52  5379  1.0
loglik_pred[93]    -0.55  2.8e-4  0.02  -0.59  -0.56  -0.55  -0.53  -0.51  4745  1.0
loglik_pred[94]    -0.55  2.6e-4  0.02  -0.59  -0.56  -0.55  -0.54  -0.52  5019  1.0
loglik_pred[95]    -0.56  2.4e-4  0.02   -0.6  -0.58  -0.56  -0.55  -0.53  5283  1.0
loglik_pred[96]    -1.23  8.8e-4  0.06  -1.35  -1.27  -1.23  -1.19  -1.11  4622  1.0
loglik_pred[97]    -0.65  3.2e-4  0.02  -0.69  -0.66  -0.65  -0.63   -0.6  4985  1.0
loglik_pred[98]    -1.03  5.3e-4  0.04   -1.1  -1.05  -1.03   -1.0  -0.96  4458  1.0
loglik_pred[99]     -0.8  6.2e-4  0.04  -0.89  -0.83   -0.8  -0.77  -0.72  4847  1.0
loglik_pred[100]   -0.62  4.7e-4  0.03  -0.69  -0.64  -0.62   -0.6  -0.56  4521  1.0
loglik_pred[101]   -0.89  5.6e-4  0.04  -0.96  -0.91  -0.89  -0.86  -0.81  4610  1.0
loglik_pred[102]   -0.54  2.2e-4  0.02  -0.57  -0.55  -0.54  -0.53  -0.51  5370  1.0
loglik_pred[103]   -0.58  2.7e-4  0.02  -0.62  -0.59  -0.58  -0.57  -0.54  5062  1.0
loglik_pred[104]   -0.61  4.3e-4  0.03  -0.67  -0.63  -0.61  -0.59  -0.56  4104  1.0
loglik_pred[105]   -0.56  3.4e-4  0.02  -0.61  -0.57  -0.55  -0.54  -0.52  4460  1.0
loglik_pred[106]   -0.72  4.2e-4  0.03  -0.78  -0.74  -0.72  -0.71  -0.67  4215  1.0
loglik_pred[107]   -0.64  2.6e-4  0.02  -0.68  -0.65  -0.64  -0.63  -0.61  5116  1.0
loglik_pred[108]   -0.56  2.3e-4  0.02  -0.59  -0.57  -0.56  -0.55  -0.53  5321  1.0
loglik_pred[109]   -1.43  9.6e-4  0.06  -1.56  -1.48  -1.43  -1.39  -1.31  4562  1.0
```

```
loglik_pred[110]    -0.61   2.8e-4   0.02   -0.65   -0.62   -0.61    -0.6   -0.57   4996   1.0
loglik_pred[111]    -0.55   2.5e-4   0.02   -0.59   -0.56   -0.55   -0.54   -0.51   4946   1.0
loglik_pred[112]    -2.05   1.4e-3   0.09   -2.23   -2.11   -2.05   -1.98   -1.87   4302   1.0
loglik_pred[113]    -0.54   2.3e-4   0.02   -0.58   -0.55   -0.54   -0.53   -0.51   5315   1.0
loglik_pred[114]    -1.14   1.5e-3   0.11   -1.36   -1.21   -1.14   -1.07   -0.94   5131   1.0
loglik_pred[115]    -0.74   3.8e-4   0.03   -0.79   -0.76   -0.74   -0.72   -0.69   4280   1.0
loglik_pred[116]    -0.71   4.9e-4   0.03   -0.78   -0.73   -0.71   -0.69   -0.66   4028   1.0
loglik_pred[117]    -3.41   3.1e-3    0.2    -3.8   -3.55   -3.41   -3.28   -3.04   4025   1.0
loglik_pred[118]     -0.6   3.2e-4   0.02   -0.64   -0.61   -0.59   -0.58   -0.55   4730   1.0
loglik_pred[119]    -0.96   6.0e-4   0.04   -1.04   -0.99   -0.96   -0.94   -0.89   4437   1.0
loglik_pred[120]    -0.55   2.6e-4   0.02   -0.59   -0.56   -0.55   -0.54   -0.52   4837   1.0
loglik_pred[121]    -0.72   2.9e-4   0.02   -0.76   -0.74   -0.72   -0.71   -0.68   5109   1.0
loglik_pred[122]    -0.77   5.3e-4   0.04   -0.85    -0.8   -0.77   -0.75    -0.7   4916   1.0
loglik_pred[123]    -1.13   9.2e-4   0.06   -1.25   -1.17   -1.13   -1.09   -1.02   3857   1.0
loglik_pred[124]    -0.61   4.8e-4   0.03   -0.68   -0.63   -0.61   -0.59   -0.55   4529   1.0
loglik_pred[125]     -0.6   3.8e-4   0.03   -0.65   -0.62    -0.6   -0.58   -0.55   4682   1.0
loglik_pred[126]    -0.91   8.6e-4   0.05   -1.02   -0.94   -0.91   -0.87   -0.81   4079   1.0
loglik_pred[127]     -0.6   2.5e-4   0.02   -0.64   -0.61    -0.6   -0.59   -0.57   5328   1.0
loglik_pred[128]    -0.61   3.1e-4   0.02   -0.65   -0.62   -0.61   -0.59   -0.57   5129   1.0
loglik_pred[129]    -0.54   2.2e-4   0.02   -0.57   -0.55   -0.54   -0.53   -0.51   5385   1.0
loglik_pred[130]    -0.62   3.1e-4   0.02   -0.67   -0.63   -0.62   -0.61   -0.58   4987   1.0
loglik_pred[131]    -0.54   2.2e-4   0.02   -0.57   -0.55   -0.54   -0.53    -0.5   5347   1.0
loglik_pred[132]    -0.75   8.3e-4   0.06   -0.87   -0.79   -0.75   -0.71   -0.65   4723   1.0
loglik_pred[133]    -0.54   2.2e-4   0.02   -0.57   -0.55   -0.54   -0.53   -0.51   5326   1.0
loglik_pred[134]    -0.81   3.7e-4   0.03   -0.86   -0.83   -0.81   -0.79   -0.76   4902   1.0
loglik_pred[135]    -0.57   2.5e-4   0.02   -0.61   -0.58   -0.57   -0.56   -0.54   5344   1.0
loglik_pred[136]    -0.61   2.6e-4   0.02   -0.64   -0.62   -0.61   -0.59   -0.57   5320   1.0
loglik_pred[137]    -0.56   2.8e-4   0.02    -0.6   -0.57   -0.56   -0.55   -0.52   4780   1.0
loglik_pred[138]    -0.98   3.8e-4   0.03   -1.04    -1.0   -0.98   -0.96   -0.93   5111   1.0
loglik_pred[139]    -0.58   4.2e-4   0.03   -0.64   -0.59   -0.58   -0.56   -0.53   4179   1.0
loglik_pred[140]    -0.61   2.8e-4   0.02   -0.65   -0.62   -0.61   -0.59   -0.57   5057   1.0
loglik_pred[141]    -0.55   2.3e-4   0.02   -0.58   -0.56   -0.55   -0.54   -0.52   5389   1.0
loglik_pred[142]    -0.54   2.2e-4   0.02   -0.57   -0.55   -0.54   -0.53   -0.51   5338   1.0
loglik_pred[143]     -0.7   3.0e-4   0.02   -0.74   -0.71    -0.7   -0.68   -0.66   5161   1.0
loglik_pred[144]     -0.6   2.8e-4   0.02   -0.64   -0.61    -0.6   -0.58   -0.56   5041   1.0
loglik_pred[145]    -0.57   3.2e-4   0.02   -0.62   -0.59   -0.57   -0.56   -0.53   4567   1.0
loglik_pred[146]    -5.25   2.7e-3    0.2   -5.65   -5.38   -5.25   -5.12   -4.88   5095   1.0
loglik_pred[147]    -0.55   2.3e-4   0.02   -0.58   -0.56   -0.55   -0.54   -0.52   5199   1.0
loglik_pred[148]    -0.69   4.0e-4   0.03   -0.75   -0.71   -0.69   -0.67   -0.64   4973   1.0
loglik_pred[149]    -0.62   3.8e-4   0.02   -0.67   -0.64   -0.62   -0.61   -0.58   4339   1.0
loglik_pred[150]    -0.71   3.4e-4   0.02   -0.76   -0.72   -0.71   -0.69   -0.66   4836   1.0
loglik_pred[151]    -1.41   8.6e-4   0.06   -1.53   -1.45   -1.41   -1.37    -1.3   4507   1.0
loglik_pred[152]    -0.94   5.0e-4   0.03    -1.0   -0.96   -0.94   -0.91   -0.87   4351   1.0
loglik_pred[153]    -0.69   3.9e-4   0.02   -0.74    -0.7   -0.69   -0.67   -0.64   4020   1.0
loglik_pred[154]    -0.69   6.7e-4   0.04   -0.78   -0.72   -0.69   -0.67   -0.62   3884   1.0
loglik_pred[155]    -0.68   3.3e-4   0.02   -0.72   -0.69   -0.68   -0.66   -0.64   4766   1.0
loglik_pred[156]    -0.61   2.8e-4   0.02   -0.65   -0.62   -0.61    -0.6   -0.57   4752   1.0
loglik_pred[157]    -0.87   5.2e-4   0.04   -0.94   -0.89   -0.87   -0.84    -0.8   4774   1.0
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loglik_pred[158]   -1.18  8.5e-4   0.06  -1.29  -1.22  -1.18  -1.14  -1.07  4313  1.0
loglik_pred[159]   -0.61  3.0e-4   0.02  -0.65  -0.63  -0.61   -0.6  -0.57  4640  1.0
loglik_pred[160]   -0.72  3.2e-4   0.02  -0.77  -0.74  -0.72  -0.71  -0.68  4638  1.0
loglik_pred[161]   -0.57  2.4e-4   0.02   -0.6  -0.58  -0.57  -0.55  -0.53  5216  1.0
loglik_pred[162]   -0.54  2.3e-4   0.02  -0.57  -0.55  -0.54  -0.53  -0.51  5276  1.0
loglik_pred[163]   -0.54  2.6e-4   0.02  -0.58  -0.55  -0.54  -0.53  -0.51  4606  1.0
loglik_pred[164]   -0.79  3.0e-4   0.02  -0.83   -0.8  -0.79  -0.77  -0.75  5244  1.0
loglik_pred[165]   -0.56  2.6e-4   0.02   -0.6  -0.57  -0.56  -0.55  -0.52  5165  1.0
loglik_pred[166]   -1.41  9.3e-4   0.06  -1.53  -1.45  -1.41  -1.36  -1.29  4452  1.0
loglik_pred[167]   -0.73  6.2e-4   0.04  -0.81  -0.75  -0.72   -0.7  -0.65  4199  1.0
loglik_pred[168]   -1.37  2.0e-3   0.13  -1.64  -1.46  -1.37  -1.28  -1.12  4569  1.0
loglik_pred[169]   -0.64  4.3e-4   0.03   -0.7  -0.66  -0.64  -0.62  -0.59  4114  1.0
loglik_pred[170]   -1.43  8.8e-4   0.06  -1.55  -1.47  -1.43  -1.39  -1.32  4566  1.0
loglik_pred[171]   -0.62  3.2e-4   0.02  -0.67  -0.64  -0.62  -0.61  -0.58  4861  1.0
loglik_pred[172]   -0.57  3.3e-4   0.02  -0.62  -0.59  -0.57  -0.56  -0.53  4554  1.0
loglik_pred[173]   -0.88  6.8e-4   0.04  -0.97  -0.91  -0.88  -0.85  -0.81  3736  1.0
loglik_pred[174]   -1.27  7.5e-4   0.05  -1.38   -1.3  -1.27  -1.24  -1.17  4751  1.0
loglik_pred[175]   -0.59  3.1e-4   0.02  -0.63   -0.6  -0.59  -0.57  -0.55  4519  1.0
loglik_pred[176]   -0.58  2.6e-4   0.02  -0.61  -0.59  -0.58  -0.57  -0.54  5010  1.0
loglik_pred[177]   -0.65  2.9e-4   0.02  -0.69  -0.66  -0.65  -0.64  -0.61  5177  1.0
loglik_pred[178]   -0.79  5.6e-4   0.04  -0.86  -0.81  -0.79  -0.76  -0.72  4367  1.0
loglik_pred[179]   -0.93  1.3e-3   0.09  -1.12  -0.99  -0.93  -0.87  -0.77  4948  1.0
loglik_pred[180]   -0.71  3.6e-4   0.02  -0.75  -0.72  -0.71  -0.69  -0.66  4255  1.0
loglik_pred[181]   -0.92  4.0e-4   0.03  -0.97  -0.93  -0.91   -0.9  -0.86  5046  1.0
loglik_pred[182]   -0.56  2.6e-4   0.02   -0.6  -0.58  -0.56  -0.55  -0.53  5150  1.0
loglik_pred[183]    -2.3  1.6e-3    0.1   -2.5  -2.37   -2.3  -2.23   -2.1  4074  1.0
loglik_pred[184]   -1.23  9.0e-4   0.06  -1.35  -1.27  -1.23  -1.19  -1.12  4302  1.0
loglik_pred[185]   -0.56  2.9e-4   0.02   -0.6  -0.57  -0.56  -0.55  -0.52  4485  1.0
loglik_pred[186]   -2.17  1.2e-3   0.08  -2.33  -2.22  -2.16  -2.11  -2.01  4867  1.0
loglik_pred[187]   -0.66  3.0e-4   0.02   -0.7  -0.67  -0.66  -0.64  -0.62  5026  1.0
loglik_pred[188]   -0.91  5.2e-4   0.04  -0.99  -0.94  -0.91  -0.89  -0.85  4871  1.0
loglik_pred[189]   -0.68  3.5e-4   0.03  -0.74   -0.7  -0.68  -0.67  -0.64  5045  1.0
loglik_pred[190]   -1.45  1.3e-3   0.08  -1.61   -1.5  -1.44  -1.39  -1.29  3836  1.0
loglik_pred[191]   -0.82  4.4e-4   0.03  -0.88  -0.84  -0.82   -0.8  -0.76  4725  1.0
loglik_pred[192]   -0.57  2.4e-4   0.02   -0.6  -0.58  -0.56  -0.55  -0.53  5102  1.0
loglik_pred[193]   -4.63  4.5e-3   0.31  -5.24  -4.83  -4.62  -4.43  -4.04  4642  1.0
loglik_pred[194]   -1.31  8.7e-4   0.06  -1.42  -1.35  -1.31  -1.27   -1.2  4305  1.0
loglik_pred[195]   -2.03  1.4e-3   0.09  -2.22  -2.09  -2.03  -1.97  -1.85  4278  1.0
loglik_pred[196]   -1.11  1.3e-3   0.09  -1.31  -1.17  -1.11  -1.05  -0.95  4754  1.0
loglik_pred[197]   -0.59  3.6e-4   0.02  -0.64   -0.6  -0.59  -0.57  -0.55  4096  1.0
loglik_pred[198]    -0.8  4.8e-4   0.03  -0.86  -0.82   -0.8  -0.78  -0.75  4089  1.0
loglik_pred[199]   -0.54  2.3e-4   0.02  -0.57  -0.55  -0.54  -0.53  -0.51  5123  1.0
loglik_pred[200]   -4.89  4.0e-3   0.27  -5.45  -5.07  -4.89  -4.71  -4.38  4566  1.0
lp__              -210.0    0.04   1.81 -214.6 -210.9 -209.7 -208.7 -207.6  1645  1.0
```

Samples were drawn using NUTS at Sun Dec 9 13:53:59 2018.
For each parameter, n_eff is a crude measure of effective sample size,
and Rhat is the potential scale reduction factor on split chains (at

```
convergence, Rhat=1).
0 of 4000 iterations saturated the maximum tree depth of 10 (0.0%)
```

In [9]: `# Polynomial Regression model`

```python
'''
# Model fitting with default parameters
and displaying the results (random seed to reproduce results)
'''
fit_poly = model_poly.sampling(data = data_poly,
                               seed = 194838, n_jobs = -1)
print(fit_poly)

'''
# Extraction of Posterior Predictive samples
from the model (Polynomial Regression)
'''
samples_poly = fit_poly.extract(permuted = True)

# Ensuring that parameters to the Stan model are fine tuned
stan_utility.check_treedepth(fit_poly)
```

```
Inference for Stan model: anon_model_fdf10200661fa3c5ef96589091fabb87.
4 chains, each with iter=2000; warmup=1000; thin=1;
post-warmup draws per chain=1000, total post-warmup draws=4000.
```

	mean	se_mean	sd	2.5%	25%	50%	75%	97.5%	n_eff	Rhat
intercept	-0.14	2.9e-4	0.02	-0.18	-0.16	-0.14	-0.13	-0.1	4803	1.0
theta[1]	0.42	8.4e-4	0.04	0.34	0.39	0.42	0.45	0.5	2217	1.0
theta[2]	0.36	3.8e-4	0.02	0.31	0.34	0.35	0.37	0.41	4193	1.0
theta[3]	-0.23	8.5e-4	0.04	-0.3	-0.25	-0.23	-0.2	-0.15	2055	1.0
theta[4]	0.09	4.7e-4	0.03	0.03	0.07	0.09	0.1	0.14	3400	1.0
theta[5]	0.09	3.4e-4	0.02	0.06	0.08	0.09	0.1	0.12	2045	1.0
theta[6]	0.06	2.0e-4	0.01	0.04	0.05	0.06	0.07	0.09	4285	1.0
theta[7]	-0.02	3.0e-4	0.01	-0.05	-0.03	-0.02	-8.8e-3	0.01	2228	1.0
theta[8]	6.7e-3	2.2e-4	0.01	-0.02	-1.5e-3	6.8e-3	0.02	0.03	3349	1.0
sigma	0.65	1.6e-4	0.01	0.63	0.64	0.65	0.66	0.67	4636	1.0
y_mean[1]	-0.54	4.5e-4	0.02	-0.58	-0.55	-0.54	-0.52	-0.49	2964	1.0
y_mean[2]	-0.28	6.2e-4	0.04	-0.35	-0.3	-0.28	-0.25	-0.2	3998	1.0
y_mean[3]	-0.03	4.9e-4	0.03	-0.08	-0.05	-0.03	-8.3e-3	0.03	3440	1.0
y_mean[4]	-0.77	6.7e-4	0.04	-0.84	-0.79	-0.77	-0.74	-0.69	3423	1.0
y_mean[5]	0.19	6.4e-4	0.05	0.1	0.16	0.19	0.22	0.28	5023	1.0
y_mean[6]	-0.29	3.8e-4	0.02	-0.34	-0.3	-0.29	-0.27	-0.24	3983	1.0
y_mean[7]	-0.17	6.1e-4	0.03	-0.23	-0.19	-0.17	-0.14	-0.1	2978	1.0
y_mean[8]	-0.08	4.6e-4	0.03	-0.13	-0.1	-0.08	-0.06	-0.03	3309	1.0
y_mean[9]	2.91	1.6e-3	0.1	2.71	2.84	2.91	2.98	3.1	4067	1.0
y_mean[10]	-0.54	4.3e-4	0.02	-0.59	-0.56	-0.54	-0.53	-0.49	3039	1.0

y_mean[11]	2.07	1.3e-3	0.1	1.87	2.0	2.07	2.14	2.28	5838	1.0
y_mean[12]	0.67	6.4e-4	0.04	0.59	0.64	0.67	0.7	0.76	4550	1.0
y_mean[13]	0.88	7.2e-4	0.05	0.78	0.85	0.88	0.91	0.98	4780	1.0
y_mean[14]	0.14	4.7e-4	0.03	0.08	0.12	0.14	0.16	0.2	4198	1.0
y_mean[15]	2.09	1.2e-3	0.09	1.91	2.02	2.09	2.15	2.28	5598	1.0
y_mean[16]	-0.81	7.1e-4	0.04	-0.9	-0.84	-0.81	-0.78	-0.72	3862	1.0
y_mean[17]	-0.58	5.9e-4	0.03	-0.64	-0.6	-0.58	-0.55	-0.51	3305	1.0
y_mean[18]	1.62	7.8e-4	0.06	1.51	1.58	1.62	1.66	1.74	5873	1.0
y_mean[19]	-0.13	4.7e-4	0.03	-0.18	-0.15	-0.13	-0.11	-0.08	3146	1.0
y_mean[20]	-0.47	4.3e-4	0.03	-0.53	-0.49	-0.47	-0.45	-0.42	4582	1.0
y_mean[21]	-0.09	4.4e-4	0.03	-0.14	-0.11	-0.09	-0.07	-0.04	3408	1.0
y_mean[22]	-0.08	4.5e-4	0.03	-0.13	-0.1	-0.08	-0.06	-0.03	3375	1.0
y_mean[23]	-0.09	4.4e-4	0.03	-0.15	-0.11	-0.09	-0.07	-0.04	3883	1.0
y_mean[24]	0.3	1.7e-3	0.1	0.11	0.24	0.3	0.37	0.49	3205	1.0
y_mean[25]	-0.03	4.8e-4	0.03	-0.08	-0.05	-0.03	-8.1e-3	0.03	3459	1.0
y_mean[26]	-0.55	4.4e-4	0.02	-0.6	-0.57	-0.55	-0.54	-0.51	3140	1.0
y_mean[27]	-0.35	3.7e-4	0.02	-0.39	-0.37	-0.35	-0.33	-0.31	3808	1.0
y_mean[28]	1.47	7.0e-4	0.05	1.37	1.43	1.47	1.5	1.56	4654	1.0
y_mean[29]	-0.55	4.8e-4	0.03	-0.6	-0.57	-0.55	-0.53	-0.5	3061	1.0
y_mean[30]	-0.17	7.3e-4	0.05	-0.26	-0.2	-0.17	-0.14	-0.08	4152	1.0
y_mean[31]	0.37	9.5e-4	0.04	0.29	0.34	0.37	0.4	0.46	2166	1.0
y_mean[32]	-0.36	5.4e-4	0.03	-0.41	-0.38	-0.36	-0.34	-0.3	2733	1.0
y_mean[33]	1.62	8.0e-4	0.05	1.52	1.59	1.62	1.65	1.72	4345	1.0
y_mean[34]	-0.18	6.3e-4	0.03	-0.25	-0.21	-0.18	-0.16	-0.12	3047	1.0
y_mean[35]	-0.56	4.9e-4	0.03	-0.62	-0.58	-0.56	-0.55	-0.51	3357	1.0
y_mean[36]	-0.11	9.7e-4	0.05	-0.21	-0.15	-0.11	-0.08	-0.02	2234	1.0
y_mean[37]	-0.13	4.1e-4	0.03	-0.18	-0.15	-0.13	-0.11	-0.08	4182	1.0
y_mean[38]	2.03	1.2e-3	0.08	1.88	1.98	2.03	2.09	2.19	4490	1.0
y_mean[39]	-0.27	9.6e-4	0.04	-0.35	-0.3	-0.27	-0.24	-0.19	1972	1.0
y_mean[40]	-0.29	7.0e-4	0.04	-0.36	-0.31	-0.29	-0.26	-0.21	2972	1.0
y_mean[41]	-0.19	4.6e-4	0.03	-0.24	-0.2	-0.19	-0.17	-0.13	3360	1.0
y_mean[42]	-0.51	4.2e-4	0.02	-0.55	-0.52	-0.51	-0.49	-0.46	3042	1.0
y_mean[43]	-0.83	1.0e-3	0.06	-0.95	-0.87	-0.83	-0.79	-0.71	3573	1.0
y_mean[44]	0.46	4.5e-4	0.03	0.4	0.44	0.46	0.48	0.52	4763	1.0
y_mean[45]	0.04	4.7e-4	0.03	-0.02	0.02	0.04	0.06	0.1	4501	1.0
y_mean[46]	-0.51	3.8e-4	0.02	-0.56	-0.52	-0.51	-0.49	-0.46	4029	1.0
y_mean[47]	-0.45	4.1e-4	0.03	-0.5	-0.47	-0.45	-0.43	-0.4	4314	1.0
y_mean[48]	1.53	8.4e-4	0.07	1.39	1.48	1.53	1.58	1.67	7225	1.0
y_mean[49]	-0.74	6.3e-4	0.04	-0.81	-0.76	-0.74	-0.71	-0.66	3723	1.0
y_mean[50]	5.6e-3	4.5e-4	0.03	-0.04	-0.01	5.6e-3	0.02	0.06	3307	1.0
y_mean[51]	-0.59	6.7e-4	0.04	-0.66	-0.61	-0.59	-0.56	-0.51	3243	1.0
y_mean[52]	-0.44	6.0e-4	0.03	-0.5	-0.46	-0.44	-0.42	-0.38	2893	1.0
y_mean[53]	2.8e-3	5.7e-4	0.03	-0.06	-0.02	2.1e-3	0.03	0.07	3431	1.0
y_mean[54]	1.25	6.4e-4	0.05	1.16	1.22	1.25	1.28	1.35	5805	1.0
y_mean[55]	-0.25	7.3e-4	0.04	-0.33	-0.27	-0.25	-0.22	-0.16	3414	1.0
y_mean[56]	1.0	8.5e-4	0.06	0.89	0.96	1.0	1.04	1.11	4610	1.0
y_mean[57]	-0.29	7.6e-4	0.05	-0.38	-0.32	-0.29	-0.26	-0.2	3584	1.0
y_mean[58]	-0.39	5.2e-4	0.03	-0.45	-0.41	-0.39	-0.37	-0.33	3583	1.0

	mean	se_mean	sd	2.5%	25%	50%	75%	97.5%	n_eff	Rhat
y_mean[59]	-0.26	6.0e-4	0.04	-0.32	-0.28	-0.26	-0.23	-0.18	3616	1.0
y_mean[60]	1.13	6.8e-4	0.05	1.03	1.09	1.13	1.16	1.23	5541	1.0
y_mean[61]	1.32	6.5e-4	0.05	1.23	1.29	1.32	1.35	1.41	4851	1.0
y_mean[62]	-0.62	10.0e-4	0.06	-0.73	-0.65	-0.62	-0.58	-0.51	3287	1.0
y_mean[63]	-0.59	6.4e-4	0.04	-0.67	-0.62	-0.59	-0.57	-0.52	3233	1.0
y_mean[64]	0.54	4.8e-4	0.03	0.48	0.52	0.54	0.56	0.61	4770	1.0
y_mean[65]	1.21	6.4e-4	0.05	1.11	1.17	1.2	1.24	1.3	5814	1.0
y_mean[66]	-0.74	7.8e-4	0.04	-0.83	-0.77	-0.74	-0.71	-0.66	3187	1.0
y_mean[67]	-0.02	4.5e-4	0.03	-0.07	-0.04	-0.02	-1.1e-3	0.03	3449	1.0
y_mean[68]	1.81	1.1e-3	0.08	1.66	1.76	1.81	1.86	1.96	4428	1.0
y_mean[69]	-0.08	4.6e-4	0.03	-0.13	-0.1	-0.08	-0.06	-0.03	3279	1.0
y_mean[70]	-0.05	4.4e-4	0.03	-0.11	-0.07	-0.05	-0.03	9.3e-3	4396	1.0
y_mean[71]	-0.8	6.6e-4	0.04	-0.89	-0.83	-0.8	-0.77	-0.72	3946	1.0
y_mean[72]	-0.51	4.9e-4	0.03	-0.56	-0.52	-0.51	-0.49	-0.45	2824	1.0
y_mean[73]	-0.51	5.1e-4	0.03	-0.57	-0.53	-0.51	-0.49	-0.44	4049	1.0
y_mean[74]	-0.17	5.4e-4	0.03	-0.23	-0.19	-0.17	-0.15	-0.11	3033	1.0
y_mean[75]	0.65	5.7e-4	0.04	0.58	0.62	0.65	0.67	0.72	4124	1.0
y_mean[76]	0.21	5.3e-4	0.03	0.15	0.19	0.21	0.23	0.27	3354	1.0
y_mean[77]	2.44	1.3e-3	0.09	2.27	2.38	2.44	2.5	2.62	4630	1.0
y_mean[78]	-0.34	6.7e-4	0.03	-0.4	-0.36	-0.34	-0.31	-0.28	2229	1.0
y_mean[79]	-0.06	1.0e-3	0.06	-0.17	-0.1	-0.06	-0.02	0.05	3070	1.0
y_mean[80]	-0.8	6.8e-4	0.04	-0.89	-0.83	-0.8	-0.78	-0.72	3921	1.0
y_mean[81]	-0.08	5.8e-4	0.03	-0.14	-0.1	-0.08	-0.06	-0.02	3053	1.0
y_mean[82]	0.61	4.8e-4	0.03	0.55	0.59	0.61	0.63	0.68	4822	1.0
y_mean[83]	-0.62	7.1e-4	0.04	-0.7	-0.65	-0.62	-0.59	-0.54	3176	1.0
y_mean[84]	0.84	9.4e-4	0.07	0.7	0.8	0.84	0.89	0.98	5214	1.0
y_mean[85]	0.61	6.8e-4	0.04	0.53	0.58	0.61	0.64	0.69	3673	1.0
y_mean[86]	1.63	9.9e-4	0.07	1.5	1.58	1.63	1.68	1.76	4728	1.0
y_mean[87]	-0.82	1.4e-3	0.09	-0.99	-0.88	-0.82	-0.76	-0.64	3976	1.0
y_mean[88]	-0.42	4.2e-4	0.03	-0.47	-0.43	-0.41	-0.4	-0.36	4887	1.0
y_mean[89]	-0.3	6.3e-4	0.04	-0.37	-0.32	-0.3	-0.27	-0.22	3932	1.0
y_mean[90]	-0.73	5.8e-4	0.04	-0.8	-0.76	-0.73	-0.71	-0.66	4023	1.0
y_mean[91]	-0.52	4.1e-4	0.03	-0.57	-0.54	-0.52	-0.5	-0.47	3779	1.0
y_mean[92]	0.58	4.9e-4	0.03	0.52	0.56	0.58	0.6	0.65	4667	1.0
y_mean[93]	0.24	8.4e-4	0.05	0.13	0.2	0.24	0.28	0.34	4170	1.0
y_mean[94]	-0.78	8.5e-4	0.05	-0.89	-0.82	-0.78	-0.74	-0.68	3882	1.0
y_mean[95]	-0.57	4.8e-4	0.03	-0.62	-0.59	-0.57	-0.55	-0.51	3275	1.0
y_mean[96]	-0.13	7.3e-4	0.04	-0.2	-0.15	-0.13	-0.1	-0.05	2983	1.0
y_mean[97]	-0.52	6.7e-4	0.04	-0.59	-0.54	-0.52	-0.5	-0.45	2892	1.0
y_mean[98]	9.2e-3	4.5e-4	0.03	-0.05	-0.01	9.0e-3	0.03	0.07	4176	1.0
y_mean[99]	0.4	5.6e-4	0.04	0.32	0.37	0.4	0.43	0.48	5369	1.0
y_mean[100]	0.25	6.3e-4	0.04	0.16	0.21	0.24	0.27	0.33	4881	1.0
y_mean[101]	0.39	5.0e-4	0.03	0.33	0.37	0.39	0.41	0.46	4354	1.0
y_mean[102]	-0.07	5.2e-4	0.03	-0.12	-0.09	-0.07	-0.04	-3.3e-3	3627	1.0
y_mean[103]	-0.78	5.8e-4	0.04	-0.85	-0.81	-0.78	-0.76	-0.71	3965	1.0
y_mean[104]	0.03	7.9e-4	0.04	-0.05	1.3e-3	0.03	0.06	0.12	3040	1.0
y_mean[105]	-0.03	8.4e-4	0.06	-0.14	-0.07	-0.03	6.3e-3	0.08	4296	1.0
y_mean[106]	-0.36	7.1e-4	0.03	-0.43	-0.38	-0.36	-0.34	-0.3	2341	1.0

y_mean[107]	-0.43	3.6e-4	0.02	-0.47	-0.45	-0.43	-0.42	-0.39	3541	1.0
y_mean[108]	-0.51	3.8e-4	0.02	-0.56	-0.53	-0.51	-0.5	-0.47	3664	1.0
y_mean[109]	-0.74	7.9e-4	0.04	-0.83	-0.77	-0.74	-0.71	-0.66	3193	1.0
y_mean[110]	-0.15	3.8e-4	0.03	-0.21	-0.17	-0.16	-0.14	-0.1	4414	1.0
y_mean[111]	0.27	5.5e-4	0.04	0.2	0.25	0.27	0.3	0.35	4486	1.0
y_mean[112]	-0.66	6.4e-4	0.04	-0.74	-0.68	-0.66	-0.63	-0.58	3884	1.0
y_mean[113]	-0.45	5.3e-4	0.03	-0.51	-0.47	-0.45	-0.43	-0.39	2970	1.0
y_mean[114]	1.54	9.7e-4	0.08	1.38	1.49	1.54	1.59	1.7	6952	1.0
y_mean[115]	0.11	5.0e-4	0.03	0.06	0.09	0.11	0.13	0.16	2789	1.0
y_mean[116]	0.12	5.6e-4	0.04	0.05	0.1	0.12	0.14	0.19	4096	1.0
y_mean[117]	-0.37	9.1e-4	0.05	-0.48	-0.41	-0.37	-0.34	-0.26	3411	1.0
y_mean[118]	-0.73	6.2e-4	0.04	-0.81	-0.76	-0.74	-0.71	-0.66	3865	1.0
y_mean[119]	-0.21	7.3e-4	0.03	-0.28	-0.23	-0.21	-0.18	-0.14	2264	1.0
y_mean[120]	0.6	4.9e-4	0.03	0.53	0.58	0.6	0.62	0.67	4866	1.0
y_mean[121]	-0.44	3.5e-4	0.02	-0.48	-0.45	-0.44	-0.42	-0.4	3648	1.0
y_mean[122]	-0.78	6.9e-4	0.04	-0.86	-0.8	-0.77	-0.75	-0.69	4058	1.0
y_mean[123]	-0.26	9.9e-4	0.04	-0.35	-0.29	-0.26	-0.23	-0.17	2063	1.0
y_mean[124]	0.48	8.4e-4	0.06	0.37	0.45	0.48	0.52	0.6	4648	1.0
y_mean[125]	-0.89	1.2e-3	0.07	-1.03	-0.94	-0.89	-0.84	-0.74	3946	1.0
y_mean[126]	0.52	6.5e-4	0.04	0.44	0.49	0.52	0.56	0.61	4665	1.0
y_mean[127]	-0.55	4.2e-4	0.02	-0.6	-0.56	-0.55	-0.53	-0.5	3212	1.0
y_mean[128]	-0.4	7.1e-4	0.04	-0.48	-0.43	-0.4	-0.38	-0.32	3322	1.0
y_mean[129]	-0.54	4.6e-4	0.03	-0.59	-0.56	-0.54	-0.53	-0.49	3013	1.0
y_mean[130]	-0.18	6.0e-4	0.03	-0.24	-0.2	-0.18	-0.16	-0.12	2695	1.0
y_mean[131]	-0.11	4.0e-4	0.02	-0.16	-0.12	-0.11	-0.09	-0.06	3855	1.0
y_mean[132]	2.16	1.3e-3	0.09	1.98	2.1	2.16	2.22	2.35	5430	1.0
y_mean[133]	-0.51	4.0e-4	0.03	-0.56	-0.53	-0.51	-0.5	-0.46	3916	1.0
y_mean[134]	-0.55	4.8e-4	0.03	-0.6	-0.57	-0.55	-0.53	-0.5	3040	1.0
y_mean[135]	-0.57	5.7e-4	0.03	-0.64	-0.59	-0.57	-0.55	-0.51	3334	1.0
y_mean[136]	-0.57	4.8e-4	0.03	-0.62	-0.58	-0.57	-0.55	-0.51	3202	1.0
y_mean[137]	-0.7	7.8e-4	0.04	-0.79	-0.73	-0.7	-0.67	-0.61	3234	1.0
y_mean[138]	0.13	3.6e-4	0.02	0.08	0.11	0.13	0.15	0.18	4440	1.0
y_mean[139]	-0.08	8.0e-4	0.05	-0.19	-0.12	-0.08	-0.05	0.02	4276	1.0
y_mean[140]	-0.56	5.4e-4	0.03	-0.62	-0.58	-0.56	-0.54	-0.5	3189	1.0
y_mean[141]	-0.57	4.8e-4	0.03	-0.62	-0.59	-0.57	-0.55	-0.51	3213	1.0
y_mean[142]	-0.18	5.3e-4	0.03	-0.25	-0.2	-0.18	-0.16	-0.11	3962	1.0
y_mean[143]	-0.4	4.6e-4	0.03	-0.45	-0.42	-0.4	-0.38	-0.35	3115	1.0
y_mean[144]	-0.21	6.2e-4	0.03	-0.27	-0.23	-0.21	-0.19	-0.15	2476	1.0
y_mean[145]	-0.1	7.8e-4	0.04	-0.18	-0.13	-0.1	-0.07	-0.02	2863	1.0
y_mean[146]	0.89	4.1e-4	0.03	0.83	0.87	0.89	0.91	0.96	5832	1.0
y_mean[147]	-0.09	4.0e-4	0.03	-0.14	-0.11	-0.09	-0.07	-0.04	4318	1.0
y_mean[148]	-0.25	5.5e-4	0.03	-0.31	-0.27	-0.25	-0.23	-0.18	3590	1.0
y_mean[149]	1.07	5.5e-4	0.04	0.99	1.04	1.07	1.1	1.15	4963	1.0
y_mean[150]	-0.43	5.8e-4	0.03	-0.49	-0.45	-0.43	-0.4	-0.37	2711	1.0
y_mean[151]	0.12	6.4e-4	0.03	0.06	0.1	0.12	0.14	0.18	2544	1.0
y_mean[152]	-0.45	4.2e-4	0.03	-0.5	-0.46	-0.45	-0.43	-0.39	3921	1.0
y_mean[153]	-0.43	5.3e-4	0.03	-0.49	-0.45	-0.43	-0.41	-0.37	3107	1.0
y_mean[154]	0.78	7.4e-4	0.05	0.68	0.74	0.78	0.81	0.87	4134	1.0

y_mean[155]	-0.47	3.9e-4	0.03	-0.52	-0.49	-0.48	-0.46	-0.42	4310	1.0
y_mean[156]	-0.14	5.2e-4	0.03	-0.2	-0.16	-0.14	-0.12	-0.09	3014	1.0
y_mean[157]	-0.77	6.3e-4	0.04	-0.85	-0.8	-0.77	-0.75	-0.7	3669	1.0
y_mean[158]	0.67	5.0e-4	0.03	0.6	0.65	0.67	0.69	0.74	4568	1.0
y_mean[159]	0.22	5.2e-4	0.03	0.16	0.2	0.22	0.24	0.27	2895	1.0
y_mean[160]	-0.49	4.3e-4	0.02	-0.53	-0.5	-0.49	-0.47	-0.44	3063	1.0
y_mean[161]	0.14	3.9e-4	0.03	0.09	0.12	0.14	0.16	0.19	4276	1.0
y_mean[162]	-0.23	6.7e-4	0.04	-0.31	-0.26	-0.23	-0.2	-0.14	3823	1.0
y_mean[163]	1.16	8.2e-4	0.06	1.05	1.12	1.16	1.2	1.27	4912	1.0
y_mean[164]	-0.36	3.2e-4	0.02	-0.4	-0.38	-0.36	-0.35	-0.32	4240	1.0
y_mean[165]	-0.15	5.9e-4	0.04	-0.22	-0.18	-0.15	-0.13	-0.08	3943	1.0
y_mean[166]	0.63	4.8e-4	0.03	0.57	0.61	0.63	0.65	0.69	4565	1.0
y_mean[167]	0.06	9.3e-4	0.05	-0.03	0.03	0.06	0.09	0.15	2422	1.0
y_mean[168]	1.54	9.9e-4	0.07	1.4	1.49	1.54	1.59	1.68	5394	1.0
y_mean[169]	0.42	6.5e-4	0.04	0.35	0.39	0.42	0.44	0.49	3040	1.0
y_mean[170]	0.53	4.6e-4	0.03	0.47	0.5	0.53	0.55	0.59	4596	1.0
y_mean[171]	-0.77	5.8e-4	0.04	-0.84	-0.79	-0.77	-0.74	-0.7	3810	1.0
y_mean[172]	0.3	6.8e-4	0.04	0.21	0.27	0.3	0.33	0.39	4274	1.0
y_mean[173]	-0.41	6.6e-4	0.04	-0.48	-0.44	-0.41	-0.39	-0.34	3006	1.0
y_mean[174]	-0.16	5.1e-4	0.03	-0.22	-0.18	-0.16	-0.14	-0.1	3548	1.0
y_mean[175]	-0.24	9.7e-4	0.04	-0.32	-0.27	-0.24	-0.21	-0.15	1973	1.0
y_mean[176]	-0.19	4.6e-4	0.03	-0.24	-0.21	-0.19	-0.17	-0.14	3375	1.0
y_mean[177]	-0.42	4.9e-4	0.03	-0.48	-0.44	-0.42	-0.4	-0.36	3481	1.0
y_mean[178]	0.79	5.1e-4	0.04	0.72	0.77	0.79	0.82	0.86	5108	1.0
y_mean[179]	0.54	1.2e-3	0.09	0.37	0.49	0.54	0.6	0.71	5582	1.0
y_mean[180]	-0.05	4.9e-4	0.03	-0.11	-0.07	-0.05	-0.03	4.5e-3	3278	1.0
y_mean[181]	-0.29	3.5e-4	0.02	-0.34	-0.31	-0.29	-0.28	-0.25	4659	1.0
y_mean[182]	-0.81	7.6e-4	0.05	-0.91	-0.84	-0.81	-0.78	-0.72	3797	1.0
y_mean[183]	0.37	6.6e-4	0.03	0.3	0.34	0.37	0.39	0.44	2740	1.0
y_mean[184]	0.62	4.9e-4	0.03	0.56	0.6	0.62	0.64	0.69	4862	1.0
y_mean[185]	-0.72	9.1e-4	0.05	-0.82	-0.75	-0.72	-0.69	-0.62	3068	1.0
y_mean[186]	0.5	4.5e-4	0.03	0.44	0.48	0.5	0.52	0.56	4685	1.0
y_mean[187]	-0.56	4.9e-4	0.03	-0.61	-0.58	-0.56	-0.54	-0.5	3112	1.0
y_mean[188]	-0.23	4.9e-4	0.03	-0.28	-0.25	-0.23	-0.21	-0.17	3586	1.0
y_mean[189]	-0.54	6.8e-4	0.04	-0.62	-0.57	-0.54	-0.52	-0.46	3115	1.0
y_mean[190]	-0.07	9.8e-4	0.05	-0.16	-0.1	-0.07	-0.04	0.02	2108	1.0
y_mean[191]	0.15	5.4e-4	0.03	0.09	0.13	0.15	0.17	0.2	2927	1.0
y_mean[192]	-0.06	4.1e-4	0.03	-0.11	-0.08	-0.06	-0.04	-2.7e-3	4354	1.0
y_mean[193]	2.07	9.9e-4	0.08	1.92	2.02	2.07	2.13	2.23	6295	1.0
y_mean[194]	0.06	7.1e-4	0.03	-8.7e-3	0.03	0.06	0.08	0.13	2396	1.0
y_mean[195]	-0.04	7.4e-4	0.04	-0.11	-0.07	-0.04	-0.01	0.03	2547	1.0
y_mean[196]	1.73	1.4e-3	0.09	1.55	1.67	1.73	1.79	1.91	4001	1.0
y_mean[197]	-0.31	6.0e-4	0.04	-0.38	-0.34	-0.31	-0.29	-0.24	3830	1.0
y_mean[198]	0.14	5.9e-4	0.03	0.08	0.12	0.13	0.15	0.19	2512	1.0
y_mean[199]	-0.76	5.9e-4	0.04	-0.84	-0.79	-0.76	-0.74	-0.69	4069	1.0
y_mean[200]	1.58	8.5e-4	0.06	1.46	1.54	1.58	1.62	1.7	5152	1.0
y_mean[201]	-0.53	3.9e-4	0.02	-0.58	-0.55	-0.53	-0.52	-0.49	3424	1.0
y_mean[202]	0.71	6.3e-4	0.04	0.63	0.68	0.71	0.74	0.8	4651	1.0

y_mean[203]	1.78	7.8e-4	0.06	1.66	1.74	1.78	1.83	1.91	6725	1.0
y_mean[204]	-0.44	4.8e-4	0.03	-0.51	-0.47	-0.44	-0.42	-0.38	4687	1.0
y_mean[205]	-0.38	5.4e-4	0.03	-0.44	-0.4	-0.38	-0.36	-0.32	3547	1.0
y_mean[206]	-0.56	4.5e-4	0.03	-0.61	-0.58	-0.56	-0.54	-0.51	3292	1.0
y_mean[207]	-0.2	5.0e-4	0.03	-0.26	-0.22	-0.2	-0.18	-0.14	3286	1.0
y_mean[208]	0.05	5.2e-4	0.03	-7.4e-3	0.03	0.05	0.06	0.1	2752	1.0
y_mean[209]	-0.68	8.2e-4	0.05	-0.77	-0.71	-0.68	-0.65	-0.59	3230	1.0
y_mean[210]	0.41	9.6e-4	0.05	0.32	0.37	0.41	0.44	0.49	2192	1.0
y_mean[211]	0.46	1.0e-3	0.07	0.32	0.41	0.45	0.5	0.58	3913	1.0
y_mean[212]	-0.03	3.1e-4	0.02	-0.08	-0.05	-0.03	-0.02	0.01	4997	1.0
y_mean[213]	-0.55	5.1e-4	0.03	-0.61	-0.57	-0.55	-0.53	-0.49	3527	1.0
y_mean[214]	-0.47	4.0e-4	0.02	-0.51	-0.48	-0.47	-0.45	-0.42	3874	1.0
y_mean[215]	0.87	9.3e-4	0.06	0.75	0.83	0.87	0.91	0.99	4211	1.0
y_mean[216]	2.35	1.5e-3	0.11	2.14	2.28	2.35	2.42	2.56	5019	1.0
y_mean[217]	-0.46	4.0e-4	0.03	-0.51	-0.48	-0.46	-0.44	-0.41	4106	1.0
y_mean[218]	0.7	5.3e-4	0.04	0.63	0.67	0.7	0.72	0.77	4707	1.0
y_mean[219]	-0.34	6.1e-4	0.04	-0.42	-0.37	-0.34	-0.31	-0.26	4833	1.0
y_mean[220]	-0.68	7.1e-4	0.04	-0.76	-0.71	-0.68	-0.65	-0.59	3755	1.0
y_mean[221]	0.29	8.8e-4	0.05	0.19	0.26	0.29	0.33	0.39	3307	1.0
y_mean[222]	-0.59	6.2e-4	0.04	-0.66	-0.61	-0.59	-0.57	-0.52	3231	1.0
y_mean[223]	-0.47	4.0e-4	0.02	-0.52	-0.49	-0.47	-0.45	-0.42	3866	1.0
y_mean[224]	0.95	8.4e-4	0.06	0.82	0.9	0.95	0.99	1.07	5846	1.0
y_mean[225]	-0.32	4.2e-4	0.03	-0.37	-0.33	-0.32	-0.3	-0.26	3985	1.0
y_mean[226]	1.59	7.6e-4	0.05	1.49	1.56	1.59	1.62	1.69	4405	1.0
y_mean[227]	-0.2	6.2e-4	0.03	-0.27	-0.23	-0.2	-0.18	-0.14	2493	1.0
y_mean[228]	-0.7	7.1e-4	0.04	-0.79	-0.73	-0.7	-0.67	-0.62	3563	1.0
y_mean[229]	2.43	1.9e-3	0.12	2.19	2.35	2.43	2.52	2.67	4215	1.0
y_mean[230]	-0.09	7.2e-4	0.04	-0.17	-0.12	-0.09	-0.07	-0.01	3080	1.0
y_mean[231]	-0.13	8.3e-4	0.04	-0.21	-0.15	-0.13	-0.1	-0.05	2281	1.0
y_mean[232]	-0.52	4.6e-4	0.02	-0.57	-0.54	-0.52	-0.5	-0.47	2895	1.0
y_mean[233]	-0.51	3.9e-4	0.02	-0.56	-0.53	-0.51	-0.5	-0.47	3242	1.0
y_mean[234]	0.35	8.7e-4	0.04	0.27	0.32	0.35	0.38	0.44	2468	1.0
y_mean[235]	-0.7	7.5e-4	0.04	-0.79	-0.73	-0.7	-0.68	-0.62	3334	1.0
y_mean[236]	-0.43	3.8e-4	0.02	-0.47	-0.44	-0.43	-0.41	-0.38	3706	1.0
y_mean[237]	-0.55	4.3e-4	0.02	-0.6	-0.57	-0.55	-0.53	-0.5	3125	1.0
y_mean[238]	0.46	5.1e-4	0.03	0.39	0.43	0.46	0.48	0.53	4572	1.0
y_mean[239]	-0.71	6.7e-4	0.04	-0.79	-0.74	-0.71	-0.68	-0.63	3487	1.0
y_mean[240]	0.1	5.2e-4	0.04	0.03	0.08	0.1	0.13	0.17	4697	1.0
y_mean[241]	-0.54	4.6e-4	0.02	-0.59	-0.56	-0.54	-0.53	-0.49	3004	1.0
y_mean[242]	-0.78	6.1e-4	0.04	-0.86	-0.81	-0.78	-0.76	-0.71	4047	1.0
y_mean[243]	0.02	4.9e-4	0.03	-0.03	4.1e-3	0.02	0.04	0.08	3757	1.0
y_mean[244]	-0.34	9.4e-4	0.05	-0.43	-0.37	-0.34	-0.31	-0.25	2419	1.0
y_mean[245]	-0.22	6.9e-4	0.04	-0.3	-0.25	-0.22	-0.19	-0.14	3258	1.0
y_mean[246]	-0.78	6.5e-4	0.04	-0.86	-0.81	-0.78	-0.75	-0.7	4052	1.0
y_mean[247]	-0.77	5.9e-4	0.04	-0.84	-0.79	-0.77	-0.74	-0.69	4082	1.0
y_mean[248]	-0.14	9.7e-4	0.04	-0.23	-0.17	-0.14	-0.11	-0.05	2011	1.0
y_mean[249]	-0.06	9.8e-4	0.05	-0.15	-0.09	-0.06	-0.03	0.03	2137	1.0
y_mean[250]	-0.49	6.4e-4	0.03	-0.55	-0.51	-0.49	-0.47	-0.42	2763	1.0

y_mean[251]	-0.58	7.7e-4	0.04	-0.66	-0.6	-0.58	-0.55	-0.49	3112	1.0
y_mean[252]	0.21	6.0e-4	0.03	0.15	0.19	0.21	0.23	0.27	2632	1.0
y_mean[253]	-0.06	5.4e-4	0.03	-0.12	-0.08	-0.06	-0.04	-2.2e-3	3148	1.0
y_mean[254]	-0.55	4.1e-4	0.02	-0.59	-0.56	-0.55	-0.53	-0.5	3253	1.0
y_mean[255]	-0.18	6.0e-4	0.04	-0.25	-0.21	-0.18	-0.16	-0.11	3857	1.0
y_mean[256]	0.98	1.0e-3	0.07	0.83	0.93	0.98	1.03	1.12	4882	1.0
y_mean[257]	-0.58	5.3e-4	0.03	-0.64	-0.6	-0.58	-0.56	-0.52	3259	1.0
y_mean[258]	0.15	3.2e-4	0.02	0.1	0.13	0.15	0.16	0.19	5001	1.0
y_mean[259]	0.3	4.2e-4	0.03	0.24	0.28	0.3	0.31	0.35	4105	1.0
y_mean[260]	0.46	4.5e-4	0.03	0.4	0.44	0.46	0.48	0.52	5233	1.0
y_mean[261]	0.11	6.6e-4	0.05	0.02	0.08	0.11	0.14	0.2	4795	1.0
y_mean[262]	-0.59	6.0e-4	0.03	-0.65	-0.61	-0.59	-0.56	-0.52	3253	1.0
y_mean[263]	1.75	1.1e-3	0.08	1.61	1.7	1.75	1.81	1.9	4344	1.0
y_mean[264]	-0.16	1.0e-3	0.06	-0.27	-0.2	-0.16	-0.12	-0.04	3152	1.0
y_mean[265]	0.12	5.6e-4	0.04	0.05	0.1	0.12	0.14	0.19	4068	1.0
y_mean[266]	-0.49	4.6e-4	0.02	-0.54	-0.51	-0.49	-0.48	-0.44	2921	1.0
y_mean[267]	-0.76	6.5e-4	0.04	-0.84	-0.79	-0.76	-0.74	-0.69	3429	1.0
y_mean[268]	-0.58	5.5e-4	0.03	-0.64	-0.6	-0.58	-0.56	-0.52	3246	1.0
y_mean[269]	5.96	3.9e-3	0.22	5.51	5.81	5.96	6.11	6.39	3292	1.0
y_mean[270]	-0.53	4.2e-4	0.03	-0.58	-0.55	-0.53	-0.51	-0.48	3648	1.0
y_mean[271]	0.89	7.4e-4	0.05	0.78	0.85	0.89	0.92	0.99	4816	1.0
y_mean[272]	-0.45	6.9e-4	0.04	-0.53	-0.48	-0.45	-0.43	-0.38	2745	1.0
y_mean[273]	-0.6	6.8e-4	0.04	-0.67	-0.62	-0.6	-0.57	-0.52	3227	1.0
y_mean[274]	-0.46	8.0e-4	0.04	-0.54	-0.49	-0.46	-0.43	-0.38	2691	1.0
y_mean[275]	0.54	4.6e-4	0.03	0.48	0.52	0.54	0.56	0.6	4604	1.0
y_mean[276]	-0.5	3.7e-4	0.02	-0.55	-0.52	-0.5	-0.49	-0.46	4093	1.0
y_mean[277]	-0.15	4.2e-4	0.02	-0.2	-0.17	-0.15	-0.14	-0.1	3557	1.0
y_mean[278]	0.02	5.8e-4	0.03	-0.04	-5.0e-3	0.01	0.04	0.07	2687	1.0
y_mean[279]	0.18	6.0e-4	0.04	0.1	0.16	0.18	0.21	0.26	4124	1.0
y_mean[280]	-0.25	5.6e-4	0.03	-0.32	-0.28	-0.25	-0.23	-0.18	3577	1.0
y_mean[281]	-0.77	6.3e-4	0.04	-0.85	-0.8	-0.77	-0.75	-0.7	3635	1.0
y_mean[282]	-0.26	7.2e-4	0.03	-0.33	-0.28	-0.26	-0.24	-0.19	2168	1.0
y_mean[283]	-0.23	5.0e-4	0.03	-0.29	-0.25	-0.23	-0.21	-0.17	3616	1.0
y_mean[284]	-0.28	7.5e-4	0.04	-0.37	-0.31	-0.28	-0.25	-0.19	3491	1.0
y_mean[285]	-0.57	5.6e-4	0.03	-0.63	-0.59	-0.57	-0.54	-0.5	3300	1.0
y_mean[286]	-0.23	6.7e-4	0.04	-0.31	-0.26	-0.23	-0.2	-0.15	4058	1.0
y_mean[287]	-0.34	5.9e-4	0.03	-0.4	-0.36	-0.34	-0.32	-0.28	2827	1.0
y_mean[288]	-0.39	5.5e-4	0.03	-0.45	-0.41	-0.39	-0.37	-0.32	3461	1.0
y_mean[289]	-0.56	4.8e-4	0.03	-0.61	-0.58	-0.56	-0.54	-0.5	3102	1.0
y_mean[290]	-0.79	6.0e-4	0.04	-0.87	-0.82	-0.79	-0.77	-0.72	3987	1.0
y_mean[291]	-0.83	1.4e-3	0.08	-0.99	-0.89	-0.83	-0.78	-0.67	3503	1.0
y_mean[292]	-0.19	5.8e-4	0.03	-0.25	-0.21	-0.19	-0.17	-0.13	3103	1.0
y_mean[293]	6.9e-3	9.9e-4	0.05	-0.1	-0.03	6.9e-3	0.04	0.11	2994	1.0
y_mean[294]	0.69	5.2e-4	0.04	0.62	0.67	0.69	0.72	0.76	4706	1.0
y_mean[295]	-0.58	6.6e-4	0.04	-0.66	-0.61	-0.58	-0.55	-0.5	3586	1.0
y_mean[296]	-0.56	7.3e-4	0.04	-0.64	-0.58	-0.56	-0.53	-0.47	3552	1.0
y_mean[297]	-0.13	9.6e-4	0.04	-0.21	-0.15	-0.13	-0.1	-0.04	2024	1.0
y_mean[298]	-0.09	4.4e-4	0.03	-0.15	-0.11	-0.09	-0.07	-0.03	4320	1.0

y_mean[299]	-0.34	9.3e-4	0.04	-0.43	-0.37	-0.34	-0.31	-0.25	2206	1.0
y_mean[300]	-0.76	6.3e-4	0.04	-0.84	-0.79	-0.76	-0.74	-0.69	3471	1.0
y_mean[301]	0.35	7.8e-4	0.05	0.26	0.32	0.35	0.38	0.44	3662	1.0
y_mean[302]	0.31	9.8e-4	0.07	0.16	0.26	0.31	0.35	0.45	5377	1.0
y_mean[303]	-0.26	5.6e-4	0.03	-0.32	-0.28	-0.26	-0.24	-0.21	2783	1.0
y_mean[304]	1.12	9.5e-4	0.07	0.98	1.07	1.12	1.16	1.25	5189	1.0
y_mean[305]	0.48	9.5e-4	0.05	0.38	0.44	0.48	0.51	0.58	2958	1.0
y_mean[306]	-0.11	5.2e-4	0.03	-0.18	-0.14	-0.11	-0.09	-0.04	4189	1.0
y_mean[307]	-0.05	4.4e-4	0.03	-0.1	-0.07	-0.05	-0.03	5.1e-3	3706	1.0
y_mean[308]	-0.38	6.4e-4	0.04	-0.46	-0.41	-0.38	-0.36	-0.31	3495	1.0
y_mean[309]	0.36	4.6e-4	0.03	0.29	0.34	0.36	0.38	0.42	4999	1.0
y_mean[310]	0.15	5.4e-4	0.03	0.08	0.13	0.15	0.17	0.22	3947	1.0
y_mean[311]	-0.26	9.2e-4	0.06	-0.37	-0.3	-0.26	-0.23	-0.15	3725	1.0
y_mean[312]	-0.1	9.8e-4	0.04	-0.18	-0.13	-0.1	-0.07	-9.0e-3	2046	1.0
y_mean[313]	-0.53	6.6e-4	0.04	-0.6	-0.55	-0.53	-0.51	-0.46	2958	1.0
y_mean[314]	0.05	4.9e-4	0.03	-7.0e-3	0.03	0.05	0.07	0.12	4102	1.0
y_mean[315]	0.06	9.6e-4	0.05	-0.03	0.03	0.06	0.09	0.16	2395	1.0
y_mean[316]	1.28	6.2e-4	0.04	1.2	1.25	1.28	1.31	1.36	4394	1.0
y_mean[317]	0.73	7.0e-4	0.04	0.65	0.7	0.73	0.75	0.8	3156	1.0
y_mean[318]	-0.45	5.1e-4	0.03	-0.51	-0.47	-0.45	-0.43	-0.39	3609	1.0
y_mean[319]	2.2	1.6e-3	0.11	1.98	2.12	2.2	2.27	2.41	4276	1.0
y_mean[320]	-0.57	5.6e-4	0.03	-0.63	-0.59	-0.57	-0.54	-0.5	3300	1.0
y_mean[321]	0.35	7.5e-4	0.05	0.25	0.32	0.35	0.38	0.45	4510	1.0
y_mean[322]	-0.54	4.7e-4	0.03	-0.6	-0.56	-0.54	-0.52	-0.49	3569	1.0
y_mean[323]	-0.79	6.0e-4	0.04	-0.86	-0.81	-0.78	-0.76	-0.71	4038	1.0
y_mean[324]	-0.57	6.4e-4	0.04	-0.64	-0.59	-0.57	-0.54	-0.49	3466	1.0
y_mean[325]	-0.28	7.0e-4	0.03	-0.34	-0.3	-0.28	-0.25	-0.21	2191	1.0
y_mean[326]	-0.32	5.2e-4	0.03	-0.37	-0.34	-0.32	-0.3	-0.27	2599	1.0
y_mean[327]	0.54	5.5e-4	0.04	0.47	0.52	0.54	0.57	0.61	4623	1.0
y_mean[328]	0.23	5.4e-4	0.03	0.18	0.21	0.23	0.25	0.29	3044	1.0
y_mean[329]	-0.56	4.5e-4	0.03	-0.61	-0.58	-0.56	-0.54	-0.51	3272	1.0
y_mean[330]	-0.42	1.1e-3	0.05	-0.52	-0.45	-0.42	-0.38	-0.31	2669	1.0
y_mean[331]	0.17	8.1e-4	0.04	0.09	0.14	0.17	0.19	0.24	2152	1.0
y_mean[332]	-0.56	4.4e-4	0.02	-0.61	-0.57	-0.56	-0.54	-0.51	3174	1.0
y_mean[333]	-0.5	3.9e-4	0.02	-0.54	-0.51	-0.5	-0.48	-0.45	3370	1.0
y_mean[334]	-0.43	9.6e-4	0.06	-0.55	-0.47	-0.43	-0.39	-0.32	3695	1.0
y_mean[335]	-0.74	8.4e-4	0.05	-0.83	-0.77	-0.74	-0.71	-0.65	3179	1.0
y_mean[336]	0.31	7.1e-4	0.05	0.21	0.28	0.31	0.35	0.42	5139	1.0
y_mean[337]	1.94	2.0e-3	0.15	1.65	1.84	1.94	2.05	2.23	5297	1.0
y_mean[338]	-0.19	4.3e-4	0.03	-0.25	-0.21	-0.2	-0.18	-0.14	3939	1.0
y_mean[339]	-0.29	4.8e-4	0.03	-0.34	-0.31	-0.29	-0.27	-0.24	2790	1.0
y_mean[340]	0.33	9.9e-4	0.08	0.18	0.28	0.33	0.39	0.49	6287	1.0
y_mean[341]	-0.09	5.0e-4	0.03	-0.15	-0.11	-0.09	-0.07	-0.03	3560	1.0
y_mean[342]	-0.48	4.4e-4	0.03	-0.54	-0.5	-0.48	-0.47	-0.43	3868	1.0
y_mean[343]	-0.01	5.1e-4	0.03	-0.07	-0.03	-0.01	7.2e-3	0.05	3624	1.0
y_mean[344]	-0.55	6.0e-4	0.04	-0.62	-0.58	-0.55	-0.53	-0.48	3489	1.0
y_mean[345]	0.54	4.7e-4	0.03	0.48	0.52	0.54	0.56	0.6	4653	1.0
y_mean[346]	-0.53	1.0e-3	0.05	-0.63	-0.56	-0.53	-0.49	-0.43	2391	1.0

y_mean[347]	0.54	1.0e-3	0.05	0.43	0.5	0.54	0.57	0.64	2542	1.0
y_mean[348]	0.21	6.1e-4	0.04	0.12	0.18	0.2	0.23	0.29	4956	1.0
y_mean[349]	-0.35	5.4e-4	0.03	-0.42	-0.38	-0.36	-0.33	-0.29	3836	1.0
y_mean[350]	0.28	5.8e-4	0.03	0.22	0.26	0.28	0.3	0.34	2818	1.0
y_mean[351]	-0.5	5.7e-4	0.03	-0.57	-0.53	-0.5	-0.48	-0.43	3694	1.0
y_mean[352]	-0.56	4.6e-4	0.03	-0.61	-0.58	-0.56	-0.55	-0.51	3247	1.0
y_mean[353]	0.64	5.6e-4	0.04	0.57	0.61	0.64	0.67	0.72	4795	1.0
y_mean[354]	-0.16	9.9e-4	0.04	-0.25	-0.19	-0.16	-0.13	-0.07	1974	1.0
y_mean[355]	-0.18	4.3e-4	0.03	-0.24	-0.2	-0.18	-0.16	-0.13	4056	1.0
y_mean[356]	-0.44	9.0e-4	0.05	-0.54	-0.48	-0.45	-0.41	-0.35	2932	1.0
y_mean[357]	0.31	5.1e-4	0.03	0.25	0.29	0.31	0.34	0.38	4642	1.0
y_mean[358]	0.41	7.6e-4	0.05	0.32	0.38	0.41	0.44	0.5	3600	1.0
y_mean[359]	-0.52	7.1e-4	0.04	-0.59	-0.54	-0.52	-0.49	-0.44	2900	1.0
y_mean[360]	-0.18	1.0e-3	0.04	-0.27	-0.21	-0.18	-0.15	-0.09	1987	1.0
y_mean[361]	-0.73	7.8e-4	0.04	-0.82	-0.76	-0.73	-0.7	-0.65	3152	1.0
y_mean[362]	-0.7	7.4e-4	0.04	-0.78	-0.73	-0.7	-0.67	-0.61	3360	1.0
y_mean[363]	-0.53	4.8e-4	0.03	-0.58	-0.55	-0.53	-0.52	-0.48	2922	1.0
y_mean[364]	-0.33	6.4e-4	0.04	-0.4	-0.35	-0.33	-0.3	-0.26	3100	1.0
y_mean[365]	-0.55	4.3e-4	0.02	-0.6	-0.57	-0.55	-0.54	-0.51	3290	1.0
y_mean[366]	-0.1	4.4e-4	0.03	-0.15	-0.12	-0.1	-0.08	-0.04	3831	1.0
y_mean[367]	-0.73	6.4e-4	0.04	-0.81	-0.76	-0.73	-0.71	-0.66	3605	1.0
y_mean[368]	-0.09	4.4e-4	0.03	-0.15	-0.11	-0.1	-0.08	-0.04	4307	1.0
y_mean[369]	-0.55	5.7e-4	0.03	-0.61	-0.57	-0.55	-0.53	-0.49	3069	1.0
y_mean[370]	-5.3e-3	5.0e-4	0.03	-0.06	-0.02	-5.5e-3	0.01	0.05	3532	1.0
y_mean[371]	-0.46	8.2e-4	0.04	-0.54	-0.49	-0.46	-0.43	-0.37	2857	1.0
y_mean[372]	-0.79	6.1e-4	0.04	-0.87	-0.82	-0.79	-0.77	-0.72	3996	1.0
y_mean[373]	-0.58	6.4e-4	0.04	-0.66	-0.61	-0.58	-0.56	-0.51	3479	1.0
y_mean[374]	-0.46	8.1e-4	0.04	-0.54	-0.49	-0.46	-0.43	-0.37	2853	1.0
y_mean[375]	-0.08	9.1e-4	0.04	-0.17	-0.11	-0.08	-0.05	7.1e-4	2131	1.0
y_mean[376]	0.54	6.3e-4	0.04	0.46	0.51	0.54	0.57	0.63	4972	1.0
y_mean[377]	0.61	6.7e-4	0.05	0.51	0.58	0.62	0.65	0.71	5797	1.0
y_mean[378]	-0.35	7.3e-4	0.04	-0.42	-0.37	-0.34	-0.32	-0.28	2323	1.0
y_mean[379]	-0.03	4.7e-4	0.03	-0.08	-0.04	-0.03	-7.0e-3	0.03	3526	1.0
y_mean[380]	0.72	8.1e-4	0.06	0.6	0.68	0.71	0.75	0.83	5295	1.0
y_mean[381]	-0.34	5.5e-4	0.04	-0.41	-0.36	-0.34	-0.31	-0.26	4399	1.0
y_mean[382]	0.57	5.4e-4	0.04	0.5	0.55	0.57	0.6	0.65	5288	1.0
y_mean[383]	-0.81	7.3e-4	0.05	-0.9	-0.84	-0.81	-0.78	-0.72	3909	1.0
y_mean[384]	0.42	4.6e-4	0.03	0.36	0.4	0.42	0.44	0.48	4646	1.0
y_mean[385]	-0.54	4.1e-4	0.02	-0.59	-0.56	-0.54	-0.53	-0.5	3142	1.0
y_mean[386]	0.2	5.8e-4	0.04	0.12	0.17	0.2	0.23	0.28	4956	1.0
y_mean[387]	-0.2	5.4e-4	0.03	-0.26	-0.22	-0.2	-0.18	-0.13	3962	1.0
y_mean[388]	0.44	4.5e-4	0.03	0.38	0.42	0.44	0.46	0.51	5125	1.0
y_mean[389]	-0.47	3.2e-4	0.02	-0.51	-0.48	-0.47	-0.46	-0.43	4215	1.0
y_mean[390]	-0.48	6.1e-4	0.03	-0.55	-0.5	-0.48	-0.46	-0.41	3202	1.0
y_mean[391]	-0.17	7.2e-4	0.05	-0.26	-0.2	-0.17	-0.14	-0.08	4150	1.0
y_mean[392]	0.68	6.4e-4	0.04	0.6	0.66	0.68	0.71	0.77	4450	1.0
y_mean[393]	-0.48	4.0e-4	0.03	-0.54	-0.5	-0.48	-0.47	-0.43	4503	1.0
y_mean[394]	-0.05	9.3e-4	0.05	-0.15	-0.08	-0.05	-0.02	0.05	2917	1.0

y_mean[395]	-0.2	5.2e-4	0.03	-0.26	-0.22	-0.2	-0.18	-0.15	3038	1.0
y_mean[396]	-0.1	4.2e-4	0.03	-0.15	-0.12	-0.1	-0.09	-0.05	3614	1.0
y_mean[397]	-0.52	4.6e-4	0.02	-0.57	-0.54	-0.52	-0.5	-0.47	2904	1.0
y_mean[398]	-0.19	7.0e-4	0.05	-0.28	-0.22	-0.19	-0.16	-0.1	4311	1.0
y_mean[399]	-0.56	6.1e-4	0.04	-0.63	-0.59	-0.56	-0.54	-0.49	3415	1.0
y_mean[400]	-0.41	4.8e-4	0.03	-0.47	-0.43	-0.41	-0.39	-0.35	3719	1.0
y_mean[401]	-0.49	7.1e-4	0.04	-0.58	-0.52	-0.49	-0.46	-0.4	3787	1.0
y_mean[402]	-0.48	5.8e-4	0.03	-0.54	-0.5	-0.48	-0.46	-0.42	2749	1.0
y_mean[403]	6.07	4.9e-3	0.33	5.42	5.85	6.07	6.29	6.69	4343	1.0
y_mean[404]	1.03	6.3e-4	0.04	0.94	1.0	1.03	1.06	1.11	4865	1.0
y_mean[405]	0.03	5.2e-4	0.03	-0.03	8.7e-3	0.03	0.05	0.08	2812	1.0
y_mean[406]	0.2	4.3e-4	0.03	0.15	0.18	0.2	0.21	0.25	3712	1.0
y_mean[407]	-0.51	5.7e-4	0.04	-0.58	-0.54	-0.51	-0.49	-0.44	3953	1.0
y_mean[408]	0.41	4.5e-4	0.03	0.35	0.39	0.41	0.43	0.47	5206	1.0
y_mean[409]	-0.52	3.8e-4	0.02	-0.57	-0.54	-0.52	-0.51	-0.48	3456	1.0
y_mean[410]	-0.28	8.0e-4	0.05	-0.38	-0.31	-0.28	-0.25	-0.18	3708	1.0
y_mean[411]	-0.28	6.5e-4	0.03	-0.35	-0.3	-0.28	-0.25	-0.21	2792	1.0
y_mean[412]	-0.17	6.7e-4	0.04	-0.25	-0.2	-0.17	-0.15	-0.1	3371	1.0
y_mean[413]	-0.46	4.0e-4	0.02	-0.51	-0.48	-0.46	-0.45	-0.41	3815	1.0
y_mean[414]	-0.44	6.1e-4	0.03	-0.5	-0.46	-0.44	-0.42	-0.38	2852	1.0
y_mean[415]	-0.19	5.8e-4	0.03	-0.25	-0.21	-0.19	-0.17	-0.13	2887	1.0
y_mean[416]	-0.57	4.9e-4	0.03	-0.63	-0.59	-0.57	-0.55	-0.52	3224	1.0
y_mean[417]	-0.35	5.2e-4	0.03	-0.4	-0.37	-0.35	-0.33	-0.3	2555	1.0
y_mean[418]	-0.22	6.7e-4	0.04	-0.3	-0.25	-0.22	-0.19	-0.14	3274	1.0
y_mean[419]	0.26	6.5e-4	0.04	0.18	0.23	0.26	0.29	0.35	4212	1.0
y_mean[420]	1.55	7.4e-4	0.06	1.44	1.51	1.55	1.59	1.66	5998	1.0
y_mean[421]	-0.56	4.4e-4	0.03	-0.61	-0.57	-0.56	-0.54	-0.51	3283	1.0
y_mean[422]	-0.29	4.2e-4	0.02	-0.34	-0.3	-0.29	-0.27	-0.24	3305	1.0
y_mean[423]	-0.68	8.9e-4	0.05	-0.78	-0.71	-0.68	-0.65	-0.58	3088	1.0
y_mean[424]	-0.16	5.7e-4	0.03	-0.22	-0.18	-0.16	-0.14	-0.1	2938	1.0
y_mean[425]	-0.67	1.0e-3	0.06	-0.78	-0.71	-0.67	-0.63	-0.56	3011	1.0
y_mean[426]	0.18	7.6e-4	0.05	0.08	0.15	0.19	0.22	0.29	4478	1.0
y_mean[427]	-0.01	8.1e-4	0.05	-0.11	-0.05	-0.01	0.02	0.09	3953	1.0
y_mean[428]	-0.55	4.4e-4	0.02	-0.59	-0.56	-0.55	-0.53	-0.5	3078	1.0
y_mean[429]	0.43	8.0e-4	0.06	0.32	0.39	0.43	0.47	0.54	4974	1.0
y_mean[430]	-0.78	6.8e-4	0.04	-0.87	-0.81	-0.78	-0.76	-0.7	3964	1.0
y_mean[431]	-0.36	7.1e-4	0.03	-0.43	-0.39	-0.36	-0.34	-0.3	2274	1.0
y_mean[432]	-0.33	1.0e-3	0.05	-0.43	-0.36	-0.33	-0.3	-0.24	2100	1.0
y_mean[433]	-0.54	5.9e-4	0.03	-0.6	-0.56	-0.54	-0.52	-0.47	2959	1.0
y_mean[434]	-0.31	4.7e-4	0.03	-0.36	-0.33	-0.31	-0.3	-0.26	2829	1.0
y_mean[435]	0.14	5.6e-4	0.04	0.07	0.12	0.14	0.17	0.22	4875	1.0
y_mean[436]	-0.29	8.8e-4	0.05	-0.39	-0.32	-0.29	-0.25	-0.18	3638	1.0
y_mean[437]	0.2	6.1e-4	0.04	0.13	0.18	0.2	0.23	0.28	4150	1.0
y_mean[438]	-0.79	5.8e-4	0.04	-0.86	-0.81	-0.79	-0.76	-0.71	3991	1.0
y_mean[439]	-0.05	4.8e-4	0.03	-0.11	-0.07	-0.05	-0.03	1.7e-3	3342	1.0
y_mean[440]	0.41	5.2e-4	0.03	0.35	0.39	0.41	0.43	0.48	4011	1.0
y_mean[441]	0.53	5.1e-4	0.03	0.46	0.5	0.53	0.55	0.6	4638	1.0
y_mean[442]	-0.31	7.8e-4	0.04	-0.38	-0.33	-0.31	-0.28	-0.24	2092	1.0

y_mean[443]	4.6e-3	5.9e-4	0.04	-0.07	-0.02	4.2e-3	0.03	0.08	4491	1.0
y_mean[444]	-0.41	6.7e-4	0.04	-0.48	-0.43	-0.41	-0.38	-0.33	3043	1.0
y_mean[445]	-0.53	4.8e-4	0.03	-0.59	-0.55	-0.53	-0.51	-0.47	3766	1.0
y_mean[446]	-0.54	4.7e-4	0.03	-0.59	-0.56	-0.54	-0.52	-0.49	2981	1.0
y_mean[447]	-0.41	3.1e-4	0.02	-0.45	-0.42	-0.41	-0.39	-0.37	4175	1.0
y_mean[448]	0.15	4.1e-4	0.02	0.11	0.14	0.15	0.17	0.2	3690	1.0
y_mean[449]	0.62	8.3e-4	0.05	0.52	0.59	0.62	0.66	0.73	3901	1.0
y_mean[450]	-0.24	5.1e-4	0.03	-0.3	-0.26	-0.24	-0.22	-0.19	2998	1.0
y_mean[451]	-0.38	8.4e-4	0.05	-0.47	-0.41	-0.38	-0.35	-0.29	2960	1.0
y_mean[452]	-0.59	6.4e-4	0.04	-0.66	-0.62	-0.59	-0.57	-0.52	3221	1.0
y_mean[453]	-0.57	4.8e-4	0.03	-0.62	-0.59	-0.57	-0.55	-0.51	3256	1.0
y_mean[454]	-0.13	4.3e-4	0.03	-0.18	-0.15	-0.13	-0.12	-0.08	3388	1.0
y_mean[455]	-0.22	5.7e-4	0.03	-0.28	-0.24	-0.22	-0.2	-0.16	2896	1.0
y_mean[456]	-0.36	4.4e-4	0.02	-0.41	-0.38	-0.36	-0.35	-0.32	3001	1.0
y_mean[457]	-0.79	6.0e-4	0.04	-0.87	-0.82	-0.79	-0.77	-0.72	3993	1.0
y_mean[458]	0.98	1.0e-3	0.08	0.82	0.93	0.98	1.03	1.13	5805	1.0
y_mean[459]	-0.39	5.1e-4	0.03	-0.46	-0.41	-0.39	-0.37	-0.32	4697	1.0
y_mean[460]	0.36	4.7e-4	0.03	0.29	0.34	0.36	0.38	0.43	5081	1.0
y_mean[461]	0.21	8.0e-4	0.04	0.14	0.19	0.21	0.24	0.29	2199	1.0
y_mean[462]	-0.68	7.2e-4	0.04	-0.77	-0.71	-0.68	-0.65	-0.6	3800	1.0
y_mean[463]	-0.47	4.0e-4	0.02	-0.51	-0.48	-0.47	-0.45	-0.42	3874	1.0
y_mean[464]	0.64	4.8e-4	0.03	0.58	0.62	0.64	0.66	0.7	4621	1.0
y_mean[465]	0.05	5.0e-4	0.03	-0.01	0.03	0.05	0.07	0.11	3842	1.0
y_mean[466]	-0.46	4.2e-4	0.03	-0.51	-0.48	-0.46	-0.44	-0.4	4553	1.0
y_mean[467]	0.44	6.9e-4	0.04	0.36	0.42	0.44	0.47	0.52	3671	1.0
y_mean[468]	-0.17	6.2e-4	0.04	-0.25	-0.2	-0.17	-0.15	-0.1	3753	1.0
y_mean[469]	1.33	8.1e-4	0.06	1.22	1.29	1.33	1.38	1.45	5444	1.0
y_mean[470]	0.02	4.6e-4	0.03	-0.04	-3.7e-3	0.02	0.04	0.07	4187	1.0
y_mean[471]	0.49	5.2e-4	0.04	0.42	0.47	0.49	0.51	0.56	4959	1.0
y_mean[472]	-0.57	5.3e-4	0.03	-0.62	-0.59	-0.56	-0.55	-0.51	3206	1.0
y_mean[473]	-0.18	4.8e-4	0.03	-0.23	-0.19	-0.18	-0.16	-0.12	3222	1.0
y_mean[474]	1.14	9.1e-4	0.06	1.01	1.09	1.14	1.18	1.26	4808	1.0
y_mean[475]	0.17	6.1e-4	0.04	0.08	0.14	0.17	0.19	0.25	4406	1.0
y_mean[476]	0.97	4.7e-4	0.04	0.89	0.94	0.97	0.99	1.04	6465	1.0
y_mean[477]	-0.79	7.4e-4	0.05	-0.88	-0.82	-0.79	-0.76	-0.7	3930	1.0
y_mean[478]	-0.03	5.9e-4	0.03	-0.1	-0.06	-0.03	-9.7e-3	0.03	3363	1.0
y_mean[479]	0.85	6.7e-4	0.05	0.75	0.82	0.85	0.88	0.94	4681	1.0
y_mean[480]	-0.14	4.3e-4	0.03	-0.19	-0.16	-0.14	-0.13	-0.09	3391	1.0
y_mean[481]	-0.32	4.3e-4	0.02	-0.37	-0.33	-0.32	-0.3	-0.27	3042	1.0
y_mean[482]	0.23	4.9e-4	0.03	0.18	0.21	0.23	0.25	0.29	3264	1.0
y_mean[483]	0.2	4.8e-4	0.03	0.15	0.18	0.2	0.22	0.26	3273	1.0
y_mean[484]	-0.55	6.5e-4	0.04	-0.63	-0.58	-0.55	-0.53	-0.48	3278	1.0
y_mean[485]	-0.77	7.2e-4	0.04	-0.85	-0.8	-0.77	-0.74	-0.68	3554	1.0
y_mean[486]	1.21	6.4e-4	0.05	1.12	1.18	1.21	1.25	1.31	5743	1.0
y_mean[487]	0.62	4.8e-4	0.03	0.56	0.6	0.62	0.64	0.69	4720	1.0
y_mean[488]	-0.27	4.2e-4	0.02	-0.32	-0.29	-0.27	-0.25	-0.22	3440	1.0
y_mean[489]	1.47	6.9e-4	0.05	1.38	1.44	1.47	1.5	1.56	4869	1.0
y_mean[490]	0.07	5.0e-4	0.03	8.7e-3	0.05	0.07	0.09	0.13	4017	1.0

y_mean[491]	-0.23	6.2e-4	0.03	-0.29	-0.25	-0.23	-0.21	-0.17	2522	1.0
y_mean[492]	-0.38	6.3e-4	0.04	-0.45	-0.4	-0.38	-0.36	-0.31	3286	1.0
y_mean[493]	-0.45	5.5e-4	0.04	-0.53	-0.48	-0.45	-0.43	-0.38	4525	1.0
y_mean[494]	-0.14	1.1e-3	0.05	-0.24	-0.17	-0.14	-0.1	-0.04	1947	1.0
y_mean[495]	0.17	8.5e-4	0.05	0.07	0.13	0.17	0.21	0.28	4032	1.0
y_mean[496]	2.3	1.3e-3	0.09	2.13	2.24	2.29	2.35	2.47	4437	1.0
y_mean[497]	-0.14	4.3e-4	0.02	-0.19	-0.16	-0.14	-0.12	-0.09	3411	1.0
y_mean[498]	2.0	1.0e-3	0.07	1.86	1.95	2.0	2.05	2.14	4934	1.0
y_mean[499]	-0.09	6.7e-4	0.04	-0.17	-0.12	-0.09	-0.06	-8.2e-4	3996	1.0
y_mean[500]	-0.24	5.3e-4	0.03	-0.3	-0.26	-0.24	-0.22	-0.18	3599	1.0
y_mean[501]	-0.01	4.4e-4	0.03	-0.07	-0.03	-0.01	5.3e-3	0.04	4094	1.0
y_mean[502]	-0.4	4.7e-4	0.03	-0.46	-0.42	-0.4	-0.38	-0.34	4263	1.0
y_mean[503]	-0.72	9.4e-4	0.05	-0.82	-0.76	-0.72	-0.68	-0.61	3100	1.0
y_mean[504]	2.19	1.3e-3	0.09	2.02	2.13	2.19	2.25	2.36	4582	1.0
y_mean[505]	-0.05	4.2e-4	0.03	-0.1	-0.07	-0.05	-0.03	3.1e-3	4033	1.0
y_mean[506]	-0.54	4.1e-4	0.02	-0.59	-0.56	-0.54	-0.53	-0.5	3368	1.0
y_mean[507]	-0.12	5.9e-4	0.03	-0.18	-0.14	-0.12	-0.09	-0.05	3070	1.0
y_mean[508]	-0.49	5.6e-4	0.03	-0.54	-0.51	-0.49	-0.47	-0.43	2751	1.0
y_mean[509]	-0.77	6.5e-4	0.04	-0.84	-0.79	-0.77	-0.74	-0.69	3456	1.0
y_mean[510]	-0.53	4.1e-4	0.02	-0.58	-0.55	-0.53	-0.52	-0.49	3092	1.0
y_mean[511]	-0.34	3.7e-4	0.02	-0.39	-0.36	-0.34	-0.33	-0.3	3550	1.0
y_mean[512]	2.57	1.3e-3	0.09	2.39	2.5	2.57	2.63	2.75	5043	1.0
y_mean[513]	0.44	4.5e-4	0.03	0.38	0.42	0.44	0.46	0.51	5281	1.0
y_mean[514]	-0.74	6.1e-4	0.04	-0.82	-0.77	-0.74	-0.72	-0.67	3834	1.0
y_mean[515]	-0.34	4.5e-4	0.03	-0.41	-0.37	-0.34	-0.32	-0.28	4710	1.0
y_mean[516]	0.16	7.3e-4	0.06	0.05	0.12	0.16	0.2	0.27	6196	1.0
y_mean[517]	0.96	7.6e-4	0.04	0.88	0.93	0.96	0.99	1.05	3198	1.0
y_mean[518]	-0.31	4.9e-4	0.03	-0.36	-0.32	-0.31	-0.29	-0.26	2714	1.0
y_mean[519]	-0.18	6.1e-4	0.04	-0.26	-0.21	-0.18	-0.16	-0.11	3779	1.0
y_mean[520]	-0.13	9.0e-4	0.04	-0.21	-0.15	-0.12	-0.09	-0.04	2310	1.0
y_mean[521]	-0.55	8.0e-4	0.05	-0.64	-0.58	-0.54	-0.51	-0.45	3426	1.0
y_mean[522]	0.38	4.5e-4	0.03	0.32	0.36	0.38	0.4	0.44	5282	1.0
y_mean[523]	0.16	4.3e-4	0.03	0.11	0.14	0.16	0.17	0.2	3455	1.0
y_mean[524]	-0.23	5.9e-4	0.03	-0.29	-0.25	-0.23	-0.2	-0.16	3351	1.0
y_mean[525]	-0.43	4.4e-4	0.03	-0.48	-0.45	-0.43	-0.41	-0.37	3917	1.0
y_mean[526]	-0.47	4.4e-4	0.02	-0.52	-0.49	-0.47	-0.46	-0.42	3151	1.0
y_mean[527]	-0.2	4.6e-4	0.03	-0.26	-0.22	-0.2	-0.19	-0.15	3526	1.0
y_mean[528]	0.36	4.8e-4	0.03	0.3	0.34	0.36	0.39	0.43	4751	1.0
y_mean[529]	-0.36	5.4e-4	0.03	-0.43	-0.38	-0.36	-0.34	-0.3	3742	1.0
y_mean[530]	-0.57	4.8e-4	0.03	-0.62	-0.59	-0.57	-0.55	-0.51	3269	1.0
y_mean[531]	0.15	6.3e-4	0.04	0.07	0.12	0.15	0.18	0.24	4323	1.0
y_mean[532]	0.28	9.5e-4	0.06	0.17	0.25	0.28	0.32	0.4	3468	1.0
y_mean[533]	0.18	8.0e-4	0.04	0.11	0.16	0.18	0.21	0.25	2171	1.0
y_mean[534]	0.44	5.7e-4	0.04	0.36	0.41	0.44	0.47	0.52	5207	1.0
y_mean[535]	0.12	8.2e-4	0.04	0.04	0.09	0.12	0.14	0.19	2149	1.0
y_mean[536]	-0.43	5.8e-4	0.03	-0.49	-0.45	-0.43	-0.41	-0.36	3229	1.0
y_mean[537]	2.32	1.1e-3	0.07	2.18	2.27	2.32	2.37	2.46	4265	1.0
y_mean[538]	-0.25	5.4e-4	0.03	-0.31	-0.27	-0.25	-0.23	-0.18	3587	1.0

y_mean[539]	-0.57	6.1e-4	0.03	-0.64	-0.6	-0.57	-0.55	-0.5	3340	1.0
y_mean[540]	0.1	5.2e-4	0.04	0.03	0.08	0.1	0.12	0.17	4746	1.0
y_mean[541]	0.12	5.5e-4	0.03	0.05	0.1	0.12	0.14	0.19	3998	1.0
y_mean[542]	-0.51	3.9e-4	0.02	-0.55	-0.52	-0.51	-0.49	-0.46	3947	1.0
y_mean[543]	-0.64	7.9e-4	0.05	-0.74	-0.68	-0.64	-0.61	-0.55	3825	1.0
y_mean[544]	-0.36	5.3e-4	0.03	-0.43	-0.38	-0.36	-0.34	-0.3	3926	1.0
y_mean[545]	-0.3	1.2e-3	0.05	-0.41	-0.34	-0.3	-0.26	-0.2	2172	1.0
y_mean[546]	0.63	4.8e-4	0.03	0.56	0.6	0.63	0.65	0.69	4706	1.0
y_mean[547]	-0.13	6.3e-4	0.05	-0.22	-0.16	-0.13	-0.1	-0.03	5622	1.0
y_mean[548]	-0.72	7.7e-4	0.04	-0.81	-0.75	-0.72	-0.69	-0.64	3162	1.0
y_mean[549]	-0.49	3.8e-4	0.02	-0.54	-0.51	-0.49	-0.47	-0.44	4172	1.0
y_mean[550]	-0.49	4.0e-4	0.03	-0.54	-0.5	-0.49	-0.47	-0.43	4492	1.0
y_mean[551]	-0.41	7.3e-4	0.04	-0.48	-0.44	-0.41	-0.39	-0.34	2458	1.0
y_mean[552]	-0.57	4.8e-4	0.03	-0.62	-0.59	-0.57	-0.55	-0.51	3213	1.0
y_mean[553]	-0.48	4.0e-4	0.02	-0.52	-0.49	-0.48	-0.46	-0.43	3628	1.0
y_mean[554]	-0.77	1.5e-3	0.09	-0.95	-0.83	-0.77	-0.71	-0.6	3539	1.0
y_mean[555]	-0.72	9.1e-4	0.05	-0.82	-0.76	-0.72	-0.69	-0.62	3122	1.0
y_mean[556]	-0.53	5.5e-4	0.03	-0.59	-0.55	-0.53	-0.51	-0.47	2879	1.0
y_mean[557]	0.05	5.0e-4	0.03	-9.4e-3	0.03	0.05	0.07	0.11	3878	1.0
y_mean[558]	0.36	9.3e-4	0.04	0.28	0.33	0.36	0.39	0.45	2244	1.0
y_mean[559]	-0.52	3.8e-4	0.02	-0.56	-0.53	-0.52	-0.5	-0.47	3500	1.0
y_mean[560]	-0.78	5.9e-4	0.04	-0.85	-0.8	-0.78	-0.75	-0.7	4064	1.0
y_mean[561]	-0.27	9.5e-4	0.05	-0.36	-0.3	-0.27	-0.24	-0.18	2246	1.0
y_mean[562]	-0.78	5.8e-4	0.04	-0.86	-0.81	-0.78	-0.76	-0.71	4011	1.0
y_mean[563]	-0.71	5.9e-4	0.04	-0.78	-0.73	-0.71	-0.69	-0.64	3839	1.0
y_mean[564]	0.07	5.8e-4	0.03	0.01	0.05	0.07	0.09	0.13	2691	1.0
y_mean[565]	-0.46	5.1e-4	0.03	-0.52	-0.48	-0.46	-0.44	-0.4	3171	1.0
y_mean[566]	-0.54	4.0e-4	0.02	-0.59	-0.56	-0.54	-0.53	-0.5	3319	1.0
y_mean[567]	-0.56	4.8e-4	0.03	-0.62	-0.58	-0.56	-0.55	-0.51	3169	1.0
y_mean[568]	1.22	9.1e-4	0.06	1.09	1.17	1.22	1.26	1.34	4960	1.0
y_mean[569]	-0.04	4.4e-4	0.03	-0.09	-0.06	-0.04	-0.02	0.01	3722	1.0
y_mean[570]	-0.35	1.0e-3	0.07	-0.48	-0.39	-0.35	-0.3	-0.22	4046	1.0
y_mean[571]	-0.14	5.6e-4	0.03	-0.21	-0.17	-0.14	-0.12	-0.08	3627	1.0
y_mean[572]	-0.57	4.7e-4	0.03	-0.62	-0.58	-0.57	-0.55	-0.51	3262	1.0
y_mean[573]	-0.55	4.6e-4	0.03	-0.6	-0.57	-0.55	-0.54	-0.5	3103	1.0
y_mean[574]	0.48	4.6e-4	0.03	0.42	0.45	0.48	0.5	0.54	4579	1.0
y_mean[575]	-0.58	5.8e-4	0.03	-0.64	-0.6	-0.58	-0.55	-0.51	3311	1.0
y_mean[576]	-0.06	4.3e-4	0.03	-0.11	-0.08	-0.06	-0.04	-8.6e-3	3678	1.0
y_mean[577]	-0.7	8.2e-4	0.05	-0.81	-0.74	-0.7	-0.67	-0.6	4195	1.0
y_mean[578]	-0.21	6.8e-4	0.04	-0.3	-0.24	-0.21	-0.18	-0.13	4081	1.0
y_mean[579]	0.7	5.4e-4	0.04	0.62	0.67	0.69	0.72	0.77	4773	1.0
y_mean[580]	-0.12	4.3e-4	0.03	-0.17	-0.14	-0.12	-0.1	-0.06	4219	1.0
y_mean[581]	-0.18	7.1e-4	0.04	-0.27	-0.21	-0.18	-0.15	-0.1	3692	1.0
y_mean[582]	-0.69	8.9e-4	0.05	-0.79	-0.72	-0.69	-0.66	-0.59	3084	1.0
y_mean[583]	0.99	9.6e-4	0.07	0.86	0.95	0.99	1.04	1.13	5118	1.0
y_mean[584]	0.21	5.5e-4	0.04	0.13	0.18	0.21	0.24	0.29	5166	1.0
y_mean[585]	-0.77	6.6e-4	0.04	-0.85	-0.8	-0.77	-0.75	-0.69	3561	1.0
y_mean[586]	-0.56	4.6e-4	0.03	-0.62	-0.58	-0.57	-0.55	-0.51	3265	1.0

y_mean[587]	0.21	8.1e-4	0.04	0.14	0.18	0.21	0.23	0.28	2208	1.0
y_mean[588]	-0.02	5.3e-4	0.03	-0.08	-0.04	-0.02	2.2e-3	0.04	3603	1.0
y_mean[589]	0.12	3.4e-4	0.02	0.07	0.1	0.12	0.13	0.17	5093	1.0
y_mean[590]	-0.1	6.2e-4	0.04	-0.17	-0.13	-0.1	-0.08	-0.04	3187	1.0
y_mean[591]	0.35	5.7e-4	0.04	0.28	0.32	0.35	0.37	0.42	4038	1.0
y_mean[592]	0.63	4.8e-4	0.03	0.56	0.6	0.63	0.65	0.69	4706	1.0
y_mean[593]	0.83	9.7e-4	0.06	0.7	0.79	0.83	0.87	0.95	4316	1.0
y_mean[594]	-0.57	4.8e-4	0.03	-0.62	-0.59	-0.57	-0.55	-0.52	3228	1.0
y_mean[595]	-0.21	6.4e-4	0.04	-0.28	-0.23	-0.21	-0.18	-0.14	3209	1.0
y_mean[596]	0.19	5.9e-4	0.04	0.11	0.16	0.19	0.22	0.28	4940	1.0
y_mean[597]	-0.28	5.2e-4	0.03	-0.33	-0.3	-0.28	-0.26	-0.23	2757	1.0
y_mean[598]	0.35	6.9e-4	0.04	0.28	0.32	0.35	0.37	0.42	2594	1.0
y_mean[599]	-0.13	4.4e-4	0.03	-0.18	-0.15	-0.13	-0.11	-0.07	4190	1.0
y_mean[600]	0.73	9.1e-4	0.07	0.59	0.68	0.73	0.78	0.87	6046	1.0
y_mean[601]	-0.31	5.2e-4	0.03	-0.36	-0.33	-0.31	-0.29	-0.26	2572	1.0
y_mean[602]	0.24	4.6e-4	0.03	0.19	0.22	0.24	0.26	0.3	3801	1.0
y_mean[603]	-0.87	2.2e-3	0.14	-1.14	-0.96	-0.87	-0.77	-0.6	3827	1.0
y_mean[604]	-0.58	5.9e-4	0.03	-0.64	-0.6	-0.58	-0.55	-0.51	3436	1.0
y_mean[605]	-0.53	5.7e-4	0.03	-0.6	-0.55	-0.53	-0.51	-0.46	3666	1.0
y_mean[606]	-0.37	4.7e-4	0.02	-0.42	-0.39	-0.37	-0.36	-0.33	2768	1.0
y_mean[607]	2.56	1.2e-3	0.07	2.43	2.51	2.56	2.61	2.7	3522	1.0
y_mean[608]	0.21	6.3e-4	0.04	0.13	0.19	0.21	0.24	0.3	4423	1.0
y_mean[609]	0.89	8.1e-4	0.06	0.78	0.85	0.89	0.93	1.0	4787	1.0
y_mean[610]	-0.24	5.4e-4	0.03	-0.3	-0.26	-0.24	-0.22	-0.18	3636	1.0
y_mean[611]	-0.14	4.7e-4	0.03	-0.2	-0.16	-0.14	-0.12	-0.08	3935	1.0
y_mean[612]	1.93	1.5e-3	0.11	1.7	1.85	1.93	2.0	2.15	5721	1.0
y_mean[613]	-0.49	6.8e-4	0.04	-0.56	-0.51	-0.49	-0.47	-0.42	2786	1.0
y_mean[614]	-0.45	5.6e-4	0.04	-0.53	-0.48	-0.45	-0.43	-0.38	4504	1.0
y_mean[615]	-0.44	7.0e-4	0.04	-0.51	-0.46	-0.44	-0.42	-0.37	2645	1.0
y_mean[616]	8.8e-4	4.4e-4	0.03	-0.06	-0.02	5.4e-4	0.02	0.06	4216	1.0
y_mean[617]	0.69	5.4e-4	0.04	0.61	0.66	0.69	0.72	0.77	5252	1.0
y_mean[618]	-0.14	4.6e-4	0.03	-0.19	-0.16	-0.14	-0.13	-0.09	3206	1.0
y_mean[619]	-0.36	6.4e-4	0.03	-0.42	-0.38	-0.36	-0.34	-0.29	2706	1.0
y_mean[620]	-0.48	6.1e-4	0.03	-0.54	-0.5	-0.48	-0.46	-0.42	2744	1.0
y_mean[621]	-0.4	4.9e-4	0.03	-0.45	-0.42	-0.4	-0.38	-0.34	3324	1.0
y_mean[622]	-0.1	4.1e-4	0.03	-0.15	-0.12	-0.1	-0.09	-0.05	3747	1.0
y_mean[623]	-0.09	4.8e-4	0.03	-0.14	-0.11	-0.09	-0.07	-0.03	3671	1.0
y_mean[624]	-0.79	6.7e-4	0.04	-0.87	-0.82	-0.79	-0.76	-0.7	4005	1.0
y_mean[625]	1.38	6.7e-4	0.05	1.29	1.35	1.38	1.41	1.48	5373	1.0
y_mean[626]	0.44	9.5e-4	0.05	0.35	0.41	0.44	0.47	0.53	2251	1.0
y_mean[627]	-0.56	4.8e-4	0.03	-0.61	-0.58	-0.56	-0.54	-0.51	3141	1.0
y_mean[628]	-0.11	4.4e-4	0.03	-0.16	-0.13	-0.11	-0.1	-0.06	3339	1.0
y_mean[629]	1.34	8.1e-4	0.06	1.24	1.31	1.34	1.38	1.46	4754	1.0
y_mean[630]	-0.22	5.2e-4	0.03	-0.28	-0.24	-0.22	-0.2	-0.17	2896	1.0
y_mean[631]	-0.51	4.7e-4	0.02	-0.56	-0.53	-0.51	-0.49	-0.46	2871	1.0
y_mean[632]	1.42	1.1e-3	0.08	1.27	1.37	1.42	1.47	1.57	4638	1.0
y_mean[633]	1.13	9.3e-4	0.07	1.0	1.08	1.13	1.17	1.26	5132	1.0
y_mean[634]	-0.48	5.2e-4	0.03	-0.53	-0.5	-0.48	-0.46	-0.43	2799	1.0

y_mean[635]	-0.17	6.3e-4	0.03	-0.23	-0.19	-0.17	-0.15	-0.11	2586	1.0
y_mean[636]	-0.47	4.0e-4	0.02	-0.52	-0.49	-0.47	-0.45	-0.42	3866	1.0
y_mean[637]	0.39	4.7e-4	0.03	0.33	0.37	0.39	0.41	0.45	4109	1.0
y_mean[638]	-0.51	3.7e-4	0.02	-0.55	-0.52	-0.51	-0.49	-0.46	3634	1.0
y_mean[639]	-0.47	4.6e-4	0.03	-0.54	-0.5	-0.47	-0.45	-0.41	4560	1.0
y_mean[640]	-0.57	7.9e-4	0.04	-0.65	-0.59	-0.56	-0.54	-0.48	2938	1.0
y_mean[641]	-0.47	3.9e-4	0.03	-0.51	-0.48	-0.47	-0.45	-0.42	4065	1.0
y_mean[642]	-0.48	6.7e-4	0.04	-0.54	-0.5	-0.48	-0.45	-0.41	2760	1.0
y_mean[643]	0.05	6.0e-4	0.04	-0.03	0.02	0.05	0.07	0.12	4108	1.0
y_mean[644]	-0.47	3.9e-4	0.03	-0.53	-0.49	-0.47	-0.46	-0.42	4427	1.0
y_mean[645]	-0.08	4.0e-4	0.03	-0.13	-0.1	-0.08	-0.06	-0.03	4278	1.0
y_mean[646]	0.26	4.9e-4	0.04	0.19	0.24	0.26	0.29	0.34	5541	1.0
y_mean[647]	-0.53	4.0e-4	0.02	-0.57	-0.55	-0.53	-0.52	-0.48	3078	1.0
y_mean[648]	-0.22	4.6e-4	0.03	-0.27	-0.24	-0.22	-0.2	-0.16	3642	1.0
y_mean[649]	0.49	4.5e-4	0.03	0.43	0.47	0.49	0.51	0.56	4876	1.0
y_mean[650]	0.73	5.4e-4	0.04	0.66	0.71	0.73	0.76	0.8	4449	1.0
y_mean[651]	-0.36	3.2e-4	0.02	-0.4	-0.37	-0.36	-0.35	-0.32	4200	1.0
y_mean[652]	-0.2	5.0e-4	0.03	-0.27	-0.23	-0.2	-0.18	-0.14	4382	1.0
y_mean[653]	0.55	6.5e-4	0.05	0.46	0.52	0.55	0.58	0.64	4852	1.0
y_mean[654]	-0.14	4.1e-4	0.02	-0.19	-0.16	-0.14	-0.13	-0.09	3602	1.0
y_mean[655]	-0.19	5.5e-4	0.03	-0.26	-0.21	-0.19	-0.17	-0.12	3856	1.0
y_mean[656]	1.35	6.5e-4	0.05	1.26	1.32	1.35	1.38	1.44	5204	1.0
y_mean[657]	2.45	2.1e-3	0.12	2.21	2.37	2.45	2.53	2.69	3240	1.0
y_mean[658]	-0.28	1.2e-3	0.06	-0.39	-0.32	-0.28	-0.24	-0.17	2196	1.0
y_mean[659]	-0.53	5.1e-4	0.03	-0.59	-0.55	-0.53	-0.51	-0.47	3739	1.0
y_mean[660]	-0.27	6.3e-4	0.04	-0.34	-0.3	-0.27	-0.25	-0.19	3563	1.0
y_mean[661]	-0.52	4.4e-4	0.02	-0.56	-0.53	-0.52	-0.5	-0.47	2961	1.0
y_mean[662]	0.4	5.0e-4	0.04	0.34	0.38	0.4	0.43	0.47	5017	1.0
y_mean[663]	0.26	5.0e-4	0.04	0.19	0.23	0.26	0.29	0.34	5598	1.0
y_mean[664]	-0.19	6.2e-4	0.04	-0.27	-0.22	-0.19	-0.17	-0.12	3756	1.0
y_mean[665]	-0.13	4.4e-4	0.03	-0.19	-0.15	-0.13	-0.11	-0.07	4183	1.0
y_mean[666]	-0.39	5.2e-4	0.03	-0.45	-0.41	-0.39	-0.37	-0.33	3604	1.0
y_mean[667]	0.72	6.3e-4	0.05	0.63	0.69	0.72	0.75	0.81	5311	1.0
y_mean[668]	-0.06	9.9e-4	0.05	-0.15	-0.09	-0.06	-0.03	0.03	2154	1.0
y_mean[669]	-0.4	5.1e-4	0.03	-0.46	-0.42	-0.4	-0.38	-0.34	3594	1.0
y_mean[670]	-0.37	5.2e-4	0.03	-0.43	-0.39	-0.37	-0.35	-0.31	3923	1.0
y_mean[671]	-0.11	9.7e-4	0.05	-0.2	-0.14	-0.11	-0.08	-0.02	2191	1.0
y_mean[672]	2.08	1.2e-3	0.09	1.91	2.02	2.08	2.14	2.26	5357	1.0
y_mean[673]	-0.15	6.0e-4	0.03	-0.22	-0.18	-0.15	-0.13	-0.09	2951	1.0
y_mean[674]	4.75	2.8e-3	0.16	4.44	4.64	4.75	4.86	5.08	3486	1.0
y_mean[675]	-0.53	4.0e-4	0.02	-0.58	-0.54	-0.53	-0.51	-0.48	3607	1.0
y_mean[676]	-0.2	4.6e-4	0.03	-0.25	-0.22	-0.2	-0.18	-0.14	3461	1.0
y_mean[677]	-0.52	4.6e-4	0.03	-0.58	-0.54	-0.52	-0.5	-0.47	3820	1.0
y_mean[678]	-0.22	4.7e-4	0.03	-0.28	-0.24	-0.22	-0.2	-0.16	3639	1.0
y_mean[679]	-0.76	5.8e-4	0.04	-0.83	-0.78	-0.76	-0.74	-0.69	3983	1.0
y_mean[680]	-0.4	7.8e-4	0.04	-0.49	-0.43	-0.4	-0.38	-0.32	3067	1.0
y_mean[681]	-0.19	1.0e-3	0.05	-0.28	-0.22	-0.19	-0.16	-0.1	2003	1.0
y_mean[682]	-0.12	4.9e-4	0.03	-0.18	-0.14	-0.12	-0.11	-0.07	3076	1.0

y_mean[683]	4.48	3.2e-3	0.2	4.08	4.34	4.47	4.61	4.87	4027	1.0
y_mean[684]	0.23	9.1e-4	0.05	0.13	0.19	0.23	0.26	0.33	3142	1.0
y_mean[685]	-0.11	5.7e-4	0.03	-0.17	-0.13	-0.11	-0.09	-0.05	2956	1.0
y_mean[686]	-0.1	6.0e-4	0.03	-0.16	-0.12	-0.1	-0.07	-0.03	2992	1.0
y_mean[687]	0.97	9.7e-4	0.07	0.84	0.92	0.97	1.01	1.1	4725	1.0
y_mean[688]	-0.19	5.9e-4	0.04	-0.26	-0.21	-0.19	-0.17	-0.12	3850	1.0
y_mean[689]	1.4	8.3e-4	0.06	1.28	1.36	1.4	1.45	1.52	5730	1.0
y_mean[690]	-0.44	8.2e-4	0.04	-0.52	-0.47	-0.44	-0.41	-0.35	2746	1.0
y_mean[691]	-0.22	4.7e-4	0.03	-0.27	-0.24	-0.22	-0.2	-0.16	3609	1.0
y_mean[692]	-0.79	6.1e-4	0.04	-0.87	-0.82	-0.79	-0.77	-0.72	3980	1.0
y_mean[693]	-0.56	4.5e-4	0.03	-0.61	-0.57	-0.56	-0.54	-0.5	3400	1.0
y_mean[694]	1.25	6.4e-4	0.05	1.15	1.21	1.24	1.28	1.34	5734	1.0
y_mean[695]	0.57	5.0e-4	0.04	0.5	0.54	0.57	0.59	0.64	5027	1.0
y_mean[696]	-0.52	4.9e-4	0.03	-0.57	-0.54	-0.52	-0.5	-0.47	2861	1.0
y_mean[697]	0.24	5.8e-4	0.04	0.16	0.21	0.24	0.27	0.32	5238	1.0
y_mean[698]	0.09	5.8e-4	0.04	8.1e-3	0.06	0.09	0.11	0.17	4749	1.0
y_mean[699]	0.53	4.5e-4	0.03	0.47	0.51	0.53	0.55	0.59	4606	1.0
y_mean[700]	0.62	7.6e-4	0.05	0.53	0.59	0.62	0.66	0.72	4115	1.0
y_mean[701]	0.99	6.8e-4	0.04	0.91	0.97	0.99	1.02	1.07	3666	1.0
y_mean[702]	-0.54	4.4e-4	0.03	-0.59	-0.56	-0.54	-0.52	-0.49	3541	1.0
y_mean[703]	0.76	1.2e-3	0.08	0.59	0.7	0.76	0.81	0.93	5008	1.0
y_mean[704]	0.63	4.9e-4	0.04	0.56	0.61	0.63	0.66	0.71	6265	1.0
y_mean[705]	-0.6	8.0e-4	0.05	-0.69	-0.63	-0.6	-0.57	-0.51	3394	1.0
y_mean[706]	0.21	6.8e-4	0.04	0.13	0.18	0.21	0.24	0.3	4228	1.0
y_mean[707]	-0.53	4.3e-4	0.02	-0.58	-0.55	-0.53	-0.52	-0.49	2982	1.0
y_mean[708]	0.43	5.7e-4	0.04	0.36	0.41	0.43	0.46	0.5	4389	1.0
y_mean[709]	-0.57	4.9e-4	0.03	-0.63	-0.59	-0.57	-0.55	-0.52	3252	1.0
y_mean[710]	-0.15	7.8e-4	0.04	-0.22	-0.18	-0.15	-0.13	-0.08	2224	1.0
y_mean[711]	1.48	1.0e-3	0.07	1.34	1.43	1.48	1.53	1.62	4868	1.0
y_mean[712]	0.16	9.4e-4	0.05	0.06	0.13	0.16	0.19	0.26	2806	1.0
y_mean[713]	-0.53	3.9e-4	0.02	-0.57	-0.54	-0.53	-0.51	-0.48	3282	1.0
y_mean[714]	-0.08	4.0e-4	0.03	-0.13	-0.1	-0.08	-0.06	-0.03	4098	1.0
y_mean[715]	-0.51	6.2e-4	0.04	-0.59	-0.54	-0.51	-0.49	-0.44	3771	1.0
y_mean[716]	-0.29	7.5e-4	0.04	-0.37	-0.32	-0.29	-0.27	-0.22	2880	1.0
y_mean[717]	-0.17	7.5e-4	0.04	-0.25	-0.2	-0.17	-0.14	-0.09	3032	1.0
y_mean[718]	-0.08	4.2e-4	0.03	-0.12	-0.09	-0.08	-0.06	-0.02	3799	1.0
y_mean[719]	0.3	4.7e-4	0.03	0.24	0.28	0.3	0.32	0.36	4222	1.0
y_mean[720]	0.13	3.9e-4	0.03	0.08	0.12	0.13	0.15	0.18	4364	1.0
y_mean[721]	-0.52	3.8e-4	0.02	-0.56	-0.53	-0.52	-0.5	-0.47	3522	1.0
y_mean[722]	0.31	4.7e-4	0.03	0.24	0.28	0.31	0.33	0.38	5389	1.0
y_mean[723]	-0.87	1.2e-3	0.08	-1.02	-0.92	-0.87	-0.81	-0.72	3812	1.0
y_mean[724]	0.75	5.8e-4	0.04	0.67	0.73	0.75	0.78	0.83	4809	1.0
y_mean[725]	0.57	4.6e-4	0.03	0.51	0.55	0.57	0.59	0.63	4650	1.0
y_mean[726]	-0.58	6.1e-4	0.04	-0.65	-0.6	-0.58	-0.56	-0.51	3440	1.0
y_mean[727]	-0.8	6.4e-4	0.04	-0.88	-0.83	-0.8	-0.77	-0.72	3938	1.0
y_mean[728]	-0.39	5.4e-4	0.03	-0.44	-0.4	-0.39	-0.37	-0.33	2578	1.0
y_mean[729]	-0.47	5.1e-4	0.03	-0.52	-0.48	-0.47	-0.45	-0.41	2892	1.0
y_mean[730]	-0.13	6.3e-4	0.03	-0.2	-0.15	-0.13	-0.11	-0.07	2735	1.0

y_mean[731]	2.02	1.7e-3	0.12	1.79	1.94	2.02	2.1	2.25	4708	1.0
y_mean[732]	0.06	6.1e-4	0.03	1.8e-3	0.04	0.06	0.08	0.12	2512	1.0
y_mean[733]	-0.41	9.5e-4	0.05	-0.5	-0.44	-0.41	-0.38	-0.32	2381	1.0
y_mean[734]	0.04	4.5e-4	0.03	-0.01	0.02	0.04	0.06	0.09	3692	1.0
y_mean[735]	0.03	3.6e-4	0.02	-0.01	0.02	0.03	0.05	0.08	3965	1.0
y_mean[736]	1.05	1.5e-3	0.1	0.85	0.99	1.05	1.12	1.25	4740	1.0
y_mean[737]	0.33	5.7e-4	0.04	0.26	0.31	0.33	0.36	0.4	4052	1.0
y_mean[738]	0.55	4.8e-4	0.03	0.49	0.53	0.55	0.57	0.61	4771	1.0
y_mean[739]	0.69	5.1e-4	0.03	0.62	0.66	0.69	0.71	0.76	4587	1.0
y_mean[740]	0.88	6.5e-4	0.04	0.8	0.85	0.88	0.91	0.97	4490	1.0
y_mean[741]	-0.49	3.8e-4	0.02	-0.54	-0.51	-0.49	-0.48	-0.45	3762	1.0
y_mean[742]	1.19	7.2e-4	0.06	1.08	1.15	1.19	1.23	1.31	6753	1.0
y_mean[743]	0.88	7.9e-4	0.06	0.77	0.85	0.88	0.92	0.99	4949	1.0
y_mean[744]	0.72	1.0e-3	0.07	0.58	0.67	0.72	0.77	0.87	5093	1.0
y_mean[745]	0.94	7.8e-4	0.06	0.83	0.9	0.94	0.98	1.06	5587	1.0
y_mean[746]	-0.33	5.4e-4	0.03	-0.39	-0.35	-0.33	-0.3	-0.26	3726	1.0
y_mean[747]	4.02	2.7e-3	0.16	3.72	3.92	4.03	4.13	4.32	3419	1.0
y_mean[748]	0.05	7.3e-4	0.04	-0.02	0.03	0.05	0.07	0.12	2309	1.0
y_mean[749]	0.62	4.8e-4	0.03	0.55	0.59	0.62	0.64	0.68	4702	1.0
y_mean[750]	0.71	3.9e-4	0.03	0.65	0.69	0.71	0.73	0.77	5576	1.0
y_mean[751]	2.16	1.9e-3	0.13	1.89	2.07	2.16	2.25	2.42	5072	1.0
y_mean[752]	0.95	7.8e-4	0.06	0.84	0.91	0.95	0.99	1.07	5607	1.0
y_mean[753]	0.37	5.6e-4	0.04	0.3	0.34	0.37	0.39	0.44	4056	1.0
y_mean[754]	2.03	1.2e-3	0.09	1.87	1.97	2.03	2.09	2.21	5358	1.0
y_mean[755]	-0.54	5.6e-4	0.03	-0.61	-0.56	-0.54	-0.52	-0.47	3799	1.0
y_mean[756]	0.16	3.7e-4	0.02	0.11	0.14	0.16	0.18	0.21	4060	1.0
y_mean[757]	0.51	6.4e-4	0.05	0.42	0.48	0.51	0.54	0.6	5545	1.0
y_mean[758]	1.52	7.3e-4	0.05	1.41	1.48	1.52	1.55	1.62	4841	1.0
y_mean[759]	0.54	5.1e-4	0.03	0.47	0.52	0.54	0.56	0.61	4574	1.0
y_mean[760]	-0.35	4.6e-4	0.02	-0.4	-0.37	-0.35	-0.33	-0.3	2814	1.0
y_mean[761]	-0.32	3.3e-4	0.02	-0.36	-0.33	-0.32	-0.3	-0.27	4960	1.0
y_mean[762]	0.71	1.0e-3	0.08	0.55	0.66	0.71	0.75	0.86	5673	1.0
y_mean[763]	-0.57	4.9e-4	0.03	-0.63	-0.59	-0.57	-0.55	-0.52	3279	1.0
y_mean[764]	0.15	7.1e-4	0.05	0.06	0.12	0.15	0.18	0.25	4592	1.0
y_mean[765]	-0.35	4.8e-4	0.03	-0.4	-0.36	-0.35	-0.33	-0.3	2971	1.0
y_mean[766]	-0.35	5.6e-4	0.03	-0.42	-0.37	-0.35	-0.33	-0.28	3710	1.0
y_mean[767]	1.14	8.9e-4	0.06	1.02	1.1	1.14	1.18	1.27	5041	1.0
y_mean[768]	0.3	9.2e-4	0.05	0.2	0.27	0.3	0.34	0.41	3143	1.0
y_mean[769]	0.28	4.5e-4	0.03	0.23	0.26	0.28	0.3	0.34	3869	1.0
y_mean[770]	-0.66	9.8e-4	0.05	-0.76	-0.7	-0.66	-0.62	-0.55	3054	1.0
y_mean[771]	-0.2	4.6e-4	0.03	-0.25	-0.22	-0.2	-0.18	-0.14	3474	1.0
y_mean[772]	-0.15	4.3e-4	0.02	-0.2	-0.17	-0.15	-0.13	-0.1	3438	1.0
y_mean[773]	-0.49	3.8e-4	0.02	-0.53	-0.5	-0.49	-0.47	-0.44	3910	1.0
y_mean[774]	0.98	7.5e-4	0.06	0.87	0.94	0.98	1.02	1.1	5647	1.0
y_mean[775]	0.66	6.6e-4	0.04	0.58	0.63	0.66	0.69	0.74	3872	1.0
y_mean[776]	0.05	5.2e-4	0.03	-0.01	0.03	0.05	0.07	0.12	3846	1.0
y_mean[777]	0.39	8.2e-4	0.04	0.31	0.36	0.39	0.42	0.47	2386	1.0
y_mean[778]	-0.64	7.0e-4	0.04	-0.72	-0.67	-0.64	-0.61	-0.56	3292	1.0

y_mean[779]	-0.28	1.2e-3	0.06	-0.39	-0.32	-0.28	-0.24	-0.17	2196	1.0
y_mean[780]	-0.05	6.4e-4	0.04	-0.12	-0.08	-0.05	-0.02	0.03	3536	1.0
y_mean[781]	-0.08	4.6e-4	0.03	-0.13	-0.1	-0.08	-0.06	-0.03	3288	1.0
y_mean[782]	0.33	5.5e-4	0.04	0.26	0.3	0.33	0.35	0.4	4188	1.0
y_mean[783]	-0.2	4.7e-4	0.03	-0.25	-0.22	-0.2	-0.18	-0.15	3397	1.0
y_mean[784]	-0.52	4.0e-4	0.02	-0.57	-0.54	-0.52	-0.51	-0.48	3644	1.0
y_mean[785]	-0.58	5.8e-4	0.03	-0.64	-0.6	-0.58	-0.56	-0.51	3318	1.0
y_mean[786]	-0.27	9.5e-4	0.04	-0.35	-0.3	-0.27	-0.24	-0.19	1955	1.0
y_mean[787]	-0.29	8.1e-4	0.05	-0.38	-0.32	-0.29	-0.26	-0.19	3686	1.0
y_mean[788]	1.4	6.7e-4	0.05	1.31	1.37	1.4	1.43	1.5	5155	1.0
y_mean[789]	-0.14	4.1e-4	0.02	-0.19	-0.16	-0.14	-0.13	-0.09	3602	1.0
y_mean[790]	-0.26	1.1e-3	0.05	-0.35	-0.29	-0.26	-0.22	-0.16	2063	1.0
y_mean[791]	0.22	6.5e-4	0.05	0.13	0.19	0.22	0.25	0.31	4872	1.0
y_mean[792]	-0.57	5.1e-4	0.03	-0.63	-0.59	-0.57	-0.55	-0.51	3218	1.0
y_mean[793]	-0.07	5.0e-4	0.03	-0.12	-0.08	-0.06	-0.05	-9.4e-3	3193	1.0
y_mean[794]	1.96	8.2e-4	0.06	1.83	1.91	1.95	2.0	2.08	6095	1.0
y_mean[795]	-0.73	8.4e-4	0.05	-0.82	-0.76	-0.73	-0.7	-0.64	3119	1.0
y_mean[796]	-0.11	4.9e-4	0.03	-0.17	-0.13	-0.11	-0.1	-0.06	3087	1.0
y_mean[797]	-0.1	5.7e-4	0.03	-0.17	-0.13	-0.1	-0.08	-0.03	3545	1.0
y_mean[798]	-0.51	5.2e-4	0.03	-0.57	-0.53	-0.51	-0.49	-0.45	3639	1.0
y_mean[799]	-0.06	5.2e-4	0.03	-0.12	-0.08	-0.06	-0.04	-5.9e-3	3170	1.0
y_mean[800]	0.04	6.0e-4	0.04	-0.04	0.01	0.04	0.07	0.12	4785	1.0
y_mean[801]	0.38	5.3e-4	0.03	0.32	0.36	0.38	0.41	0.45	4159	1.0
y_mean[802]	1.55	1.3e-3	0.08	1.38	1.49	1.55	1.61	1.71	4051	1.0
y_mean[803]	-0.55	5.3e-4	0.03	-0.6	-0.57	-0.55	-0.53	-0.49	3003	1.0
y_mean[804]	-0.77	6.3e-4	0.04	-0.84	-0.79	-0.77	-0.74	-0.69	3485	1.0
y_mean[805]	-0.11	4.2e-4	0.03	-0.16	-0.13	-0.11	-0.09	-0.05	4045	1.0
y_mean[806]	-0.29	3.8e-4	0.02	-0.33	-0.3	-0.29	-0.27	-0.24	3827	1.0
y_mean[807]	-0.46	5.7e-4	0.04	-0.54	-0.49	-0.46	-0.44	-0.39	4440	1.0
y_mean[808]	-0.53	1.1e-3	0.06	-0.64	-0.56	-0.53	-0.49	-0.41	2707	1.0
y_mean[809]	-0.59	6.7e-4	0.04	-0.67	-0.62	-0.59	-0.57	-0.52	3220	1.0
y_mean[810]	-0.27	5.2e-4	0.03	-0.33	-0.29	-0.27	-0.25	-0.22	2823	1.0
y_mean[811]	-0.47	4.4e-4	0.03	-0.53	-0.49	-0.47	-0.45	-0.41	4615	1.0
y_mean[812]	1.1	4.9e-4	0.03	1.04	1.08	1.1	1.13	1.17	5049	1.0
y_mean[813]	-0.1	6.2e-4	0.03	-0.17	-0.12	-0.1	-0.08	-0.03	2916	1.0
y_mean[814]	1.4	6.6e-4	0.05	1.31	1.37	1.4	1.43	1.5	5099	1.0
y_mean[815]	0.17	5.7e-4	0.04	0.1	0.15	0.17	0.19	0.24	4192	1.0
y_mean[816]	-0.78	5.7e-4	0.04	-0.85	-0.81	-0.78	-0.76	-0.71	3993	1.0
y_mean[817]	-0.89	2.1e-3	0.13	-1.15	-0.98	-0.89	-0.8	-0.63	3914	1.0
y_mean[818]	0.09	5.3e-4	0.03	0.03	0.07	0.09	0.12	0.16	3951	1.0
y_mean[819]	-0.44	4.4e-4	0.02	-0.48	-0.45	-0.44	-0.42	-0.39	3130	1.0
y_mean[820]	-0.77	5.9e-4	0.04	-0.85	-0.8	-0.77	-0.75	-0.7	4074	1.0
y_mean[821]	-0.47	6.0e-4	0.03	-0.53	-0.49	-0.47	-0.45	-0.41	2757	1.0
y_mean[822]	-0.14	5.0e-4	0.03	-0.21	-0.16	-0.14	-0.12	-0.07	4390	1.0
y_mean[823]	-0.27	7.6e-4	0.04	-0.34	-0.29	-0.27	-0.24	-0.2	2154	1.0
y_mean[824]	-0.55	6.8e-4	0.04	-0.63	-0.58	-0.55	-0.53	-0.47	3345	1.0
y_mean[825]	0.06	4.9e-4	0.03	-3.3e-3	0.04	0.06	0.08	0.12	4231	1.0
y_mean[826]	-0.24	5.1e-4	0.03	-0.3	-0.26	-0.24	-0.22	-0.17	3609	1.0

y_mean[827]	-0.56	5.4e-4	0.03	-0.62	-0.58	-0.56	-0.54	-0.5	3189	1.0
y_mean[828]	0.35	4.6e-4	0.03	0.29	0.33	0.35	0.38	0.42	4609	1.0
y_mean[829]	-0.04	4.2e-4	0.03	-0.09	-0.06	-0.04	-0.02	0.02	4355	1.0
y_mean[830]	-0.33	1.0e-3	0.06	-0.46	-0.38	-0.33	-0.29	-0.21	3925	1.0
y_mean[831]	-0.58	6.1e-4	0.04	-0.65	-0.6	-0.58	-0.56	-0.51	3418	1.0
y_mean[832]	-0.33	8.9e-4	0.04	-0.41	-0.36	-0.33	-0.3	-0.25	2086	1.0
y_mean[833]	0.59	5.6e-4	0.04	0.52	0.57	0.59	0.62	0.67	4773	1.0
y_mean[834]	2.32	1.2e-3	0.09	2.14	2.26	2.32	2.39	2.5	5730	1.0
y_mean[835]	-0.53	3.9e-4	0.02	-0.57	-0.54	-0.53	-0.51	-0.48	3366	1.0
y_mean[836]	-0.44	4.3e-4	0.03	-0.49	-0.46	-0.44	-0.42	-0.39	3920	1.0
y_mean[837]	-0.21	5.2e-4	0.03	-0.26	-0.23	-0.21	-0.19	-0.15	3313	1.0
y_mean[838]	-0.42	2.8e-4	0.02	-0.46	-0.44	-0.42	-0.41	-0.39	4727	1.0
y_mean[839]	-0.39	5.0e-4	0.03	-0.45	-0.41	-0.39	-0.37	-0.33	3869	1.0
y_mean[840]	-0.41	6.5e-4	0.03	-0.48	-0.43	-0.41	-0.39	-0.35	2631	1.0
y_mean[841]	0.71	8.6e-4	0.05	0.62	0.68	0.71	0.75	0.81	3356	1.0
y_mean[842]	-0.03	4.6e-4	0.03	-0.08	-0.05	-0.03	-0.01	0.02	3582	1.0
y_mean[843]	-0.7	7.3e-4	0.05	-0.8	-0.74	-0.7	-0.67	-0.61	4224	1.0
y_mean[844]	0.16	7.6e-4	0.04	0.08	0.14	0.16	0.19	0.25	3366	1.0
y_mean[845]	0.11	4.2e-4	0.02	0.06	0.1	0.11	0.13	0.16	3421	1.0
y_mean[846]	-0.26	6.1e-4	0.04	-0.33	-0.29	-0.27	-0.24	-0.19	3574	1.0
y_mean[847]	0.18	6.7e-4	0.04	0.1	0.15	0.18	0.2	0.26	3543	1.0
y_mean[848]	0.23	6.3e-4	0.04	0.15	0.21	0.23	0.26	0.32	4247	1.0
y_mean[849]	-0.55	5.5e-4	0.03	-0.61	-0.57	-0.55	-0.53	-0.49	3082	1.0
y_mean[850]	-0.78	5.9e-4	0.04	-0.85	-0.8	-0.78	-0.75	-0.71	3932	1.0
y_mean[851]	0.59	4.7e-4	0.03	0.53	0.57	0.59	0.61	0.65	4692	1.0
y_mean[852]	-0.1	6.1e-4	0.04	-0.17	-0.13	-0.1	-0.08	-0.03	3413	1.0
y_mean[853]	1.4	7.3e-4	0.05	1.31	1.37	1.4	1.43	1.49	4026	1.0
y_mean[854]	-0.1	7.8e-4	0.04	-0.18	-0.12	-0.1	-0.07	-0.02	2664	1.0
y_mean[855]	-0.16	1.0e-3	0.05	-0.25	-0.19	-0.16	-0.13	-0.08	2055	1.0
y_mean[856]	0.46	4.6e-4	0.03	0.4	0.43	0.45	0.48	0.52	4529	1.0
y_mean[857]	-0.59	6.9e-4	0.04	-0.67	-0.62	-0.59	-0.56	-0.51	3228	1.0
y_mean[858]	-0.7	6.9e-4	0.04	-0.79	-0.73	-0.7	-0.67	-0.62	4112	1.0
y_mean[859]	0.22	3.9e-4	0.03	0.17	0.2	0.22	0.24	0.27	4458	1.0
y_mean[860]	-0.5	1.1e-3	0.06	-0.61	-0.54	-0.5	-0.46	-0.39	2344	1.0
y_mean[861]	-0.53	4.0e-4	0.02	-0.58	-0.55	-0.53	-0.52	-0.49	3195	1.0
y_mean[862]	-0.56	4.6e-4	0.03	-0.61	-0.57	-0.56	-0.54	-0.51	3118	1.0
y_mean[863]	1.79	1.2e-3	0.07	1.66	1.74	1.79	1.84	1.93	3434	1.0
y_mean[864]	0.45	4.5e-4	0.03	0.39	0.43	0.45	0.47	0.52	5007	1.0
y_mean[865]	0.28	8.1e-4	0.04	0.21	0.26	0.28	0.31	0.36	2232	1.0
y_mean[866]	1.43	9.5e-4	0.07	1.31	1.39	1.43	1.48	1.57	4788	1.0
y_mean[867]	-0.2	6.7e-4	0.04	-0.27	-0.22	-0.2	-0.17	-0.13	3142	1.0
y_mean[868]	0.01	5.5e-4	0.03	-0.06	-0.01	0.01	0.03	0.08	3655	1.0
y_mean[869]	-0.52	4.9e-4	0.03	-0.58	-0.54	-0.52	-0.5	-0.46	3989	1.0
y_mean[870]	-0.15	4.7e-4	0.03	-0.21	-0.17	-0.15	-0.13	-0.09	3926	1.0
y_mean[871]	-0.24	6.1e-4	0.04	-0.31	-0.26	-0.24	-0.21	-0.17	3450	1.0
y_mean[872]	-0.52	3.9e-4	0.02	-0.56	-0.53	-0.52	-0.5	-0.47	3712	1.0
y_mean[873]	0.44	5.6e-4	0.04	0.38	0.42	0.44	0.47	0.51	3985	1.0
y_mean[874]	-0.15	4.0e-4	0.02	-0.2	-0.17	-0.15	-0.14	-0.1	3759	1.0

y_mean[875]	1.88	1.4e-3	0.09	1.7	1.82	1.88	1.94	2.06	4376	1.0
y_mean[876]	-0.44	4.2e-4	0.03	-0.49	-0.46	-0.44	-0.42	-0.39	4134	1.0
y_mean[877]	0.04	7.3e-4	0.04	-0.04	0.01	0.04	0.07	0.12	3029	1.0
y_mean[878]	-0.58	5.8e-4	0.03	-0.65	-0.61	-0.59	-0.56	-0.52	3259	1.0
y_mean[879]	-0.25	6.1e-4	0.04	-0.32	-0.28	-0.25	-0.23	-0.18	3760	1.0
y_mean[880]	1.19	6.9e-4	0.06	1.09	1.16	1.19	1.23	1.31	6629	1.0
y_mean[881]	-0.36	4.2e-4	0.02	-0.41	-0.38	-0.36	-0.34	-0.31	3322	1.0
y_mean[882]	-0.02	9.9e-4	0.05	-0.11	-0.05	-0.02	0.01	0.07	2322	1.0
y_mean[883]	-0.18	5.4e-4	0.03	-0.24	-0.2	-0.18	-0.16	-0.13	2958	1.0
y_mean[884]	-0.28	8.5e-4	0.04	-0.36	-0.3	-0.28	-0.25	-0.2	2022	1.0
y_mean[885]	-0.27	5.6e-4	0.03	-0.34	-0.3	-0.27	-0.25	-0.21	3742	1.0
y_mean[886]	-0.26	5.8e-4	0.03	-0.32	-0.28	-0.26	-0.24	-0.2	2564	1.0
y_mean[887]	-0.14	6.3e-4	0.04	-0.21	-0.16	-0.14	-0.11	-0.05	3942	1.0
y_mean[888]	-0.64	8.3e-4	0.05	-0.73	-0.67	-0.64	-0.61	-0.55	3317	1.0
y_mean[889]	0.12	9.7e-4	0.05	0.02	0.09	0.12	0.16	0.22	2752	1.0
y_mean[890]	-0.42	2.7e-4	0.02	-0.46	-0.44	-0.42	-0.41	-0.39	4770	1.0
y_mean[891]	0.98	7.4e-4	0.04	0.9	0.95	0.98	1.01	1.06	3390	1.0
y_mean[892]	-0.58	7.3e-4	0.04	-0.67	-0.61	-0.58	-0.55	-0.49	3740	1.0
y_mean[893]	0.34	5.7e-4	0.03	0.27	0.31	0.33	0.36	0.4	3337	1.0
y_mean[894]	-0.21	7.0e-4	0.03	-0.28	-0.23	-0.21	-0.18	-0.14	2471	1.0
y_mean[895]	-0.38	5.0e-4	0.03	-0.44	-0.4	-0.38	-0.36	-0.31	4325	1.0
y_mean[896]	-0.88	1.2e-3	0.07	-1.02	-0.93	-0.88	-0.83	-0.73	3888	1.0
y_mean[897]	-0.78	5.8e-4	0.04	-0.85	-0.8	-0.77	-0.75	-0.7	3916	1.0
y_mean[898]	-0.57	4.8e-4	0.03	-0.62	-0.59	-0.57	-0.55	-0.52	3228	1.0
y_mean[899]	-0.79	6.3e-4	0.04	-0.87	-0.82	-0.79	-0.76	-0.71	3994	1.0
y_mean[900]	-0.12	4.0e-4	0.03	-0.17	-0.13	-0.12	-0.1	-0.06	4272	1.0
y_mean[901]	-0.14	5.8e-4	0.03	-0.2	-0.16	-0.14	-0.12	-0.08	2937	1.0
y_mean[902]	-0.35	5.6e-4	0.03	-0.42	-0.38	-0.35	-0.33	-0.29	3677	1.0
y_mean[903]	-0.08	6.3e-4	0.04	-0.16	-0.11	-0.08	-0.06	-4.9e-3	3899	1.0
y_mean[904]	0.47	4.8e-4	0.03	0.41	0.45	0.47	0.49	0.54	4536	1.0
y_mean[905]	-0.78	6.7e-4	0.04	-0.86	-0.81	-0.78	-0.75	-0.7	3817	1.0
y_mean[906]	-0.51	4.5e-4	0.03	-0.57	-0.53	-0.51	-0.49	-0.46	3889	1.0
y_mean[907]	0.34	5.2e-4	0.03	0.28	0.32	0.34	0.36	0.4	3393	1.0
y_mean[908]	0.02	6.4e-4	0.04	-0.06	-9.1e-3	0.02	0.04	0.09	3473	1.0
y_mean[909]	-0.54	5.0e-4	0.03	-0.6	-0.56	-0.54	-0.52	-0.48	3657	1.0
y_mean[910]	-0.2	7.6e-4	0.04	-0.29	-0.23	-0.2	-0.17	-0.11	3502	1.0
y_mean[911]	-0.57	7.3e-4	0.04	-0.66	-0.6	-0.57	-0.54	-0.49	3517	1.0
y_mean[912]	-0.15	7.7e-4	0.05	-0.24	-0.18	-0.15	-0.12	-0.06	3607	1.0
y_mean[913]	-0.53	3.9e-4	0.02	-0.58	-0.55	-0.53	-0.52	-0.49	3333	1.0
y_mean[914]	0.62	5.9e-4	0.04	0.54	0.59	0.62	0.64	0.7	4600	1.0
y_mean[915]	-0.19	4.2e-4	0.03	-0.24	-0.2	-0.19	-0.17	-0.13	3735	1.0
y_mean[916]	0.49	8.9e-4	0.06	0.37	0.45	0.49	0.53	0.61	4462	1.0
y_mean[917]	-0.12	5.9e-4	0.04	-0.19	-0.14	-0.12	-0.09	-0.05	3654	1.0
y_mean[918]	-0.15	4.0e-4	0.02	-0.2	-0.17	-0.15	-0.13	-0.1	3919	1.0
y_mean[919]	-0.46	5.0e-4	0.03	-0.51	-0.48	-0.46	-0.44	-0.4	2961	1.0
y_mean[920]	1.47	7.1e-4	0.05	1.37	1.43	1.47	1.51	1.58	5753	1.0
y_mean[921]	0.45	6.2e-4	0.04	0.38	0.43	0.45	0.48	0.53	3427	1.0
y_mean[922]	-0.27	6.6e-4	0.04	-0.35	-0.3	-0.27	-0.24	-0.19	3688	1.0

y_mean[923]	-0.14	4.1e-4	0.02	-0.19	-0.16	-0.14	-0.12	-0.09	3601	1.0
y_mean[924]	-0.52	4.5e-4	0.03	-0.58	-0.54	-0.52	-0.5	-0.47	3794	1.0
y_mean[925]	-0.66	5.9e-4	0.04	-0.73	-0.68	-0.66	-0.63	-0.59	3875	1.0
y_mean[926]	0.18	5.7e-4	0.03	0.12	0.16	0.18	0.2	0.24	2758	1.0
y_mean[927]	1.82	1.3e-3	0.1	1.63	1.75	1.82	1.88	2.01	5372	1.0
y_mean[928]	-0.77	6.7e-4	0.04	-0.84	-0.79	-0.77	-0.74	-0.69	3433	1.0
y_mean[929]	-0.8	6.6e-4	0.04	-0.89	-0.83	-0.8	-0.78	-0.72	3920	1.0
y_mean[930]	-0.17	4.1e-4	0.03	-0.22	-0.19	-0.17	-0.15	-0.11	4109	1.0
y_mean[931]	-0.55	5.1e-4	0.03	-0.61	-0.57	-0.55	-0.53	-0.49	3518	1.0
y_mean[932]	-0.1	4.1e-4	0.03	-0.15	-0.11	-0.1	-0.08	-0.05	3723	1.0
y_mean[933]	-0.51	4.9e-4	0.03	-0.56	-0.52	-0.51	-0.49	-0.45	2818	1.0
y_mean[934]	-0.31	4.3e-4	0.03	-0.37	-0.33	-0.31	-0.29	-0.26	3979	1.0
y_mean[935]	0.13	1.0e-3	0.05	0.04	0.09	0.13	0.16	0.22	2000	1.0
y_mean[936]	0.08	5.0e-4	0.03	0.01	0.06	0.08	0.1	0.14	4172	1.0
y_mean[937]	-0.48	5.2e-4	0.03	-0.53	-0.5	-0.48	-0.46	-0.43	2799	1.0
y_mean[938]	-0.71	8.7e-4	0.05	-0.8	-0.74	-0.71	-0.68	-0.61	3045	1.0
y_mean[939]	0.07	5.0e-4	0.03	5.8e-3	0.05	0.07	0.09	0.13	4040	1.0
y_mean[940]	-0.33	4.0e-4	0.02	-0.38	-0.35	-0.33	-0.32	-0.29	3229	1.0
y_mean[941]	0.72	1.0e-3	0.07	0.58	0.67	0.72	0.77	0.87	5175	1.0
y_mean[942]	-0.75	6.3e-4	0.04	-0.82	-0.77	-0.75	-0.72	-0.68	3540	1.0
y_mean[943]	-0.52	4.8e-4	0.03	-0.58	-0.54	-0.52	-0.5	-0.46	3917	1.0
y_mean[944]	-0.92	1.3e-3	0.08	-1.08	-0.97	-0.92	-0.87	-0.77	3994	1.0
y_mean[945]	0.95	6.3e-4	0.05	0.86	0.92	0.95	0.98	1.05	5931	1.0
y_mean[946]	-0.01	4.8e-4	0.03	-0.07	-0.03	-0.01	4.8e-3	0.04	3547	1.0
y_mean[947]	-0.56	4.6e-4	0.03	-0.62	-0.58	-0.56	-0.55	-0.51	3281	1.0
y_mean[948]	-0.79	7.2e-4	0.05	-0.88	-0.82	-0.79	-0.76	-0.71	3933	1.0
y_mean[949]	1.04	8.3e-4	0.06	0.93	1.01	1.04	1.08	1.15	4379	1.0
y_mean[950]	-0.24	4.3e-4	0.03	-0.29	-0.26	-0.24	-0.22	-0.19	3598	1.0
y_mean[951]	-0.53	5.1e-4	0.03	-0.58	-0.55	-0.53	-0.51	-0.47	2881	1.0
y_mean[952]	0.21	7.3e-4	0.04	0.12	0.18	0.21	0.24	0.3	3727	1.0
y_mean[953]	-0.44	5.8e-4	0.03	-0.5	-0.46	-0.44	-0.42	-0.38	2895	1.0
y_mean[954]	-0.21	4.5e-4	0.03	-0.26	-0.22	-0.21	-0.19	-0.15	3992	1.0
y_mean[955]	-0.75	5.9e-4	0.04	-0.83	-0.78	-0.75	-0.73	-0.68	3798	1.0
y_mean[956]	0.66	4.7e-4	0.03	0.6	0.64	0.66	0.68	0.73	4575	1.0
y_mean[957]	-0.48	7.2e-4	0.04	-0.56	-0.51	-0.48	-0.46	-0.41	2969	1.0
y_mean[958]	-0.42	2.8e-4	0.02	-0.45	-0.43	-0.42	-0.4	-0.38	4525	1.0
y_mean[959]	-0.54	4.1e-4	0.02	-0.58	-0.55	-0.54	-0.52	-0.49	3080	1.0
y_mean[960]	0.38	5.1e-4	0.04	0.31	0.36	0.38	0.41	0.46	5600	1.0
y_mean[961]	-0.44	7.5e-4	0.04	-0.52	-0.47	-0.44	-0.42	-0.37	2808	1.0
y_mean[962]	0.62	8.2e-4	0.05	0.52	0.58	0.62	0.65	0.71	3297	1.0
y_mean[963]	-0.75	7.0e-4	0.04	-0.82	-0.77	-0.75	-0.72	-0.67	3280	1.0
y_mean[964]	0.19	9.5e-4	0.05	0.09	0.15	0.19	0.22	0.28	2801	1.0
y_mean[965]	-0.15	4.8e-4	0.03	-0.2	-0.17	-0.15	-0.13	-0.1	3115	1.0
y_mean[966]	0.38	5.0e-4	0.03	0.32	0.36	0.38	0.4	0.44	4322	1.0
y_mean[967]	-0.59	7.2e-4	0.04	-0.68	-0.62	-0.59	-0.57	-0.51	3459	1.0
y_mean[968]	-0.5	3.8e-4	0.02	-0.55	-0.52	-0.5	-0.48	-0.45	4063	1.0
y_mean[969]	0.57	1.5e-3	0.12	0.33	0.49	0.57	0.65	0.8	5817	1.0
y_mean[970]	0.14	6.9e-4	0.04	0.06	0.11	0.14	0.17	0.22	3669	1.0

y_mean[971]	0.61	8.6e-4	0.06	0.5	0.57	0.61	0.65	0.73	4604	1.0
y_mean[972]	-0.43	9.1e-4	0.05	-0.53	-0.46	-0.43	-0.39	-0.33	3271	1.0
y_mean[973]	1.35	7.6e-4	0.05	1.25	1.32	1.35	1.38	1.45	4330	1.0
y_mean[974]	2.21	1.3e-3	0.09	2.04	2.16	2.21	2.27	2.39	4548	1.0
y_mean[975]	1.56	7.8e-4	0.05	1.46	1.52	1.55	1.59	1.66	4364	1.0
y_mean[976]	-0.21	6.4e-4	0.03	-0.27	-0.23	-0.21	-0.19	-0.15	2416	1.0
y_mean[977]	-0.54	4.0e-4	0.02	-0.58	-0.55	-0.54	-0.52	-0.49	3271	1.0
y_mean[978]	-0.12	4.4e-4	0.03	-0.17	-0.13	-0.12	-0.1	-0.07	3333	1.0
y_mean[979]	-0.14	4.7e-4	0.03	-0.19	-0.16	-0.14	-0.12	-0.09	3146	1.0
y_mean[980]	1.27	8.3e-4	0.06	1.16	1.23	1.27	1.31	1.39	5194	1.0
y_mean[981]	-0.25	6.4e-4	0.04	-0.33	-0.28	-0.25	-0.22	-0.17	4087	1.0
y_mean[982]	-0.4	5.1e-4	0.03	-0.46	-0.42	-0.4	-0.39	-0.35	2857	1.0
y_mean[983]	0.45	4.6e-4	0.03	0.39	0.43	0.45	0.47	0.51	4576	1.0
y_mean[984]	-0.29	7.4e-4	0.03	-0.36	-0.31	-0.29	-0.26	-0.22	2155	1.0
y_mean[985]	-0.58	8.8e-4	0.04	-0.67	-0.61	-0.58	-0.55	-0.49	2591	1.0
y_mean[986]	-0.9	1.2e-3	0.07	-1.05	-0.95	-0.9	-0.85	-0.76	3987	1.0
y_mean[987]	0.01	4.5e-4	0.03	-0.05	-6.6e-3	0.01	0.03	0.08	4682	1.0
y_mean[988]	0.73	6.3e-4	0.04	0.65	0.7	0.73	0.76	0.82	4737	1.0
y_mean[989]	-0.78	6.2e-4	0.04	-0.86	-0.8	-0.78	-0.75	-0.7	4075	1.0
y_mean[990]	0.04	9.3e-4	0.06	-0.08	2.0e-3	0.04	0.09	0.16	4485	1.0
y_mean[991]	0.23	6.4e-4	0.04	0.14	0.2	0.23	0.25	0.31	4248	1.0
y_mean[992]	0.35	1.1e-3	0.06	0.23	0.31	0.35	0.4	0.47	3192	1.0
y_mean[993]	-0.57	9.0e-4	0.06	-0.68	-0.61	-0.57	-0.53	-0.46	3796	1.0
y_mean[994]	-0.53	4.4e-4	0.02	-0.58	-0.55	-0.53	-0.52	-0.48	2959	1.0
y_mean[995]	-0.06	7.4e-4	0.04	-0.13	-0.08	-0.06	-0.03	0.02	2584	1.0
y_mean[996]	-0.1	4.2e-4	0.03	-0.14	-0.11	-0.1	-0.08	-0.05	3623	1.0
y_mean[997]	0.13	6.9e-4	0.05	0.04	0.1	0.13	0.16	0.22	4455	1.0
y_mean[998]	-0.46	3.6e-4	0.02	-0.51	-0.48	-0.46	-0.45	-0.42	3781	1.0
y_mean[999]	0.12	6.4e-4	0.03	0.07	0.1	0.12	0.15	0.19	2378	1.0
y_mean[1000]	1.15	7.5e-4	0.05	1.04	1.11	1.15	1.18	1.26	5284	1.0
y_mean[1001]	0.64	4.9e-4	0.03	0.58	0.62	0.65	0.67	0.71	4702	1.0
y_mean[1002]	0.48	5.0e-4	0.03	0.42	0.46	0.48	0.5	0.55	4546	1.0
y_mean[1003]	1.02	7.4e-4	0.06	0.91	0.98	1.02	1.06	1.13	5612	1.0
y_mean[1004]	0.17	7.4e-4	0.04	0.1	0.14	0.17	0.19	0.24	2336	1.0
y_mean[1005]	-0.3	8.0e-4	0.04	-0.38	-0.33	-0.3	-0.28	-0.23	2128	1.0
y_mean[1006]	1.03	8.2e-4	0.06	0.92	0.99	1.03	1.07	1.14	4725	1.0
y_mean[1007]	1.95	1.4e-3	0.08	1.8	1.9	1.95	2.0	2.11	3312	1.0
y_mean[1008]	-0.41	3.6e-4	0.02	-0.46	-0.43	-0.41	-0.4	-0.37	3650	1.0
y_mean[1009]	4.68	3.1e-3	0.17	4.34	4.56	4.68	4.79	5.01	2980	1.0
y_mean[1010]	-0.23	7.6e-4	0.04	-0.3	-0.26	-0.23	-0.21	-0.16	2205	1.0
y_mean[1011]	-0.27	6.4e-4	0.04	-0.34	-0.3	-0.27	-0.24	-0.19	3498	1.0
y_mean[1012]	-0.47	4.8e-4	0.03	-0.52	-0.49	-0.48	-0.46	-0.42	2957	1.0
y_mean[1013]	-0.19	4.4e-4	0.03	-0.24	-0.21	-0.19	-0.17	-0.14	3526	1.0
y_mean[1014]	-0.56	1.1e-3	0.07	-0.69	-0.6	-0.56	-0.51	-0.42	3693	1.0
y_mean[1015]	-0.35	6.6e-4	0.03	-0.41	-0.37	-0.35	-0.32	-0.28	2646	1.0
y_mean[1016]	-0.26	5.7e-4	0.03	-0.32	-0.28	-0.26	-0.23	-0.19	3569	1.0
y_mean[1017]	1.57	1.3e-3	0.08	1.39	1.51	1.57	1.62	1.73	4087	1.0
y_mean[1018]	0.1	5.4e-4	0.03	0.04	0.08	0.1	0.13	0.17	3967	1.0

y_mean[1019]	-0.38	8.0e-4	0.05	-0.47	-0.41	-0.38	-0.35	-0.29	3249	1.0
y_mean[1020]	-0.04	1.0e-3	0.05	-0.14	-0.07	-0.04	-7.9e-3	0.06	2430	1.0
y_mean[1021]	-0.42	5.1e-4	0.03	-0.47	-0.44	-0.42	-0.4	-0.36	3352	1.0
y_mean[1022]	-0.56	4.5e-4	0.03	-0.61	-0.58	-0.56	-0.54	-0.51	3277	1.0
y_mean[1023]	-0.57	5.1e-4	0.03	-0.63	-0.59	-0.57	-0.55	-0.51	3310	1.0
y_mean[1024]	-0.76	5.9e-4	0.04	-0.83	-0.78	-0.76	-0.73	-0.68	4019	1.0
y_mean[1025]	-0.64	7.3e-4	0.04	-0.73	-0.67	-0.64	-0.62	-0.56	3385	1.0
y_mean[1026]	-0.31	5.5e-4	0.03	-0.37	-0.33	-0.31	-0.29	-0.26	2473	1.0
y_mean[1027]	-0.58	5.6e-4	0.03	-0.65	-0.6	-0.58	-0.56	-0.52	3242	1.0
y_mean[1028]	-0.1	9.8e-4	0.04	-0.18	-0.13	-0.1	-0.07	-8.4e-3	2067	1.0
y_mean[1029]	-0.58	5.9e-4	0.03	-0.64	-0.6	-0.58	-0.55	-0.51	3390	1.0
y_mean[1030]	-0.32	6.6e-4	0.04	-0.4	-0.35	-0.32	-0.3	-0.24	3819	1.0
y_mean[1031]	-0.54	4.0e-4	0.02	-0.58	-0.55	-0.54	-0.52	-0.49	3305	1.0
y_mean[1032]	-0.05	4.2e-4	0.03	-0.11	-0.07	-0.06	-0.04	-1.7e-3	4056	1.0
y_mean[1033]	-0.31	7.2e-4	0.03	-0.37	-0.33	-0.31	-0.28	-0.24	2185	1.0
y_mean[1034]	1.39	6.9e-4	0.05	1.29	1.35	1.39	1.42	1.49	5551	1.0
y_mean[1035]	-0.23	4.9e-4	0.03	-0.29	-0.25	-0.23	-0.21	-0.17	3608	1.0
y_mean[1036]	-0.56	4.4e-4	0.03	-0.61	-0.57	-0.56	-0.54	-0.51	3283	1.0
y_mean[1037]	-0.5	5.1e-4	0.03	-0.56	-0.52	-0.51	-0.49	-0.45	2799	1.0
y_mean[1038]	1.13	5.4e-4	0.04	1.05	1.1	1.13	1.15	1.2	5126	1.0
y_mean[1039]	-0.74	6.2e-4	0.04	-0.82	-0.77	-0.74	-0.71	-0.66	4075	1.0
y_mean[1040]	0.02	5.3e-4	0.03	-0.05	-6.1e-3	0.02	0.04	0.08	3656	1.0
y_mean[1041]	-0.43	3.7e-4	0.02	-0.47	-0.44	-0.43	-0.41	-0.39	3455	1.0
y_mean[1042]	-0.6	6.8e-4	0.04	-0.67	-0.62	-0.6	-0.57	-0.52	3227	1.0
y_mean[1043]	-0.6	7.6e-4	0.04	-0.69	-0.63	-0.6	-0.57	-0.52	3178	1.0
y_mean[1044]	-0.14	4.2e-4	0.03	-0.19	-0.16	-0.14	-0.13	-0.09	4107	1.0
y_mean[1045]	-0.5	3.9e-4	0.02	-0.55	-0.52	-0.5	-0.49	-0.46	3344	1.0
y_mean[1046]	0.64	6.5e-4	0.04	0.56	0.61	0.64	0.67	0.72	4248	1.0
y_mean[1047]	-0.59	9.9e-4	0.05	-0.69	-0.62	-0.59	-0.56	-0.49	2425	1.0
y_mean[1048]	-4.7e-3	4.4e-4	0.03	-0.06	-0.02	-5.1e-3	0.01	0.05	4138	1.0
y_mean[1049]	-0.23	5.0e-4	0.03	-0.29	-0.25	-0.23	-0.21	-0.17	3616	1.0
y_mean[1050]	-0.45	7.4e-4	0.05	-0.55	-0.49	-0.45	-0.42	-0.36	3949	1.0
y_mean[1051]	0.46	5.1e-4	0.04	0.39	0.43	0.46	0.48	0.53	4830	1.0
y_mean[1052]	-0.64	6.2e-4	0.04	-0.72	-0.67	-0.64	-0.62	-0.57	3698	1.0
y_mean[1053]	2.84	2.7e-3	0.14	2.56	2.74	2.84	2.94	3.12	2941	1.0
y_mean[1054]	-0.39	6.3e-4	0.04	-0.45	-0.41	-0.39	-0.36	-0.32	3224	1.0
y_mean[1055]	-0.01	4.6e-4	0.03	-0.07	-0.03	-0.02	3.3e-3	0.04	3727	1.0
y_mean[1056]	1.68	8.4e-4	0.06	1.57	1.64	1.68	1.71	1.79	4319	1.0
y_mean[1057]	1.11	6.7e-4	0.05	1.02	1.08	1.11	1.15	1.21	5187	1.0
y_mean[1058]	0.07	5.1e-4	0.03	4.1e-3	0.05	0.07	0.09	0.13	3878	1.0
y_mean[1059]	-0.47	3.4e-4	0.02	-0.51	-0.48	-0.47	-0.46	-0.43	4044	1.0
y_mean[1060]	-0.16	7.1e-4	0.04	-0.23	-0.18	-0.16	-0.14	-0.09	2483	1.0
y_mean[1061]	-0.49	3.3e-4	0.02	-0.54	-0.51	-0.49	-0.48	-0.45	4499	1.0
y_mean[1062]	0.12	6.7e-4	0.04	0.05	0.09	0.12	0.15	0.19	3192	1.0
y_mean[1063]	-0.4	4.7e-4	0.03	-0.46	-0.42	-0.4	-0.38	-0.34	4463	1.0
y_mean[1064]	-0.41	4.6e-4	0.03	-0.47	-0.43	-0.41	-0.39	-0.35	3955	1.0
y_mean[1065]	0.4	5.9e-4	0.04	0.33	0.37	0.4	0.42	0.47	3517	1.0
y_mean[1066]	-0.76	5.9e-4	0.04	-0.83	-0.78	-0.76	-0.73	-0.69	3814	1.0

y_mean[1067]	-0.12	8.5e-4	0.05	-0.22	-0.15	-0.12	-0.08	-0.01	3629	1.0
y_mean[1068]	0.63	6.4e-4	0.04	0.55	0.6	0.63	0.65	0.71	4080	1.0
y_mean[1069]	-0.4	4.7e-4	0.03	-0.46	-0.42	-0.4	-0.38	-0.34	4198	1.0
y_mean[1070]	-0.07	8.2e-4	0.04	-0.16	-0.1	-0.07	-0.05	0.01	2868	1.0
y_mean[1071]	0.27	7.1e-4	0.03	0.2	0.24	0.27	0.29	0.33	2367	1.0
y_mean[1072]	-0.21	6.9e-4	0.04	-0.28	-0.23	-0.21	-0.18	-0.13	3181	1.0
y_mean[1073]	-0.78	5.9e-4	0.04	-0.86	-0.81	-0.78	-0.76	-0.71	4051	1.0
y_mean[1074]	-0.56	6.2e-4	0.04	-0.63	-0.58	-0.56	-0.54	-0.49	3433	1.0
y_mean[1075]	-0.45	4.1e-4	0.03	-0.5	-0.47	-0.45	-0.43	-0.4	3922	1.0
y_mean[1076]	-0.56	5.6e-4	0.03	-0.62	-0.58	-0.56	-0.54	-0.5	3242	1.0
y_mean[1077]	-0.36	6.5e-4	0.03	-0.42	-0.38	-0.36	-0.34	-0.3	2318	1.0
y_mean[1078]	-0.28	8.1e-4	0.05	-0.37	-0.31	-0.28	-0.24	-0.18	3686	1.0
y_mean[1079]	0.24	7.0e-4	0.04	0.17	0.21	0.23	0.26	0.31	2814	1.0
y_mean[1080]	-0.27	7.5e-4	0.05	-0.36	-0.3	-0.27	-0.24	-0.18	3685	1.0
y_mean[1081]	2.9e-3	5.4e-4	0.04	-0.07	-0.02	2.8e-3	0.03	0.07	4418	1.0
y_mean[1082]	0.85	8.8e-4	0.07	0.72	0.8	0.85	0.89	0.99	5957	1.0
y_mean[1083]	-0.59	6.2e-4	0.04	-0.66	-0.61	-0.59	-0.57	-0.52	3228	1.0
y_mean[1084]	-0.18	4.4e-4	0.03	-0.23	-0.2	-0.18	-0.17	-0.13	3436	1.0
y_mean[1085]	0.63	6.3e-4	0.04	0.54	0.6	0.63	0.65	0.7	4211	1.0
y_mean[1086]	-0.1	5.3e-4	0.03	-0.16	-0.12	-0.1	-0.08	-0.04	3015	1.0
y_mean[1087]	-0.48	3.5e-4	0.02	-0.52	-0.49	-0.48	-0.46	-0.43	4052	1.0
y_mean[1088]	0.55	4.6e-4	0.03	0.49	0.53	0.55	0.57	0.61	4636	1.0
y_mean[1089]	-0.37	1.5e-3	0.07	-0.5	-0.41	-0.37	-0.32	-0.24	2083	1.0
y_mean[1090]	-0.53	3.9e-4	0.02	-0.57	-0.54	-0.53	-0.51	-0.48	3392	1.0
y_mean[1091]	-0.72	6.6e-4	0.04	-0.8	-0.74	-0.71	-0.69	-0.63	4056	1.0
y_mean[1092]	-0.25	4.3e-4	0.03	-0.3	-0.26	-0.25	-0.23	-0.19	3996	1.0
y_mean[1093]	-0.24	6.6e-4	0.04	-0.32	-0.26	-0.24	-0.21	-0.15	4160	1.0
y_mean[1094]	-0.3	6.4e-4	0.04	-0.38	-0.33	-0.31	-0.28	-0.23	3968	1.0
y_mean[1095]	0.58	4.6e-4	0.03	0.52	0.56	0.58	0.6	0.64	4645	1.0
y_mean[1096]	-0.32	6.1e-4	0.03	-0.38	-0.34	-0.32	-0.3	-0.26	2581	1.0
y_mean[1097]	-0.1	4.2e-4	0.03	-0.15	-0.12	-0.1	-0.08	-0.05	3620	1.0
y_mean[1098]	-0.8	7.0e-4	0.04	-0.89	-0.83	-0.8	-0.77	-0.71	3987	1.0
y_mean[1099]	0.97	1.0e-3	0.05	0.87	0.93	0.97	1.0	1.07	2622	1.0
y_mean[1100]	-0.63	7.6e-4	0.04	-0.71	-0.65	-0.63	-0.6	-0.55	2969	1.0
y_mean[1101]	0.44	4.6e-4	0.03	0.38	0.41	0.44	0.46	0.5	4556	1.0
y_mean[1102]	-0.35	4.5e-4	0.02	-0.39	-0.36	-0.35	-0.33	-0.3	2990	1.0
y_mean[1103]	-0.4	4.8e-4	0.03	-0.46	-0.42	-0.4	-0.38	-0.34	3915	1.0
y_mean[1104]	-0.51	6.1e-4	0.03	-0.57	-0.53	-0.51	-0.49	-0.44	2802	1.0
y_mean[1105]	-0.52	4.1e-4	0.02	-0.57	-0.54	-0.52	-0.51	-0.48	3032	1.0
y_mean[1106]	-0.01	4.3e-4	0.03	-0.07	-0.03	-0.01	3.2e-3	0.04	3782	1.0
y_mean[1107]	-0.57	6.3e-4	0.04	-0.65	-0.59	-0.57	-0.55	-0.5	3508	1.0
y_mean[1108]	-0.46	4.3e-4	0.03	-0.52	-0.48	-0.46	-0.44	-0.4	4605	1.0
y_mean[1109]	-0.56	5.3e-4	0.03	-0.62	-0.58	-0.56	-0.54	-0.5	3468	1.0
y_mean[1110]	2.59	1.6e-3	0.11	2.37	2.51	2.59	2.66	2.8	4483	1.0
y_mean[1111]	-0.2	4.8e-4	0.03	-0.25	-0.22	-0.2	-0.18	-0.15	3360	1.0
y_mean[1112]	-0.29	8.1e-4	0.04	-0.37	-0.32	-0.29	-0.27	-0.22	2045	1.0
y_mean[1113]	-0.15	4.4e-4	0.03	-0.2	-0.17	-0.15	-0.14	-0.1	3359	1.0
y_mean[1114]	-0.08	4.3e-4	0.03	-0.13	-0.09	-0.08	-0.06	-0.03	3567	1.0

y_mean[1115]	-0.06	9.2e-4	0.07	-0.19	-0.1	-0.06	-0.01	0.08	5815	1.0
y_mean[1116]	0.54	1.2e-3	0.08	0.39	0.49	0.54	0.59	0.69	4304	1.0
y_mean[1117]	-0.4	4.9e-4	0.03	-0.45	-0.41	-0.4	-0.38	-0.35	2749	1.0
y_mean[1118]	-0.55	4.2e-4	0.02	-0.59	-0.56	-0.55	-0.53	-0.5	3415	1.0
y_mean[1119]	0.59	5.4e-4	0.04	0.51	0.57	0.59	0.62	0.67	5339	1.0
y_mean[1120]	-0.21	1.1e-3	0.05	-0.31	-0.24	-0.21	-0.18	-0.12	2070	1.0
y_mean[1121]	1.38	6.6e-4	0.05	1.29	1.35	1.38	1.41	1.48	5325	1.0
y_mean[1122]	-0.31	7.1e-4	0.03	-0.38	-0.34	-0.31	-0.29	-0.25	2155	1.0
y_mean[1123]	-0.61	8.3e-4	0.05	-0.7	-0.64	-0.61	-0.58	-0.52	3253	1.0
y_mean[1124]	-0.36	6.3e-4	0.03	-0.43	-0.38	-0.36	-0.34	-0.29	3000	1.0
y_mean[1125]	-0.34	6.8e-4	0.04	-0.42	-0.37	-0.34	-0.32	-0.26	3396	1.0
y_mean[1126]	-0.08	4.6e-4	0.03	-0.13	-0.1	-0.08	-0.06	-0.02	3538	1.0
y_mean[1127]	-0.82	9.1e-4	0.05	-0.93	-0.85	-0.81	-0.78	-0.71	3623	1.0
y_mean[1128]	-0.3	8.2e-4	0.05	-0.39	-0.33	-0.3	-0.26	-0.2	3356	1.0
y_mean[1129]	-0.28	4.8e-4	0.03	-0.34	-0.3	-0.28	-0.25	-0.21	4758	1.0
y_mean[1130]	-0.53	3.9e-4	0.02	-0.58	-0.55	-0.53	-0.52	-0.49	3456	1.0
y_mean[1131]	-0.29	7.3e-4	0.04	-0.37	-0.32	-0.29	-0.26	-0.2	3479	1.0
y_mean[1132]	-0.31	5.1e-4	0.03	-0.37	-0.33	-0.31	-0.3	-0.26	2941	1.0
y_mean[1133]	0.55	4.0e-4	0.03	0.49	0.53	0.55	0.57	0.6	5252	1.0
y_mean[1134]	-0.48	6.0e-4	0.04	-0.55	-0.5	-0.48	-0.46	-0.41	3742	1.0
y_mean[1135]	-0.47	3.9e-4	0.02	-0.52	-0.49	-0.47	-0.46	-0.43	3849	1.0
y_mean[1136]	-0.53	6.4e-4	0.03	-0.59	-0.55	-0.53	-0.5	-0.46	2908	1.0
y_mean[1137]	-0.22	7.3e-4	0.04	-0.29	-0.24	-0.22	-0.19	-0.15	2466	1.0
y_mean[1138]	-0.52	5.4e-4	0.03	-0.57	-0.53	-0.52	-0.5	-0.46	2812	1.0
y_mean[1139]	-0.59	6.0e-4	0.03	-0.66	-0.61	-0.59	-0.57	-0.52	3229	1.0
y_mean[1140]	-0.46	4.5e-4	0.03	-0.52	-0.48	-0.46	-0.44	-0.4	4648	1.0
y_mean[1141]	-0.55	5.2e-4	0.03	-0.6	-0.57	-0.55	-0.53	-0.49	3034	1.0
y_mean[1142]	0.67	5.0e-4	0.03	0.6	0.65	0.67	0.69	0.73	4527	1.0
y_mean[1143]	1.49	1.2e-3	0.07	1.35	1.44	1.49	1.54	1.63	3459	1.0
y_mean[1144]	-0.05	4.3e-4	0.03	-0.1	-0.07	-0.05	-0.04	-1.9e-3	3691	1.0
y_mean[1145]	-0.49	3.8e-4	0.02	-0.54	-0.51	-0.49	-0.48	-0.45	3771	1.0
y_mean[1146]	-0.56	6.8e-4	0.04	-0.65	-0.59	-0.56	-0.54	-0.48	3563	1.0
y_mean[1147]	-0.22	6.1e-4	0.04	-0.3	-0.25	-0.22	-0.2	-0.15	3881	1.0
y_mean[1148]	-0.08	5.5e-4	0.04	-0.15	-0.11	-0.08	-0.06	-0.01	4214	1.0
y_mean[1149]	-0.2	7.9e-4	0.04	-0.27	-0.22	-0.2	-0.17	-0.13	2107	1.0
y_mean[1150]	-0.34	1.2e-3	0.06	-0.46	-0.38	-0.34	-0.3	-0.23	2472	1.0
y_mean[1151]	-0.77	5.7e-4	0.04	-0.84	-0.8	-0.77	-0.75	-0.7	4000	1.0
y_mean[1152]	-0.71	5.6e-4	0.04	-0.79	-0.74	-0.71	-0.69	-0.64	4183	1.0
y_mean[1153]	0.31	5.0e-4	0.03	0.24	0.28	0.31	0.33	0.38	4833	1.0
y_mean[1154]	-0.31	9.2e-4	0.04	-0.39	-0.33	-0.31	-0.28	-0.23	2015	1.0
y_mean[1155]	-0.19	9.6e-4	0.04	-0.28	-0.22	-0.19	-0.16	-0.11	1997	1.0
y_mean[1156]	-0.19	4.3e-4	0.03	-0.24	-0.21	-0.19	-0.17	-0.14	3640	1.0
y_mean[1157]	-0.41	5.1e-4	0.03	-0.46	-0.43	-0.41	-0.39	-0.35	2975	1.0
y_mean[1158]	-0.05	4.9e-4	0.03	-0.11	-0.07	-0.05	-0.03	0.02	4335	1.0
y_mean[1159]	-0.49	4.2e-4	0.02	-0.53	-0.5	-0.49	-0.47	-0.44	3177	1.0
y_mean[1160]	2.69	1.6e-3	0.1	2.49	2.62	2.69	2.76	2.89	4167	1.0
y_mean[1161]	2.43	1.4e-3	0.08	2.27	2.38	2.43	2.49	2.6	3828	1.0
y_mean[1162]	-0.75	6.1e-4	0.04	-0.82	-0.77	-0.75	-0.72	-0.67	4081	1.0

y_mean[1163]	-0.35	4.4e-4	0.02	-0.39	-0.36	-0.35	-0.33	-0.3	2868	1.0
y_mean[1164]	-0.52	5.2e-4	0.03	-0.57	-0.54	-0.52	-0.5	-0.46	2824	1.0
y_mean[1165]	0.46	6.7e-4	0.05	0.37	0.43	0.46	0.5	0.56	4939	1.0
y_mean[1166]	-0.76	7.0e-4	0.04	-0.84	-0.79	-0.76	-0.73	-0.68	3308	1.0
y_mean[1167]	-0.77	6.6e-4	0.04	-0.85	-0.8	-0.77	-0.75	-0.69	3601	1.0
y_mean[1168]	0.25	8.8e-4	0.04	0.17	0.22	0.25	0.28	0.34	2390	1.0
y_mean[1169]	-0.02	5.6e-4	0.04	-0.09	-0.04	-0.02	5.0e-3	0.06	4309	1.0
y_mean[1170]	-0.88	2.2e-3	0.14	-1.15	-0.97	-0.88	-0.79	-0.62	3864	1.0
y_mean[1171]	-0.48	3.9e-4	0.02	-0.53	-0.5	-0.48	-0.47	-0.44	3639	1.0
y_mean[1172]	0.27	4.4e-4	0.03	0.21	0.25	0.27	0.29	0.33	4788	1.0
y_mean[1173]	1.19	9.9e-4	0.07	1.05	1.14	1.19	1.23	1.32	5025	1.0
y_mean[1174]	-0.4	3.0e-4	0.02	-0.44	-0.42	-0.4	-0.39	-0.37	4180	1.0
y_mean[1175]	-0.18	4.6e-4	0.03	-0.24	-0.2	-0.18	-0.16	-0.13	4072	1.0
y_mean[1176]	-0.16	6.0e-4	0.03	-0.22	-0.18	-0.16	-0.14	-0.1	2727	1.0
y_mean[1177]	-0.41	4.6e-4	0.03	-0.47	-0.43	-0.42	-0.4	-0.36	3915	1.0
y_mean[1178]	0.09	7.8e-4	0.04	-3.0e-3	0.06	0.09	0.12	0.17	3310	1.0
y_mean[1179]	-0.02	5.1e-4	0.03	-0.08	-0.04	-0.02	3.2e-3	0.04	3440	1.0
y_mean[1180]	-0.49	3.5e-4	0.02	-0.53	-0.5	-0.49	-0.47	-0.44	4161	1.0
y_mean[1181]	0.77	5.7e-4	0.04	0.7	0.74	0.77	0.8	0.84	4411	1.0
y_mean[1182]	1.68	1.3e-3	0.09	1.51	1.62	1.68	1.73	1.85	4410	1.0
y_mean[1183]	0.15	5.1e-4	0.03	0.1	0.13	0.15	0.17	0.21	3045	1.0
y_mean[1184]	1.4	7.9e-4	0.05	1.29	1.36	1.4	1.44	1.5	4708	1.0
y_mean[1185]	-0.21	4.5e-4	0.03	-0.26	-0.23	-0.21	-0.19	-0.16	3687	1.0
y_mean[1186]	-0.5	7.4e-4	0.04	-0.58	-0.53	-0.5	-0.48	-0.42	2862	1.0
y_mean[1187]	0.04	6.8e-4	0.04	-0.04	0.01	0.04	0.07	0.12	3418	1.0
y_mean[1188]	-0.32	4.6e-4	0.02	-0.37	-0.34	-0.32	-0.31	-0.28	2793	1.0
y_mean[1189]	-0.22	7.3e-4	0.03	-0.29	-0.24	-0.22	-0.19	-0.15	2244	1.0
y_mean[1190]	-0.46	5.9e-4	0.04	-0.54	-0.48	-0.46	-0.43	-0.38	4404	1.0
y_mean[1191]	-0.45	4.2e-4	0.03	-0.5	-0.47	-0.45	-0.43	-0.4	3922	1.0
y_mean[1192]	-0.93	1.3e-3	0.08	-1.1	-0.99	-0.93	-0.88	-0.77	3958	1.0
y_mean[1193]	-0.78	6.0e-4	0.04	-0.85	-0.8	-0.78	-0.75	-0.71	3883	1.0
y_mean[1194]	-0.02	6.7e-4	0.04	-0.1	-0.05	-0.02	1.6e-3	0.05	3300	1.0
y_mean[1195]	-0.59	6.1e-4	0.03	-0.66	-0.61	-0.59	-0.57	-0.52	3235	1.0
y_mean[1196]	-0.08	4.0e-4	0.03	-0.13	-0.1	-0.08	-0.06	-0.03	4278	1.0
y_mean[1197]	-0.59	7.2e-4	0.04	-0.68	-0.62	-0.59	-0.57	-0.51	3477	1.0
y_mean[1198]	0.43	4.8e-4	0.03	0.37	0.41	0.43	0.45	0.49	4387	1.0
y_mean[1199]	-0.57	7.1e-4	0.04	-0.65	-0.59	-0.57	-0.54	-0.48	3667	1.0
y_mean[1200]	-0.4	5.5e-4	0.03	-0.45	-0.42	-0.4	-0.38	-0.34	2583	1.0
y_mean[1201]	0.18	6.6e-4	0.03	0.12	0.16	0.18	0.2	0.24	2364	1.0
y_mean[1202]	-0.63	1.7e-3	0.09	-0.81	-0.69	-0.63	-0.56	-0.45	3018	1.0
y_mean[1203]	-0.21	1.0e-3	0.04	-0.3	-0.24	-0.21	-0.18	-0.12	1972	1.0
y_mean[1204]	-0.31	5.2e-4	0.03	-0.36	-0.33	-0.31	-0.29	-0.26	2660	1.0
y_mean[1205]	-0.56	4.8e-4	0.03	-0.62	-0.58	-0.56	-0.55	-0.51	3159	1.0
y_mean[1206]	-0.8	6.4e-4	0.04	-0.88	-0.82	-0.8	-0.77	-0.72	3966	1.0
y_mean[1207]	-0.19	6.4e-4	0.04	-0.26	-0.21	-0.19	-0.16	-0.12	3081	1.0
y_mean[1208]	0.31	4.9e-4	0.03	0.25	0.29	0.31	0.33	0.37	3404	1.0
y_mean[1209]	-0.56	4.7e-4	0.03	-0.61	-0.58	-0.56	-0.54	-0.51	3124	1.0
y_mean[1210]	1.42	9.4e-4	0.06	1.29	1.37	1.42	1.46	1.54	4600	1.0

y_mean[1211]	0.09	5.6e-4	0.03	0.03	0.07	0.09	0.11	0.14	2705	1.0
y_mean[1212]	-0.44	5.0e-4	0.03	-0.5	-0.46	-0.44	-0.42	-0.38	3425	1.0
y_mean[1213]	-0.07	5.3e-4	0.03	-0.14	-0.09	-0.07	-0.05	9.4e-4	4258	1.0
y_mean[1214]	-0.51	4.0e-4	0.02	-0.55	-0.52	-0.51	-0.49	-0.46	3200	1.0
y_mean[1215]	0.11	7.9e-4	0.05	3.9e-3	0.07	0.11	0.14	0.21	4297	1.0
y_mean[1216]	-0.15	1.2e-3	0.06	-0.26	-0.19	-0.15	-0.11	-0.04	2306	1.0
y_mean[1217]	0.41	7.8e-4	0.05	0.3	0.38	0.41	0.44	0.51	4501	1.0
y_mean[1218]	-0.49	4.0e-4	0.02	-0.53	-0.5	-0.49	-0.47	-0.44	3335	1.0
y_mean[1219]	-0.45	4.3e-4	0.03	-0.5	-0.47	-0.45	-0.43	-0.4	3680	1.0
y_mean[1220]	-0.5	7.1e-4	0.04	-0.57	-0.53	-0.5	-0.48	-0.43	2836	1.0
y_mean[1221]	0.03	4.7e-4	0.03	-0.02	0.01	0.03	0.05	0.09	4018	1.0
y_mean[1222]	-0.02	8.5e-4	0.06	-0.13	-0.05	-0.02	0.02	0.1	4460	1.0
y_mean[1223]	-0.56	6.1e-4	0.04	-0.63	-0.58	-0.56	-0.54	-0.49	3297	1.0
y_mean[1224]	-0.52	6.5e-4	0.03	-0.59	-0.54	-0.52	-0.5	-0.45	2867	1.0
y_mean[1225]	-0.23	7.4e-4	0.04	-0.31	-0.25	-0.23	-0.2	-0.15	2723	1.0
y_mean[1226]	-0.16	6.0e-4	0.03	-0.22	-0.18	-0.16	-0.13	-0.09	2956	1.0
y_mean[1227]	0.69	1.0e-3	0.08	0.54	0.64	0.69	0.74	0.84	5424	1.0
y_mean[1228]	-0.12	4.1e-4	0.03	-0.17	-0.14	-0.12	-0.1	-0.07	4139	1.0
y_mean[1229]	-0.12	3.9e-4	0.03	-0.17	-0.14	-0.12	-0.1	-0.07	4182	1.0
y_mean[1230]	1.1	7.0e-4	0.05	1.0	1.06	1.1	1.13	1.2	5546	1.0
y_mean[1231]	-0.49	1.1e-3	0.06	-0.6	-0.52	-0.49	-0.45	-0.37	2511	1.0
y_mean[1232]	0.25	4.3e-4	0.03	0.19	0.23	0.25	0.26	0.3	4009	1.0
y_mean[1233]	-0.47	4.8e-4	0.03	-0.52	-0.49	-0.48	-0.46	-0.42	2957	1.0
y_mean[1234]	1.04	7.5e-4	0.06	0.93	1.01	1.05	1.08	1.16	5688	1.0
y_mean[1235]	0.49	6.0e-4	0.04	0.41	0.46	0.49	0.52	0.57	5174	1.0
y_mean[1236]	0.81	6.0e-4	0.04	0.73	0.79	0.81	0.84	0.89	4682	1.0
y_mean[1237]	-0.53	3.9e-4	0.02	-0.58	-0.55	-0.53	-0.52	-0.49	3266	1.0
y_mean[1238]	-0.56	6.1e-4	0.03	-0.63	-0.58	-0.56	-0.53	-0.49	3257	1.0
y_mean[1239]	-0.31	7.0e-4	0.03	-0.38	-0.33	-0.31	-0.29	-0.25	2179	1.0
y_mean[1240]	2.35	2.5e-3	0.16	2.02	2.24	2.35	2.45	2.66	4131	1.0
y_mean[1241]	-0.52	3.8e-4	0.02	-0.57	-0.54	-0.52	-0.51	-0.48	3464	1.0
y_mean[1242]	2.06	1.2e-3	0.09	1.9	2.0	2.06	2.12	2.24	5041	1.0
y_mean[1243]	0.26	7.1e-4	0.05	0.17	0.23	0.26	0.3	0.36	4601	1.0
y_mean[1244]	-0.44	4.7e-4	0.03	-0.5	-0.46	-0.44	-0.42	-0.38	4693	1.0
y_mean[1245]	0.61	6.7e-4	0.04	0.52	0.58	0.61	0.63	0.69	4111	1.0
y_mean[1246]	-0.05	3.2e-4	0.02	-0.1	-0.07	-0.05	-0.04	-0.01	4525	1.0
y_mean[1247]	-0.1	5.1e-4	0.03	-0.16	-0.12	-0.1	-0.09	-0.05	3044	1.0
y_mean[1248]	0.52	4.6e-4	0.03	0.46	0.5	0.52	0.54	0.58	4587	1.0
y_mean[1249]	-0.44	5.5e-4	0.03	-0.5	-0.46	-0.44	-0.42	-0.38	2969	1.0
y_mean[1250]	-0.8	6.6e-4	0.04	-0.88	-0.83	-0.8	-0.77	-0.72	3972	1.0
y_mean[1251]	-0.58	5.2e-4	0.03	-0.63	-0.6	-0.58	-0.56	-0.52	3233	1.0
y_mean[1252]	-0.18	5.9e-4	0.04	-0.25	-0.21	-0.18	-0.16	-0.11	3717	1.0
y_mean[1253]	0.1	6.1e-4	0.03	0.04	0.08	0.1	0.12	0.16	2520	1.0
y_mean[1254]	-0.57	6.3e-4	0.04	-0.64	-0.59	-0.57	-0.54	-0.49	3499	1.0
y_mean[1255]	-0.26	6.2e-4	0.04	-0.33	-0.29	-0.26	-0.24	-0.19	3652	1.0
y_mean[1256]	-0.14	9.8e-4	0.04	-0.23	-0.17	-0.14	-0.11	-0.05	1983	1.0
y_mean[1257]	0.75	4.8e-4	0.03	0.69	0.73	0.75	0.78	0.82	4864	1.0
y_mean[1258]	-0.74	6.2e-4	0.04	-0.81	-0.76	-0.74	-0.71	-0.67	3726	1.0

y_mean[1259]	0.19	6.5e-4	0.05	0.1	0.16	0.19	0.22	0.28	4775	1.0
y_mean[1260]	-0.6	8.7e-4	0.06	-0.71	-0.64	-0.6	-0.56	-0.49	4206	1.0
y_mean[1261]	-0.52	3.9e-4	0.02	-0.56	-0.53	-0.52	-0.51	-0.47	3200	1.0
y_mean[1262]	-0.37	3.6e-4	0.02	-0.41	-0.38	-0.37	-0.35	-0.33	3524	1.0
y_mean[1263]	-0.89	1.3e-3	0.08	-1.04	-0.94	-0.88	-0.83	-0.73	4009	1.0
y_mean[1264]	-0.26	4.4e-4	0.03	-0.31	-0.28	-0.26	-0.24	-0.21	3527	1.0
y_mean[1265]	-0.24	9.2e-4	0.04	-0.33	-0.27	-0.24	-0.22	-0.16	1959	1.0
y_mean[1266]	-0.43	5.5e-4	0.03	-0.49	-0.45	-0.43	-0.41	-0.38	2833	1.0
y_mean[1267]	-0.11	4.5e-4	0.03	-0.17	-0.13	-0.11	-0.09	-0.06	3886	1.0
y_mean[1268]	0.77	6.8e-4	0.05	0.68	0.74	0.77	0.8	0.86	4952	1.0
y_mean[1269]	-0.78	5.7e-4	0.04	-0.85	-0.8	-0.77	-0.75	-0.71	3927	1.0
y_mean[1270]	-0.56	4.6e-4	0.03	-0.62	-0.58	-0.56	-0.55	-0.51	3269	1.0
y_mean[1271]	0.7	8.0e-4	0.05	0.59	0.66	0.7	0.73	0.8	4619	1.0
y_mean[1272]	-0.59	6.6e-4	0.04	-0.66	-0.61	-0.59	-0.56	-0.51	3258	1.0
y_mean[1273]	-0.09	5.9e-4	0.03	-0.15	-0.11	-0.09	-0.07	-0.02	3024	1.0
y_mean[1274]	-0.33	4.0e-4	0.02	-0.38	-0.34	-0.33	-0.31	-0.28	3893	1.0
y_mean[1275]	-0.18	5.4e-4	0.03	-0.24	-0.2	-0.18	-0.16	-0.11	3871	1.0
y_mean[1276]	-0.14	4.3e-4	0.02	-0.19	-0.15	-0.14	-0.12	-0.09	3433	1.0
y_mean[1277]	-0.2	5.7e-4	0.04	-0.27	-0.22	-0.2	-0.18	-0.13	3931	1.0
y_mean[1278]	-0.51	4.4e-4	0.03	-0.57	-0.53	-0.51	-0.49	-0.46	3737	1.0
y_mean[1279]	-0.51	5.0e-4	0.03	-0.57	-0.53	-0.51	-0.49	-0.45	3636	1.0
y_mean[1280]	-0.73	7.6e-4	0.04	-0.82	-0.76	-0.74	-0.71	-0.65	3174	1.0
y_mean[1281]	-0.56	6.5e-4	0.04	-0.63	-0.58	-0.56	-0.53	-0.48	3347	1.0
y_mean[1282]	-0.57	7.0e-4	0.04	-0.65	-0.6	-0.57	-0.54	-0.49	3337	1.0
y_mean[1283]	0.09	5.1e-4	0.03	0.04	0.08	0.09	0.11	0.15	2816	1.0
y_mean[1284]	-0.19	5.7e-4	0.03	-0.25	-0.21	-0.19	-0.17	-0.13	2820	1.0
y_mean[1285]	0.38	4.8e-4	0.03	0.32	0.36	0.38	0.4	0.44	4119	1.0
y_mean[1286]	-0.21	7.3e-4	0.04	-0.28	-0.23	-0.21	-0.18	-0.14	2356	1.0
y_mean[1287]	0.88	9.9e-4	0.07	0.74	0.83	0.88	0.92	1.02	5042	1.0
y_mean[1288]	-0.49	6.9e-4	0.04	-0.57	-0.52	-0.49	-0.46	-0.4	3835	1.0
y_mean[1289]	0.31	7.1e-4	0.05	0.22	0.28	0.31	0.34	0.4	4206	1.0
y_mean[1290]	-0.19	4.9e-4	0.03	-0.24	-0.21	-0.19	-0.17	-0.14	3279	1.0
y_mean[1291]	1.52	8.1e-4	0.06	1.4	1.48	1.52	1.56	1.63	5085	1.0
y_mean[1292]	-0.45	4.1e-4	0.03	-0.5	-0.47	-0.45	-0.43	-0.4	4118	1.0
y_mean[1293]	-0.5	9.3e-4	0.05	-0.61	-0.54	-0.5	-0.46	-0.39	3502	1.0
y_mean[1294]	-0.48	5.1e-4	0.03	-0.53	-0.5	-0.48	-0.46	-0.43	2816	1.0
y_mean[1295]	0.71	5.3e-4	0.03	0.64	0.69	0.71	0.73	0.78	4409	1.0
y_mean[1296]	-0.46	4.8e-4	0.03	-0.51	-0.47	-0.46	-0.44	-0.4	3167	1.0
y_mean[1297]	-0.17	6.0e-4	0.03	-0.23	-0.19	-0.17	-0.15	-0.1	2988	1.0
y_mean[1298]	2.23	1.4e-3	0.09	2.05	2.17	2.23	2.29	2.42	4329	1.0
y_mean[1299]	0.53	4.5e-4	0.03	0.47	0.51	0.53	0.55	0.6	4673	1.0
y_mean[1300]	-0.12	6.2e-4	0.03	-0.18	-0.14	-0.12	-0.1	-0.05	2942	1.0
y_mean[1301]	0.77	7.2e-4	0.05	0.67	0.74	0.77	0.81	0.88	5283	1.0
y_mean[1302]	0.26	8.9e-4	0.05	0.16	0.23	0.26	0.3	0.37	3521	1.0
y_mean[1303]	1.52	7.2e-4	0.05	1.42	1.49	1.52	1.55	1.62	4737	1.0
y_mean[1304]	-0.56	4.8e-4	0.03	-0.62	-0.58	-0.56	-0.55	-0.51	3161	1.0
y_mean[1305]	-0.53	4.2e-4	0.02	-0.58	-0.55	-0.53	-0.52	-0.49	2993	1.0
y_mean[1306]	-0.5	6.5e-4	0.03	-0.57	-0.52	-0.5	-0.48	-0.43	2797	1.0

y_mean[1307]	-0.53	4.3e-4	0.03	-0.58	-0.54	-0.53	-0.51	-0.47	3737	1.0
y_mean[1308]	0.45	4.5e-4	0.03	0.39	0.43	0.45	0.47	0.51	4960	1.0
y_mean[1309]	-0.56	4.5e-4	0.03	-0.61	-0.58	-0.56	-0.54	-0.51	3272	1.0
y_mean[1310]	-0.59	7.6e-4	0.04	-0.68	-0.62	-0.59	-0.57	-0.52	3014	1.0
y_mean[1311]	0.46	8.2e-4	0.06	0.35	0.43	0.46	0.5	0.57	4629	1.0
y_mean[1312]	-0.23	9.2e-4	0.05	-0.32	-0.26	-0.23	-0.19	-0.13	2790	1.0
y_mean[1313]	-0.59	6.2e-4	0.04	-0.66	-0.61	-0.59	-0.57	-0.52	3229	1.0
y_mean[1314]	-0.51	7.3e-4	0.04	-0.58	-0.53	-0.51	-0.48	-0.43	2873	1.0
y_mean[1315]	1.31	7.0e-4	0.05	1.22	1.28	1.31	1.34	1.4	4159	1.0
y_mean[1316]	0.31	9.0e-4	0.05	0.22	0.28	0.31	0.35	0.41	2785	1.0
y_mean[1317]	-0.14	4.6e-4	0.03	-0.19	-0.15	-0.14	-0.12	-0.08	3204	1.0
y_mean[1318]	2.85	1.8e-3	0.11	2.64	2.77	2.85	2.92	3.06	3452	1.0
y_mean[1319]	-0.54	4.1e-4	0.02	-0.59	-0.56	-0.54	-0.53	-0.49	3393	1.0
y_mean[1320]	-0.55	4.2e-4	0.02	-0.6	-0.56	-0.55	-0.53	-0.5	3301	1.0
y_mean[1321]	-0.43	6.5e-4	0.04	-0.51	-0.46	-0.43	-0.41	-0.36	3361	1.0
y_mean[1322]	-0.06	4.6e-4	0.03	-0.11	-0.07	-0.06	-0.04	-3.1e-3	3387	1.0
y_mean[1323]	-0.46	7.7e-4	0.04	-0.55	-0.49	-0.46	-0.43	-0.37	3302	1.0
y_mean[1324]	0.31	4.8e-4	0.04	0.24	0.29	0.31	0.34	0.39	5836	1.0
y_mean[1325]	-0.55	5.4e-4	0.03	-0.61	-0.57	-0.55	-0.53	-0.49	3018	1.0
y_mean[1326]	-0.15	8.6e-4	0.04	-0.24	-0.18	-0.15	-0.12	-0.06	2683	1.0
y_mean[1327]	1.19	6.6e-4	0.05	1.1	1.16	1.19	1.23	1.29	5510	1.0
y_mean[1328]	5.5e-3	7.3e-4	0.04	-0.08	-0.03	5.7e-3	0.04	0.09	3771	1.0
y_mean[1329]	0.02	5.2e-4	0.03	-0.04	1.4e-3	0.02	0.04	0.08	3700	1.0
y_mean[1330]	0.63	5.7e-4	0.04	0.55	0.6	0.63	0.66	0.71	4943	1.0
y_mean[1331]	-0.38	4.0e-4	0.02	-0.43	-0.4	-0.38	-0.37	-0.34	3174	1.0
y_mean[1332]	-0.09	4.4e-4	0.03	-0.13	-0.1	-0.09	-0.07	-0.04	3478	1.0
y_mean[1333]	-0.16	4.8e-4	0.03	-0.21	-0.17	-0.16	-0.14	-0.1	3124	1.0
y_mean[1334]	-0.58	5.7e-4	0.03	-0.65	-0.61	-0.58	-0.56	-0.52	3232	1.0
y_mean[1335]	-0.35	7.6e-4	0.04	-0.43	-0.38	-0.35	-0.32	-0.27	3069	1.0
y_mean[1336]	-0.49	4.3e-4	0.02	-0.54	-0.51	-0.49	-0.47	-0.44	3098	1.0
y_mean[1337]	0.46	4.6e-4	0.03	0.4	0.44	0.46	0.48	0.52	4561	1.0
y_mean[1338]	-0.47	5.5e-4	0.03	-0.52	-0.49	-0.47	-0.45	-0.41	2798	1.0
y_mean[1339]	-0.4	4.6e-4	0.03	-0.45	-0.42	-0.4	-0.39	-0.36	2993	1.0
y_mean[1340]	-0.76	6.5e-4	0.04	-0.83	-0.78	-0.76	-0.73	-0.68	3399	1.0
y_mean[1341]	-0.23	4.2e-4	0.03	-0.29	-0.25	-0.23	-0.21	-0.18	4047	1.0
y_mean[1342]	-0.66	9.5e-4	0.05	-0.76	-0.69	-0.66	-0.63	-0.57	2597	1.0
y_mean[1343]	-0.33	5.4e-4	0.03	-0.39	-0.35	-0.33	-0.32	-0.28	2811	1.0
y_mean[1344]	-0.78	5.9e-4	0.04	-0.86	-0.81	-0.78	-0.76	-0.71	3966	1.0
y_mean[1345]	-0.36	5.4e-4	0.03	-0.43	-0.38	-0.36	-0.34	-0.3	3718	1.0
y_mean[1346]	0.71	5.9e-4	0.04	0.63	0.69	0.71	0.74	0.79	4610	1.0
y_mean[1347]	0.36	7.0e-4	0.05	0.27	0.33	0.36	0.39	0.45	4378	1.0
y_mean[1348]	-0.03	9.8e-4	0.05	-0.12	-0.06	-0.03	-3.5e-3	0.06	2157	1.0
y_mean[1349]	0.64	6.6e-4	0.04	0.56	0.61	0.63	0.66	0.71	3436	1.0
y_mean[1350]	-0.16	9.8e-4	0.04	-0.25	-0.19	-0.16	-0.13	-0.07	1960	1.0
y_mean[1351]	-0.32	5.7e-4	0.04	-0.39	-0.34	-0.32	-0.29	-0.25	4175	1.0
y_mean[1352]	-0.53	6.1e-4	0.03	-0.59	-0.55	-0.53	-0.5	-0.46	2877	1.0
y_mean[1353]	-0.1	4.0e-4	0.03	-0.15	-0.11	-0.1	-0.08	-0.05	4150	1.0
y_mean[1354]	-0.12	5.1e-4	0.03	-0.18	-0.14	-0.12	-0.1	-0.06	3541	1.0

y_mean[1355]	0.99	4.8e-4	0.03	0.92	0.97	0.99	1.02	1.06	5044	1.0
y_mean[1356]	0.15	5.7e-4	0.04	0.08	0.13	0.15	0.18	0.23	4067	1.0
y_mean[1357]	-0.81	7.4e-4	0.05	-0.91	-0.84	-0.81	-0.78	-0.72	3816	1.0
y_mean[1358]	-0.75	6.6e-4	0.04	-0.82	-0.77	-0.75	-0.72	-0.67	3370	1.0
y_mean[1359]	0.18	6.4e-4	0.04	0.1	0.15	0.18	0.21	0.27	4544	1.0
y_mean[1360]	-0.48	4.4e-4	0.02	-0.53	-0.5	-0.48	-0.46	-0.43	3112	1.0
y_mean[1361]	-0.06	4.2e-4	0.03	-0.12	-0.08	-0.06	-0.05	-8.4e-3	4384	1.0
y_mean[1362]	2.76	1.4e-3	0.09	2.59	2.7	2.76	2.82	2.94	4081	1.0
y_mean[1363]	-0.79	6.0e-4	0.04	-0.86	-0.81	-0.79	-0.76	-0.71	4030	1.0
y_mean[1364]	0.15	6.2e-4	0.03	0.09	0.13	0.15	0.17	0.21	2563	1.0
y_mean[1365]	-0.14	3.9e-4	0.02	-0.19	-0.16	-0.14	-0.12	-0.09	4008	1.0
y_mean[1366]	0.71	5.7e-4	0.04	0.62	0.68	0.71	0.73	0.79	5131	1.0
y_mean[1367]	-0.49	7.7e-4	0.05	-0.58	-0.52	-0.49	-0.46	-0.4	3477	1.0
y_mean[1368]	0.71	1.3e-3	0.09	0.54	0.65	0.71	0.77	0.88	4597	1.0
y_mean[1369]	-0.55	5.7e-4	0.03	-0.62	-0.58	-0.55	-0.53	-0.49	3135	1.0
y_mean[1370]	-0.11	4.2e-4	0.03	-0.16	-0.13	-0.11	-0.09	-0.06	3489	1.0
y_mean[1371]	0.38	7.7e-4	0.04	0.31	0.36	0.38	0.41	0.46	2631	1.0
y_mean[1372]	2.57	1.3e-3	0.08	2.42	2.52	2.58	2.63	2.73	3599	1.0
y_mean[1373]	0.94	6.5e-4	0.05	0.85	0.91	0.94	0.97	1.03	4993	1.0
y_mean[1374]	-0.57	4.7e-4	0.03	-0.62	-0.59	-0.57	-0.55	-0.51	3242	1.0
y_mean[1375]	0.67	6.0e-4	0.04	0.59	0.65	0.67	0.7	0.76	5394	1.0
y_mean[1376]	-0.8	7.1e-4	0.04	-0.89	-0.83	-0.8	-0.77	-0.72	3940	1.0
y_mean[1377]	0.41	4.7e-4	0.03	0.35	0.39	0.41	0.43	0.47	4627	1.0
y_mean[1378]	-0.51	4.3e-4	0.02	-0.55	-0.53	-0.51	-0.49	-0.46	3002	1.0
y_mean[1379]	-0.02	4.5e-4	0.03	-0.07	-0.04	-0.02	-7.8e-4	0.04	3763	1.0
y_mean[1380]	-0.49	4.2e-4	0.03	-0.55	-0.51	-0.49	-0.48	-0.44	4459	1.0
y_mean[1381]	0.4	5.0e-4	0.03	0.34	0.37	0.4	0.42	0.46	4344	1.0
y_mean[1382]	2.2	1.2e-3	0.09	2.03	2.14	2.2	2.26	2.37	4795	1.0
y_mean[1383]	0.19	6.7e-4	0.05	0.09	0.16	0.19	0.22	0.28	4828	1.0
y_mean[1384]	-0.74	7.3e-4	0.04	-0.82	-0.77	-0.74	-0.71	-0.66	3216	1.0
y_mean[1385]	0.39	6.3e-4	0.04	0.32	0.37	0.39	0.41	0.46	3261	1.0
y_mean[1386]	-0.72	7.8e-4	0.04	-0.8	-0.75	-0.72	-0.69	-0.63	3149	1.0
y_mean[1387]	0.44	6.2e-4	0.04	0.36	0.42	0.44	0.47	0.53	4734	1.0
y_mean[1388]	-0.58	5.7e-4	0.03	-0.65	-0.6	-0.58	-0.56	-0.52	3275	1.0
y_mean[1389]	-0.44	8.9e-4	0.04	-0.52	-0.46	-0.44	-0.4	-0.35	2519	1.0
y_mean[1390]	4.6e-3	5.0e-4	0.03	-0.05	-0.02	4.5e-3	0.02	0.06	3598	1.0
y_mean[1391]	-0.53	8.5e-4	0.05	-0.62	-0.56	-0.53	-0.49	-0.43	3215	1.0
y_mean[1392]	-0.53	3.9e-4	0.02	-0.58	-0.55	-0.53	-0.52	-0.49	3456	1.0
y_mean[1393]	-0.51	5.3e-4	0.03	-0.58	-0.53	-0.51	-0.49	-0.45	3730	1.0
y_mean[1394]	-0.45	4.5e-4	0.03	-0.51	-0.47	-0.45	-0.42	-0.38	4662	1.0
y_mean[1395]	-0.57	5.1e-4	0.03	-0.63	-0.59	-0.57	-0.55	-0.51	3304	1.0
y_mean[1396]	-0.47	3.6e-4	0.02	-0.51	-0.48	-0.47	-0.45	-0.42	3928	1.0
y_mean[1397]	0.09	5.8e-4	0.04	0.02	0.07	0.09	0.12	0.17	4314	1.0
y_mean[1398]	-0.14	7.0e-4	0.04	-0.21	-0.16	-0.14	-0.11	-0.06	2705	1.0
y_mean[1399]	-0.14	4.1e-4	0.02	-0.19	-0.16	-0.14	-0.12	-0.09	3601	1.0
y_mean[1400]	-0.55	4.7e-4	0.03	-0.6	-0.56	-0.55	-0.53	-0.49	3009	1.0
y_mean[1401]	-0.11	4.4e-4	0.03	-0.16	-0.13	-0.11	-0.1	-0.06	3357	1.0
y_mean[1402]	0.22	8.3e-4	0.05	0.13	0.19	0.22	0.25	0.31	2954	1.0

y_mean[1403]	-0.16	5.4e-4	0.03	-0.22	-0.18	-0.16	-0.13	-0.09	4043	1.0
y_mean[1404]	-0.44	4.6e-4	0.03	-0.51	-0.46	-0.44	-0.42	-0.38	4679	1.0
y_mean[1405]	-0.24	6.4e-4	0.04	-0.32	-0.27	-0.24	-0.21	-0.16	3847	1.0
y_mean[1406]	0.19	9.5e-4	0.05	0.09	0.16	0.19	0.23	0.29	2896	1.0
y_mean[1407]	1.08	8.5e-4	0.06	0.96	1.04	1.08	1.12	1.2	5243	1.0
y_mean[1408]	1.8	1.4e-3	0.09	1.61	1.74	1.8	1.87	1.98	4504	1.0
y_mean[1409]	-0.63	6.6e-4	0.04	-0.71	-0.66	-0.63	-0.6	-0.55	4110	1.0
y_mean[1410]	1.98	9.4e-4	0.07	1.85	1.93	1.98	2.02	2.11	5032	1.0
y_mean[1411]	2.85	1.8e-3	0.1	2.66	2.78	2.86	2.92	3.05	3329	1.0
y_mean[1412]	-0.16	6.2e-4	0.03	-0.23	-0.18	-0.16	-0.14	-0.1	2706	1.0
y_mean[1413]	1.24	6.8e-4	0.05	1.14	1.2	1.24	1.28	1.35	6397	1.0
y_mean[1414]	-0.42	4.5e-4	0.03	-0.48	-0.44	-0.42	-0.4	-0.37	4045	1.0
y_mean[1415]	0.09	4.0e-4	0.03	0.05	0.08	0.09	0.11	0.14	3930	1.0
y_mean[1416]	-0.49	4.9e-4	0.03	-0.54	-0.5	-0.49	-0.47	-0.44	2852	1.0
y_mean[1417]	-0.55	6.8e-4	0.04	-0.63	-0.58	-0.55	-0.53	-0.47	3360	1.0
y_mean[1418]	0.49	6.3e-4	0.04	0.42	0.46	0.49	0.51	0.56	3324	1.0
y_mean[1419]	-0.79	6.2e-4	0.04	-0.87	-0.82	-0.79	-0.77	-0.72	3985	1.0
y_mean[1420]	-0.03	9.0e-4	0.04	-0.11	-0.06	-0.03	6.9e-4	0.06	2248	1.0
y_mean[1421]	-0.53	3.9e-4	0.02	-0.57	-0.54	-0.53	-0.51	-0.48	3392	1.0
y_mean[1422]	-0.23	5.0e-4	0.03	-0.29	-0.25	-0.23	-0.21	-0.17	3616	1.0
y_mean[1423]	0.1	5.3e-4	0.03	0.04	0.08	0.1	0.12	0.15	3125	1.0
y_mean[1424]	-0.12	6.6e-4	0.03	-0.19	-0.14	-0.12	-0.1	-0.06	2632	1.0
y_mean[1425]	0.55	4.6e-4	0.03	0.48	0.52	0.55	0.57	0.61	4617	1.0
y_mean[1426]	-0.55	4.2e-4	0.02	-0.6	-0.56	-0.55	-0.53	-0.5	3301	1.0
y_mean[1427]	0.45	4.5e-4	0.03	0.39	0.43	0.45	0.47	0.51	4866	1.0
y_mean[1428]	1.05	5.8e-4	0.04	0.97	1.02	1.05	1.07	1.12	4463	1.0
y_mean[1429]	-0.56	4.4e-4	0.03	-0.61	-0.58	-0.56	-0.54	-0.51	3280	1.0
y_mean[1430]	-0.25	6.5e-4	0.04	-0.33	-0.27	-0.25	-0.22	-0.16	4037	1.0
y_mean[1431]	-0.56	5.1e-4	0.03	-0.62	-0.58	-0.56	-0.54	-0.5	3727	1.0
y_mean[1432]	0.15	5.8e-4	0.03	0.09	0.13	0.15	0.17	0.22	3272	1.0
y_mean[1433]	0.67	5.0e-4	0.04	0.6	0.64	0.66	0.69	0.74	5206	1.0
y_mean[1434]	0.45	6.3e-4	0.04	0.36	0.42	0.45	0.48	0.54	5073	1.0
y_mean[1435]	0.09	9.3e-4	0.05	-0.02	0.05	0.09	0.13	0.19	3332	1.0
y_mean[1436]	-0.68	7.3e-4	0.05	-0.77	-0.71	-0.68	-0.65	-0.59	4134	1.0
y_mean[1437]	0.19	6.0e-4	0.04	0.1	0.16	0.19	0.21	0.27	4929	1.0
y_mean[1438]	-0.51	3.9e-4	0.02	-0.55	-0.52	-0.51	-0.49	-0.46	3303	1.0
y_mean[1439]	0.76	5.9e-4	0.04	0.68	0.73	0.76	0.79	0.84	4903	1.0
y_mean[1440]	0.22	5.6e-4	0.04	0.14	0.19	0.22	0.24	0.3	4971	1.0
y_mean[1441]	-0.11	5.2e-4	0.03	-0.17	-0.13	-0.11	-0.09	-0.05	3008	1.0
y_mean[1442]	0.2	6.0e-4	0.04	0.12	0.17	0.2	0.22	0.28	4274	1.0
y_mean[1443]	-0.73	8.6e-4	0.05	-0.82	-0.76	-0.73	-0.7	-0.63	3113	1.0
y_mean[1444]	-0.59	7.3e-4	0.04	-0.67	-0.62	-0.59	-0.57	-0.51	3215	1.0
y_mean[1445]	-0.04	4.2e-4	0.03	-0.09	-0.05	-0.04	-0.02	0.02	4299	1.0
y_mean[1446]	0.36	8.7e-4	0.04	0.28	0.33	0.36	0.39	0.45	2445	1.0
y_mean[1447]	-0.51	4.1e-4	0.02	-0.56	-0.53	-0.51	-0.5	-0.47	3120	1.0
y_mean[1448]	0.05	4.9e-4	0.03	-0.01	0.03	0.05	0.07	0.11	3878	1.0
y_mean[1449]	-0.34	8.0e-4	0.05	-0.44	-0.37	-0.34	-0.31	-0.24	3773	1.0
y_mean[1450]	-0.87	1.2e-3	0.08	-1.03	-0.93	-0.87	-0.82	-0.73	3856	1.0

y_mean[1451]	-0.46	3.6e-4	0.02	-0.5	-0.47	-0.46	-0.44	-0.41	3936	1.0
y_mean[1452]	-0.18	4.2e-4	0.03	-0.23	-0.2	-0.18	-0.16	-0.13	3992	1.0
y_mean[1453]	-0.06	4.7e-4	0.03	-0.11	-0.08	-0.06	-0.04	6.8e-3	4360	1.0
y_mean[1454]	-0.54	7.2e-4	0.04	-0.62	-0.57	-0.54	-0.52	-0.46	3207	1.0
y_mean[1455]	-0.55	7.1e-4	0.04	-0.63	-0.58	-0.55	-0.52	-0.47	3456	1.0
y_mean[1456]	0.9	4.3e-4	0.03	0.84	0.88	0.9	0.92	0.96	4998	1.0
y_mean[1457]	-0.53	5.4e-4	0.03	-0.58	-0.55	-0.53	-0.51	-0.47	2867	1.0
y_mean[1458]	-0.4	5.1e-4	0.03	-0.46	-0.42	-0.4	-0.38	-0.34	3527	1.0
y_mean[1459]	-0.08	4.2e-4	0.03	-0.13	-0.1	-0.08	-0.06	-0.03	3666	1.0
y_mean[1460]	0.01	7.0e-4	0.04	-0.07	-0.02	0.01	0.04	0.09	3328	1.0
y_mean[1461]	-0.48	3.6e-4	0.02	-0.53	-0.5	-0.48	-0.47	-0.44	4044	1.0
y_mean[1462]	-0.56	4.6e-4	0.03	-0.61	-0.57	-0.56	-0.54	-0.51	3125	1.0
y_mean[1463]	0.6	5.3e-4	0.04	0.53	0.57	0.6	0.62	0.67	4589	1.0
y_mean[1464]	-0.11	4.8e-4	0.03	-0.16	-0.12	-0.11	-0.09	-0.05	3122	1.0
y_mean[1465]	-0.58	5.7e-4	0.03	-0.64	-0.6	-0.58	-0.55	-0.51	3301	1.0
y_mean[1466]	-0.81	7.6e-4	0.05	-0.91	-0.84	-0.81	-0.78	-0.72	3835	1.0
y_mean[1467]	-0.79	6.0e-4	0.04	-0.86	-0.81	-0.79	-0.76	-0.72	3984	1.0
y_mean[1468]	-0.07	5.1e-4	0.03	-0.12	-0.09	-0.07	-0.05	-0.01	3166	1.0
y_mean[1469]	-0.28	6.2e-4	0.04	-0.36	-0.31	-0.28	-0.25	-0.2	4011	1.0
y_mean[1470]	-0.42	4.5e-4	0.03	-0.48	-0.44	-0.42	-0.4	-0.37	3916	1.0
y_mean[1471]	-0.12	7.1e-4	0.04	-0.19	-0.15	-0.12	-0.1	-0.06	2453	1.0
y_mean[1472]	3.27	2.1e-3	0.13	3.01	3.19	3.28	3.36	3.53	4186	1.0
y_mean[1473]	-0.75	5.9e-4	0.04	-0.82	-0.78	-0.75	-0.73	-0.68	3911	1.0
y_mean[1474]	-0.21	8.7e-4	0.04	-0.29	-0.24	-0.21	-0.18	-0.13	2110	1.0
y_mean[1475]	-0.5	3.7e-4	0.02	-0.54	-0.52	-0.5	-0.49	-0.46	3678	1.0
y_mean[1476]	0.35	5.2e-4	0.03	0.29	0.33	0.35	0.37	0.41	3391	1.0
y_mean[1477]	-0.52	3.8e-4	0.02	-0.57	-0.53	-0.52	-0.5	-0.47	3623	1.0
y_mean[1478]	-0.54	4.0e-4	0.02	-0.59	-0.56	-0.54	-0.53	-0.5	3319	1.0
y_mean[1479]	-0.33	9.4e-4	0.04	-0.41	-0.36	-0.33	-0.3	-0.24	2137	1.0
y_mean[1480]	-0.78	5.9e-4	0.04	-0.85	-0.81	-0.78	-0.76	-0.71	3944	1.0
y_mean[1481]	-0.3	6.7e-4	0.03	-0.36	-0.32	-0.3	-0.28	-0.24	2209	1.0
y_mean[1482]	-0.06	5.7e-4	0.03	-0.13	-0.09	-0.06	-0.04	7.7e-3	3586	1.0
y_mean[1483]	-0.4	4.8e-4	0.03	-0.46	-0.42	-0.4	-0.38	-0.34	3951	1.0
y_mean[1484]	-0.43	1.0e-3	0.06	-0.54	-0.47	-0.43	-0.39	-0.32	3026	1.0
y_mean[1485]	-0.27	6.7e-4	0.03	-0.33	-0.29	-0.27	-0.24	-0.2	2443	1.0
y_mean[1486]	-0.77	6.3e-4	0.04	-0.85	-0.8	-0.77	-0.75	-0.69	4131	1.0
y_mean[1487]	-0.82	8.6e-4	0.05	-0.93	-0.85	-0.82	-0.78	-0.72	3672	1.0
y_mean[1488]	-0.05	4.8e-4	0.03	-0.1	-0.07	-0.05	-0.03	0.01	3674	1.0
y_mean[1489]	1.22	8.3e-4	0.06	1.1	1.18	1.22	1.26	1.33	4860	1.0
y_mean[1490]	1.38	8.7e-4	0.07	1.25	1.34	1.38	1.42	1.5	5670	1.0
y_mean[1491]	0.48	6.3e-4	0.04	0.39	0.45	0.48	0.5	0.56	4632	1.0
y_mean[1492]	-0.55	5.0e-4	0.03	-0.61	-0.57	-0.55	-0.53	-0.49	3682	1.0
y_mean[1493]	-0.77	6.2e-4	0.04	-0.85	-0.8	-0.77	-0.75	-0.7	3711	1.0
y_mean[1494]	-0.39	1.1e-3	0.06	-0.5	-0.43	-0.39	-0.35	-0.28	2398	1.0
y_mean[1495]	0.45	4.6e-4	0.03	0.39	0.42	0.44	0.47	0.51	4581	1.0
y_mean[1496]	1.52	7.5e-4	0.05	1.43	1.49	1.52	1.56	1.62	4455	1.0
y_mean[1497]	-0.57	9.5e-4	0.05	-0.67	-0.6	-0.57	-0.54	-0.48	2474	1.0
y_mean[1498]	-0.34	8.2e-4	0.04	-0.42	-0.37	-0.34	-0.32	-0.27	2152	1.0

y_mean[1499]	-0.5	4.4e-4	0.03	-0.55	-0.51	-0.49	-0.48	-0.44	3683	1.0
y_mean[1500]	0.07	6.3e-4	0.03	0.01	0.05	0.07	0.1	0.14	2777	1.0
y_mean[1501]	0.61	5.8e-4	0.04	0.53	0.58	0.61	0.64	0.7	5541	1.0
y_mean[1502]	1.4	6.2e-4	0.05	1.3	1.36	1.39	1.43	1.49	6086	1.0
y_mean[1503]	-0.51	3.8e-4	0.02	-0.56	-0.53	-0.51	-0.5	-0.47	3694	1.0
y_mean[1504]	-0.26	8.4e-4	0.06	-0.37	-0.3	-0.26	-0.22	-0.14	4688	1.0
y_mean[1505]	0.75	6.8e-4	0.05	0.65	0.71	0.74	0.78	0.84	4679	1.0
y_mean[1506]	-0.61	9.4e-4	0.05	-0.72	-0.65	-0.61	-0.58	-0.51	3270	1.0
y_mean[1507]	1.25	6.4e-4	0.05	1.16	1.22	1.25	1.28	1.35	5731	1.0
y_mean[1508]	0.77	5.8e-4	0.04	0.7	0.75	0.77	0.8	0.85	4662	1.0
y_mean[1509]	-0.07	4.2e-4	0.03	-0.12	-0.09	-0.07	-0.06	-0.02	3702	1.0
y_mean[1510]	-0.53	3.9e-4	0.02	-0.57	-0.54	-0.53	-0.51	-0.48	3366	1.0
y_mean[1511]	-0.51	4.5e-4	0.02	-0.55	-0.52	-0.51	-0.49	-0.46	2911	1.0
y_mean[1512]	-0.48	4.8e-4	0.03	-0.54	-0.5	-0.48	-0.46	-0.41	4505	1.0
y_mean[1513]	-0.56	4.6e-4	0.03	-0.61	-0.58	-0.56	-0.55	-0.51	3192	1.0
y_mean[1514]	-0.45	8.7e-4	0.05	-0.54	-0.48	-0.45	-0.42	-0.36	2903	1.0
y_mean[1515]	-0.22	4.4e-4	0.03	-0.28	-0.24	-0.22	-0.2	-0.16	4749	1.0
y_mean[1516]	-0.11	3.6e-4	0.02	-0.16	-0.13	-0.11	-0.09	-0.06	4423	1.0
y_mean[1517]	-0.04	5.1e-4	0.03	-0.09	-0.06	-0.04	-0.02	0.02	3322	1.0
y_mean[1518]	-0.73	7.3e-4	0.04	-0.81	-0.76	-0.73	-0.71	-0.65	3226	1.0
y_mean[1519]	0.37	4.8e-4	0.03	0.31	0.35	0.37	0.39	0.44	4368	1.0
y_mean[1520]	-0.23	6.9e-4	0.04	-0.31	-0.26	-0.23	-0.2	-0.15	3808	1.0
y_mean[1521]	0.82	7.7e-4	0.05	0.72	0.79	0.82	0.86	0.92	4522	1.0
y_mean[1522]	-0.37	6.7e-4	0.03	-0.44	-0.4	-0.37	-0.35	-0.31	2418	1.0
y_mean[1523]	-0.82	8.7e-4	0.05	-0.92	-0.85	-0.82	-0.78	-0.71	3650	1.0
y_mean[1524]	-0.37	5.3e-4	0.03	-0.43	-0.39	-0.37	-0.35	-0.31	3780	1.0
y_mean[1525]	-0.14	3.9e-4	0.03	-0.19	-0.15	-0.14	-0.12	-0.09	4241	1.0
y_mean[1526]	-0.2	7.7e-4	0.04	-0.27	-0.22	-0.2	-0.17	-0.13	2243	1.0
y_mean[1527]	0.48	4.6e-4	0.03	0.42	0.46	0.48	0.5	0.54	4509	1.0
y_mean[1528]	0.45	8.1e-4	0.04	0.37	0.42	0.45	0.48	0.53	2731	1.0
y_mean[1529]	-0.54	4.7e-4	0.03	-0.6	-0.56	-0.54	-0.52	-0.49	3575	1.0
y_mean[1530]	0.77	6.8e-4	0.05	0.68	0.74	0.77	0.8	0.86	4538	1.0
y_mean[1531]	-0.65	1.0e-3	0.06	-0.76	-0.69	-0.65	-0.61	-0.54	3055	1.0
y_mean[1532]	2.03	8.7e-4	0.06	1.91	1.99	2.03	2.07	2.15	4822	1.0
y_mean[1533]	-0.52	4.3e-4	0.02	-0.56	-0.53	-0.52	-0.5	-0.47	2974	1.0
y_mean[1534]	-0.21	9.8e-4	0.04	-0.3	-0.24	-0.21	-0.18	-0.12	2007	1.0
y_mean[1535]	1.99	1.4e-3	0.09	1.82	1.93	1.99	2.05	2.16	3598	1.0
y_mean[1536]	-0.08	5.3e-4	0.04	-0.15	-0.1	-0.07	-0.05	-3.1e-3	4687	1.0
y_mean[1537]	-0.17	5.7e-4	0.03	-0.24	-0.19	-0.17	-0.15	-0.1	3512	1.0
y_mean[1538]	0.54	4.6e-4	0.03	0.48	0.52	0.54	0.56	0.6	4610	1.0
y_mean[1539]	-0.75	6.5e-4	0.04	-0.83	-0.78	-0.75	-0.73	-0.68	3400	1.0
y_mean[1540]	-0.56	1.1e-3	0.05	-0.67	-0.59	-0.56	-0.53	-0.46	2327	1.0
y_mean[1541]	-0.24	7.1e-4	0.04	-0.32	-0.26	-0.24	-0.21	-0.15	3764	1.0
y_mean[1542]	-0.59	8.6e-4	0.05	-0.69	-0.62	-0.59	-0.55	-0.48	3856	1.0
y_mean[1543]	-0.51	4.7e-4	0.02	-0.56	-0.53	-0.51	-0.5	-0.46	2879	1.0
y_mean[1544]	1.03	7.0e-4	0.04	0.94	1.0	1.03	1.06	1.11	4085	1.0
y_mean[1545]	-0.38	3.4e-4	0.02	-0.42	-0.39	-0.38	-0.36	-0.34	3765	1.0
y_mean[1546]	-0.36	5.2e-4	0.03	-0.43	-0.39	-0.36	-0.34	-0.3	4248	1.0

y_mean[1547]	-0.8	7.2e-4	0.04	-0.89	-0.83	-0.8	-0.77	-0.71	3911	1.0
y_mean[1548]	-0.43	3.7e-4	0.02	-0.48	-0.45	-0.43	-0.42	-0.39	3476	1.0
y_mean[1549]	-0.78	6.6e-4	0.04	-0.86	-0.81	-0.78	-0.75	-0.7	3887	1.0
y_mean[1550]	-0.53	7.2e-4	0.05	-0.62	-0.56	-0.53	-0.5	-0.45	3975	1.0
y_mean[1551]	-0.43	4.4e-4	0.03	-0.49	-0.45	-0.43	-0.41	-0.38	3918	1.0
y_mean[1552]	0.43	8.6e-4	0.04	0.35	0.4	0.43	0.45	0.51	2430	1.0
y_mean[1553]	-0.51	3.8e-4	0.02	-0.55	-0.53	-0.51	-0.5	-0.47	3451	1.0
y_mean[1554]	-0.53	9.2e-4	0.05	-0.63	-0.56	-0.53	-0.5	-0.44	2594	1.0
y_mean[1555]	0.59	4.9e-4	0.03	0.53	0.57	0.59	0.61	0.66	4899	1.0
y_mean[1556]	0.66	5.5e-4	0.03	0.59	0.63	0.66	0.68	0.72	3989	1.0
y_mean[1557]	-0.69	6.1e-4	0.04	-0.77	-0.72	-0.69	-0.67	-0.62	3919	1.0
y_mean[1558]	-0.36	5.2e-4	0.03	-0.43	-0.38	-0.36	-0.34	-0.29	4194	1.0
y_mean[1559]	-0.13	4.3e-4	0.03	-0.18	-0.14	-0.13	-0.11	-0.08	3389	1.0
y_mean[1560]	-0.02	4.5e-4	0.03	-0.08	-0.04	-0.02	-1.8e-3	0.04	4481	1.0
y_mean[1561]	-0.22	6.0e-4	0.04	-0.29	-0.25	-0.22	-0.2	-0.15	3895	1.0
y_mean[1562]	-0.8	6.3e-4	0.04	-0.88	-0.82	-0.8	-0.77	-0.72	3970	1.0
y_mean[1563]	-0.26	5.9e-4	0.04	-0.33	-0.28	-0.26	-0.24	-0.19	3596	1.0
y_mean[1564]	0.04	9.8e-4	0.05	-0.05	0.01	0.04	0.08	0.14	2442	1.0
y_mean[1565]	-0.43	4.4e-4	0.03	-0.48	-0.44	-0.43	-0.41	-0.37	4091	1.0
y_mean[1566]	0.16	7.4e-4	0.04	0.09	0.13	0.16	0.19	0.24	2836	1.0
y_mean[1567]	-0.09	5.8e-4	0.03	-0.15	-0.11	-0.09	-0.07	-0.03	3009	1.0
y_mean[1568]	1.19	7.9e-4	0.05	1.09	1.15	1.19	1.23	1.3	4590	1.0
y_mean[1569]	-0.47	2.9e-4	0.02	-0.51	-0.48	-0.47	-0.46	-0.43	4765	1.0
y_mean[1570]	0.29	1.0e-3	0.05	0.2	0.26	0.29	0.32	0.38	2116	1.0
y_mean[1571]	0.46	5.0e-4	0.03	0.4	0.44	0.46	0.48	0.53	4461	1.0
y_mean[1572]	0.54	4.5e-4	0.03	0.48	0.52	0.54	0.56	0.6	4636	1.0
y_mean[1573]	0.54	4.5e-4	0.03	0.48	0.52	0.54	0.56	0.6	4612	1.0
y_mean[1574]	-0.51	4.7e-4	0.02	-0.56	-0.53	-0.51	-0.49	-0.46	2868	1.0
y_mean[1575]	0.26	1.1e-3	0.08	0.11	0.21	0.26	0.31	0.41	4988	1.0
y_mean[1576]	0.7	7.8e-4	0.05	0.6	0.66	0.7	0.73	0.79	3874	1.0
y_mean[1577]	-0.28	6.8e-4	0.04	-0.36	-0.31	-0.28	-0.25	-0.19	3665	1.0
y_mean[1578]	-0.28	7.2e-4	0.03	-0.34	-0.3	-0.28	-0.25	-0.21	2143	1.0
y_mean[1579]	-0.28	6.9e-4	0.04	-0.36	-0.31	-0.28	-0.25	-0.2	3474	1.0
y_mean[1580]	-0.52	7.4e-4	0.04	-0.6	-0.55	-0.52	-0.5	-0.44	2989	1.0
y_mean[1581]	-0.16	4.8e-4	0.03	-0.22	-0.18	-0.16	-0.14	-0.1	4019	1.0
y_mean[1582]	0.03	6.1e-4	0.03	-0.03	9.4e-3	0.03	0.05	0.1	2807	1.0
y_mean[1583]	-0.81	7.6e-4	0.05	-0.91	-0.84	-0.81	-0.78	-0.72	3793	1.0
y_mean[1584]	-0.73	6.1e-4	0.04	-0.81	-0.76	-0.73	-0.71	-0.66	4209	1.0
y_mean[1585]	-0.27	6.9e-4	0.03	-0.34	-0.29	-0.27	-0.25	-0.21	2172	1.0
y_mean[1586]	0.51	5.9e-4	0.04	0.43	0.48	0.51	0.54	0.59	4632	1.0
y_mean[1587]	-0.52	3.8e-4	0.02	-0.56	-0.53	-0.52	-0.5	-0.47	3522	1.0
y_mean[1588]	-0.56	5.5e-4	0.03	-0.62	-0.58	-0.56	-0.54	-0.49	3459	1.0
y_mean[1589]	-0.49	3.3e-4	0.02	-0.53	-0.5	-0.49	-0.47	-0.45	4256	1.0
y_mean[1590]	0.79	6.2e-4	0.04	0.71	0.77	0.79	0.82	0.88	4739	1.0
y_mean[1591]	-0.79	6.4e-4	0.04	-0.87	-0.82	-0.79	-0.76	-0.71	3998	1.0
y_mean[1592]	-0.78	5.7e-4	0.04	-0.85	-0.8	-0.77	-0.75	-0.7	4010	1.0
y_mean[1593]	-0.54	7.1e-4	0.04	-0.62	-0.56	-0.54	-0.51	-0.46	3111	1.0
y_mean[1594]	-0.75	7.1e-4	0.04	-0.83	-0.78	-0.75	-0.73	-0.67	3270	1.0

y_mean[1595]	-0.32	9.1e-4	0.04	-0.41	-0.35	-0.32	-0.3	-0.24	2055	1.0
y_mean[1596]	-0.79	5.9e-4	0.04	-0.86	-0.81	-0.79	-0.76	-0.71	4014	1.0
y_mean[1597]	-0.59	6.0e-4	0.03	-0.66	-0.61	-0.59	-0.57	-0.52	3236	1.0
y_mean[1598]	-0.07	7.2e-4	0.04	-0.15	-0.1	-0.07	-0.05	6.5e-3	3143	1.0
y_mean[1599]	-0.3	4.0e-4	0.02	-0.35	-0.32	-0.3	-0.28	-0.25	3914	1.0
y_mean[1600]	0.37	9.2e-4	0.06	0.26	0.33	0.37	0.41	0.49	4076	1.0
y_mean[1601]	-0.77	6.0e-4	0.04	-0.85	-0.79	-0.77	-0.74	-0.69	4098	1.0
y_mean[1602]	-0.33	7.3e-4	0.05	-0.42	-0.36	-0.33	-0.3	-0.24	3855	1.0
y_mean[1603]	0.96	6.9e-4	0.04	0.88	0.94	0.96	0.99	1.05	3705	1.0
y_mean[1604]	0.26	6.6e-4	0.05	0.16	0.23	0.25	0.29	0.35	5001	1.0
y_mean[1605]	-0.06	5.9e-4	0.04	-0.14	-0.09	-0.06	-0.04	6.8e-3	3762	1.0
y_mean[1606]	-0.58	5.4e-4	0.03	-0.64	-0.6	-0.58	-0.56	-0.52	3242	1.0
y_mean[1607]	-0.51	4.3e-4	0.03	-0.57	-0.53	-0.51	-0.5	-0.46	3990	1.0
y_mean[1608]	0.26	5.5e-4	0.03	0.2	0.23	0.26	0.28	0.31	2942	1.0
y_mean[1609]	-0.57	6.0e-4	0.03	-0.63	-0.59	-0.56	-0.54	-0.5	3370	1.0
y_mean[1610]	1.7	1.4e-3	0.09	1.53	1.65	1.71	1.76	1.88	3882	1.0
y_mean[1611]	-0.44	5.7e-4	0.03	-0.5	-0.46	-0.44	-0.42	-0.38	3140	1.0
y_mean[1612]	0.82	8.7e-4	0.06	0.71	0.79	0.82	0.86	0.94	4391	1.0
y_mean[1613]	-0.79	6.1e-4	0.04	-0.87	-0.82	-0.79	-0.77	-0.72	3984	1.0
y_mean[1614]	-0.23	4.9e-4	0.03	-0.29	-0.25	-0.23	-0.21	-0.17	3620	1.0
y_mean[1615]	0.24	4.9e-4	0.03	0.19	0.23	0.24	0.26	0.3	3148	1.0
y_mean[1616]	-0.4	7.6e-4	0.04	-0.48	-0.43	-0.4	-0.38	-0.33	2364	1.0
y_mean[1617]	-0.21	7.3e-4	0.03	-0.28	-0.23	-0.21	-0.18	-0.14	2229	1.0
y_mean[1618]	0.41	5.3e-4	0.04	0.34	0.38	0.4	0.43	0.48	4591	1.0
y_mean[1619]	-0.49	3.9e-4	0.02	-0.54	-0.51	-0.49	-0.48	-0.45	3412	1.0
y_mean[1620]	0.97	8.7e-4	0.06	0.85	0.93	0.97	1.01	1.09	4669	1.0
y_mean[1621]	-0.34	4.2e-4	0.03	-0.39	-0.36	-0.34	-0.32	-0.28	4414	1.0
y_mean[1622]	-0.54	4.0e-4	0.02	-0.58	-0.55	-0.54	-0.52	-0.49	3337	1.0
y_mean[1623]	0.44	5.5e-4	0.04	0.36	0.41	0.44	0.46	0.51	4669	1.0
y_mean[1624]	-0.56	6.9e-4	0.04	-0.64	-0.59	-0.56	-0.54	-0.48	3562	1.0
y_mean[1625]	-0.14	4.0e-4	0.02	-0.19	-0.15	-0.14	-0.12	-0.09	3760	1.0
y_mean[1626]	-0.52	5.5e-4	0.03	-0.57	-0.54	-0.52	-0.5	-0.46	2817	1.0
y_mean[1627]	-0.01	4.9e-4	0.03	-0.07	-0.03	-0.01	8.0e-3	0.05	3545	1.0
y_mean[1628]	-0.53	3.9e-4	0.02	-0.57	-0.55	-0.53	-0.52	-0.49	3379	1.0
y_mean[1629]	-0.48	4.1e-4	0.03	-0.54	-0.5	-0.48	-0.47	-0.43	3909	1.0
y_mean[1630]	0.7	7.8e-4	0.06	0.58	0.66	0.7	0.74	0.82	5672	1.0
y_mean[1631]	-0.82	1.1e-3	0.06	-0.96	-0.87	-0.82	-0.78	-0.7	3553	1.0
y_mean[1632]	0.7	6.0e-4	0.04	0.62	0.67	0.7	0.73	0.78	4996	1.0
y_mean[1633]	0.42	5.5e-4	0.04	0.34	0.39	0.42	0.45	0.5	5309	1.0
y_mean[1634]	0.88	1.2e-3	0.08	0.7	0.82	0.88	0.93	1.05	5126	1.0
y_mean[1635]	0.07	5.0e-4	0.03	8.5e-3	0.05	0.07	0.1	0.14	4612	1.0
y_mean[1636]	-0.45	1.1e-3	0.06	-0.58	-0.49	-0.45	-0.41	-0.32	3527	1.0
y_mean[1637]	-0.35	5.9e-4	0.03	-0.4	-0.36	-0.35	-0.33	-0.29	2413	1.0
y_mean[1638]	0.73	7.2e-4	0.04	0.65	0.7	0.73	0.76	0.81	3086	1.0
y_mean[1639]	0.1	4.4e-4	0.02	0.05	0.09	0.1	0.12	0.15	3149	1.0
y_mean[1640]	0.04	6.2e-4	0.03	-0.02	0.02	0.04	0.06	0.1	2497	1.0
y_mean[1641]	-0.16	4.0e-4	0.02	-0.21	-0.18	-0.16	-0.14	-0.11	3835	1.0
y_mean[1642]	-0.13	4.6e-4	0.03	-0.18	-0.15	-0.13	-0.11	-0.08	3205	1.0

y_mean[1643]	-0.77	5.7e-4	0.04	-0.84	-0.79	-0.77	-0.75	-0.7	4006	1.0
y_mean[1644]	-0.57	5.0e-4	0.03	-0.62	-0.59	-0.57	-0.55	-0.51	3199	1.0
y_mean[1645]	-0.56	4.3e-4	0.02	-0.6	-0.57	-0.56	-0.54	-0.51	3286	1.0
y_mean[1646]	1.41	7.0e-4	0.05	1.32	1.38	1.41	1.44	1.51	4712	1.0
y_mean[1647]	-1.9e-3	8.6e-4	0.04	-0.09	-0.03	-2.3e-3	0.03	0.08	2529	1.0
y_mean[1648]	-0.22	9.9e-4	0.04	-0.31	-0.25	-0.22	-0.19	-0.14	1972	1.0
y_mean[1649]	-0.21	4.4e-4	0.03	-0.26	-0.22	-0.21	-0.19	-0.15	3815	1.0
y_mean[1650]	-0.32	5.5e-4	0.03	-0.37	-0.34	-0.32	-0.3	-0.26	2678	1.0
y_mean[1651]	-0.52	4.6e-4	0.03	-0.57	-0.54	-0.52	-0.5	-0.46	3931	1.0
y_mean[1652]	0.13	5.6e-4	0.04	0.05	0.1	0.13	0.15	0.2	4060	1.0
y_mean[1653]	1.54	9.3e-4	0.07	1.41	1.49	1.54	1.58	1.67	4960	1.0
y_mean[1654]	-0.52	5.9e-4	0.03	-0.58	-0.54	-0.52	-0.5	-0.46	2836	1.0
y_mean[1655]	0.43	7.3e-4	0.04	0.35	0.4	0.43	0.46	0.51	3300	1.0
y_mean[1656]	0.43	4.8e-4	0.03	0.36	0.4	0.42	0.45	0.49	4432	1.0
y_mean[1657]	-0.46	4.1e-4	0.03	-0.51	-0.48	-0.46	-0.44	-0.41	3898	1.0
y_mean[1658]	1.8	1.2e-3	0.07	1.66	1.75	1.8	1.85	1.95	3705	1.0
y_mean[1659]	0.03	5.3e-4	0.03	-0.02	0.01	0.03	0.05	0.1	3612	1.0
y_mean[1660]	-0.06	3.5e-4	0.02	-0.1	-0.07	-0.06	-0.04	-0.01	4091	1.0
y_mean[1661]	-0.12	4.8e-4	0.03	-0.17	-0.14	-0.12	-0.1	-0.07	3124	1.0
y_mean[1662]	3.27	3.5e-3	0.19	2.9	3.14	3.27	3.4	3.65	2987	1.0
y_mean[1663]	-0.74	6.1e-4	0.04	-0.81	-0.76	-0.74	-0.71	-0.66	3948	1.0
y_mean[1664]	0.65	4.8e-4	0.04	0.58	0.63	0.65	0.67	0.72	5518	1.0
y_mean[1665]	-0.23	5.7e-4	0.03	-0.29	-0.25	-0.23	-0.21	-0.17	2631	1.0
y_mean[1666]	-0.36	4.6e-4	0.02	-0.41	-0.38	-0.36	-0.34	-0.31	2920	1.0
y_mean[1667]	-0.57	5.1e-4	0.03	-0.63	-0.59	-0.57	-0.55	-0.51	3233	1.0
y_mean[1668]	0.31	5.2e-4	0.04	0.24	0.28	0.31	0.34	0.39	5645	1.0
y_mean[1669]	-0.2	7.6e-4	0.04	-0.27	-0.22	-0.2	-0.17	-0.13	2283	1.0
y_mean[1670]	-0.46	1.2e-3	0.06	-0.59	-0.51	-0.46	-0.42	-0.34	2544	1.0
y_mean[1671]	-0.23	7.3e-4	0.03	-0.29	-0.25	-0.23	-0.2	-0.16	2270	1.0
y_mean[1672]	-0.46	4.1e-4	0.03	-0.51	-0.48	-0.46	-0.44	-0.41	3861	1.0
y_mean[1673]	-0.3	9.2e-4	0.06	-0.42	-0.34	-0.3	-0.26	-0.18	4225	1.0
y_mean[1674]	-0.43	4.3e-4	0.03	-0.49	-0.45	-0.43	-0.41	-0.38	4299	1.0
y_mean[1675]	-0.58	5.5e-4	0.03	-0.65	-0.6	-0.58	-0.56	-0.52	3245	1.0
y_mean[1676]	-0.74	7.9e-4	0.04	-0.82	-0.77	-0.74	-0.71	-0.65	3158	1.0
y_mean[1677]	-0.56	4.6e-4	0.03	-0.61	-0.58	-0.56	-0.54	-0.51	3296	1.0
y_mean[1678]	-0.51	3.8e-4	0.02	-0.56	-0.53	-0.51	-0.5	-0.47	3567	1.0
y_mean[1679]	-0.18	1.2e-3	0.06	-0.3	-0.22	-0.18	-0.14	-0.06	2639	1.0
y_mean[1680]	-0.45	4.1e-4	0.03	-0.5	-0.47	-0.45	-0.43	-0.4	4118	1.0
y_mean[1681]	2.47	1.4e-3	0.11	2.25	2.39	2.47	2.54	2.7	6286	1.0
y_mean[1682]	-0.61	9.2e-4	0.05	-0.7	-0.64	-0.61	-0.58	-0.52	2672	1.0
y_mean[1683]	-0.14	4.8e-4	0.03	-0.2	-0.16	-0.14	-0.12	-0.08	3911	1.0
y_mean[1684]	-0.34	3.4e-4	0.02	-0.38	-0.35	-0.34	-0.32	-0.3	3968	1.0
y_mean[1685]	-0.81	7.4e-4	0.05	-0.91	-0.84	-0.81	-0.78	-0.72	3822	1.0
y_mean[1686]	2.14	1.1e-3	0.08	1.99	2.08	2.14	2.19	2.28	4651	1.0
y_mean[1687]	-0.5	5.9e-4	0.03	-0.56	-0.52	-0.5	-0.48	-0.44	2779	1.0
y_mean[1688]	-0.8	6.4e-4	0.04	-0.88	-0.83	-0.8	-0.77	-0.72	3943	1.0
y_mean[1689]	-0.16	4.0e-4	0.03	-0.21	-0.18	-0.16	-0.15	-0.11	4062	1.0
y_mean[1690]	0.56	6.8e-4	0.04	0.48	0.54	0.56	0.59	0.64	3500	1.0

y_mean[1691]	3.75	2.5e-3	0.17	3.43	3.64	3.76	3.86	4.07	4258	1.0
y_mean[1692]	0.47	5.0e-4	0.03	0.41	0.45	0.47	0.5	0.54	4518	1.0
y_mean[1693]	-0.48	4.2e-4	0.02	-0.53	-0.5	-0.48	-0.47	-0.44	3165	1.0
y_mean[1694]	0.02	4.8e-4	0.03	-0.03	5.2e-3	0.02	0.04	0.08	3843	1.0
y_mean[1695]	-0.75	6.9e-4	0.04	-0.83	-0.78	-0.75	-0.73	-0.67	3291	1.0
y_mean[1696]	-0.54	5.6e-4	0.03	-0.6	-0.56	-0.54	-0.52	-0.48	2996	1.0
y_mean[1697]	1.54	9.8e-4	0.06	1.42	1.5	1.54	1.58	1.67	4206	1.0
y_mean[1698]	0.52	4.5e-4	0.03	0.47	0.5	0.52	0.55	0.59	4780	1.0
y_mean[1699]	-1.9e-3	6.5e-4	0.04	-0.09	-0.03	-1.7e-3	0.03	0.08	4216	1.0
y_mean[1700]	-0.21	6.8e-4	0.04	-0.3	-0.24	-0.21	-0.18	-0.12	4162	1.0
y_mean[1701]	0.12	4.7e-4	0.03	0.07	0.1	0.12	0.13	0.17	3001	1.0
y_mean[1702]	-0.27	6.7e-4	0.04	-0.35	-0.3	-0.27	-0.24	-0.19	3683	1.0
y_mean[1703]	-0.52	4.7e-4	0.03	-0.57	-0.54	-0.52	-0.51	-0.47	2890	1.0
y_mean[1704]	-8.4e-3	3.9e-4	0.02	-0.06	-0.02	-8.4e-3	7.1e-3	0.04	3806	1.0
y_mean[1705]	-0.2	4.8e-4	0.03	-0.25	-0.22	-0.2	-0.18	-0.14	3341	1.0
y_mean[1706]	-0.49	1.1e-3	0.05	-0.59	-0.52	-0.49	-0.45	-0.38	2373	1.0
y_mean[1707]	0.12	5.6e-4	0.04	0.05	0.1	0.12	0.14	0.19	4068	1.0
y_mean[1708]	3.09	1.7e-3	0.11	2.87	3.02	3.09	3.16	3.3	4095	1.0
y_mean[1709]	0.03	5.0e-4	0.03	-0.02	9.7e-3	0.03	0.05	0.08	2885	1.0
y_mean[1710]	-0.78	5.9e-4	0.04	-0.86	-0.8	-0.78	-0.75	-0.71	4060	1.0
y_mean[1711]	0.48	7.0e-4	0.05	0.39	0.45	0.48	0.51	0.58	4860	1.0
y_mean[1712]	0.5	4.8e-4	0.03	0.43	0.48	0.5	0.52	0.56	4567	1.0
y_mean[1713]	-0.32	5.4e-4	0.03	-0.38	-0.34	-0.32	-0.31	-0.27	2497	1.0
y_mean[1714]	-0.57	5.1e-4	0.03	-0.63	-0.59	-0.57	-0.55	-0.52	3223	1.0
y_mean[1715]	0.61	4.7e-4	0.03	0.54	0.58	0.61	0.63	0.67	4689	1.0
y_mean[1716]	-0.5	3.8e-4	0.02	-0.55	-0.51	-0.5	-0.48	-0.45	3927	1.0
y_mean[1717]	-0.28	9.6e-4	0.04	-0.36	-0.31	-0.28	-0.25	-0.19	2005	1.0
y_mean[1718]	2.56	1.5e-3	0.1	2.36	2.49	2.56	2.62	2.75	4491	1.0
y_mean[1719]	-0.15	6.3e-4	0.03	-0.22	-0.18	-0.15	-0.13	-0.09	2616	1.0
y_mean[1720]	2.92	3.0e-3	0.18	2.54	2.8	2.92	3.04	3.28	3729	1.0
y_mean[1721]	-0.48	4.2e-4	0.02	-0.52	-0.5	-0.48	-0.46	-0.43	3314	1.0
y_mean[1722]	-0.33	5.3e-4	0.03	-0.39	-0.35	-0.33	-0.31	-0.28	2596	1.0
y_mean[1723]	-0.57	4.8e-4	0.03	-0.62	-0.59	-0.57	-0.55	-0.51	3246	1.0
y_mean[1724]	0.13	5.4e-4	0.04	0.06	0.11	0.13	0.15	0.2	4277	1.0
y_mean[1725]	0.06	5.5e-4	0.03	-8.0e-3	0.04	0.06	0.08	0.13	4020	1.0
y_mean[1726]	0.35	4.1e-4	0.03	0.3	0.33	0.35	0.37	0.41	4712	1.0
y_mean[1727]	-0.14	6.6e-4	0.04	-0.21	-0.16	-0.13	-0.11	-0.06	3356	1.0
y_mean[1728]	1.34	6.5e-4	0.05	1.24	1.31	1.34	1.37	1.44	5566	1.0
y_mean[1729]	3.21	2.3e-3	0.14	2.94	3.12	3.21	3.31	3.48	3493	1.0
y_mean[1730]	-0.6	1.0e-3	0.05	-0.7	-0.63	-0.6	-0.56	-0.5	2369	1.0
y_mean[1731]	0.11	6.2e-4	0.04	0.03	0.08	0.11	0.14	0.2	4700	1.0
y_mean[1732]	-0.4	7.5e-4	0.04	-0.47	-0.42	-0.4	-0.37	-0.33	2469	1.0
y_mean[1733]	-0.08	4.3e-4	0.03	-0.13	-0.09	-0.08	-0.06	-0.03	3649	1.0
y_mean[1734]	-0.49	3.8e-4	0.02	-0.54	-0.51	-0.49	-0.47	-0.44	4084	1.0
y_mean[1735]	-0.58	5.6e-4	0.03	-0.64	-0.6	-0.58	-0.55	-0.51	3300	1.0
y_mean[1736]	-0.55	4.1e-4	0.02	-0.59	-0.56	-0.55	-0.53	-0.5	3305	1.0
y_mean[1737]	-0.73	7.8e-4	0.04	-0.81	-0.76	-0.73	-0.7	-0.64	3146	1.0
y_mean[1738]	-0.33	8.5e-4	0.05	-0.43	-0.37	-0.33	-0.3	-0.23	3394	1.0

y_mean[1739]	0.06	3.7e-4	0.02	9.5e-3	0.04	0.06	0.07	0.1	4206	1.0
y_mean[1740]	-0.35	5.4e-4	0.03	-0.42	-0.37	-0.35	-0.33	-0.28	3932	1.0
y_mean[1741]	-0.46	6.7e-4	0.04	-0.53	-0.48	-0.46	-0.44	-0.39	2775	1.0
y_mean[1742]	0.03	3.9e-4	0.02	-0.02	0.01	0.03	0.05	0.08	4017	1.0
y_mean[1743]	1.03	4.8e-4	0.03	0.96	1.0	1.03	1.05	1.09	5053	1.0
y_mean[1744]	-0.61	8.0e-4	0.05	-0.7	-0.64	-0.61	-0.58	-0.52	3163	1.0
y_mean[1745]	-0.57	4.7e-4	0.03	-0.62	-0.58	-0.57	-0.55	-0.51	3248	1.0
y_mean[1746]	0.65	4.9e-4	0.03	0.59	0.63	0.65	0.67	0.72	4505	1.0
y_mean[1747]	5.75	5.5e-3	0.4	4.98	5.48	5.76	6.02	6.52	5328	1.0
y_mean[1748]	0.96	8.5e-4	0.06	0.84	0.93	0.96	1.0	1.08	4758	1.0
y_mean[1749]	0.54	5.0e-4	0.04	0.47	0.51	0.54	0.56	0.61	5255	1.0
y_mean[1750]	0.59	4.4e-4	0.03	0.53	0.57	0.59	0.61	0.65	5198	1.0
y_mean[1751]	-0.24	5.2e-4	0.03	-0.3	-0.26	-0.24	-0.22	-0.18	3659	1.0
y_mean[1752]	1.0	9.7e-4	0.06	0.88	0.96	1.0	1.04	1.13	4379	1.0
y_mean[1753]	-0.75	6.0e-4	0.04	-0.82	-0.78	-0.75	-0.73	-0.68	3813	1.0
y_mean[1754]	8.3e-3	4.7e-4	0.03	-0.05	-0.01	7.9e-3	0.03	0.07	3839	1.0
y_mean[1755]	0.08	4.0e-4	0.03	0.03	0.06	0.08	0.1	0.13	4309	1.0
y_mean[1756]	-0.65	2.5e-3	0.16	-0.96	-0.75	-0.65	-0.54	-0.35	3762	1.0
y_mean[1757]	0.72	6.0e-4	0.04	0.64	0.69	0.72	0.75	0.81	4869	1.0
y_mean[1758]	-0.2	1.0e-3	0.05	-0.3	-0.23	-0.2	-0.17	-0.11	2130	1.0
y_mean[1759]	0.19	6.1e-4	0.03	0.13	0.17	0.19	0.21	0.25	2800	1.0
y_mean[1760]	-0.47	9.3e-4	0.05	-0.57	-0.5	-0.47	-0.43	-0.37	2797	1.0
y_mean[1761]	-0.53	5.3e-4	0.03	-0.58	-0.54	-0.53	-0.51	-0.47	2852	1.0
y_mean[1762]	0.29	4.8e-4	0.04	0.23	0.27	0.29	0.32	0.37	5439	1.0
y_mean[1763]	0.26	3.9e-4	0.03	0.21	0.24	0.26	0.28	0.32	5091	1.0
y_mean[1764]	-0.3	6.9e-4	0.04	-0.38	-0.33	-0.3	-0.28	-0.23	2921	1.0
y_mean[1765]	1.46	7.8e-4	0.05	1.36	1.42	1.46	1.49	1.56	4063	1.0
y_mean[1766]	2.57	1.7e-3	0.12	2.33	2.48	2.57	2.65	2.8	5159	1.0
y_mean[1767]	-0.33	7.7e-4	0.04	-0.4	-0.35	-0.33	-0.3	-0.26	2413	1.0
y_mean[1768]	-0.2	4.4e-4	0.03	-0.25	-0.21	-0.2	-0.18	-0.14	3608	1.0
y_mean[1769]	-0.28	1.1e-3	0.05	-0.37	-0.31	-0.28	-0.25	-0.19	1929	1.0
y_mean[1770]	-0.44	5.3e-4	0.03	-0.5	-0.46	-0.44	-0.42	-0.39	2919	1.0
y_mean[1771]	1.46	6.9e-4	0.05	1.37	1.43	1.46	1.49	1.56	4800	1.0
y_mean[1772]	-8.1e-3	5.0e-4	0.03	-0.06	-0.03	-8.5e-3	0.01	0.05	3065	1.0
y_mean[1773]	0.29	7.9e-4	0.04	0.22	0.27	0.29	0.32	0.37	2336	1.0
y_mean[1774]	-0.58	5.3e-4	0.03	-0.64	-0.6	-0.58	-0.56	-0.52	3245	1.0
y_mean[1775]	-0.07	4.9e-4	0.03	-0.14	-0.1	-0.07	-0.05	-0.01	4410	1.0
y_mean[1776]	-0.12	1.0e-3	0.05	-0.21	-0.15	-0.12	-0.09	-0.03	2108	1.0
y_mean[1777]	-0.59	5.8e-4	0.03	-0.65	-0.61	-0.59	-0.56	-0.52	3242	1.0
y_mean[1778]	0.83	8.2e-4	0.05	0.73	0.8	0.83	0.87	0.93	3991	1.0
y_mean[1779]	0.83	6.8e-4	0.05	0.74	0.8	0.83	0.86	0.92	4635	1.0
y_mean[1780]	-0.23	4.9e-4	0.03	-0.29	-0.25	-0.23	-0.21	-0.17	3620	1.0
y_mean[1781]	-0.72	7.7e-4	0.04	-0.81	-0.75	-0.72	-0.69	-0.64	3159	1.0
y_mean[1782]	-0.75	6.1e-4	0.04	-0.83	-0.77	-0.75	-0.72	-0.67	4069	1.0
y_mean[1783]	-0.6	7.9e-4	0.05	-0.69	-0.63	-0.6	-0.57	-0.51	3361	1.0
y_mean[1784]	-0.8	6.9e-4	0.04	-0.89	-0.83	-0.8	-0.77	-0.71	3965	1.0
y_mean[1785]	0.18	5.8e-4	0.04	0.1	0.15	0.18	0.21	0.27	5663	1.0
y_mean[1786]	5.5e-3	4.5e-4	0.03	-0.05	-0.01	5.1e-3	0.02	0.06	4082	1.0

y_mean[1787]	-0.38	5.9e-4	0.03	-0.44	-0.4	-0.38	-0.36	-0.32	2918	1.0
y_mean[1788]	0.66	6.5e-4	0.05	0.57	0.63	0.66	0.69	0.75	4812	1.0
y_mean[1789]	0.37	8.5e-4	0.04	0.29	0.34	0.37	0.39	0.44	2270	1.0
y_mean[1790]	0.3	5.0e-4	0.04	0.23	0.27	0.29	0.32	0.37	4861	1.0
y_mean[1791]	-0.61	7.7e-4	0.04	-0.69	-0.63	-0.61	-0.58	-0.53	2908	1.0
y_mean[1792]	0.22	6.0e-4	0.04	0.15	0.2	0.22	0.25	0.29	3468	1.0
y_mean[1793]	-0.57	5.3e-4	0.03	-0.63	-0.59	-0.57	-0.55	-0.51	3305	1.0
y_mean[1794]	0.92	7.7e-4	0.05	0.81	0.88	0.92	0.95	1.02	4746	1.0
y_mean[1795]	-0.55	5.4e-4	0.03	-0.61	-0.57	-0.55	-0.53	-0.49	3052	1.0
y_mean[1796]	-0.26	5.9e-4	0.04	-0.33	-0.29	-0.26	-0.24	-0.19	3554	1.0
y_mean[1797]	-0.55	5.4e-4	0.03	-0.61	-0.57	-0.55	-0.53	-0.48	3937	1.0
y_mean[1798]	0.94	8.2e-4	0.06	0.82	0.9	0.94	0.98	1.07	5829	1.0
y_mean[1799]	-0.53	4.9e-4	0.03	-0.58	-0.55	-0.53	-0.51	-0.48	2889	1.0
y_mean[1800]	0.27	5.6e-4	0.03	0.21	0.25	0.27	0.29	0.33	2852	1.0
ypred[1]	0.08	0.01	0.65	-1.17	-0.36	0.07	0.5	1.37	4089	1.0
ypred[2]	-0.53	0.01	0.64	-1.8	-0.97	-0.52	-0.1	0.76	3877	1.0
ypred[3]	-0.17	0.01	0.64	-1.38	-0.61	-0.19	0.27	1.09	4076	1.0
ypred[4]	-0.58	0.01	0.66	-1.82	-1.03	-0.59	-0.16	0.76	3848	1.0
ypred[5]	-0.13	0.01	0.66	-1.44	-0.57	-0.13	0.31	1.17	3815	1.0
ypred[6]	-0.57	0.01	0.67	-1.87	-1.0	-0.57	-0.12	0.76	4094	1.0
ypred[7]	0.87	0.01	0.64	-0.36	0.43	0.87	1.3	2.12	3926	1.0
ypred[8]	-0.54	0.01	0.65	-1.83	-0.97	-0.56	-0.11	0.77	3781	1.0
ypred[9]	-0.41	0.01	0.66	-1.68	-0.87	-0.41	0.02	0.9	3888	1.0
ypred[10]	0.92	0.01	0.65	-0.38	0.48	0.92	1.35	2.21	3943	1.0
ypred[11]	1.14	0.01	0.65	-0.14	0.7	1.15	1.59	2.41	3983	1.0
ypred[12]	-0.5	0.01	0.65	-1.73	-0.95	-0.5	-0.07	0.76	3967	1.0
ypred[13]	-0.02	0.01	0.66	-1.26	-0.47	-0.02	0.43	1.27	3322	1.0
ypred[14]	-0.12	9.6e-3	0.64	-1.35	-0.55	-0.11	0.31	1.14	4388	1.0
ypred[15]	-0.8	0.01	0.65	-2.08	-1.23	-0.8	-0.35	0.47	3987	1.0
ypred[16]	0.71	9.8e-3	0.65	-0.54	0.27	0.71	1.15	1.97	4295	1.0
ypred[17]	1.21	0.01	0.65	-0.08	0.78	1.21	1.64	2.46	4089	1.0
ypred[18]	0.09	0.01	0.64	-1.17	-0.36	0.08	0.53	1.31	4029	1.0
ypred[19]	1.27	0.01	0.65	5.0e-3	0.83	1.27	1.71	2.54	3280	1.0
ypred[20]	-0.49	0.01	0.66	-1.81	-0.93	-0.49	-0.05	0.82	3855	1.0
ypred[21]	-0.58	0.01	0.65	-1.9	-1.0	-0.58	-0.13	0.65	4034	1.0
ypred[22]	-0.27	0.01	0.65	-1.52	-0.7	-0.27	0.18	1.01	3849	1.0
ypred[23]	0.11	0.01	0.67	-1.19	-0.35	0.11	0.56	1.42	4342	1.0
ypred[24]	-0.09	0.01	0.66	-1.34	-0.55	-0.08	0.36	1.19	3585	1.0
ypred[25]	0.06	0.01	0.65	-1.19	-0.39	0.06	0.5	1.32	4145	1.0
ypred[26]	-0.41	0.01	0.66	-1.68	-0.86	-0.41	0.05	0.86	3850	1.0
ypred[27]	-0.25	0.01	0.64	-1.52	-0.67	-0.25	0.18	1.04	4115	1.0
ypred[28]	-0.12	0.01	0.65	-1.41	-0.56	-0.13	0.32	1.16	4018	1.0
ypred[29]	-0.54	0.01	0.65	-1.82	-0.98	-0.55	-0.11	0.77	3946	1.0
ypred[30]	-0.28	0.01	0.64	-1.52	-0.71	-0.29	0.14	1.0	4018	1.0
ypred[31]	-0.03	0.01	0.64	-1.26	-0.47	-0.03	0.4	1.26	3963	1.0
ypred[32]	1.43	0.01	0.67	0.13	0.98	1.43	1.89	2.73	4178	1.0
ypred[33]	-0.13	9.9e-3	0.64	-1.39	-0.57	-0.13	0.3	1.1	4229	1.0
ypred[34]	-0.58	0.01	0.65	-1.85	-1.01	-0.59	-0.14	0.72	3544	1.0

ypred[35]	-0.15	0.01	0.65	-1.45	-0.59	-0.14	0.31	1.08	2852	1.0
ypred[36]	-0.22	0.01	0.65	-1.53	-0.68	-0.19	0.22	1.01	3611	1.0
ypred[37]	-0.47	0.01	0.66	-1.74	-0.92	-0.46	-0.01	0.84	3911	1.0
ypred[38]	-0.06	0.01	0.65	-1.35	-0.49	-0.05	0.38	1.21	3977	1.0
ypred[39]	2.47	0.01	0.66	1.15	2.01	2.47	2.91	3.78	4141	1.0
ypred[40]	-0.53	0.01	0.65	-1.77	-0.99	-0.53	-0.09	0.74	4087	1.0
ypred[41]	-0.37	0.01	0.66	-1.66	-0.81	-0.37	0.08	0.92	3701	1.0
ypred[42]	-0.52	0.01	0.65	-1.77	-0.95	-0.51	-0.07	0.75	3879	1.0
ypred[43]	0.48	0.01	0.66	-0.81	0.03	0.48	0.94	1.78	3599	1.0
ypred[44]	-0.4	9.8e-3	0.64	-1.67	-0.82	-0.4	0.04	0.88	4299	1.0
ypred[45]	-0.59	9.9e-3	0.64	-1.87	-1.02	-0.58	-0.15	0.66	4193	1.0
ypred[46]	-0.16	0.01	0.66	-1.47	-0.6	-0.17	0.27	1.19	3550	1.0
ypred[47]	-0.52	0.01	0.66	-1.84	-0.96	-0.53	-0.1	0.77	3895	1.0
ypred[48]	-0.21	0.01	0.66	-1.5	-0.66	-0.23	0.24	1.08	4021	1.0
ypred[49]	-0.26	0.01	0.67	-1.57	-0.71	-0.27	0.18	1.05	4072	1.0
ypred[50]	-0.55	0.01	0.66	-1.83	-1.0	-0.56	-0.1	0.74	4174	1.0
ypred[51]	-0.46	0.01	0.64	-1.74	-0.9	-0.47	-0.03	0.8	3647	1.0
ypred[52]	-0.06	0.01	0.65	-1.31	-0.5	-0.06	0.39	1.23	4107	1.0
ypred[53]	-0.78	0.01	0.65	-2.04	-1.22	-0.78	-0.35	0.5	3990	1.0
ypred[54]	-0.61	0.01	0.65	-1.9	-1.04	-0.6	-0.18	0.64	4123	1.0
ypred[55]	-0.76	0.01	0.63	-2.0	-1.18	-0.77	-0.35	0.54	4003	1.0
ypred[56]	0.99	0.01	0.64	-0.26	0.57	0.98	1.42	2.23	3696	1.0
ypred[57]	0.96	0.01	0.65	-0.34	0.54	0.97	1.38	2.25	3955	1.0
ypred[58]	0.21	0.01	0.65	-1.06	-0.22	0.2	0.65	1.48	3915	1.0
ypred[59]	-0.25	0.01	0.66	-1.51	-0.71	-0.26	0.2	1.06	3849	1.0
ypred[60]	-0.54	0.01	0.64	-1.78	-0.98	-0.55	-0.1	0.76	3970	1.0
ypred[61]	-0.38	0.01	0.66	-1.68	-0.84	-0.38	0.07	0.92	3943	1.0
ypred[62]	0.75	0.01	0.65	-0.53	0.31	0.75	1.21	2.0	3665	1.0
ypred[63]	-0.78	0.01	0.65	-2.05	-1.22	-0.78	-0.35	0.48	3671	1.0
ypred[64]	-0.75	0.01	0.65	-2.08	-1.19	-0.74	-0.32	0.52	4145	1.0
ypred[65]	-0.09	0.01	0.66	-1.39	-0.52	-0.09	0.35	1.19	3997	1.0
ypred[66]	-0.57	0.01	0.63	-1.82	-1.0	-0.56	-0.12	0.63	3965	1.0
ypred[67]	-0.58	0.01	0.65	-1.85	-1.02	-0.58	-0.14	0.67	3786	1.0
ypred[68]	-0.14	0.01	0.65	-1.43	-0.58	-0.14	0.31	1.08	3981	1.0
ypred[69]	-0.01	0.01	0.65	-1.28	-0.44	-0.01	0.41	1.24	3828	1.0
ypred[70]	-0.31	0.01	0.66	-1.6	-0.74	-0.31	0.14	0.97	3960	1.0
ypred[71]	-0.55	0.01	0.65	-1.8	-0.99	-0.54	-0.11	0.75	3918	1.0
ypred[72]	-0.45	0.01	0.64	-1.7	-0.89	-0.44	-0.02	0.8	3936	1.0
ypred[73]	-0.78	0.01	0.66	-2.1	-1.21	-0.78	-0.34	0.52	4157	1.0
ypred[74]	-0.76	0.01	0.65	-2.04	-1.19	-0.76	-0.33	0.48	4172	1.0
ypred[75]	0.16	0.01	0.64	-1.13	-0.27	0.16	0.6	1.37	3853	1.0
ypred[76]	-0.76	9.9e-3	0.64	-2.05	-1.2	-0.76	-0.33	0.51	4187	1.0
ypred[77]	-0.02	0.01	0.65	-1.26	-0.47	-0.01	0.41	1.23	4061	1.0
ypred[78]	-0.19	0.01	0.65	-1.45	-0.63	-0.21	0.24	1.11	4034	1.0
ypred[79]	-0.76	0.01	0.65	-2.02	-1.21	-0.76	-0.32	0.52	4022	1.0
ypred[80]	-0.51	0.01	0.65	-1.81	-0.94	-0.51	-0.07	0.76	4146	1.0
ypred[81]	-0.33	0.01	0.64	-1.58	-0.76	-0.33	0.1	0.94	3754	1.0
ypred[82]	-0.13	9.9e-3	0.65	-1.39	-0.57	-0.13	0.3	1.14	4242	1.0

ypred[83]	0.05	0.01	0.65	-1.2	-0.37	0.04	0.49	1.31	4022	1.0
ypred[84]	0.05	0.01	0.64	-1.2	-0.4	0.05	0.49	1.29	3961	1.0
ypred[85]	0.23	0.01	0.65	-1.0	-0.2	0.23	0.66	1.5	3897	1.0
ypred[86]	-0.38	0.01	0.65	-1.65	-0.81	-0.37	0.06	0.89	3738	1.0
ypred[87]	-0.48	0.01	0.65	-1.75	-0.94	-0.49	-0.04	0.79	3832	1.0
ypred[88]	-0.28	0.01	0.66	-1.55	-0.72	-0.26	0.17	1.01	3884	1.0
ypred[89]	-0.53	0.01	0.65	-1.81	-0.96	-0.53	-0.08	0.73	4005	1.0
ypred[90]	-0.12	0.01	0.65	-1.41	-0.57	-0.13	0.33	1.13	3708	1.0
ypred[91]	-0.35	0.01	0.65	-1.64	-0.78	-0.35	0.09	0.91	3992	1.0
ypred[92]	-0.73	0.01	0.66	-2.02	-1.2	-0.73	-0.28	0.55	3988	1.0
ypred[93]	-0.45	0.01	0.65	-1.76	-0.87	-0.45	-0.01	0.81	4033	1.0
ypred[94]	-0.41	0.01	0.65	-1.69	-0.84	-0.4	0.02	0.86	4123	1.0
ypred[95]	0.14	0.01	0.64	-1.11	-0.3	0.15	0.57	1.41	3879	1.0
ypred[96]	-0.23	0.01	0.65	-1.46	-0.69	-0.22	0.23	1.06	4140	1.0
ypred[97]	0.94	0.01	0.67	-0.35	0.49	0.95	1.39	2.27	3863	1.0
ypred[98]	-0.42	0.01	0.65	-1.68	-0.86	-0.43	0.03	0.86	3591	1.0
ypred[99]	-0.31	0.01	0.65	-1.56	-0.75	-0.3	0.13	0.97	3683	1.0
ypred[100]	-0.72	0.01	0.67	-2.03	-1.18	-0.73	-0.28	0.64	3895	1.0
ypred[101]	-0.06	0.01	0.65	-1.36	-0.5	-0.05	0.38	1.24	4063	1.0
ypred[102]	-0.21	0.01	0.65	-1.49	-0.66	-0.21	0.23	1.06	3997	1.0
ypred[103]	0.42	0.01	0.64	-0.83	3.4e-4	0.42	0.86	1.65	3527	1.0
ypred[104]	-0.23	0.01	0.66	-1.5	-0.68	-0.23	0.22	1.04	4318	1.0
ypred[105]	-0.53	9.9e-3	0.64	-1.77	-0.97	-0.54	-0.1	0.74	4158	1.0
ypred[106]	-0.47	0.01	0.64	-1.75	-0.89	-0.46	-0.03	0.79	3473	1.0
ypred[107]	-0.14	0.01	0.64	-1.42	-0.58	-0.15	0.28	1.14	4022	1.0
ypred[108]	0.31	0.01	0.66	-0.96	-0.14	0.31	0.76	1.6	4196	1.0
ypred[109]	2.76	0.01	0.64	1.45	2.34	2.76	3.18	4.02	3701	1.0
ypred[110]	1.5	9.9e-3	0.65	0.23	1.07	1.51	1.96	2.76	4272	1.0
ypred[111]	-0.42	0.01	0.66	-1.73	-0.85	-0.41	0.02	0.87	3839	1.0
ypred[112]	-0.15	0.01	0.65	-1.43	-0.58	-0.14	0.29	1.1	3898	1.0
ypred[113]	-0.53	0.01	0.66	-1.84	-0.97	-0.54	-0.1	0.72	3752	1.0
ypred[114]	-0.6	0.01	0.64	-1.89	-1.03	-0.61	-0.17	0.65	3888	1.0
ypred[115]	0.24	0.01	0.65	-1.02	-0.21	0.24	0.68	1.53	3960	1.0
ypred[116]	0.31	0.01	0.65	-0.99	-0.13	0.31	0.74	1.55	3826	1.0
ypred[117]	-0.03	0.01	0.65	-1.33	-0.46	-0.04	0.42	1.23	4023	1.0
ypred[118]	1.42	0.01	0.65	0.12	0.98	1.42	1.85	2.71	3994	1.0
ypred[119]	-0.17	9.8e-3	0.65	-1.44	-0.63	-0.17	0.27	1.1	4319	1.0
ypred[120]	-0.2	0.01	0.66	-1.53	-0.65	-0.21	0.24	1.1	3925	1.0
ypred[121]	-0.53	0.01	0.65	-1.81	-0.96	-0.52	-0.1	0.75	4028	1.0
ypred[122]	-0.11	0.01	0.66	-1.43	-0.53	-0.11	0.32	1.18	4089	1.0
ypred[123]	1.77	0.01	0.66	0.51	1.33	1.78	2.21	3.07	3921	1.0
ypred[124]	-0.44	0.01	0.66	-1.71	-0.87	-0.43	-7.7e-3	0.85	3839	1.0
ypred[125]	0.07	0.01	0.63	-1.23	-0.36	0.07	0.49	1.29	4000	1.0
ypred[126]	-0.69	0.01	0.65	-1.97	-1.13	-0.68	-0.24	0.58	4038	1.0
ypred[127]	-0.21	0.01	0.65	-1.48	-0.65	-0.21	0.23	1.06	4141	1.0
ypred[128]	-0.48	0.01	0.65	-1.74	-0.93	-0.48	-0.04	0.81	4192	1.0
ypred[129]	0.83	0.01	0.65	-0.41	0.38	0.84	1.26	2.08	4057	1.0
ypred[130]	-0.09	0.01	0.65	-1.36	-0.54	-0.08	0.34	1.14	3975	1.0

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ypred[131]     -0.63    0.01    0.65    -1.91   -1.07   -0.64   -0.18   0.66    3575    1.0
ypred[132]     -0.44    0.01    0.66    -1.73   -0.88   -0.44   3.4e-3  0.84    4171    1.0
ypred[133]      0.68    0.01    0.65    -0.56    0.24    0.69    1.12    1.96    3726    1.0
ypred[134]     -0.38    0.01    0.65    -1.68   -0.82   -0.39   0.04    0.89    3562    1.0
ypred[135]     -0.09    0.01    0.66    -1.4    -0.53   -0.07   0.36    1.17    3660    1.0
ypred[136]      0.37    0.01    0.65    -0.88   -0.06    0.34    0.8     1.7     4016    1.0
ypred[137]     -0.14    0.01    0.66    -1.48   -0.6    -0.14   0.31    1.12    4335    1.0
ypred[138]      2.99    0.01    0.64     1.75    2.56    2.99    3.41    4.28    3639    1.0
ypred[139]     -0.77    0.01    0.64    -1.99   -1.21   -0.77   -0.35   0.48    3823    1.0
ypred[140]     -0.23    0.01    0.65    -1.5    -0.66   -0.23   0.22    1.04    3597    1.0
ypred[141]     -0.78    0.01    0.64    -2.02   -1.21   -0.78   -0.34   0.48    3815    1.0
ypred[142]     -0.12    0.01    0.65    -1.37   -0.55   -0.12   0.31    1.16    4066    1.0
ypred[143]      0.11    0.01    0.66    -1.17   -0.33    0.09    0.55    1.41    4061    1.0
ypred[144]     -0.54    0.01    0.64    -1.78   -0.98   -0.55   -0.13   0.75    3877    1.0
ypred[145]      0.01    0.01    0.66    -1.25   -0.43    0.02    0.47    1.31    4066    1.0
ypred[146]     -0.21    0.01    0.65    -1.48   -0.65   -0.21   0.23    1.04    4085    1.0
ypred[147]     -0.22    0.01    0.65    -1.47   -0.66   -0.24   0.22    1.08    4057    1.0
ypred[148]      0.26    0.01    0.64    -0.94   -0.17    0.25    0.68    1.56    3734    1.0
ypred[149]      0.96    0.01    0.66    -0.36    0.52    0.97    1.41    2.24    3900    1.0
ypred[150]      0.23    0.01    0.64    -1.02   -0.19    0.24    0.65    1.48    3961    1.0
ypred[151]      1.32    9.9e-3   0.65     0.05    0.88    1.31    1.75    2.6     4327    1.0
ypred[152]     -0.43    0.01    0.66    -1.74   -0.87   -0.43   0.01    0.85    3994    1.0
ypred[153]      1.7     0.01    0.64     0.45    1.25    1.69    2.13    2.96    3845    1.0
ypred[154]     -0.51    0.01    0.64    -1.75   -0.94   -0.5    -0.1    0.75    3935    1.0
ypred[155]      0.08    0.01    0.65    -1.19   -0.36    0.1     0.52    1.34    4014    1.0
ypred[156]      1.83    0.01    0.64     0.56    1.4     1.83    2.27    3.08    3565    1.0
ypred[157]     -0.77    0.01    0.65    -2.06   -1.22   -0.77   -0.34   0.54    4035    1.0
ypred[158]      0.85    0.01    0.66    -0.46    0.41    0.85    1.28    2.15    3715    1.0
ypred[159]     -0.21    0.01    0.65    -1.47   -0.65   -0.22   0.22    1.09    3730    1.0
ypred[160]     -0.77    0.01    0.64    -2.03   -1.18   -0.77   -0.34   0.47    3957    1.0
ypred[161]     -0.53    0.01    0.65    -1.75   -0.97   -0.53   -0.1    0.79    4049    1.0
ypred[162]     -0.42    0.01    0.65    -1.7    -0.87   -0.42   0.02    0.86    3925    1.0
ypred[163]      0.39    0.01    0.64    -0.85   -0.04    0.38    0.84    1.68    3895    1.0
ypred[164]      0.48    0.01    0.65    -0.82    0.04    0.48    0.92    1.76    3923    1.0
ypred[165]     -0.19    0.01    0.65    -1.44   -0.64   -0.19   0.24    1.08    3956    1.0
ypred[166]     -0.48    0.01    0.66    -1.76   -0.92   -0.49   -0.04   0.83    4114    1.0
ypred[167]     -0.56    0.01    0.66    -1.86   -1.0    -0.56   -0.1    0.73    3857    1.0
ypred[168]     -0.2     0.01    0.64    -1.45   -0.65   -0.21   0.23    1.06    4011    1.0
ypred[169]      0.11    0.01    0.65    -1.14   -0.34    0.1     0.55    1.36    4019    1.0
ypred[170]     -0.17    0.01    0.64    -1.41   -0.61   -0.17   0.25    1.09    3975    1.0
ypred[171]     -0.32    0.01    0.65    -1.64   -0.74   -0.32   0.1     0.96    3833    1.0
ypred[172]     -0.8     0.01    0.64    -2.06   -1.22   -0.79   -0.36   0.46    3890    1.0
ypred[173]     -0.51    9.9e-3   0.64    -1.74   -0.94   -0.52   -0.08   0.75    4180    1.0
ypred[174]     -0.57    0.01    0.64    -1.83   -1.0    -0.56   -0.15   0.68    3944    1.0
ypred[175]     -0.32    0.01    0.65    -1.61   -0.76   -0.31   0.11    0.97    4126    1.0
ypred[176]     -0.54    0.01    0.66    -1.85   -0.98   -0.55   -0.1    0.76    4312    1.0
ypred[177]     -0.23    0.01    0.65    -1.53   -0.66   -0.23   0.21    1.04    3369    1.0
ypred[178]     -0.18    0.01    0.65    -1.43   -0.61   -0.17   0.27    1.1     3707    1.0
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ypred[179]	-0.07	0.01	0.65	-1.36	-0.51	-0.07	0.39	1.22	3966	1.0
ypred[180]	-0.46	0.01	0.65	-1.76	-0.89	-0.45	-0.03	0.84	3921	1.0
ypred[181]	8.7e-3	0.01	0.64	-1.26	-0.42	0.02	0.44	1.24	3748	1.0
ypred[182]	-0.81	0.01	0.65	-2.1	-1.22	-0.79	-0.36	0.44	3911	1.0
ypred[183]	-0.18	0.01	0.66	-1.47	-0.61	-0.17	0.27	1.12	4108	1.0
ypred[184]	-0.16	0.01	0.64	-1.4	-0.59	-0.17	0.27	1.12	3767	1.0
ypred[185]	-0.44	0.01	0.65	-1.7	-0.87	-0.45	-1.4e-3	0.82	3391	1.0
ypred[186]	-0.36	9.8e-3	0.64	-1.63	-0.78	-0.35	0.07	0.94	4372	1.0
ypred[187]	-0.04	0.01	0.64	-1.27	-0.46	-0.04	0.39	1.22	3707	1.0
ypred[188]	-0.54	0.01	0.65	-1.78	-0.99	-0.54	-0.12	0.74	3551	1.0
ypred[189]	-0.49	0.01	0.66	-1.81	-0.92	-0.48	-0.04	0.77	4201	1.0
ypred[190]	-0.7	0.01	0.66	-2.03	-1.15	-0.7	-0.24	0.56	3965	1.0
ypred[191]	-0.35	0.01	0.65	-1.64	-0.78	-0.36	0.1	0.91	3985	1.0
ypred[192]	-0.34	0.01	0.66	-1.61	-0.77	-0.34	0.12	0.97	3841	1.0
ypred[193]	-0.43	0.01	0.65	-1.68	-0.88	-0.43	0.02	0.81	3640	1.0
ypred[194]	-0.16	0.01	0.64	-1.37	-0.61	-0.17	0.29	1.11	3303	1.0
ypred[195]	-0.08	0.01	0.64	-1.33	-0.51	-0.07	0.35	1.16	3534	1.0
ypred[196]	-0.09	0.01	0.66	-1.37	-0.54	-0.09	0.36	1.2	4121	1.0
ypred[197]	-0.25	0.01	0.65	-1.5	-0.69	-0.25	0.2	1.02	3952	1.0
ypred[198]	0.07	0.01	0.66	-1.18	-0.35	0.06	0.5	1.39	4054	1.0
ypred[199]	-0.52	0.01	0.65	-1.82	-0.98	-0.53	-0.07	0.72	4099	1.0
ypred[200]	-0.77	0.01	0.65	-2.06	-1.21	-0.77	-0.35	0.54	3935	1.0
y_predicted[1]	0.07	3.4e-4	0.02	0.03	0.06	0.07	0.09	0.11	4196	1.0
y_predicted[2]	-0.52	3.8e-4	0.02	-0.57	-0.54	-0.53	-0.51	-0.48	3467	1.0
y_predicted[3]	-0.19	4.5e-4	0.03	-0.24	-0.21	-0.19	-0.17	-0.14	3413	1.0
y_predicted[4]	-0.57	6.4e-4	0.04	-0.65	-0.6	-0.57	-0.55	-0.49	3548	1.0
y_predicted[5]	-0.13	4.9e-4	0.03	-0.18	-0.15	-0.13	-0.11	-0.08	3085	1.0
y_predicted[6]	-0.55	4.3e-4	0.02	-0.6	-0.57	-0.55	-0.54	-0.51	3195	1.0
y_predicted[7]	0.88	5.7e-4	0.04	0.81	0.86	0.88	0.91	0.96	4713	1.0
y_predicted[8]	-0.55	4.6e-4	0.03	-0.6	-0.57	-0.55	-0.53	-0.5	3494	1.0
y_predicted[9]	-0.41	4.6e-4	0.03	-0.47	-0.43	-0.41	-0.39	-0.36	4119	1.0
y_predicted[10]	0.92	7.1e-4	0.05	0.82	0.88	0.92	0.95	1.01	4425	1.0
y_predicted[11]	1.18	8.5e-4	0.05	1.07	1.14	1.18	1.21	1.28	4136	1.0
y_predicted[12]	-0.5	3.8e-4	0.02	-0.54	-0.51	-0.5	-0.48	-0.45	3721	1.0
y_predicted[13]	-0.02	4.4e-4	0.03	-0.07	-0.04	-0.02	9.5e-4	0.04	4045	1.0
y_predicted[14]	-0.12	4.2e-4	0.02	-0.16	-0.13	-0.12	-0.1	-0.07	3506	1.0
y_predicted[15]	-0.78	7.1e-4	0.04	-0.87	-0.81	-0.78	-0.75	-0.7	3986	1.0
y_predicted[16]	0.72	6.2e-4	0.05	0.62	0.69	0.72	0.75	0.8	5301	1.0
y_predicted[17]	1.22	8.0e-4	0.06	1.11	1.18	1.22	1.26	1.33	4902	1.0
y_predicted[18]	0.09	6.7e-4	0.05	-4.4e-3	0.06	0.09	0.12	0.18	4838	1.0
y_predicted[19]	1.27	6.7e-4	0.05	1.18	1.24	1.27	1.31	1.37	5134	1.0
y_predicted[20]	-0.52	3.8e-4	0.02	-0.56	-0.53	-0.52	-0.5	-0.47	3522	1.0
y_predicted[21]	-0.58	5.6e-4	0.03	-0.65	-0.6	-0.58	-0.56	-0.52	3242	1.0
y_predicted[22]	-0.26	5.8e-4	0.03	-0.32	-0.28	-0.26	-0.24	-0.19	3567	1.0
y_predicted[23]	0.1	7.9e-4	0.06	-0.01	0.06	0.1	0.14	0.21	5266	1.0
y_predicted[24]	-0.1	4.6e-4	0.03	-0.15	-0.11	-0.1	-0.08	-0.04	3678	1.0
y_predicted[25]	0.05	4.9e-4	0.03	-9.7e-3	0.03	0.05	0.07	0.11	3926	1.0
y_predicted[26]	-0.42	3.7e-4	0.02	-0.47	-0.44	-0.42	-0.41	-0.38	3454	1.0

y_predicted[27]	-0.26	6.0e-4	0.04	-0.33	-0.29	-0.27	-0.24	-0.19	3568	1.0
y_predicted[28]	-0.11	4.2e-4	0.02	-0.16	-0.12	-0.11	-0.09	-0.06	3611	1.0
y_predicted[29]	-0.53	4.9e-4	0.03	-0.58	-0.55	-0.53	-0.52	-0.48	2912	1.0
y_predicted[30]	-0.28	6.1e-4	0.04	-0.36	-0.31	-0.28	-0.26	-0.21	3990	1.0
y_predicted[31]	-0.03	7.2e-4	0.04	-0.11	-0.06	-0.03	-7.0e-3	0.05	3299	1.0
y_predicted[32]	1.43	7.2e-4	0.05	1.33	1.39	1.43	1.46	1.53	5382	1.0
y_predicted[33]	-0.12	7.1e-4	0.04	-0.19	-0.15	-0.12	-0.09	-0.04	2981	1.0
y_predicted[34]	-0.57	4.9e-4	0.03	-0.63	-0.59	-0.57	-0.55	-0.52	3241	1.0
y_predicted[35]	-0.14	4.6e-4	0.03	-0.19	-0.16	-0.14	-0.13	-0.09	3223	1.0
y_predicted[36]	-0.23	5.3e-4	0.03	-0.29	-0.25	-0.23	-0.21	-0.17	3691	1.0
y_predicted[37]	-0.46	4.0e-4	0.03	-0.51	-0.48	-0.46	-0.44	-0.41	3890	1.0
y_predicted[38]	-0.04	4.4e-4	0.03	-0.09	-0.06	-0.04	-0.02	0.01	3722	1.0
y_predicted[39]	2.46	1.7e-3	0.12	2.22	2.38	2.47	2.54	2.7	5093	1.0
y_predicted[40]	-0.54	4.3e-4	0.02	-0.58	-0.56	-0.54	-0.52	-0.49	3006	1.0
y_predicted[41]	-0.36	5.3e-4	0.03	-0.42	-0.38	-0.36	-0.34	-0.3	3323	1.0
y_predicted[42]	-0.53	1.0e-3	0.05	-0.64	-0.57	-0.53	-0.5	-0.44	2351	1.0
y_predicted[43]	0.49	4.5e-4	0.03	0.43	0.46	0.49	0.51	0.55	4680	1.0
y_predicted[44]	-0.4	5.7e-4	0.03	-0.46	-0.42	-0.4	-0.38	-0.34	3223	1.0
y_predicted[45]	-0.57	4.9e-4	0.03	-0.63	-0.59	-0.57	-0.55	-0.52	3234	1.0
y_predicted[46]	-0.16	5.5e-4	0.03	-0.22	-0.18	-0.16	-0.14	-0.1	3051	1.0
y_predicted[47]	-0.51	4.4e-4	0.03	-0.56	-0.52	-0.51	-0.49	-0.45	4215	1.0
y_predicted[48]	-0.2	10.0e-4	0.04	-0.28	-0.22	-0.2	-0.17	-0.11	1993	1.0
y_predicted[49]	-0.27	6.2e-4	0.04	-0.34	-0.29	-0.27	-0.24	-0.19	3602	1.0
y_predicted[50]	-0.55	4.3e-4	0.02	-0.6	-0.57	-0.55	-0.54	-0.51	3290	1.0
y_predicted[51]	-0.48	5.5e-4	0.03	-0.54	-0.5	-0.48	-0.46	-0.43	2765	1.0
y_predicted[52]	-0.07	9.4e-4	0.04	-0.15	-0.1	-0.07	-0.04	0.02	2122	1.0
y_predicted[53]	-0.77	5.9e-4	0.04	-0.85	-0.8	-0.77	-0.75	-0.7	4070	1.0
y_predicted[54]	-0.6	6.8e-4	0.04	-0.68	-0.62	-0.6	-0.57	-0.52	3229	1.0
y_predicted[55]	-0.76	6.3e-4	0.04	-0.83	-0.78	-0.76	-0.73	-0.69	3456	1.0
y_predicted[56]	0.97	8.9e-4	0.06	0.86	0.93	0.97	1.01	1.09	4425	1.0
y_predicted[57]	0.98	9.1e-4	0.06	0.87	0.94	0.98	1.03	1.11	4692	1.0
y_predicted[58]	0.21	6.3e-4	0.04	0.13	0.19	0.21	0.24	0.29	4194	1.0
y_predicted[59]	-0.24	1.1e-3	0.05	-0.34	-0.27	-0.24	-0.21	-0.14	2094	1.0
y_predicted[60]	-0.54	4.0e-4	0.02	-0.59	-0.56	-0.54	-0.53	-0.5	3241	1.0
y_predicted[61]	-0.39	4.9e-4	0.03	-0.46	-0.41	-0.39	-0.37	-0.33	4492	1.0
y_predicted[62]	0.74	5.7e-4	0.04	0.67	0.72	0.74	0.77	0.82	4829	1.0
y_predicted[63]	-0.79	6.0e-4	0.04	-0.87	-0.81	-0.79	-0.76	-0.71	4016	1.0
y_predicted[64]	-0.74	6.3e-4	0.04	-0.82	-0.76	-0.74	-0.71	-0.66	4078	1.0
y_predicted[65]	-0.11	7.8e-4	0.05	-0.21	-0.14	-0.11	-0.07	-3.6e-3	4529	1.0
y_predicted[66]	-0.56	6.9e-4	0.04	-0.65	-0.59	-0.56	-0.54	-0.48	3573	1.0
y_predicted[67]	-0.57	4.9e-4	0.03	-0.63	-0.59	-0.57	-0.55	-0.52	3254	1.0
y_predicted[68]	-0.16	8.9e-4	0.05	-0.25	-0.19	-0.16	-0.12	-0.06	3005	1.0
y_predicted[69]	-5.1e-4	3.5e-4	0.02	-0.04	-0.02	-6.7e-4	0.01	0.04	3956	1.0
y_predicted[70]	-0.32	7.2e-4	0.03	-0.38	-0.34	-0.31	-0.29	-0.25	2151	1.0
y_predicted[71]	-0.55	4.6e-4	0.03	-0.6	-0.56	-0.55	-0.53	-0.5	3032	1.0
y_predicted[72]	-0.46	5.1e-4	0.03	-0.51	-0.47	-0.46	-0.44	-0.4	2950	1.0
y_predicted[73]	-0.78	5.7e-4	0.04	-0.85	-0.8	-0.78	-0.76	-0.71	3963	1.0
y_predicted[74]	-0.77	6.1e-4	0.04	-0.85	-0.8	-0.77	-0.75	-0.7	3676	1.0

y_predicted[75]	0.16	5.6e-4	0.04	0.08	0.13	0.16	0.18	0.23	4421	1.0
y_predicted[76]	-0.74	6.9e-4	0.04	-0.82	-0.77	-0.74	-0.71	-0.66	3300	1.0
y_predicted[77]	-0.02	4.5e-4	0.03	-0.08	-0.04	-0.02	-6.0e-3	0.03	3767	1.0
y_predicted[78]	-0.21	4.5e-4	0.03	-0.26	-0.23	-0.21	-0.19	-0.15	3653	1.0
y_predicted[79]	-0.78	5.9e-4	0.04	-0.86	-0.8	-0.78	-0.75	-0.71	4060	1.0
y_predicted[80]	-0.49	3.8e-4	0.02	-0.53	-0.5	-0.49	-0.47	-0.44	3806	1.0
y_predicted[81]	-0.33	4.7e-4	0.02	-0.38	-0.35	-0.33	-0.32	-0.29	2792	1.0
y_predicted[82]	-0.13	4.1e-4	0.02	-0.18	-0.15	-0.13	-0.11	-0.08	3601	1.0
y_predicted[83]	0.04	7.3e-4	0.04	-0.03	0.01	0.04	0.07	0.11	2593	1.0
y_predicted[84]	0.03	3.0e-4	0.02	-0.01	0.01	0.03	0.04	0.07	4884	1.0
y_predicted[85]	0.23	8.8e-4	0.06	0.11	0.19	0.22	0.26	0.34	4051	1.0
y_predicted[86]	-0.38	2.9e-4	0.02	-0.42	-0.39	-0.38	-0.36	-0.33	5178	1.0
y_predicted[87]	-0.49	4.0e-4	0.02	-0.53	-0.5	-0.49	-0.47	-0.44	3355	1.0
y_predicted[88]	-0.27	8.2e-4	0.05	-0.37	-0.3	-0.27	-0.23	-0.17	3692	1.0
y_predicted[89]	-0.54	8.2e-4	0.05	-0.63	-0.57	-0.54	-0.5	-0.44	3382	1.0
y_predicted[90]	-0.12	6.1e-4	0.03	-0.19	-0.15	-0.12	-0.1	-0.06	2933	1.0
y_predicted[91]	-0.35	4.3e-4	0.02	-0.39	-0.36	-0.35	-0.33	-0.3	2949	1.0
y_predicted[92]	-0.74	7.1e-4	0.04	-0.82	-0.77	-0.74	-0.71	-0.66	3266	1.0
y_predicted[93]	-0.45	4.1e-4	0.03	-0.5	-0.47	-0.45	-0.43	-0.39	4329	1.0
y_predicted[94]	-0.4	5.3e-4	0.03	-0.46	-0.42	-0.4	-0.38	-0.34	3376	1.0
y_predicted[95]	0.15	7.6e-4	0.05	0.05	0.11	0.15	0.18	0.25	4274	1.0
y_predicted[96]	-0.24	7.2e-4	0.04	-0.32	-0.27	-0.24	-0.21	-0.15	3704	1.0
y_predicted[97]	0.93	4.8e-4	0.03	0.87	0.91	0.93	0.95	0.99	4388	1.0
y_predicted[98]	-0.42	4.7e-4	0.03	-0.47	-0.44	-0.42	-0.4	-0.36	3484	1.0
y_predicted[99]	-0.33	5.8e-4	0.04	-0.4	-0.35	-0.33	-0.3	-0.25	3866	1.0
y_predicted[100]	-0.72	6.3e-4	0.04	-0.8	-0.75	-0.72	-0.7	-0.65	3725	1.0
y_predicted[101]	-0.05	9.2e-4	0.04	-0.13	-0.08	-0.05	-0.02	0.04	2190	1.0
y_predicted[102]	-0.2	4.3e-4	0.03	-0.25	-0.21	-0.2	-0.18	-0.14	3644	1.0
y_predicted[103]	0.43	4.5e-4	0.03	0.37	0.41	0.43	0.45	0.49	4935	1.0
y_predicted[104]	-0.23	4.8e-4	0.03	-0.28	-0.25	-0.23	-0.21	-0.17	3645	1.0
y_predicted[105]	-0.54	5.7e-4	0.03	-0.6	-0.56	-0.54	-0.52	-0.47	2953	1.0
y_predicted[106]	-0.45	5.3e-4	0.03	-0.51	-0.47	-0.45	-0.43	-0.4	2909	1.0
y_predicted[107]	-0.15	5.5e-4	0.03	-0.21	-0.17	-0.15	-0.13	-0.09	2979	1.0
y_predicted[108]	0.32	6.8e-4	0.04	0.24	0.29	0.32	0.35	0.4	3789	1.0
y_predicted[109]	2.75	1.5e-3	0.1	2.55	2.68	2.75	2.82	2.95	4607	1.0
y_predicted[110]	1.5	9.3e-4	0.07	1.36	1.45	1.5	1.54	1.63	5464	1.0
y_predicted[111]	-0.41	5.6e-4	0.03	-0.47	-0.43	-0.41	-0.39	-0.35	2640	1.0
y_predicted[112]	-0.14	5.9e-4	0.03	-0.2	-0.16	-0.14	-0.11	-0.07	2933	1.0
y_predicted[113]	-0.53	6.9e-4	0.04	-0.61	-0.56	-0.53	-0.51	-0.46	3014	1.0
y_predicted[114]	-0.6	8.1e-4	0.04	-0.69	-0.63	-0.6	-0.57	-0.52	2917	1.0
y_predicted[115]	0.24	7.3e-4	0.05	0.15	0.2	0.24	0.27	0.33	3898	1.0
y_predicted[116]	0.3	5.5e-4	0.04	0.23	0.28	0.3	0.33	0.38	5090	1.0
y_predicted[117]	-0.04	4.6e-4	0.03	-0.09	-0.05	-0.04	-0.02	0.02	3580	1.0
y_predicted[118]	1.4	7.3e-4	0.05	1.3	1.37	1.4	1.44	1.51	5681	1.0
y_predicted[119]	-0.16	5.4e-4	0.03	-0.23	-0.18	-0.16	-0.14	-0.1	3733	1.0
y_predicted[120]	-0.21	4.7e-4	0.03	-0.26	-0.23	-0.21	-0.19	-0.15	3509	1.0
y_predicted[121]	-0.52	3.9e-4	0.02	-0.57	-0.54	-0.52	-0.51	-0.48	3574	1.0
y_predicted[122]	-0.11	5.7e-4	0.03	-0.17	-0.13	-0.11	-0.08	-0.04	2968	1.0

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y_predicted[123]    1.77   7.0e-4   0.06    1.66    1.73    1.77    1.81    1.88   6386   1.0
y_predicted[124]   -0.44   6.0e-4   0.04   -0.52   -0.47   -0.44   -0.42   -0.37   4454   1.0
y_predicted[125]    0.07   5.4e-4   0.03  1.6e-3    0.05    0.07    0.09    0.14   3981   1.0
y_predicted[126]   -0.68   8.3e-4   0.05   -0.77   -0.71   -0.68   -0.64   -0.58   3253   1.0
y_predicted[127]    -0.2   7.0e-4   0.03   -0.27   -0.23    -0.2   -0.18   -0.14   2261   1.0
y_predicted[128]   -0.47   4.2e-4   0.02   -0.51   -0.48   -0.47   -0.45   -0.42   3420   1.0
y_predicted[129]    0.82   7.8e-4   0.05    0.72    0.78    0.82    0.85    0.92   4554   1.0
y_predicted[130]   -0.09   4.6e-4   0.03   -0.15   -0.11   -0.09   -0.07   -0.03   4269   1.0
y_predicted[131]   -0.64   9.3e-4   0.05   -0.74   -0.68   -0.65   -0.61   -0.54   3194   1.0
y_predicted[132]   -0.45   5.5e-4   0.03   -0.51   -0.47   -0.45   -0.43   -0.39   2918   1.0
y_predicted[133]    0.67   5.0e-4   0.03    0.61    0.65    0.67    0.69    0.74   4498   1.0
y_predicted[134]   -0.38   5.2e-4   0.03   -0.44    -0.4   -0.38   -0.36   -0.31   3707   1.0
y_predicted[135]    -0.1   4.0e-4   0.03   -0.15   -0.11    -0.1   -0.08   -0.05   4120   1.0
y_predicted[136]    0.37   5.1e-4   0.03    0.31    0.35    0.37    0.39    0.43   4277   1.0
y_predicted[137]   -0.13   7.3e-4   0.04   -0.21   -0.16   -0.13    -0.1   -0.05   2974   1.0
y_predicted[138]     3.0   1.7e-3   0.11    2.78    2.92     3.0    3.07    3.21   4068   1.0
y_predicted[139]   -0.77   5.9e-4   0.04   -0.84   -0.79   -0.77   -0.74   -0.69   4068   1.0
y_predicted[140]   -0.24   7.4e-4   0.03   -0.31   -0.26   -0.24   -0.22   -0.18   2130   1.0
y_predicted[141]   -0.77   6.3e-4   0.04   -0.84   -0.79   -0.77   -0.74   -0.69   3501   1.0
y_predicted[142]   -0.13   4.0e-4   0.02   -0.18   -0.15   -0.13   -0.12   -0.08   3873   1.0
y_predicted[143]     0.1   5.9e-4   0.03    0.03    0.08     0.1    0.12    0.17   3411   1.0
y_predicted[144]   -0.54   4.1e-4   0.02   -0.59   -0.56   -0.54   -0.53    -0.5   3298   1.0
y_predicted[145]    0.01   4.0e-4   0.03   -0.04 -7.9e-3    0.01    0.03    0.07   4682   1.0
y_predicted[146]   -0.21   5.6e-4   0.03   -0.27   -0.23   -0.21   -0.19   -0.15   3245   1.0
y_predicted[147]   -0.23   8.1e-4   0.04    -0.3   -0.25   -0.23    -0.2   -0.16   2228   1.0
y_predicted[148]    0.27   5.3e-4   0.03    0.21    0.25    0.27    0.29    0.33   3246   1.0
y_predicted[149]    0.99   7.5e-4   0.06    0.89    0.96    0.99    1.03    1.11   5616   1.0
y_predicted[150]    0.24   9.1e-4   0.06    0.11     0.2    0.24    0.28    0.36   4487   1.0
y_predicted[151]    1.31   6.9e-4   0.05    1.21    1.27    1.31    1.35    1.42   6061   1.0
y_predicted[152]   -0.42   5.2e-4   0.03   -0.48   -0.44   -0.42   -0.41   -0.37   2835   1.0
y_predicted[153]     1.7   1.1e-3   0.07    1.55    1.65     1.7    1.75    1.84   4632   1.0
y_predicted[154]   -0.51   4.8e-4   0.03   -0.56   -0.53   -0.51    -0.5   -0.46   2845   1.0
y_predicted[155]    0.09   5.9e-4   0.03    0.03    0.07    0.09    0.11    0.15   2602   1.0
y_predicted[156]    1.83   1.3e-3   0.09    1.66    1.77    1.83    1.89    2.01   4344   1.0
y_predicted[157]   -0.78   5.9e-4   0.04   -0.86   -0.81   -0.78   -0.76   -0.71   4035   1.0
y_predicted[158]    0.82   5.0e-4   0.04    0.74    0.79    0.82    0.84     0.9   6368   1.0
y_predicted[159]   -0.23   8.5e-4   0.04   -0.31   -0.26   -0.23   -0.21   -0.16   2013   1.0
y_predicted[160]   -0.79   6.5e-4   0.04   -0.87   -0.82   -0.79   -0.76   -0.71   4011   1.0
y_predicted[161]   -0.53   4.3e-4   0.02   -0.58   -0.55   -0.53   -0.52   -0.49   2997   1.0
y_predicted[162]   -0.43   5.5e-4   0.03   -0.49   -0.45   -0.43    -0.4   -0.36   3388   1.0
y_predicted[163]     0.4   4.9e-4   0.03    0.33    0.37     0.4    0.42    0.46   4425   1.0
y_predicted[164]    0.47   8.2e-4   0.04    0.39    0.44    0.47     0.5    0.56   2771   1.0
y_predicted[165]    -0.2   4.3e-4   0.03   -0.25   -0.21    -0.2   -0.18   -0.14   3801   1.0
y_predicted[166]   -0.46   1.1e-3   0.07   -0.59   -0.51   -0.46   -0.42   -0.33   3463   1.0
y_predicted[167]   -0.55   4.2e-4   0.02    -0.6   -0.56   -0.55   -0.53    -0.5   3301   1.0
y_predicted[168]    -0.2   6.9e-4   0.03   -0.27   -0.22    -0.2   -0.18   -0.13   2379   1.0
y_predicted[169]     0.1   6.0e-4   0.04    0.02    0.07     0.1    0.13    0.18   4448   1.0
y_predicted[170]   -0.17   4.5e-4   0.03   -0.23   -0.19   -0.17   -0.15   -0.12   4163   1.0
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y_predicted[171]	-0.32	4.5e-4	0.03	-0.37	-0.34	-0.32	-0.3	-0.27	3171	1.0
y_predicted[172]	-0.8	6.9e-4	0.04	-0.89	-0.83	-0.8	-0.77	-0.71	3993	1.0
y_predicted[173]	-0.5	4.5e-4	0.02	-0.55	-0.52	-0.5	-0.48	-0.45	2914	1.0
y_predicted[174]	-0.57	5.7e-4	0.03	-0.64	-0.6	-0.57	-0.55	-0.51	3338	1.0
y_predicted[175]	-0.33	4.1e-4	0.03	-0.38	-0.35	-0.33	-0.31	-0.28	3927	1.0
y_predicted[176]	-0.55	4.5e-4	0.02	-0.6	-0.57	-0.55	-0.53	-0.5	3067	1.0
y_predicted[177]	-0.22	7.0e-4	0.04	-0.31	-0.25	-0.22	-0.19	-0.14	3859	1.0
y_predicted[178]	-0.17	4.4e-4	0.03	-0.22	-0.19	-0.17	-0.15	-0.12	3403	1.0
y_predicted[179]	-0.06	3.8e-4	0.02	-0.11	-0.08	-0.06	-0.05	-0.02	3899	1.0
y_predicted[180]	-0.46	4.1e-4	0.03	-0.5	-0.47	-0.46	-0.44	-0.41	3906	1.0
y_predicted[181]	0.02	3.6e-4	0.02	-0.02	7.2e-3	0.02	0.04	0.07	4633	1.0
y_predicted[182]	-0.8	6.4e-4	0.04	-0.88	-0.82	-0.79	-0.77	-0.72	3974	1.0
y_predicted[183]	-0.17	6.2e-4	0.04	-0.24	-0.19	-0.17	-0.14	-0.1	3316	1.0
y_predicted[184]	-0.16	4.1e-4	0.02	-0.21	-0.18	-0.16	-0.14	-0.11	3610	1.0
y_predicted[185]	-0.46	4.7e-4	0.03	-0.51	-0.47	-0.46	-0.44	-0.4	3142	1.0
y_predicted[186]	-0.37	5.3e-4	0.04	-0.44	-0.39	-0.37	-0.35	-0.3	4695	1.0
y_predicted[187]	-0.06	4.3e-4	0.03	-0.1	-0.07	-0.06	-0.04	-2.9e-3	3756	1.0
y_predicted[188]	-0.55	5.1e-4	0.03	-0.61	-0.57	-0.55	-0.53	-0.49	3069	1.0
y_predicted[189]	-0.48	4.2e-4	0.02	-0.53	-0.5	-0.48	-0.47	-0.44	3165	1.0
y_predicted[190]	-0.7	1.7e-3	0.1	-0.9	-0.77	-0.7	-0.64	-0.51	3355	1.0
y_predicted[191]	-0.36	5.3e-4	0.03	-0.43	-0.38	-0.36	-0.34	-0.29	3927	1.0
y_predicted[192]	-0.32	8.5e-4	0.04	-0.39	-0.34	-0.32	-0.29	-0.24	2186	1.0
y_predicted[193]	-0.43	5.4e-4	0.03	-0.49	-0.45	-0.43	-0.41	-0.37	3203	1.0
y_predicted[194]	-0.15	5.7e-4	0.03	-0.21	-0.17	-0.15	-0.13	-0.09	2963	1.0
y_predicted[195]	-0.07	4.4e-4	0.03	-0.12	-0.08	-0.07	-0.05	-0.01	3503	1.0
y_predicted[196]	-0.1	4.1e-4	0.03	-0.15	-0.12	-0.1	-0.08	-0.05	4083	1.0
y_predicted[197]	-0.25	5.4e-4	0.03	-0.31	-0.27	-0.25	-0.23	-0.18	3591	1.0
y_predicted[198]	0.05	8.9e-4	0.05	-0.04	0.02	0.05	0.08	0.14	2544	1.0
y_predicted[199]	-0.52	8.6e-4	0.05	-0.61	-0.55	-0.52	-0.49	-0.42	3100	1.0
y_predicted[200]	-0.76	5.8e-4	0.04	-0.83	-0.79	-0.76	-0.74	-0.69	3910	1.0
loglik_pred[1]	-0.55	3.3e-4	0.02	-0.59	-0.56	-0.55	-0.54	-0.51	3701	1.0
loglik_pred[2]	-0.49	2.6e-4	0.02	-0.52	-0.5	-0.49	-0.48	-0.46	4356	1.0
loglik_pred[3]	-0.51	2.9e-4	0.02	-0.55	-0.52	-0.51	-0.5	-0.48	4209	1.0
loglik_pred[4]	-0.53	3.5e-4	0.02	-0.57	-0.54	-0.53	-0.51	-0.49	4210	1.0
loglik_pred[5]	-0.5	2.9e-4	0.02	-0.54	-0.51	-0.5	-0.48	-0.46	4310	1.0
loglik_pred[6]	-0.53	2.8e-4	0.02	-0.57	-0.55	-0.53	-0.52	-0.5	4426	1.0
loglik_pred[7]	-0.63	5.3e-4	0.03	-0.69	-0.65	-0.63	-0.61	-0.57	3225	1.0
loglik_pred[8]	-0.5	2.7e-4	0.02	-0.54	-0.51	-0.5	-0.49	-0.47	4271	1.0
loglik_pred[9]	-1.49	3.4e-3	0.22	-1.94	-1.64	-1.49	-1.34	-1.1	4106	1.0
loglik_pred[10]	-0.51	2.7e-4	0.02	-0.54	-0.52	-0.51	-0.49	-0.47	4193	1.0
loglik_pred[11]	-4.58	6.2e-3	0.47	-5.54	-4.89	-4.56	-4.26	-3.72	5661	1.0
loglik_pred[12]	-8.78	5.6e-3	0.37	-9.5	-9.03	-8.78	-8.53	-8.06	4341	1.0
loglik_pred[13]	-0.58	5.0e-4	0.03	-0.65	-0.6	-0.57	-0.55	-0.51	4768	1.0
loglik_pred[14]	-1.59	1.1e-3	0.07	-1.73	-1.64	-1.59	-1.54	-1.45	4241	1.0
loglik_pred[15]	-1.64	2.9e-3	0.22	-2.11	-1.78	-1.63	-1.49	-1.26	5576	1.0
loglik_pred[16]	-0.5	3.0e-4	0.02	-0.54	-0.52	-0.5	-0.49	-0.47	4278	1.0
loglik_pred[17]	-0.65	5.5e-4	0.03	-0.72	-0.68	-0.65	-0.63	-0.59	3402	1.0
loglik_pred[18]	-0.84	10.0e-4	0.08	-1.0	-0.89	-0.83	-0.78	-0.7	5912	1.0

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loglik_pred[19]   -0.63   4.2e-4   0.02   -0.68   -0.65   -0.63   -0.62   -0.59   3439   1.0
loglik_pred[20]   -0.69   4.5e-4   0.03   -0.75   -0.71   -0.69   -0.67   -0.63   4535   1.0
loglik_pred[21]   -0.52   2.9e-4   0.02   -0.55   -0.53   -0.52   -0.51   -0.48   4111   1.0
loglik_pred[22]    -0.5   2.8e-4   0.02   -0.54   -0.52    -0.5   -0.49   -0.47   4242   1.0
loglik_pred[23]   -0.64   4.0e-4   0.03    -0.7   -0.66   -0.64   -0.62   -0.59   4131   1.0
loglik_pred[24]   -0.87   2.3e-3   0.13   -1.16   -0.96   -0.86   -0.78   -0.65   3247   1.0
loglik_pred[25]   -0.58   3.8e-4   0.02   -0.63    -0.6   -0.58   -0.57   -0.54   3769   1.0
loglik_pred[26]    -0.5   2.7e-4   0.02   -0.53   -0.51    -0.5   -0.49   -0.47   4296   1.0
loglik_pred[27]    -0.5   2.6e-4   0.02   -0.54   -0.51    -0.5   -0.49   -0.47   4397   1.0
loglik_pred[28]   -1.04   1.1e-3   0.08   -1.19   -1.09   -1.04   -0.99   -0.89   4637   1.0
loglik_pred[29]    -0.7   4.9e-4   0.03   -0.76   -0.72    -0.7   -0.68   -0.65   3262   1.0
loglik_pred[30]   -0.53   3.9e-4   0.03   -0.58   -0.54   -0.52   -0.51   -0.48   4233   1.0
loglik_pred[31]   -1.36   1.9e-3   0.09   -1.55   -1.42   -1.36    -1.3   -1.19   2201   1.0
loglik_pred[32]   -0.91   7.6e-4   0.04   -0.99   -0.94   -0.91   -0.89   -0.84   2753   1.0
loglik_pred[33]   -1.55   1.8e-3   0.12    -1.8   -1.63   -1.55   -1.47   -1.33   4372   1.0
loglik_pred[34]   -0.54   3.7e-4   0.02   -0.58   -0.55   -0.53   -0.52   -0.49   3661   1.0
loglik_pred[35]   -0.49   2.5e-4   0.02   -0.52    -0.5   -0.49   -0.48   -0.46   4587   1.0
loglik_pred[36]   -0.95   1.4e-3   0.07   -1.09    -1.0   -0.95    -0.9   -0.82   2258   1.0
loglik_pred[37]   -1.45   9.5e-4   0.06   -1.56   -1.49   -1.45   -1.41   -1.33   3794   1.0
loglik_pred[38]   -1.16   2.1e-3   0.14   -1.46   -1.26   -1.16   -1.07   -0.91   4549   1.0
loglik_pred[39]   -0.54   4.9e-4   0.03   -0.59   -0.55   -0.53   -0.52   -0.49   2670   1.0
loglik_pred[40]   -0.65   6.2e-4   0.03   -0.72   -0.67   -0.64   -0.62   -0.58   3140   1.0
loglik_pred[41]   -2.16   1.4e-3   0.08   -2.33   -2.22   -2.16   -2.11    -2.0   3610   1.0
loglik_pred[42]   -0.75   4.8e-4   0.03    -0.8   -0.77   -0.75   -0.73   -0.69   3133   1.0
loglik_pred[43]   -0.52   4.9e-4   0.03   -0.59   -0.54   -0.52    -0.5   -0.47   3573   1.0
loglik_pred[44]   -0.83   5.8e-4   0.04   -0.91   -0.86   -0.83    -0.8   -0.76   4729   1.0
loglik_pred[45]   -1.66   1.1e-3   0.08   -1.81   -1.71   -1.66    -1.6    -1.5   4525   1.0
loglik_pred[46]   -0.49   2.5e-4   0.02   -0.52    -0.5   -0.49   -0.48   -0.45   4595   1.0
loglik_pred[47]   -0.51   2.8e-4   0.02   -0.55   -0.53   -0.51    -0.5   -0.48   4508   1.0
loglik_pred[48]   -1.42   1.8e-3   0.15   -1.74   -1.52   -1.42   -1.32   -1.15   7066   1.0
loglik_pred[49]   -0.49   2.5e-4   0.02   -0.52    -0.5   -0.49   -0.48   -0.46   4523   1.0
loglik_pred[50]    -1.5   9.8e-4   0.06   -1.61   -1.53   -1.49   -1.46   -1.38   3554   1.0
loglik_pred[51]   -0.54   4.0e-4   0.02   -0.59   -0.56   -0.54   -0.53    -0.5   3740   1.0
loglik_pred[52]    -0.5   2.9e-4   0.02   -0.54   -0.51    -0.5   -0.49   -0.47   4100   1.0
loglik_pred[53]   -0.79   6.8e-4   0.04   -0.87   -0.81   -0.78   -0.76   -0.71   3527   1.0
loglik_pred[54]   -0.83   8.1e-4   0.06   -0.96   -0.87   -0.82   -0.78   -0.72   5827   1.0
loglik_pred[55]   -1.73   1.8e-3   0.11   -1.96    -1.8   -1.73   -1.66   -1.53   3418   1.0
loglik_pred[56]   -1.59   1.9e-3   0.13   -1.87   -1.68   -1.58    -1.5   -1.34   4752   1.0
loglik_pred[57]   -1.29   1.5e-3   0.09   -1.48   -1.35   -1.29   -1.23   -1.12   3662   1.0
loglik_pred[58]    -1.0   8.2e-4   0.05    -1.1   -1.03    -1.0   -0.97   -0.91   3561   1.0
loglik_pred[59]   -0.57   4.3e-4   0.03   -0.63   -0.59   -0.57   -0.55   -0.52   3706   1.0
loglik_pred[60]   -0.77   7.9e-4   0.06   -0.89    -0.8   -0.76   -0.72   -0.66   5489   1.0
loglik_pred[61]   -1.03   1.1e-3   0.07   -1.17   -1.08   -1.03   -0.98   -0.89   4743   1.0
loglik_pred[62]   -0.53   4.7e-4   0.03   -0.59   -0.55   -0.53   -0.51   -0.48   3837   1.0
loglik_pred[63]   -0.62   5.4e-4   0.03   -0.68   -0.64   -0.62    -0.6   -0.56   3304   1.0
loglik_pred[64]    -1.4   1.0e-3   0.07   -1.54   -1.45    -1.4   -1.35   -1.27   4677   1.0
loglik_pred[65]   -0.73   7.0e-4   0.05   -0.84   -0.76   -0.73   -0.69   -0.64   5800   1.0
loglik_pred[66]   -0.72   8.3e-4   0.05   -0.82   -0.75   -0.72   -0.69   -0.63   3173   1.0
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loglik_pred[67]    -0.95  6.6e-4   0.04  -1.03  -0.98  -0.95  -0.93  -0.88  3468  1.0
loglik_pred[68]    -2.14  3.2e-3   0.21  -2.58  -2.28  -2.13  -1.99  -1.74  4505  1.0
loglik_pred[69]     -0.5  2.7e-4   0.02  -0.53  -0.51   -0.5  -0.49  -0.46  4316  1.0
loglik_pred[70]    -0.74  4.9e-4   0.03   -0.8  -0.76  -0.74  -0.71  -0.67  4587  1.0
loglik_pred[71]    -0.52  3.3e-4   0.02  -0.56  -0.53  -0.52   -0.5  -0.48  4291  1.0
loglik_pred[72]    -2.93  1.9e-3   0.11  -3.14   -3.0  -2.93  -2.85  -2.71  3378  1.0
loglik_pred[73]     -0.5  2.7e-4   0.02  -0.54  -0.51   -0.5  -0.49  -0.46  4396  1.0
loglik_pred[74]    -0.91  7.7e-4   0.04   -1.0  -0.94  -0.91  -0.88  -0.83  3041  1.0
loglik_pred[75]    -1.61  1.4e-3   0.09  -1.79  -1.67  -1.61  -1.56  -1.45  4063  1.0
loglik_pred[76]    -0.49  2.5e-4   0.02  -0.53   -0.5  -0.49  -0.48  -0.46  4607  1.0
loglik_pred[77]    -5.84  6.9e-3   0.48  -6.83  -6.15  -5.84  -5.52  -4.93  4741  1.0
loglik_pred[78]     -0.5  3.0e-4   0.02  -0.54  -0.51   -0.5  -0.49  -0.47  3707  1.0
loglik_pred[79]    -1.14  1.8e-3    0.1  -1.35  -1.21  -1.14  -1.07  -0.96  2999  1.0
loglik_pred[80]    -0.51  3.3e-4   0.02  -0.55  -0.52  -0.51   -0.5  -0.47  4062  1.0
loglik_pred[81]    -0.76  6.6e-4   0.04  -0.83  -0.78  -0.76  -0.73  -0.69  3120  1.0
loglik_pred[82]    -0.49  2.6e-4   0.02  -0.53  -0.51  -0.49  -0.48  -0.46  4591  1.0
loglik_pred[83]    -0.81  8.8e-4   0.05  -0.91  -0.84  -0.81  -0.77  -0.71  3214  1.0
loglik_pred[84]    -0.57  6.1e-4   0.04  -0.67  -0.59  -0.56  -0.54   -0.5  5094  1.0
loglik_pred[85]     -0.5  3.1e-4   0.02  -0.54  -0.52   -0.5  -0.49  -0.47  4130  1.0
loglik_pred[86]    -2.69  3.3e-3   0.23  -3.15  -2.84  -2.68  -2.53  -2.27  4787  1.0
loglik_pred[87]    -0.55  7.9e-4   0.05  -0.67  -0.58  -0.54  -0.52  -0.48  3890  1.0
loglik_pred[88]    -1.61  1.0e-3   0.07  -1.75  -1.65  -1.61  -1.56  -1.47  4837  1.0
loglik_pred[89]    -0.69  6.3e-4   0.04  -0.77  -0.71  -0.69  -0.66  -0.61  3977  1.0
loglik_pred[90]    -0.53  3.3e-4   0.02  -0.57  -0.54  -0.53  -0.51  -0.49  4451  1.0
loglik_pred[91]    -0.52  2.8e-4   0.02  -0.55  -0.53  -0.52   -0.5  -0.48  4459  1.0
loglik_pred[92]    -0.59  3.8e-4   0.03  -0.64   -0.6  -0.58  -0.57  -0.53  4812  1.0
loglik_pred[93]    -0.54  4.6e-4   0.03   -0.6  -0.56  -0.54  -0.52  -0.49  4127  1.0
loglik_pred[94]    -0.53  4.4e-4   0.03  -0.59  -0.54  -0.53  -0.51  -0.48  3955  1.0
loglik_pred[95]    -0.54  3.2e-4   0.02  -0.58  -0.55  -0.54  -0.53   -0.5  4005  1.0
loglik_pred[96]    -1.25  1.4e-3   0.08   -1.4   -1.3  -1.25   -1.2   -1.1  3039  1.0
loglik_pred[97]    -0.52  3.6e-4   0.02  -0.57  -0.54  -0.52  -0.51  -0.48  3508  1.0
loglik_pred[98]    -0.74  5.1e-4   0.03  -0.81  -0.76  -0.74  -0.72  -0.68  4184  1.0
loglik_pred[99]    -0.62  5.1e-4   0.03  -0.69  -0.64  -0.62   -0.6  -0.56  4702  1.0
loglik_pred[100]   -0.62  5.4e-4   0.04   -0.7  -0.65  -0.62   -0.6  -0.56  4794  1.0
loglik_pred[101]   -0.76  5.7e-4   0.04  -0.83  -0.78  -0.75  -0.73  -0.69  4359  1.0
loglik_pred[102]   -0.49  2.7e-4   0.02  -0.53  -0.51  -0.49  -0.48  -0.46  4281  1.0
loglik_pred[103]    -0.5  2.6e-4   0.02  -0.53  -0.51   -0.5  -0.48  -0.46  4566  1.0
loglik_pred[104]   -0.68  7.8e-4   0.04  -0.77  -0.71  -0.68  -0.65  -0.61  3081  1.0
loglik_pred[105]   -0.66  7.7e-4   0.05  -0.77  -0.69  -0.65  -0.62  -0.57  4300  1.0
loglik_pred[106]   -0.73  7.9e-4   0.04  -0.82  -0.76  -0.73  -0.71  -0.66  2363  1.0
loglik_pred[107]   -0.61  3.4e-4   0.02  -0.65  -0.62  -0.61   -0.6  -0.57  3733  1.0
loglik_pred[108]   -0.53  2.8e-4   0.02  -0.57  -0.55  -0.53  -0.52   -0.5  4317  1.0
loglik_pred[109]   -0.82  1.0e-3   0.06  -0.93  -0.86  -0.82  -0.78  -0.72  3180  1.0
loglik_pred[110]   -0.54  2.9e-4   0.02  -0.58  -0.55  -0.54  -0.53   -0.5  4639  1.0
loglik_pred[111]    -0.5  2.7e-4   0.02  -0.53  -0.51   -0.5  -0.48  -0.46  4330  1.0
loglik_pred[112]    -1.9  1.7e-3   0.11  -2.13  -1.97   -1.9  -1.83   -1.7  3973  1.0
loglik_pred[113]   -0.49  2.6e-4   0.02  -0.52   -0.5  -0.49  -0.48  -0.46  4373  1.0
loglik_pred[114]   -0.89  1.4e-3   0.11  -1.12  -0.95  -0.88  -0.81  -0.69  6586  1.0
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loglik_pred[115]   -0.87   6.8e-4   0.04   -0.94   -0.89   -0.87   -0.84    -0.8   2790   1.0
loglik_pred[116]   -0.53   3.4e-4   0.02   -0.58   -0.54   -0.53   -0.52   -0.49   4347   1.0
loglik_pred[117]   -3.37   3.5e-3   0.21   -3.79   -3.51   -3.37   -3.24   -2.97   3634   1.0
loglik_pred[118]    -0.5   2.9e-4   0.02   -0.54   -0.51    -0.5   -0.49   -0.46   4324   1.0
loglik_pred[119]   -0.84   9.4e-4   0.05   -0.93   -0.87   -0.84   -0.81   -0.75   2325   1.0
loglik_pred[120]   -0.49   2.6e-4   0.02   -0.52    -0.5   -0.49   -0.48   -0.46   4449   1.0
loglik_pred[121]   -0.69   3.8e-4   0.02   -0.74   -0.71   -0.69   -0.68   -0.65   3689   1.0
loglik_pred[122]   -0.64   6.2e-4   0.04   -0.73   -0.67   -0.64   -0.62   -0.57   4122   1.0
loglik_pred[123]   -1.28   1.9e-3   0.09   -1.46   -1.34   -1.28   -1.22   -1.12   2079   1.0
loglik_pred[124]   -0.49   2.8e-4   0.02   -0.53    -0.5   -0.49   -0.48   -0.46   4120   1.0
loglik_pred[125]   -0.67   1.1e-3   0.07   -0.82   -0.71   -0.66   -0.62   -0.55   3964   1.0
loglik_pred[126]   -1.15   1.2e-3   0.08    -1.3    -1.2   -1.14   -1.09    -1.0   4558   1.0
loglik_pred[127]   -0.54   3.1e-4   0.02   -0.58   -0.56   -0.54   -0.53   -0.51   3929   1.0
loglik_pred[128]   -0.64   6.2e-4   0.04   -0.72   -0.67   -0.64   -0.62   -0.58   3543   1.0
loglik_pred[129]   -0.49   2.5e-4   0.02   -0.53    -0.5   -0.49   -0.48   -0.46   4630   1.0
loglik_pred[130]   -0.52   3.2e-4   0.02   -0.56   -0.53   -0.52   -0.51   -0.48   3728   1.0
loglik_pred[131]   -0.51   2.8e-4   0.02   -0.55   -0.53   -0.51    -0.5   -0.48   4327   1.0
loglik_pred[132]    -0.5   4.5e-4   0.03   -0.57   -0.52    -0.5   -0.49   -0.46   3517   1.0
loglik_pred[133]   -0.51   2.7e-4   0.02   -0.54   -0.52   -0.51    -0.5   -0.47   4519   1.0
loglik_pred[134]   -0.92   6.9e-4   0.04    -1.0   -0.94   -0.92   -0.89   -0.84   3074   1.0
loglik_pred[135]   -0.49   2.5e-4   0.02   -0.52    -0.5   -0.49   -0.48   -0.46   4537   1.0
loglik_pred[136]   -0.52   3.0e-4   0.02   -0.56   -0.54   -0.52   -0.51   -0.49   3946   1.0
loglik_pred[137]   -0.49   2.6e-4   0.02   -0.53    -0.5   -0.49   -0.48   -0.46   4384   1.0
loglik_pred[138]   -0.76   4.1e-4   0.03   -0.82   -0.78   -0.76   -0.74   -0.71   4505   1.0
loglik_pred[139]   -0.49   2.9e-4   0.02   -0.53   -0.51   -0.49   -0.48   -0.46   4292   1.0
loglik_pred[140]   -0.68   5.3e-4   0.03   -0.75    -0.7   -0.68   -0.66   -0.63   3454   1.0
loglik_pred[141]   -0.49   2.5e-4   0.02   -0.52    -0.5   -0.49   -0.48   -0.46   4531   1.0
loglik_pred[142]   -0.49   2.5e-4   0.02   -0.52    -0.5   -0.49   -0.48   -0.46   4607   1.0
loglik_pred[143]   -0.67   4.5e-4   0.03   -0.72   -0.69   -0.67   -0.66   -0.62   3446   1.0
loglik_pred[144]   -0.51   3.0e-4   0.02   -0.55   -0.52   -0.51    -0.5   -0.47   3834   1.0
loglik_pred[145]   -0.55   4.8e-4   0.03   -0.61   -0.57   -0.55   -0.53    -0.5   3087   1.0
loglik_pred[146]   -6.08   3.3e-3   0.23   -6.53   -6.24   -6.08   -5.92   -5.64   4933   1.0
loglik_pred[147]   -0.49   2.6e-4   0.02   -0.53    -0.5   -0.49   -0.48   -0.46   4516   1.0
loglik_pred[148]   -0.66   5.2e-4   0.03   -0.72   -0.68   -0.66   -0.63    -0.6   3664   1.0
loglik_pred[149]   -0.62   4.8e-4   0.03   -0.69   -0.64   -0.62    -0.6   -0.56   4829   1.0
loglik_pred[150]   -0.71   6.0e-4   0.03   -0.77   -0.73   -0.71   -0.69   -0.65   2890   1.0
loglik_pred[151]   -1.24   1.2e-3   0.06   -1.36   -1.28   -1.23   -1.19   -1.12   2552   1.0
loglik_pred[152]   -0.78   5.1e-4   0.03   -0.85    -0.8   -0.78   -0.76   -0.72   3906   1.0
loglik_pred[153]    -0.6   4.3e-4   0.02   -0.65   -0.61    -0.6   -0.58   -0.55   3376   1.0
loglik_pred[154]   -0.77   8.7e-4   0.06   -0.88    -0.8   -0.77   -0.73   -0.66   4066   1.0
loglik_pred[155]   -0.57   3.2e-4   0.02   -0.61   -0.58   -0.57   -0.55   -0.53   4331   1.0
loglik_pred[156]   -0.53   3.2e-4   0.02   -0.57   -0.54   -0.53   -0.52   -0.49   3822   1.0
loglik_pred[157]   -0.54   4.0e-4   0.02    -0.6   -0.56   -0.54   -0.53    -0.5   3749   1.0
loglik_pred[158]   -0.94   7.3e-4   0.05   -1.04   -0.97   -0.94   -0.91   -0.85   4568   1.0
loglik_pred[159]   -0.69   5.4e-4   0.03   -0.75   -0.71   -0.69   -0.67   -0.63   3018   1.0
loglik_pred[160]   -0.73   4.8e-4   0.03   -0.78   -0.75   -0.73   -0.71   -0.68   3182   1.0
loglik_pred[161]   -0.49   2.5e-4   0.02   -0.52    -0.5   -0.49   -0.48   -0.46   4597   1.0
loglik_pred[162]   -0.49   2.6e-4   0.02   -0.52    -0.5   -0.49   -0.48   -0.46   4528   1.0
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loglik_pred[163]   -0.49  3.1e-4  0.02  -0.53   -0.5  -0.49  -0.48  -0.46  3361  1.0
loglik_pred[164]   -0.69  3.4e-4  0.02  -0.74  -0.71  -0.69  -0.68  -0.65  4430  1.0
loglik_pred[165]   -0.49  2.6e-4  0.02  -0.52   -0.5  -0.49  -0.48  -0.46  4455  1.0
loglik_pred[166]   -1.14  8.5e-4  0.06  -1.26  -1.18  -1.14   -1.1  -1.04  4552  1.0
loglik_pred[167]   -0.59  6.6e-4  0.03  -0.66  -0.61  -0.59  -0.56  -0.53  2656  1.0
loglik_pred[168]   -1.17  1.8e-3  0.13  -1.45  -1.26  -1.16  -1.08  -0.93  5331  1.0
loglik_pred[169]   -0.52  3.4e-4  0.02  -0.56  -0.53  -0.52   -0.5  -0.48  3682  1.0
loglik_pred[170]   -1.19  8.5e-4  0.06  -1.31  -1.23  -1.19  -1.16  -1.09  4544  1.0
loglik_pred[171]   -0.49  2.5e-4  0.02  -0.52   -0.5  -0.49  -0.48  -0.46  4575  1.0
loglik_pred[172]    -0.5  2.9e-4  0.02  -0.54  -0.51   -0.5  -0.48  -0.46  4405  1.0
loglik_pred[173]   -0.83  8.5e-4  0.05  -0.93  -0.86  -0.83   -0.8  -0.75  3015  1.0
loglik_pred[174]   -1.08  8.6e-4  0.05  -1.18  -1.11  -1.08  -1.04  -0.98  3553  1.0
loglik_pred[175]   -0.58  6.8e-4  0.03  -0.64   -0.6  -0.58  -0.56  -0.52  2088  1.0
loglik_pred[176]   -0.51  2.8e-4  0.02  -0.55  -0.52  -0.51   -0.5  -0.48  4217  1.0
loglik_pred[177]   -0.65  4.5e-4  0.03   -0.7  -0.67  -0.65  -0.63   -0.6  3821  1.0
loglik_pred[178]   -0.64  4.6e-4  0.03  -0.71  -0.66  -0.64  -0.62  -0.58  5087  1.0
loglik_pred[179]   -1.05  1.9e-3  0.14  -1.34  -1.13  -1.04  -0.95   -0.8  5429  1.0
loglik_pred[180]   -0.56  3.5e-4  0.02   -0.6  -0.57  -0.56  -0.54  -0.52  3768  1.0
loglik_pred[181]    -1.1  6.0e-4  0.04  -1.19  -1.13   -1.1  -1.08  -1.03  4663  1.0
loglik_pred[182]    -0.5  2.8e-4  0.02  -0.53  -0.51   -0.5  -0.48  -0.46  4313  1.0
loglik_pred[183]   -2.01  1.8e-3   0.1  -2.21  -2.07   -2.0  -1.94  -1.82  2924  1.0
loglik_pred[184]   -1.01  7.7e-4  0.05  -1.12  -1.04  -1.01  -0.97   -0.9  4842  1.0
loglik_pred[185]    -0.8  1.1e-3  0.06  -0.94  -0.84   -0.8  -0.76  -0.69  3093  1.0
loglik_pred[186]   -1.89  1.3e-3  0.09  -2.06  -1.94  -1.88  -1.83  -1.73  4596  1.0
loglik_pred[187]   -0.72  5.2e-4  0.03  -0.78  -0.74  -0.72   -0.7  -0.67  3308  1.0
loglik_pred[188]   -0.88  6.7e-4  0.04  -0.96   -0.9  -0.87  -0.85   -0.8  3571  1.0
loglik_pred[189]   -0.52  3.6e-4  0.02  -0.57  -0.54  -0.52  -0.51  -0.48  3624  1.0
loglik_pred[190]   -1.24  1.9e-3  0.09  -1.42   -1.3  -1.24  -1.18  -1.08  2117  1.0
loglik_pred[191]   -0.67  5.1e-4  0.03  -0.72  -0.68  -0.67  -0.65  -0.61  3159  1.0
loglik_pred[192]   -0.49  2.5e-4  0.02  -0.52   -0.5  -0.49  -0.48  -0.46  4525  1.0
loglik_pred[193]    -6.4  6.0e-3  0.46  -7.32   -6.7  -6.39  -6.08  -5.53  5879  1.0
loglik_pred[194]   -1.18  1.3e-3  0.06  -1.31  -1.22  -1.18  -1.14  -1.06  2405  1.0
loglik_pred[195]   -2.25  2.2e-3  0.12  -2.49  -2.33  -2.25  -2.17  -2.03  2849  1.0
loglik_pred[196]    -1.4  3.0e-3  0.19  -1.82  -1.52   -1.4  -1.27  -1.06  4044  1.0
loglik_pred[197]   -0.49  2.6e-4  0.02  -0.53   -0.5  -0.49  -0.48  -0.46  4360  1.0
loglik_pred[198]   -0.65  5.3e-4  0.03   -0.7  -0.67  -0.65  -0.63  -0.59  2782  1.0
loglik_pred[199]   -0.53  3.5e-4  0.02  -0.58  -0.55  -0.53  -0.52  -0.49  4302  1.0
loglik_pred[200]   -4.57  4.2e-3  0.29  -5.16  -4.76  -4.57  -4.36  -4.02  4966  1.0
lp__              -122.4    0.06  2.34 -128.1 -123.6 -122.0 -120.7 -118.9  1606  1.0
```

```
Samples were drawn using NUTS at Sun Dec  9 13:54:51 2018.
For each parameter, n_eff is a crude measure of effective sample size,
and Rhat is the potential scale reduction factor on split chains (at
convergence, Rhat=1).
0 of 4000 iterations saturated the maximum tree depth of 10 (0.0%)
```

After observing the $\hat{R}$ of both the models, it is safe to state that both models have converged

with the default *iteration* and *chain* settings of Stan. Since the house **prices** had been scaled before being fitted in the models, therefore we would have to *unscale* them to their original values for future comparative analysis. The results of $\hat{R}$ and n_{eff} clearly signify that the choice of models was appropriate for the given problem.

1.3   Comparative Analysis of the Models

For this problem, the efficiency of the models that we chose to fit the *training set* and utilize it to make predictions for the *test set* can be analyzed by the following means:

1. Visual Depiction of the Original vs. the Predicted House Prices
2. Root Mean Squared (RMS) error
3. PSIS-LOO CV (leave-one-out cross-validation) values along with Pareto k-value estimates for the models

Firstly, we *unscaled* the predicted prices retreived from the **linear** and **polynomial** regression models in Stan and generated a visual illustration to enable a 3-way comparison between these two sets of values and the original house **prices** as shown below:

```
In [10]: '''
         Extract the predictive posterior values from the model
         and the original 'Price' value from the dataset
         '''
         y_ax_linear = samples_linear['y_predicted'].mean(axis = 0)
         y_ax_poly = samples_poly['y_predicted'].mean(axis = 0)

         # Scale back prediction to original values
         y_linear_unscaled = scaler_new.inverse_transform(y_ax_linear)
         y_poly_unscaled = scaler_new.inverse_transform(y_ax_poly)
         YTest_Unscaled = scaler_new.inverse_transform(YTest_Scaled)

         '''
         # Extract a fraction (30%) of the Predictive Posterior
         values from the test samples and original samples
         '''
         predictionSamples = int(len(YTest_Scaled) * 0.3)
         x_ax = np.arange(1, predictionSamples + 1, 1)

         # Plot the predictions from both models vs. original values
         fig = plt.figure(figsize = (15, 10))
         plt.xlabel('Sample #', fontsize = 14)
         plt.ylabel('Price of House in $', fontsize = 14)
         plt.plot(x_ax, y_linear_unscaled[:predictionSamples],
                 label = "Posterior Predictive Prices of the Linear Model",
                 marker = 'o', c = 'red')
         plt.plot(x_ax, y_poly_unscaled[:predictionSamples],
                 label = "Posterior Predictive Prices of the Polynomial Model",
                 marker = '*', c = 'blue')
         plt.plot(x_ax, YTest_Unscaled[:predictionSamples],
```

```
                label = "Original Prices", marker = 'x', c = 'green')
        plt.legend(fontsize = 14)
        plt.tick_params(labelsize = 12)
        plt.title('Comparison of Predicted and Original House Prices',
                fontsize = 14, fontweight = 'bold')
        plt.savefig(f"figures/priceCompare.jpg")
```
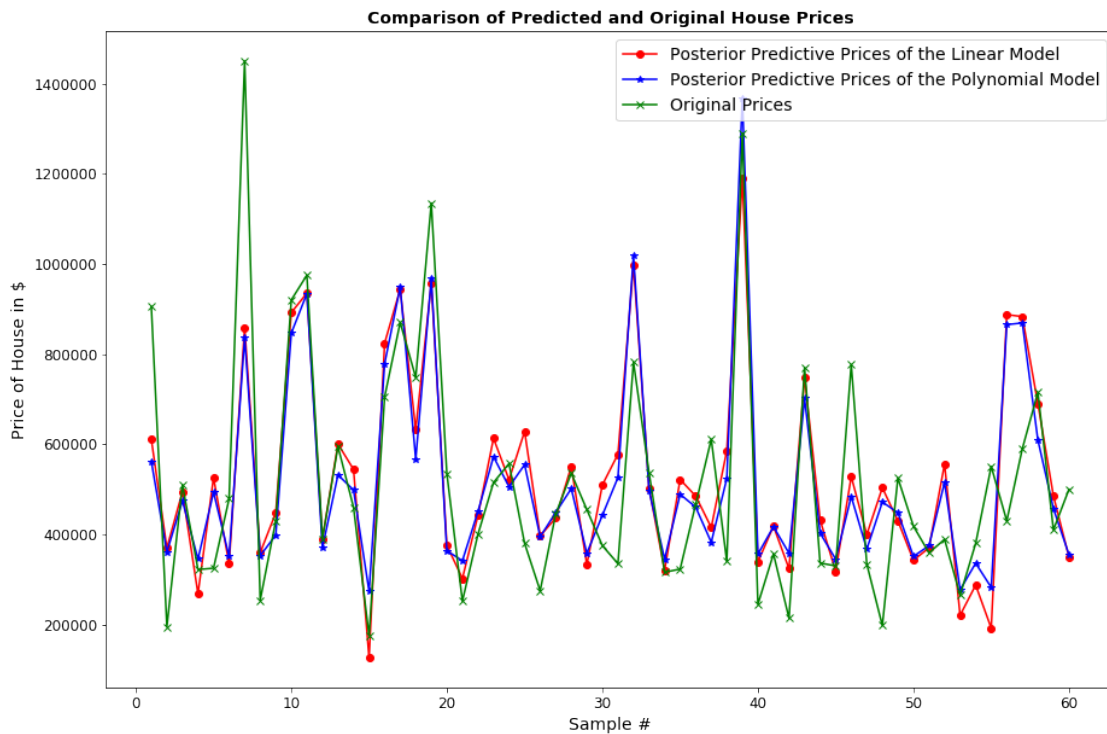

From the figure above, it can be observed that **polynomial** model made *price* predictions much closer to the original than the **linear** model. Although both models were able to adapt quite well to the sensitivity of the dataset, there were certain samples where both the models would seem to go wayward (between samples 30-35 and 50-55) and loose precision.

Next, we calculated the Root Mean Squared (RMS) error for both the models. The RMS of the pairwise differences of the *training* and *test* sets can serve as a measure how far on average the error is from 0. Thus, the RMS of the differences is a meaningful measure of the error.

```
In [11]: # Root Mean Squared (RMS) error for both models
        rms_linear = 0
        rms_poly = 0

        for i in range(0, np.size(YTest_Scaled)):
            rms_linear = rms_linear + np.sqrt(np.abs(YTest_Scaled[i] - y_ax_linear[i]))
            rms_poly = rms_poly + np.sqrt(np.abs(YTest_Scaled[i] - y_ax_poly[i]))

        rms_linear = rms_linear / predictionSamples
        rms_poly = rms_poly / predictionSamples
```

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```
print("RMS error of the Linear model: ", rms_linear)
print("RMS error of the Polynomial model: ", rms_poly)
```

```
RMS error of the Linear model:  1.9351617422002176
RMS error of the Polynomial model:  1.9297695586315349
```

As signified by the visual illustration, the RMS error also agrees with the fact that the **polynomial** model provides relatively accurate house *price predictions* as compared to the **linear** model.

Lastly, we proceed to the final means of model evaluation and comparison, i.e., the PSIS-LOO values. The **log-likelihood** calculation is necessary for obtaining the desired values, hence the code provided below utilizes these values from the Stan models to extract the **sum of the expected log predictive densities**, the **estimated an effective number of parameters** and lastly the **Pareto k-estimates** for the models [5]. The extraction process is provided as follows:

```
In [12]: # PSIS-LOO values for Linear model
         log_lik_linear = samples_linear["loglik_pred"]
         loo_linear, loos_linear, ks_linear = psis.psisloo(log_lik_linear)

         print("Linear Model: ")
         print("PSIS-LOO value:", loo_linear)

         lppd_linear = np.sum(logsumexp(log_lik_linear, axis = 0,
                                         b = 1. / log_lik_linear.shape[0]))
         p_loo_linear = lppd_linear - loo_linear

         print("Estimated effective number of parameters in the model: ",
               p_loo_linear)

         ksn1 = (ks_linear >= 0.7).sum()
         print("Number of k values greater than 0.7: ", ksn1)
```

```
Linear Model:
PSIS-LOO value: -198.07819618153263
Estimated effective number of parameters in the model:  0.921510871263024
Number of k values greater than 0.7:  0
```

```
In [13]: # PSIS-LOO values for Polynomial model
         log_lik_poly = samples_poly["loglik_pred"]
         loo_poly, loos_poly, ks_poly = psis.psisloo(log_lik_poly)

         print("Polynomial Model: ")
         print("PSIS-LOO value:", loo_poly)

         lppd_poly = np.sum(logsumexp(log_lik_poly,axis = 0, b = 1. / log_lik_poly.shape[0]))
         p_loo_poly = lppd_poly - loo_poly
```

```
        print("Estimated effective number of parameters in the model: ", p_loo_poly)

        ksn2 = (ks_poly >= 0.7).sum()
        print("Number of k values greater than 0.7 : ", ksn2)
```

Polynomial Model:
PSIS-LOO value: -195.28885651822225
Estimated effective number of parameters in the model: 1.6859204585905445
Number of k values greater than 0.7 : 0

In [14]: ```
        '''
        Scatter plots for Pareto k-values for
        Linear and Polynomial Regresion models
        '''
        x_linear = np.arange(1, np.size(ks_linear) + 1, 1)
        x_poly = np.arange(1, np.size(ks_poly) + 1, 1)
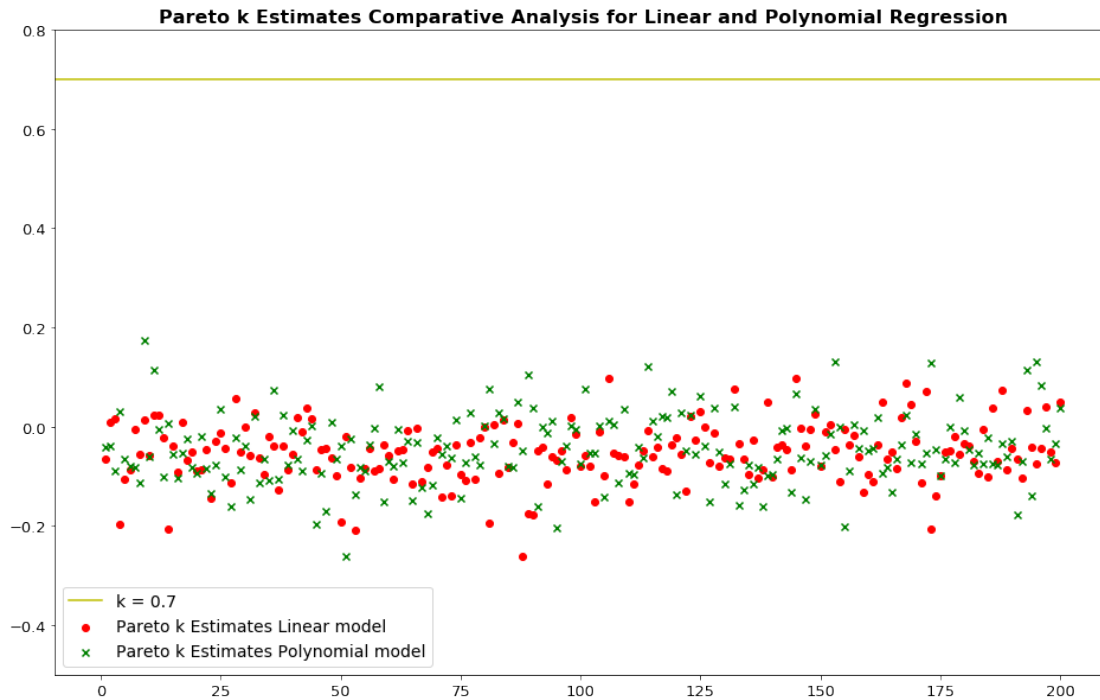
        fig = plt.figure(figsize = (16, 10))
        plt.axhline(y = 0.7, color = 'y', linestyle = '-',
                    label = 'k = 0.7')
        plt.scatter(x_linear, ks_linear,
                    label = "Pareto k Estimates Linear model",
                    marker = 'o', c = 'red')
        plt.scatter(x_poly, ks_poly,
                    label = "Pareto k Estimates Polynomial model",
                    marker = 'x', c = 'green')
        plt.tick_params(labelsize = 13)
        plt.ylim((-0.5, 0.8))
        plt.title("Pareto k Estimates Comparative Analysis for Linear and Polynomial Regressi
                    fontsize = 16, fontweight = 'bold')
        plt.legend(fontsize = 14)
        plt.savefig(f"figures/paretoKEstimates.jpg")
```

Pareto k Estimates Comparative Analysis for Linear and Polynomial Regression

Results obtained from the PSIS-LOO CV (leave-one-out cross-validation) highlight two things:

1. The larger LOO value of the polynomial model as compared to that of the linear model signifies that the **polynomial** model is relatively more reliable as compared to the **linear** one.

2. Furthermore, the Pareto k estimates for both the models are **< 0.7** which signifies that the estimates for both the models are reliable.

After our careful analysis and model assessment through the visualization of the house **prices**, the **RMS errors** and the **PSIS-LOO CV values**, we have identified the polynomial regression model as the better-suited model for our problem.

## 1.4 Conclusion

As a reflection of our entire progress, we were able to study, dissect and analyze the original dataset of house **prices** and get a better idea of how well they were distributed with the means of some statistical indicators and a logarithmic plot.

Next, we were able to identify the right balance of the *training* and *test* from the original data to create Bayesian predictive models, i.e., the **Linear Regression Model** and the **Polynomial Regression Model** respectively.

Subsequently, we justified the choice of these models along with the choice for the *prior* based upon the nature of the data, i.e., the **features** and **labels**.

Lastly, we performed the model assessment of the chosen models through visualization of the *predicted prices* and the analysis of the RMS and PSIS-LOO CV values and indicators. Side-by-side comparison and plot depictions helped us in identifying the **polynomial** model better suited for predicting the house prices as compared to the **linear** model.

Due to limited time, we rushed through the model selection process although the prior selection was appropriate. We could have explored other possible models for this problem and carried out an extensive assessment to find out the best choice. Also, some additional plots for analyzing the individual correlations between the features and the price would also have been advantageous.

Some future improvements for this work could be analyzing more choices of models for Stan in addition to extensive fiddling with the iterations and number of chains for each model. In addition to this, Area Under the Curve (AUC) and Receiver Operating Curve (ROC) could be employed in future analysis to provide more insight into the model assessment phase.

## 1.5  References

[1] House Sales in King County, USA - https://www.kaggle.com/harlfoxem/housesalesprediction/version/1

[2] Bayesian Linear Regression in Python: Using Machine Learning to Predict Student Grades Part 1 - https://towardsdatascience.com/bayesian-linear-regression-in-python-using-machine-learning-to-predict-student-grades-part-1-7d0ad817fca5

[3] A Primer on Bayesian Multilevel Modeling using PyStan - http://mc-stan.org/users/documentation/case-studies/radon.html

[4] Prior Choice Recommendations - https://github.com/stan-dev/stan/wiki/Prior-Choice-Recommendations

[5] Pareto smoothed importance sampling (PSIS) - http://mc-stan.org/loo/reference/psis.html