Final Report

December 8, 2018

Bayesian Data Analysis Project (BDA) - 2018

1 Analysis of House Prices through Supervised Bayesian Linear Modeling

1.1 1. Data Analysis

This section of the report will briefly highlight some of the characteristics of the dataset chosen from Kaggle. 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")
        df.head()
```

```
Out[2]:           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. 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('Price of House in $', fontsize = 14)
plt.ylabel('Frequency', fontsize = 14)
plt.tick_params(labelsize = 13)
plt.title('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
```
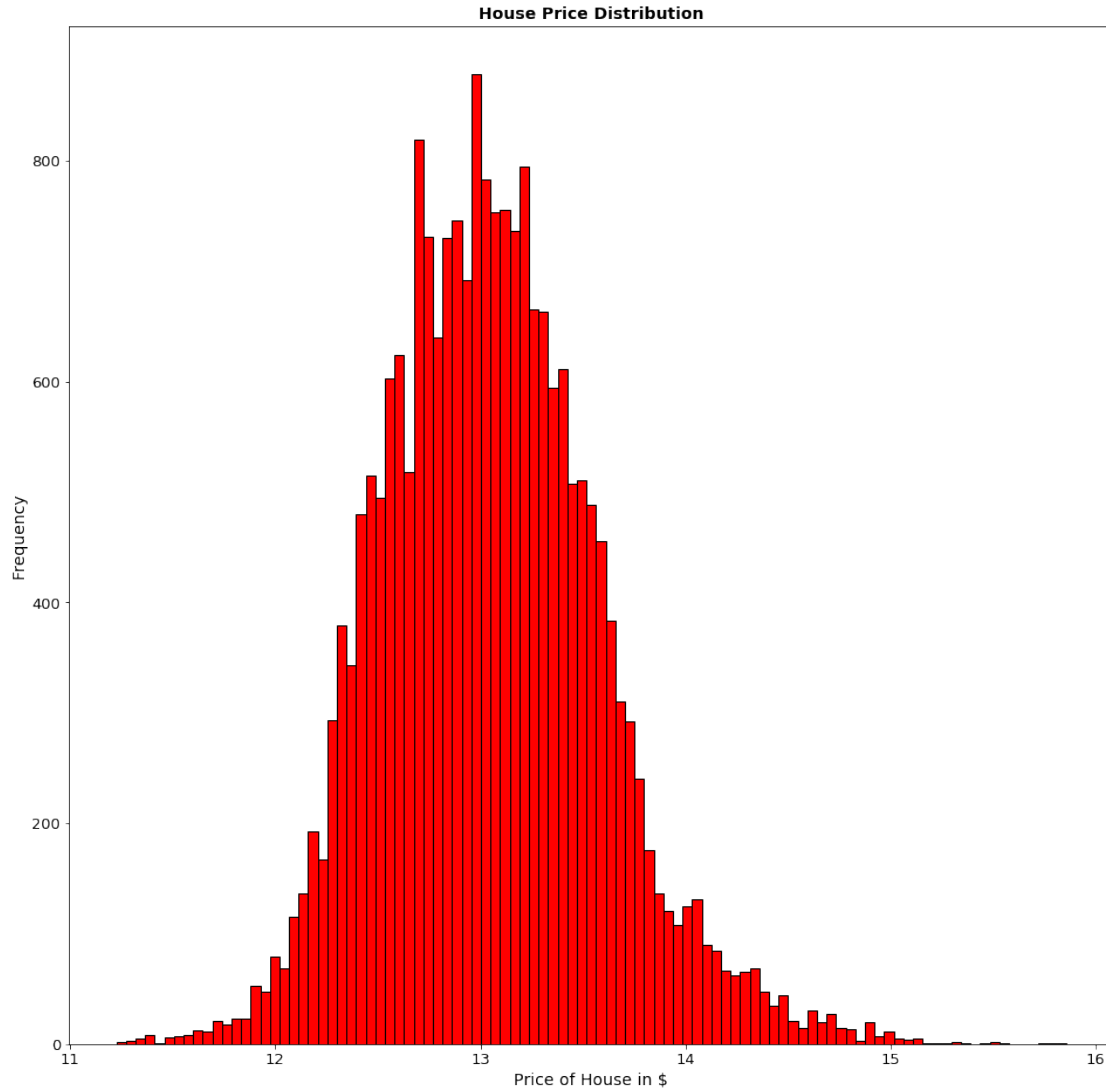
House Price Distribution

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)
        df.head()

Out[4]:        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
```

In [5]:
```python
# 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 ('p
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:

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]: # 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, rando

        # 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
        )

        # 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   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.

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.

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 =
        model_poly = stan_utility.compile_model(filename = 'model_trial_2.stan', model_name =
```

7

```
INFO:pystan:COMPILING THE C++ CODE FOR MODEL anon_model_23307f82cce8b5150747ec40c2ddb2a2 NOW.
INFO:pystan:COMPILING THE C++ CODE FOR MODEL anon_model_fdf10200661fa3c5ef96589091fabb87 NOW.
```

In [8]: *# Linear Regression model*

 # Model fitting with default parameters and displaying the results (random seed to rep
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	1.0e-4	2.0e-4	0.01	-0.03	-0.01	2.3e-4	0.01	0.03	5413	1.0
theta[1]	0.55	5.6e-4	0.03	0.48	0.52	0.55	0.57	0.61	3869	1.0
theta[2]	0.42	3.9e-4	0.03	0.37	0.4	0.42	0.44	0.47	4376	1.0
theta[3]	-0.24	5.2e-4	0.03	-0.31	-0.27	-0.24	-0.22	-0.18	4029	1.0
theta[4]	0.07	3.7e-4	0.02	0.02	0.05	0.07	0.08	0.11	4208	1.0
sigma	0.65	1.4e-4	0.01	0.63	0.64	0.65	0.66	0.67	6473	1.0
y_mean[1]	0.01	4.4e-4	0.03	-0.05	-6.6e-3	0.01	0.03	0.07	4670	1.0
y_mean[2]	-0.05	4.3e-4	0.03	-0.11	-0.07	-0.05	-0.03	2.8e-3	4473	1.0
y_mean[3]	0.27	7.8e-4	0.05	0.16	0.23	0.27	0.3	0.37	4575	1.0
y_mean[4]	-0.78	4.3e-4	0.03	-0.84	-0.8	-0.78	-0.76	-0.72	4699	1.0
y_mean[5]	0.21	4.5e-4	0.03	0.16	0.19	0.21	0.23	0.27	4028	1.0
y_mean[6]	-0.99	4.4e-4	0.03	-1.04	-1.01	-0.99	-0.97	-0.93	4400	1.0
y_mean[7]	-0.42	2.7e-4	0.02	-0.46	-0.44	-0.42	-0.41	-0.39	5053	1.0
y_mean[8]	0.99	4.4e-4	0.03	0.93	0.97	0.99	1.01	1.05	4793	1.0
y_mean[9]	-0.32	4.0e-4	0.03	-0.37	-0.33	-0.32	-0.3	-0.26	4218	1.0
y_mean[10]	0.14	6.1e-4	0.04	0.06	0.11	0.14	0.17	0.22	4242	1.0
y_mean[11]	-0.41	3.5e-4	0.02	-0.46	-0.43	-0.41	-0.4	-0.36	4438	1.0
y_mean[12]	1.22	6.2e-4	0.04	1.14	1.19	1.21	1.24	1.29	4057	1.0
y_mean[13]	-0.9	4.8e-4	0.03	-0.97	-0.93	-0.91	-0.88	-0.84	4484	1.0
y_mean[14]	0.39	4.0e-4	0.03	0.33	0.37	0.39	0.41	0.44	4893	1.0
y_mean[15]	-0.37	4.0e-4	0.03	-0.42	-0.38	-0.37	-0.35	-0.31	4164	1.0
y_mean[16]	0.24	5.2e-4	0.03	0.17	0.21	0.24	0.26	0.3	4023	1.0
y_mean[17]	-0.38	3.5e-4	0.02	-0.42	-0.39	-0.38	-0.36	-0.33	4440	1.0
y_mean[18]	1.15	6.2e-4	0.04	1.07	1.12	1.15	1.17	1.23	4106	1.0
y_mean[19]	2.3	1.1e-3	0.07	2.16	2.25	2.3	2.35	2.44	4068	1.0
y_mean[20]	-1.53	6.1e-4	0.04	-1.6	-1.55	-1.53	-1.5	-1.45	4384	1.0
y_mean[21]	-0.2	4.6e-4	0.03	-0.26	-0.22	-0.2	-0.18	-0.14	4548	1.0

y_mean[22]	1.14	1.0e-3	0.07	0.99	1.09	1.14	1.18	1.27	4870	1.0
y_mean[23]	-0.64	3.2e-4	0.02	-0.69	-0.66	-0.65	-0.63	-0.6	4756	1.0
y_mean[24]	0.14	3.7e-4	0.02	0.09	0.13	0.14	0.16	0.19	4160	1.0
y_mean[25]	-0.59	3.6e-4	0.02	-0.64	-0.61	-0.59	-0.58	-0.54	4747	1.0
y_mean[26]	-0.34	3.3e-4	0.02	-0.39	-0.36	-0.34	-0.33	-0.3	4719	1.0
y_mean[27]	-0.03	5.6e-4	0.04	-0.1	-0.06	-0.03	-8.3e-3	0.04	3939	1.0
y_mean[28]	-1.16	4.3e-4	0.03	-1.22	-1.18	-1.16	-1.14	-1.1	4444	1.0
y_mean[29]	0.55	4.3e-4	0.03	0.5	0.53	0.55	0.57	0.61	4337	1.0
y_mean[30]	0.68	6.2e-4	0.04	0.6	0.65	0.68	0.7	0.75	3938	1.0
y_mean[31]	0.25	4.3e-4	0.03	0.19	0.23	0.25	0.27	0.31	4677	1.0
y_mean[32]	0.22	2.4e-4	0.02	0.18	0.21	0.22	0.23	0.25	5116	1.0
y_mean[33]	0.32	5.7e-4	0.04	0.25	0.3	0.32	0.34	0.39	3951	1.0
y_mean[34]	0.23	3.1e-4	0.02	0.19	0.22	0.23	0.25	0.28	5263	1.0
y_mean[35]	1.45	8.4e-4	0.05	1.34	1.41	1.45	1.48	1.55	3944	1.0
y_mean[36]	0.09	2.9e-4	0.02	0.05	0.07	0.09	0.1	0.13	4560	1.0
y_mean[37]	0.98	7.5e-4	0.05	0.89	0.95	0.98	1.02	1.08	4087	1.0
y_mean[38]	-0.35	3.9e-4	0.03	-0.4	-0.37	-0.35	-0.33	-0.3	4726	1.0
y_mean[39]	0.13	3.2e-4	0.02	0.09	0.12	0.13	0.14	0.17	4336	1.0
y_mean[40]	0.19	3.7e-4	0.02	0.15	0.18	0.19	0.21	0.24	4186	1.0
y_mean[41]	0.9	7.5e-4	0.05	0.8	0.86	0.9	0.93	0.99	3983	1.0
y_mean[42]	-1.09	4.4e-4	0.03	-1.15	-1.11	-1.09	-1.07	-1.03	4531	1.0
y_mean[43]	1.89	7.3e-4	0.05	1.8	1.86	1.89	1.92	1.98	4080	1.0
y_mean[44]	0.41	4.7e-4	0.03	0.35	0.39	0.41	0.43	0.48	4631	1.0
y_mean[45]	0.61	4.8e-4	0.03	0.54	0.58	0.61	0.63	0.67	4592	1.0
y_mean[46]	0.31	7.2e-4	0.05	0.22	0.28	0.31	0.35	0.41	4233	1.0
y_mean[47]	-0.01	3.5e-4	0.03	-0.07	-0.03	-0.01	3.6e-3	0.04	5516	1.0
y_mean[48]	-0.69	3.6e-4	0.02	-0.73	-0.7	-0.69	-0.67	-0.64	4650	1.0
y_mean[49]	-1.05	4.3e-4	0.03	-1.11	-1.07	-1.05	-1.03	-1.0	4603	1.0
y_mean[50]	-0.04	4.1e-4	0.03	-0.1	-0.06	-0.04	-0.02	0.01	4492	1.0
y_mean[51]	0.33	3.3e-4	0.02	0.28	0.31	0.33	0.34	0.37	4737	1.0
y_mean[52]	0.12	3.5e-4	0.02	0.08	0.11	0.12	0.14	0.17	4218	1.0
y_mean[53]	-0.58	3.1e-4	0.02	-0.62	-0.6	-0.58	-0.57	-0.54	4879	1.0
y_mean[54]	-0.88	5.3e-4	0.04	-0.95	-0.9	-0.88	-0.85	-0.81	4754	1.0
y_mean[55]	-1.57	6.0e-4	0.04	-1.64	-1.6	-1.57	-1.54	-1.49	4309	1.0
y_mean[56]	-1.13	4.3e-4	0.03	-1.18	-1.15	-1.12	-1.11	-1.07	4433	1.0
y_mean[57]	0.19	4.0e-4	0.03	0.14	0.17	0.19	0.2	0.24	4070	1.0
y_mean[58]	2.9	1.5e-3	0.09	2.72	2.84	2.9	2.96	3.08	3991	1.0
y_mean[59]	-0.24	4.9e-4	0.03	-0.3	-0.26	-0.24	-0.22	-0.17	4581	1.0
y_mean[60]	-0.68	3.8e-4	0.03	-0.73	-0.7	-0.68	-0.67	-0.63	4647	1.0
y_mean[61]	-0.22	5.0e-4	0.03	-0.29	-0.25	-0.22	-0.2	-0.16	4315	1.0
y_mean[62]	-0.28	5.0e-4	0.03	-0.34	-0.3	-0.28	-0.26	-0.21	4055	1.0
y_mean[63]	0.72	5.2e-4	0.03	0.65	0.7	0.72	0.74	0.78	4419	1.0
y_mean[64]	-0.41	3.7e-4	0.03	-0.46	-0.43	-0.41	-0.39	-0.36	4948	1.0
y_mean[65]	0.37	3.5e-4	0.02	0.32	0.35	0.37	0.38	0.41	4433	1.0
y_mean[66]	-0.08	5.0e-4	0.03	-0.15	-0.11	-0.08	-0.06	-0.02	4740	1.0
y_mean[67]	-0.68	4.4e-4	0.03	-0.74	-0.7	-0.68	-0.65	-0.62	4917	1.0
y_mean[68]	-0.11	3.4e-4	0.02	-0.15	-0.12	-0.11	-0.09	-0.06	4726	1.0
y_mean[69]	0.33	2.8e-4	0.02	0.29	0.32	0.33	0.34	0.37	5243	1.0

y_mean[70]	0.46	4.8e-4	0.03	0.4	0.44	0.46	0.48	0.52	4668	1.0
y_mean[71]	0.51	5.0e-4	0.03	0.44	0.49	0.51	0.53	0.58	4753	1.0
y_mean[72]	0.43	7.8e-4	0.05	0.33	0.39	0.43	0.46	0.53	4481	1.0
y_mean[73]	-1.02	4.3e-4	0.03	-1.08	-1.04	-1.02	-1.0	-0.96	4609	1.0
y_mean[74]	-0.54	3.0e-4	0.02	-0.58	-0.56	-0.54	-0.53	-0.5	4836	1.0
y_mean[75]	-0.06	5.5e-4	0.03	-0.12	-0.08	-0.06	-0.03	0.01	3943	1.0
y_mean[76]	-0.11	3.4e-4	0.02	-0.16	-0.13	-0.11	-0.1	-0.07	4729	1.0
y_mean[77]	-0.26	4.9e-4	0.03	-0.32	-0.28	-0.26	-0.24	-0.19	4599	1.0
y_mean[78]	-0.36	2.7e-4	0.02	-0.39	-0.37	-0.36	-0.35	-0.32	5041	1.0
y_mean[79]	-1.09	4.3e-4	0.03	-1.14	-1.11	-1.09	-1.07	-1.03	4525	1.0
y_mean[80]	-0.02	4.8e-4	0.03	-0.08	-0.04	-0.02	9.3e-4	0.04	4195	1.0
y_mean[81]	-0.01	2.9e-4	0.02	-0.05	-0.03	-0.01	1.3e-3	0.03	4759	1.0
y_mean[82]	1.36	6.4e-4	0.04	1.28	1.33	1.36	1.39	1.44	4196	1.0
y_mean[83]	-0.19	4.5e-4	0.03	-0.24	-0.21	-0.19	-0.17	-0.13	4053	1.0
y_mean[84]	-1.11	4.3e-4	0.03	-1.17	-1.13	-1.11	-1.09	-1.06	4454	1.0
y_mean[85]	-0.27	3.0e-4	0.02	-0.31	-0.29	-0.27	-0.26	-0.23	4611	1.0
y_mean[86]	-0.32	2.9e-4	0.02	-0.36	-0.33	-0.32	-0.3	-0.28	4630	1.0
y_mean[87]	-0.24	3.2e-4	0.02	-0.28	-0.25	-0.24	-0.22	-0.2	4678	1.0
y_mean[88]	0.85	5.5e-4	0.04	0.78	0.82	0.85	0.87	0.92	4341	1.0
y_mean[89]	-0.53	3.9e-4	0.03	-0.59	-0.55	-0.53	-0.52	-0.48	4554	1.0
y_mean[90]	-0.05	3.1e-4	0.02	-0.09	-0.06	-0.05	-0.04	-6.8e-3	4743	1.0
y_mean[91]	0.09	5.8e-4	0.04	0.02	0.07	0.09	0.12	0.17	4053	1.0
y_mean[92]	-0.43	3.4e-4	0.02	-0.47	-0.45	-0.43	-0.42	-0.39	4334	1.0
y_mean[93]	0.67	8.1e-4	0.06	0.56	0.63	0.67	0.7	0.78	4930	1.0
y_mean[94]	0.68	6.6e-4	0.04	0.6	0.65	0.68	0.71	0.76	3902	1.0
y_mean[95]	0.22	4.0e-4	0.03	0.17	0.2	0.22	0.24	0.27	4103	1.0
y_mean[96]	0.07	2.6e-4	0.02	0.03	0.06	0.07	0.08	0.11	5632	1.0
y_mean[97]	-0.63	3.1e-4	0.02	-0.67	-0.65	-0.63	-0.62	-0.59	4773	1.0
y_mean[98]	-1.2	4.4e-4	0.03	-1.26	-1.22	-1.2	-1.18	-1.14	4473	1.0
y_mean[99]	0.95	1.0e-3	0.07	0.81	0.9	0.95	1.0	1.08	4981	1.0
y_mean[100]	0.46	4.8e-4	0.03	0.4	0.44	0.46	0.48	0.52	4567	1.0
y_mean[101]	-0.35	3.7e-4	0.03	-0.4	-0.37	-0.35	-0.34	-0.3	4604	1.0
y_mean[102]	-0.09	3.4e-4	0.02	-0.13	-0.11	-0.09	-0.07	-0.04	4704	1.0
y_mean[103]	-1.14	4.4e-4	0.03	-1.2	-1.16	-1.14	-1.12	-1.08	4470	1.0
y_mean[104]	-0.72	3.9e-4	0.03	-0.77	-0.74	-0.72	-0.7	-0.67	4599	1.0
y_mean[105]	0.85	5.4e-4	0.03	0.78	0.82	0.85	0.87	0.92	4094	1.0
y_mean[106]	5.1e-3	6.0e-4	0.04	-0.07	-0.02	4.9e-3	0.03	0.08	3933	1.0
y_mean[107]	0.08	5.6e-4	0.04	1.6e-3	0.05	0.08	0.1	0.15	4431	1.0
y_mean[108]	1.47	7.9e-4	0.05	1.37	1.44	1.47	1.5	1.57	3956	1.0
y_mean[109]	0.39	4.5e-4	0.03	0.34	0.37	0.39	0.41	0.45	4424	1.0
y_mean[110]	1.64	8.1e-4	0.05	1.54	1.61	1.64	1.68	1.75	4141	1.0
y_mean[111]	1.81	8.3e-4	0.05	1.71	1.78	1.81	1.85	1.92	3988	1.0
y_mean[112]	0.52	4.4e-4	0.03	0.46	0.5	0.52	0.54	0.57	4289	1.0
y_mean[113]	-1.14	4.2e-4	0.03	-1.19	-1.16	-1.14	-1.12	-1.09	4415	1.0
y_mean[114]	-0.09	3.4e-4	0.02	-0.13	-0.1	-0.09	-0.07	-0.04	4891	1.0
y_mean[115]	-0.51	3.9e-4	0.03	-0.56	-0.53	-0.51	-0.49	-0.46	4473	1.0
y_mean[116]	-0.01	4.6e-4	0.03	-0.07	-0.03	-0.01	6.3e-3	0.05	4558	1.0
y_mean[117]	-0.05	4.2e-4	0.03	-0.11	-0.07	-0.05	-0.03	1.2e-3	4370	1.0

	mean	se_mean	sd	2.5%	25%	50%	75%	97.5%	n_eff	Rhat
y_mean[118]	0.9	7.0e-4	0.04	0.82	0.87	0.9	0.93	0.99	3982	1.0
y_mean[119]	0.37	5.3e-4	0.04	0.3	0.34	0.37	0.4	0.44	5249	1.0
y_mean[120]	-0.13	4.8e-4	0.03	-0.2	-0.15	-0.13	-0.11	-0.07	4741	1.0
y_mean[121]	-0.03	4.5e-4	0.03	-0.09	-0.05	-0.03	-0.01	0.03	4540	1.0
y_mean[122]	-1.12	4.8e-4	0.03	-1.18	-1.14	-1.12	-1.1	-1.06	4449	1.0
y_mean[123]	-0.63	3.2e-4	0.02	-0.67	-0.64	-0.63	-0.61	-0.58	4777	1.0
y_mean[124]	-0.72	3.9e-4	0.03	-0.77	-0.74	-0.72	-0.71	-0.67	4602	1.0
y_mean[125]	0.13	3.1e-4	0.02	0.08	0.11	0.13	0.14	0.17	4431	1.0
y_mean[126]	0.45	4.1e-4	0.03	0.4	0.43	0.45	0.47	0.5	4195	1.0
y_mean[127]	-0.42	3.2e-4	0.02	-0.47	-0.44	-0.42	-0.41	-0.38	4708	1.0
y_mean[128]	0.49	4.5e-4	0.03	0.43	0.47	0.49	0.51	0.55	4441	1.0
y_mean[129]	-0.37	3.7e-4	0.02	-0.42	-0.39	-0.37	-0.36	-0.33	4268	1.0
y_mean[130]	-0.09	4.9e-4	0.03	-0.15	-0.11	-0.09	-0.07	-0.03	4224	1.0
y_mean[131]	1.54	9.6e-4	0.06	1.42	1.5	1.53	1.58	1.65	3913	1.0
y_mean[132]	-0.43	3.4e-4	0.02	-0.48	-0.45	-0.43	-0.42	-0.39	4530	1.0
y_mean[133]	0.13	5.7e-4	0.04	0.06	0.11	0.13	0.16	0.21	4415	1.0
y_mean[134]	1.49	6.7e-4	0.04	1.41	1.47	1.49	1.52	1.58	4030	1.0
y_mean[135]	-0.43	3.3e-4	0.02	-0.47	-0.45	-0.43	-0.41	-0.38	4813	1.0
y_mean[136]	-0.22	4.5e-4	0.03	-0.28	-0.24	-0.22	-0.2	-0.16	4573	1.0
y_mean[137]	0.17	3.6e-4	0.02	0.12	0.15	0.17	0.18	0.22	4143	1.0
y_mean[138]	1.52	7.7e-4	0.05	1.42	1.48	1.52	1.55	1.61	4193	1.0
y_mean[139]	0.62	4.5e-4	0.03	0.56	0.6	0.62	0.64	0.68	4251	1.0
y_mean[140]	-1.21	4.5e-4	0.03	-1.27	-1.23	-1.21	-1.19	-1.15	4482	1.0
y_mean[141]	0.47	4.8e-4	0.03	0.4	0.45	0.47	0.49	0.53	4551	1.0
y_mean[142]	-0.3	5.6e-4	0.04	-0.38	-0.33	-0.3	-0.27	-0.22	4868	1.0
y_mean[143]	-0.58	3.0e-4	0.02	-0.62	-0.6	-0.58	-0.57	-0.54	4868	1.0
y_mean[144]	0.02	3.2e-4	0.02	-0.02	9.0e-3	0.02	0.04	0.07	4598	1.0
y_mean[145]	-0.58	3.2e-4	0.02	-0.62	-0.59	-0.58	-0.56	-0.53	4924	1.0
y_mean[146]	-0.82	4.8e-4	0.03	-0.88	-0.84	-0.82	-0.8	-0.75	4497	1.0
y_mean[147]	0.2	3.7e-4	0.02	0.15	0.18	0.2	0.21	0.24	4453	1.0
y_mean[148]	-0.21	4.3e-4	0.03	-0.26	-0.22	-0.21	-0.19	-0.15	4636	1.0
y_mean[149]	-0.33	4.3e-4	0.03	-0.38	-0.35	-0.33	-0.31	-0.27	4864	1.0
y_mean[150]	0.08	2.9e-4	0.02	0.04	0.06	0.08	0.09	0.12	4544	1.0
y_mean[151]	-0.71	3.7e-4	0.03	-0.76	-0.72	-0.71	-0.69	-0.65	4870	1.0
y_mean[152]	-0.68	3.4e-4	0.02	-0.73	-0.7	-0.68	-0.67	-0.64	4708	1.0
y_mean[153]	0.08	2.9e-4	0.02	0.04	0.06	0.08	0.09	0.12	4510	1.0
y_mean[154]	0.09	3.1e-4	0.02	0.05	0.07	0.09	0.1	0.13	4734	1.0
y_mean[155]	-0.46	3.3e-4	0.02	-0.5	-0.47	-0.46	-0.44	-0.41	4514	1.0
y_mean[156]	-0.7	3.6e-4	0.02	-0.74	-0.71	-0.7	-0.68	-0.65	4667	1.0
y_mean[157]	-0.48	2.9e-4	0.02	-0.52	-0.5	-0.48	-0.47	-0.44	4787	1.0
y_mean[158]	0.88	5.3e-4	0.04	0.81	0.86	0.88	0.91	0.95	4735	1.0
y_mean[159]	0.09	5.1e-4	0.03	0.03	0.07	0.09	0.12	0.16	4217	1.0
y_mean[160]	-0.57	2.9e-4	0.02	-0.61	-0.58	-0.57	-0.56	-0.53	4862	1.0
y_mean[161]	-0.63	3.1e-4	0.02	-0.68	-0.65	-0.63	-0.62	-0.59	4848	1.0
y_mean[162]	-0.2	5.7e-4	0.04	-0.28	-0.23	-0.21	-0.18	-0.13	4049	1.0
y_mean[163]	-0.42	3.4e-4	0.02	-0.47	-0.44	-0.42	-0.41	-0.37	4821	1.0
y_mean[164]	1.27	6.1e-4	0.04	1.19	1.24	1.27	1.29	1.34	4126	1.0
y_mean[165]	0.22	3.9e-4	0.03	0.17	0.2	0.22	0.23	0.27	4138	1.0

y_mean[166]	-0.05	3.2e-4	0.02	-0.09	-0.07	-0.05	-0.04	-9.1e-3	4810	1.0
y_mean[167]	0.16	4.0e-4	0.03	0.11	0.14	0.16	0.18	0.22	4887	1.0
y_mean[168]	-1.5	8.3e-4	0.05	-1.6	-1.54	-1.5	-1.46	-1.39	4251	1.0
y_mean[169]	-0.51	2.9e-4	0.02	-0.55	-0.53	-0.51	-0.5	-0.47	4651	1.0
y_mean[170]	-0.44	3.1e-4	0.02	-0.48	-0.45	-0.44	-0.43	-0.4	4652	1.0
y_mean[171]	-1.18	4.7e-4	0.03	-1.24	-1.2	-1.18	-1.16	-1.12	4489	1.0
y_mean[172]	1.22	6.3e-4	0.04	1.14	1.19	1.22	1.25	1.31	4678	1.0
y_mean[173]	0.02	8.2e-4	0.05	-0.08	-0.02	0.02	0.06	0.12	4094	1.0
y_mean[174]	-0.92	4.2e-4	0.03	-0.97	-0.94	-0.92	-0.9	-0.86	4506	1.0
y_mean[175]	0.09	5.0e-4	0.03	0.02	0.07	0.09	0.11	0.16	4392	1.0
y_mean[176]	-0.63	3.3e-4	0.02	-0.67	-0.64	-0.63	-0.61	-0.58	4778	1.0
y_mean[177]	-0.56	2.8e-4	0.02	-0.59	-0.57	-0.56	-0.54	-0.52	4837	1.0
y_mean[178]	-0.17	3.4e-4	0.02	-0.21	-0.18	-0.17	-0.15	-0.12	4474	1.0
y_mean[179]	-0.38	3.4e-4	0.02	-0.43	-0.4	-0.38	-0.37	-0.34	4430	1.0
y_mean[180]	-0.18	5.9e-4	0.04	-0.26	-0.21	-0.18	-0.16	-0.1	4865	1.0
y_mean[181]	-0.22	4.8e-4	0.03	-0.28	-0.24	-0.22	-0.2	-0.16	4527	1.0
y_mean[182]	-0.74	4.7e-4	0.03	-0.8	-0.76	-0.74	-0.72	-0.67	4441	1.0
y_mean[183]	0.22	4.6e-4	0.03	0.17	0.2	0.22	0.24	0.28	4013	1.0
y_mean[184]	0.27	4.3e-4	0.03	0.21	0.25	0.27	0.28	0.32	4252	1.0
y_mean[185]	-0.24	3.0e-4	0.02	-0.28	-0.25	-0.24	-0.23	-0.2	4834	1.0
y_mean[186]	0.51	5.1e-4	0.03	0.44	0.49	0.51	0.53	0.58	4317	1.0
y_mean[187]	-1.0	4.3e-4	0.03	-1.06	-1.02	-1.0	-0.98	-0.94	4568	1.0
y_mean[188]	0.13	5.4e-4	0.03	0.06	0.1	0.13	0.15	0.19	4188	1.0
y_mean[189]	-0.15	5.1e-4	0.03	-0.22	-0.18	-0.15	-0.13	-0.08	4503	1.0
y_mean[190]	-0.55	3.4e-4	0.02	-0.59	-0.56	-0.55	-0.53	-0.5	4819	1.0
y_mean[191]	-0.32	8.5e-4	0.06	-0.43	-0.36	-0.32	-0.27	-0.2	4927	1.0
y_mean[192]	0.96	6.3e-4	0.04	0.87	0.93	0.96	0.98	1.04	4464	1.0
y_mean[193]	-0.64	3.3e-4	0.02	-0.68	-0.65	-0.64	-0.62	-0.59	4748	1.0
y_mean[194]	-0.2	3.4e-4	0.02	-0.24	-0.21	-0.2	-0.18	-0.15	4474	1.0
y_mean[195]	0.3	3.1e-4	0.02	0.26	0.28	0.3	0.31	0.34	5110	1.0
y_mean[196]	1.63	8.4e-4	0.05	1.52	1.59	1.63	1.66	1.74	4166	1.0
y_mean[197]	0.75	5.1e-4	0.03	0.68	0.72	0.75	0.77	0.81	4048	1.0
y_mean[198]	-0.55	3.3e-4	0.02	-0.59	-0.57	-0.55	-0.54	-0.51	4638	1.0
y_mean[199]	0.15	4.4e-4	0.03	0.09	0.12	0.15	0.17	0.21	4989	1.0
y_mean[200]	0.36	5.4e-4	0.03	0.29	0.33	0.36	0.38	0.43	4042	1.0
y_mean[201]	-0.58	3.4e-4	0.02	-0.62	-0.6	-0.58	-0.56	-0.53	4722	1.0
y_mean[202]	-0.39	3.2e-4	0.02	-0.43	-0.4	-0.39	-0.37	-0.34	4521	1.0
y_mean[203]	0.32	5.4e-4	0.04	0.24	0.29	0.32	0.34	0.39	5206	1.0
y_mean[204]	-0.04	4.8e-4	0.03	-0.1	-0.06	-0.04	-0.02	0.02	4121	1.0
y_mean[205]	-0.25	2.8e-4	0.02	-0.29	-0.27	-0.25	-0.24	-0.21	4882	1.0
y_mean[206]	0.5	8.5e-4	0.06	0.39	0.46	0.5	0.54	0.61	4424	1.0
y_mean[207]	-0.4	2.8e-4	0.02	-0.44	-0.41	-0.4	-0.39	-0.36	4741	1.0
y_mean[208]	-1.8	1.4e-3	0.09	-1.98	-1.86	-1.8	-1.73	-1.62	4209	1.0
y_mean[209]	0.71	4.8e-4	0.03	0.64	0.69	0.71	0.73	0.77	4113	1.0
y_mean[210]	0.28	7.2e-4	0.05	0.18	0.25	0.28	0.31	0.38	4617	1.0
y_mean[211]	-0.49	4.3e-4	0.03	-0.55	-0.51	-0.49	-0.47	-0.43	5064	1.0
y_mean[212]	0.29	5.8e-4	0.04	0.21	0.27	0.29	0.32	0.37	4885	1.0
y_mean[213]	0.16	6.1e-4	0.04	0.08	0.13	0.16	0.19	0.24	4447	1.0

y_mean[214]	0.83	5.2e-4	0.03	0.76	0.8	0.83	0.85	0.89	4061	1.0
y_mean[215]	-0.62	3.1e-4	0.02	-0.66	-0.63	-0.62	-0.6	-0.57	4796	1.0
y_mean[216]	0.11	3.1e-4	0.02	0.07	0.1	0.11	0.13	0.16	4382	1.0
y_mean[217]	-0.13	4.9e-4	0.03	-0.19	-0.15	-0.13	-0.11	-0.07	4013	1.0
y_mean[218]	-1.49	6.3e-4	0.04	-1.56	-1.51	-1.49	-1.46	-1.4	4362	1.0
y_mean[219]	1.02	4.9e-4	0.03	0.96	1.0	1.02	1.04	1.08	4278	1.0
y_mean[220]	0.29	5.3e-4	0.03	0.22	0.27	0.29	0.31	0.36	3964	1.0
y_mean[221]	-0.26	5.5e-4	0.04	-0.34	-0.29	-0.26	-0.24	-0.19	4633	1.0
y_mean[222]	0.27	4.5e-4	0.03	0.21	0.25	0.27	0.29	0.32	4048	1.0
y_mean[223]	-0.47	3.2e-4	0.02	-0.51	-0.49	-0.47	-0.45	-0.42	4944	1.0
y_mean[224]	-9.1e-3	5.9e-4	0.04	-0.08	-0.03	-9.2e-3	0.02	0.06	3944	1.0
y_mean[225]	0.02	3.9e-4	0.03	-0.03	3.4e-3	0.02	0.04	0.08	4924	1.0
y_mean[226]	-0.6	3.0e-4	0.02	-0.64	-0.62	-0.61	-0.59	-0.56	4842	1.0
y_mean[227]	-0.36	4.1e-4	0.03	-0.41	-0.38	-0.36	-0.34	-0.31	4142	1.0
y_mean[228]	-0.25	4.6e-4	0.03	-0.31	-0.27	-0.25	-0.23	-0.19	4070	1.0
y_mean[229]	-0.41	3.5e-4	0.02	-0.46	-0.43	-0.41	-0.4	-0.37	4869	1.0
y_mean[230]	0.71	4.4e-4	0.03	0.65	0.69	0.71	0.73	0.76	4168	1.0
y_mean[231]	-0.7	3.8e-4	0.03	-0.75	-0.71	-0.7	-0.68	-0.64	4619	1.0
y_mean[232]	-0.59	3.1e-4	0.02	-0.63	-0.61	-0.59	-0.58	-0.55	4862	1.0
y_mean[233]	0.65	5.8e-4	0.04	0.57	0.62	0.65	0.67	0.72	4336	1.0
y_mean[234]	0.91	6.0e-4	0.04	0.83	0.88	0.91	0.94	0.98	4040	1.0
y_mean[235]	-0.04	3.3e-4	0.02	-0.08	-0.05	-0.04	-0.02	9.5e-3	4767	1.0
y_mean[236]	-0.06	3.1e-4	0.02	-0.1	-0.07	-0.06	-0.04	-0.02	4758	1.0
y_mean[237]	-0.89	4.3e-4	0.03	-0.94	-0.91	-0.89	-0.87	-0.83	4594	1.0
y_mean[238]	1.56	8.7e-4	0.06	1.45	1.52	1.56	1.6	1.67	4274	1.0
y_mean[239]	0.16	2.2e-4	0.02	0.13	0.15	0.16	0.17	0.19	5517	1.0
y_mean[240]	-0.6	3.3e-4	0.02	-0.64	-0.61	-0.6	-0.58	-0.55	4820	1.0
y_mean[241]	-0.23	4.9e-4	0.03	-0.3	-0.26	-0.23	-0.21	-0.17	4348	1.0
y_mean[242]	9.0e-3	3.3e-4	0.02	-0.04	-6.9e-3	9.1e-3	0.02	0.06	5139	1.0
y_mean[243]	0.06	3.5e-4	0.02	0.01	0.04	0.06	0.08	0.11	4434	1.0
y_mean[244]	-0.29	3.6e-4	0.02	-0.33	-0.3	-0.29	-0.27	-0.24	4365	1.0
y_mean[245]	-0.27	5.0e-4	0.03	-0.33	-0.29	-0.27	-0.25	-0.2	4064	1.0
y_mean[246]	-0.55	3.4e-4	0.02	-0.6	-0.57	-0.55	-0.54	-0.51	4627	1.0
y_mean[247]	-0.57	3.0e-4	0.02	-0.61	-0.59	-0.57	-0.56	-0.53	4743	1.0
y_mean[248]	0.27	4.5e-4	0.03	0.22	0.25	0.27	0.29	0.33	4038	1.0
y_mean[249]	-0.7	3.8e-4	0.03	-0.75	-0.71	-0.7	-0.68	-0.64	4929	1.0
y_mean[250]	0.79	5.5e-4	0.03	0.72	0.77	0.79	0.81	0.86	3999	1.0
y_mean[251]	-0.2	4.4e-4	0.03	-0.26	-0.22	-0.2	-0.18	-0.14	4586	1.0
y_mean[252]	0.82	6.7e-4	0.04	0.73	0.79	0.82	0.85	0.91	4326	1.0
y_mean[253]	-0.55	3.0e-4	0.02	-0.59	-0.57	-0.55	-0.54	-0.51	4684	1.0
y_mean[254]	0.14	4.5e-4	0.03	0.08	0.12	0.14	0.16	0.2	4598	1.0
y_mean[255]	-5.1e-3	5.5e-4	0.04	-0.08	-0.03	-5.3e-3	0.02	0.07	4723	1.0
y_mean[256]	1.34	6.5e-4	0.04	1.26	1.31	1.34	1.37	1.42	4050	1.0
y_mean[257]	-6.9e-3	3.2e-4	0.02	-0.05	-0.02	-7.1e-3	8.1e-3	0.04	4717	1.0
y_mean[258]	0.1	3.3e-4	0.02	0.05	0.08	0.1	0.11	0.14	4598	1.0
y_mean[259]	-0.12	4.4e-4	0.03	-0.18	-0.14	-0.12	-0.1	-0.06	4642	1.0
y_mean[260]	0.7	3.7e-4	0.02	0.65	0.68	0.7	0.72	0.75	4596	1.0
y_mean[261]	-0.75	4.0e-4	0.03	-0.8	-0.77	-0.75	-0.73	-0.69	4807	1.0

y_mean[262]	-0.12	3.6e-4	0.02	-0.17	-0.14	-0.12	-0.11	-0.07	4676	1.0
y_mean[263]	0.31	2.4e-4	0.02	0.27	0.29	0.31	0.32	0.34	5155	1.0
y_mean[264]	-0.41	3.4e-4	0.02	-0.45	-0.42	-0.41	-0.39	-0.36	4804	1.0
y_mean[265]	-2.28	1.2e-3	0.08	-2.43	-2.34	-2.29	-2.23	-2.13	4282	1.0
y_mean[266]	-0.35	3.9e-4	0.03	-0.4	-0.37	-0.35	-0.34	-0.3	4322	1.0
y_mean[267]	-0.31	4.5e-4	0.03	-0.38	-0.34	-0.31	-0.29	-0.25	5190	1.0
y_mean[268]	-0.11	5.0e-4	0.03	-0.17	-0.13	-0.11	-0.08	-0.04	4212	1.0
y_mean[269]	0.25	4.1e-4	0.03	0.19	0.23	0.25	0.26	0.3	4289	1.0
y_mean[270]	0.16	5.2e-4	0.03	0.09	0.14	0.16	0.18	0.23	4201	1.0
y_mean[271]	-0.49	3.1e-4	0.02	-0.53	-0.5	-0.49	-0.47	-0.45	4707	1.0
y_mean[272]	-0.32	3.6e-4	0.02	-0.37	-0.34	-0.32	-0.31	-0.28	4387	1.0
y_mean[273]	-0.66	3.5e-4	0.02	-0.7	-0.67	-0.66	-0.64	-0.61	4709	1.0
y_mean[274]	-0.92	5.3e-4	0.04	-0.99	-0.95	-0.92	-0.9	-0.85	4840	1.0
y_mean[275]	0.09	6.2e-4	0.04	0.01	0.06	0.09	0.12	0.17	4048	1.0
y_mean[276]	0.88	5.3e-4	0.04	0.81	0.85	0.88	0.9	0.95	4789	1.0
y_mean[277]	-0.54	2.9e-4	0.02	-0.58	-0.55	-0.54	-0.52	-0.5	4866	1.0
y_mean[278]	-0.41	3.3e-4	0.02	-0.45	-0.42	-0.41	-0.39	-0.36	4539	1.0
y_mean[279]	1.2	6.6e-4	0.04	1.11	1.17	1.2	1.23	1.28	4058	1.0
y_mean[280]	0.63	4.5e-4	0.03	0.57	0.61	0.63	0.65	0.69	4487	1.0
y_mean[281]	-0.5	2.9e-4	0.02	-0.54	-0.51	-0.5	-0.48	-0.46	4831	1.0
y_mean[282]	-8.2e-3	5.6e-4	0.04	-0.08	-0.03	-7.8e-3	0.02	0.06	4531	1.0
y_mean[283]	-1.17	4.3e-4	0.03	-1.22	-1.19	-1.17	-1.15	-1.11	4443	1.0
y_mean[284]	-0.48	3.7e-4	0.03	-0.53	-0.5	-0.48	-0.47	-0.43	5044	1.0
y_mean[285]	-0.48	3.5e-4	0.02	-0.52	-0.49	-0.48	-0.46	-0.43	4493	1.0
y_mean[286]	-0.03	5.8e-4	0.04	-0.11	-0.06	-0.03	-3.5e-3	0.05	4753	1.0
y_mean[287]	1.94	8.4e-4	0.05	1.83	1.9	1.94	1.97	2.04	4144	1.0
y_mean[288]	-0.56	4.5e-4	0.03	-0.62	-0.58	-0.56	-0.54	-0.5	4595	1.0
y_mean[289]	2.14	1.1e-3	0.07	2.01	2.1	2.14	2.19	2.27	4054	1.0
y_mean[290]	-1.6	6.0e-4	0.04	-1.67	-1.62	-1.6	-1.57	-1.52	4279	1.0
y_mean[291]	-0.45	3.7e-4	0.02	-0.5	-0.47	-0.45	-0.44	-0.41	4314	1.0
y_mean[292]	-0.52	2.8e-4	0.02	-0.56	-0.54	-0.52	-0.51	-0.48	4810	1.0
y_mean[293]	-0.38	6.0e-4	0.04	-0.46	-0.41	-0.38	-0.35	-0.3	4606	1.0
y_mean[294]	-0.52	3.9e-4	0.03	-0.57	-0.54	-0.52	-0.5	-0.47	4502	1.0
y_mean[295]	-0.25	4.6e-4	0.03	-0.31	-0.27	-0.25	-0.23	-0.19	4877	1.0
y_mean[296]	1.16	9.1e-4	0.06	1.03	1.11	1.16	1.2	1.28	5023	1.0
y_mean[297]	-1.09	4.1e-4	0.03	-1.15	-1.11	-1.09	-1.07	-1.04	4454	1.0
y_mean[298]	0.05	1.3e-3	0.09	-0.13	-9.6e-3	0.05	0.1	0.22	4639	1.0
y_mean[299]	0.01	2.8e-4	0.02	-0.02	-3.5e-4	0.01	0.03	0.05	4731	1.0
y_mean[300]	-0.12	4.2e-4	0.03	-0.17	-0.14	-0.12	-0.1	-0.06	4642	1.0
y_mean[301]	-0.66	7.1e-4	0.05	-0.75	-0.69	-0.66	-0.63	-0.56	4570	1.0
y_mean[302]	1.56	7.1e-4	0.05	1.47	1.53	1.56	1.6	1.66	4834	1.0
y_mean[303]	0.64	5.5e-4	0.04	0.56	0.61	0.64	0.66	0.71	4825	1.0
y_mean[304]	-0.35	3.8e-4	0.02	-0.4	-0.37	-0.35	-0.33	-0.3	4383	1.0
y_mean[305]	0.65	6.3e-4	0.04	0.58	0.63	0.65	0.68	0.73	4100	1.0
y_mean[306]	-1.1	4.5e-4	0.03	-1.16	-1.13	-1.1	-1.08	-1.04	4415	1.0
y_mean[307]	0.13	3.2e-4	0.02	0.09	0.12	0.13	0.14	0.17	4492	1.0
y_mean[308]	0.22	4.4e-4	0.03	0.16	0.19	0.22	0.24	0.27	4837	1.0
y_mean[309]	-0.15	5.9e-4	0.04	-0.22	-0.17	-0.15	-0.13	-0.08	3901	1.0

y_mean[310]	-0.63	3.3e-4	0.02	-0.67	-0.64	-0.63	-0.61	-0.58	4843	1.0
y_mean[311]	-0.5	3.2e-4	0.02	-0.54	-0.51	-0.5	-0.49	-0.46	4483	1.0
y_mean[312]	-0.73	4.3e-4	0.03	-0.78	-0.75	-0.73	-0.71	-0.67	4560	1.0
y_mean[313]	0.53	1.0e-3	0.07	0.38	0.48	0.53	0.58	0.67	5079	1.0
y_mean[314]	-0.03	3.0e-4	0.02	-0.07	-0.05	-0.03	-0.02	9.5e-3	4762	1.0
y_mean[315]	1.42	1.1e-3	0.07	1.27	1.37	1.42	1.47	1.56	4555	1.0
y_mean[316]	4.5e-3	3.2e-4	0.02	-0.04	-0.01	4.6e-3	0.02	0.05	4792	1.0
y_mean[317]	-0.43	2.9e-4	0.02	-0.47	-0.44	-0.43	-0.42	-0.39	4672	1.0
y_mean[318]	1.12	8.8e-4	0.06	1.01	1.09	1.13	1.16	1.23	4153	1.0
y_mean[319]	-0.37	3.9e-4	0.03	-0.42	-0.39	-0.37	-0.35	-0.32	4380	1.0
y_mean[320]	0.18	3.6e-4	0.02	0.14	0.17	0.18	0.2	0.23	4172	1.0
y_mean[321]	-1.26	5.0e-4	0.03	-1.33	-1.29	-1.26	-1.24	-1.19	4617	1.0
y_mean[322]	-0.08	5.7e-4	0.04	-0.15	-0.11	-0.08	-0.06	-5.3e-3	4435	1.0
y_mean[323]	-0.59	3.4e-4	0.02	-0.64	-0.61	-0.59	-0.58	-0.55	4761	1.0
y_mean[324]	0.69	4.5e-4	0.03	0.64	0.67	0.69	0.71	0.75	4147	1.0
y_mean[325]	0.25	8.0e-4	0.05	0.15	0.21	0.25	0.28	0.34	4023	1.0
y_mean[326]	-0.33	2.9e-4	0.02	-0.37	-0.34	-0.33	-0.32	-0.29	4622	1.0
y_mean[327]	-0.1	3.4e-4	0.02	-0.15	-0.12	-0.1	-0.08	-0.05	4914	1.0
y_mean[328]	-0.49	4.4e-4	0.03	-0.55	-0.51	-0.49	-0.47	-0.43	5062	1.0
y_mean[329]	-0.37	4.4e-4	0.03	-0.42	-0.39	-0.37	-0.35	-0.31	4127	1.0
y_mean[330]	-7.5e-3	2.9e-4	0.02	-0.05	-0.02	-8.0e-3	6.1e-3	0.03	4762	1.0
y_mean[331]	-0.52	2.8e-4	0.02	-0.55	-0.53	-0.52	-0.5	-0.48	4742	1.0
y_mean[332]	-1.07	4.4e-4	0.03	-1.12	-1.09	-1.07	-1.05	-1.01	4609	1.0
y_mean[333]	-0.62	3.3e-4	0.02	-0.66	-0.63	-0.62	-0.6	-0.57	4797	1.0
y_mean[334]	-0.26	4.7e-4	0.03	-0.31	-0.28	-0.26	-0.24	-0.19	4273	1.0
y_mean[335]	-0.61	4.3e-4	0.03	-0.67	-0.63	-0.61	-0.59	-0.55	4788	1.0
y_mean[336]	0.77	5.1e-4	0.04	0.7	0.75	0.77	0.79	0.84	5233	1.0
y_mean[337]	-0.46	3.0e-4	0.02	-0.5	-0.47	-0.46	-0.45	-0.42	4545	1.0
y_mean[338]	0.06	4.1e-4	0.03	3.0e-3	0.04	0.06	0.08	0.11	4649	1.0
y_mean[339]	-1.06	4.2e-4	0.03	-1.11	-1.08	-1.06	-1.04	-1.0	4423	1.0
y_mean[340]	-0.2	3.8e-4	0.03	-0.24	-0.21	-0.2	-0.18	-0.15	4422	1.0
y_mean[341]	-0.57	2.9e-4	0.02	-0.61	-0.58	-0.57	-0.56	-0.53	4863	1.0
y_mean[342]	-0.19	3.7e-4	0.02	-0.24	-0.21	-0.19	-0.17	-0.14	4292	1.0
y_mean[343]	-0.51	7.8e-4	0.06	-0.61	-0.54	-0.51	-0.47	-0.4	4958	1.0
y_mean[344]	-0.52	3.3e-4	0.02	-0.57	-0.54	-0.52	-0.51	-0.48	4959	1.0
y_mean[345]	-0.13	3.7e-4	0.02	-0.18	-0.15	-0.13	-0.11	-0.08	4430	1.0
y_mean[346]	-1.11	4.4e-4	0.03	-1.17	-1.13	-1.11	-1.09	-1.05	4489	1.0
y_mean[347]	0.75	4.6e-4	0.03	0.69	0.73	0.75	0.77	0.81	4160	1.0
y_mean[348]	0.65	4.3e-4	0.03	0.6	0.64	0.65	0.67	0.71	4230	1.0
y_mean[349]	-0.38	3.5e-4	0.02	-0.43	-0.4	-0.38	-0.37	-0.33	4467	1.0
y_mean[350]	-0.76	4.3e-4	0.03	-0.81	-0.78	-0.76	-0.74	-0.7	4529	1.0
y_mean[351]	-0.47	2.9e-4	0.02	-0.5	-0.48	-0.47	-0.45	-0.42	4716	1.0
y_mean[352]	-0.19	5.5e-4	0.04	-0.26	-0.21	-0.19	-0.17	-0.12	4197	1.0
y_mean[353]	0.39	5.2e-4	0.03	0.32	0.37	0.39	0.41	0.46	4526	1.0
y_mean[354]	-0.1	3.7e-4	0.03	-0.15	-0.12	-0.1	-0.08	-0.05	4962	1.0
y_mean[355]	-0.8	4.5e-4	0.03	-0.86	-0.82	-0.8	-0.78	-0.74	4770	1.0
y_mean[356]	-0.09	3.7e-4	0.03	-0.14	-0.11	-0.09	-0.07	-0.04	4963	1.0
y_mean[357]	-1.04	4.2e-4	0.03	-1.1	-1.06	-1.04	-1.02	-0.99	4571	1.0

y_mean[358]	2.36	8.6e-4	0.05	2.25	2.32	2.36	2.4	2.47	4049	1.0
y_mean[359]	0.16	4.3e-4	0.03	0.1	0.14	0.16	0.18	0.22	5000	1.0
y_mean[360]	0.29	4.7e-4	0.03	0.23	0.27	0.29	0.31	0.35	4028	1.0
y_mean[361]	0.7	5.6e-4	0.04	0.63	0.68	0.7	0.73	0.77	4120	1.0
y_mean[362]	0.08	3.7e-4	0.03	0.02	0.06	0.08	0.1	0.13	5593	1.0
y_mean[363]	-0.55	3.0e-4	0.02	-0.59	-0.56	-0.55	-0.54	-0.51	4859	1.0
y_mean[364]	-0.61	3.3e-4	0.02	-0.66	-0.63	-0.61	-0.6	-0.57	4814	1.0
y_mean[365]	-0.21	4.8e-4	0.03	-0.27	-0.23	-0.21	-0.19	-0.14	4647	1.0
y_mean[366]	-0.21	3.2e-4	0.02	-0.26	-0.23	-0.21	-0.2	-0.17	4584	1.0
y_mean[367]	1.48	7.4e-4	0.05	1.39	1.45	1.48	1.51	1.57	4069	1.0
y_mean[368]	0.27	3.6e-4	0.03	0.22	0.26	0.27	0.29	0.32	5092	1.0
y_mean[369]	-0.04	3.6e-4	0.02	-0.09	-0.06	-0.04	-0.02	8.4e-3	4822	1.0
y_mean[370]	-0.39	3.3e-4	0.02	-0.43	-0.4	-0.39	-0.37	-0.34	4570	1.0
y_mean[371]	-1.01	4.3e-4	0.03	-1.07	-1.03	-1.01	-0.99	-0.95	4603	1.0
y_mean[372]	-1.15	4.2e-4	0.03	-1.2	-1.17	-1.15	-1.13	-1.09	4404	1.0
y_mean[373]	1.66	1.1e-3	0.07	1.53	1.61	1.66	1.71	1.8	4208	1.0
y_mean[374]	-0.45	4.7e-4	0.03	-0.51	-0.47	-0.45	-0.43	-0.39	4315	1.0
y_mean[375]	-0.73	6.5e-4	0.04	-0.81	-0.76	-0.73	-0.7	-0.65	4220	1.0
y_mean[376]	0.5	5.5e-4	0.04	0.43	0.47	0.5	0.52	0.57	4380	1.0
y_mean[377]	0.36	3.8e-4	0.03	0.31	0.35	0.36	0.38	0.41	4540	1.0
y_mean[378]	-0.04	3.4e-4	0.02	-0.08	-0.06	-0.04	-0.02	6.9e-3	4755	1.0
y_mean[379]	0.11	3.0e-4	0.02	0.07	0.09	0.11	0.12	0.15	4452	1.0
y_mean[380]	-1.36	8.4e-4	0.05	-1.47	-1.4	-1.36	-1.33	-1.26	4153	1.0
y_mean[381]	-0.74	3.9e-4	0.03	-0.79	-0.76	-0.74	-0.72	-0.69	4788	1.0
y_mean[382]	-0.27	5.1e-4	0.03	-0.34	-0.29	-0.27	-0.25	-0.2	4532	1.0
y_mean[383]	-0.41	3.5e-4	0.02	-0.45	-0.43	-0.41	-0.4	-0.37	4304	1.0
y_mean[384]	-0.76	4.5e-4	0.03	-0.82	-0.78	-0.76	-0.74	-0.7	4509	1.0
y_mean[385]	-0.53	4.1e-4	0.03	-0.59	-0.55	-0.53	-0.52	-0.48	4738	1.0
y_mean[386]	-0.37	6.7e-4	0.04	-0.46	-0.4	-0.37	-0.34	-0.28	4265	1.0
y_mean[387]	0.12	2.5e-4	0.02	0.08	0.11	0.12	0.13	0.15	5048	1.0
y_mean[388]	-0.53	6.3e-4	0.04	-0.62	-0.56	-0.53	-0.51	-0.45	4382	1.0
y_mean[389]	-0.23	5.2e-4	0.03	-0.29	-0.25	-0.23	-0.2	-0.16	4023	1.0
y_mean[390]	0.09	3.4e-4	0.02	0.05	0.08	0.09	0.11	0.14	4317	1.0
y_mean[391]	-0.59	2.9e-4	0.02	-0.63	-0.6	-0.59	-0.58	-0.55	4836	1.0
y_mean[392]	1.5	7.8e-4	0.05	1.4	1.47	1.5	1.54	1.6	4321	1.0
y_mean[393]	0.83	5.3e-4	0.04	0.76	0.8	0.83	0.85	0.9	4359	1.0
y_mean[394]	0.21	6.6e-4	0.04	0.13	0.19	0.22	0.24	0.3	4324	1.0
y_mean[395]	-3.8e-4	4.2e-4	0.03	-0.06	-0.02	-5.5e-4	0.02	0.06	4463	1.0
y_mean[396]	-0.42	3.1e-4	0.02	-0.46	-0.43	-0.42	-0.41	-0.38	4571	1.0
y_mean[397]	-0.63	3.9e-4	0.03	-0.69	-0.65	-0.63	-0.61	-0.58	5182	1.0
y_mean[398]	-0.1	3.4e-4	0.02	-0.15	-0.12	-0.1	-0.09	-0.05	4723	1.0
y_mean[399]	0.12	9.5e-4	0.06	-2.3e-3	0.08	0.12	0.16	0.24	4092	1.0
y_mean[400]	-0.49	3.4e-4	0.02	-0.53	-0.5	-0.49	-0.47	-0.44	4541	1.0
y_mean[401]	-0.3	2.6e-4	0.02	-0.34	-0.31	-0.3	-0.29	-0.26	4969	1.0
y_mean[402]	-0.47	2.7e-4	0.02	-0.5	-0.48	-0.47	-0.46	-0.43	4840	1.0
y_mean[403]	1.44	8.6e-4	0.06	1.32	1.4	1.44	1.47	1.55	4364	1.0
y_mean[404]	0.33	5.5e-4	0.04	0.26	0.3	0.33	0.35	0.4	4561	1.0
y_mean[405]	0.35	3.3e-4	0.02	0.31	0.33	0.35	0.36	0.39	4544	1.0

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y_mean[406]    -0.99  5.3e-4  0.03   -1.06  -1.02  -0.99  -0.97  -0.93  4260  1.0
y_mean[407]     0.71  5.9e-4  0.04    0.63   0.68   0.71   0.73   0.78  4449  1.0
y_mean[408]     0.19  3.7e-4  0.02    0.15   0.18   0.19   0.21   0.24  4145  1.0
y_mean[409]     0.42  8.5e-4  0.06    0.32   0.39   0.42   0.46   0.53  4356  1.0
y_mean[410]     1.51  5.9e-4  0.04    1.43   1.48   1.51   1.54   1.59  4213  1.0
y_mean[411]     1.32  6.7e-4  0.04    1.23   1.29   1.32   1.35   1.41  4367  1.0
y_mean[412]     0.28  4.5e-4  0.03    0.22   0.26   0.28    0.3   0.34  5247  1.0
y_mean[413]     -0.5  2.9e-4  0.02   -0.54  -0.52   -0.5  -0.49  -0.46  4841  1.0
y_mean[414]    -0.28  4.0e-4  0.03   -0.33   -0.3  -0.28  -0.26  -0.23  4149  1.0
y_mean[415]    -0.25  3.2e-4  0.02   -0.29  -0.26  -0.25  -0.23   -0.2  4551  1.0
y_mean[416]     1.27  6.4e-4  0.04    1.19   1.25   1.27    1.3   1.35  4035  1.0
y_mean[417]    -0.09  5.0e-4  0.03   -0.16  -0.12   -0.1  -0.07  -0.03  4096  1.0
y_mean[418]     1.45  7.3e-4  0.05    1.36   1.42   1.45   1.48   1.55  4404  1.0
y_mean[419]    -0.33  4.9e-4  0.04    -0.4  -0.36  -0.33  -0.31  -0.26  5069  1.0
y_mean[420]    -0.53  2.9e-4  0.02   -0.57  -0.54  -0.53  -0.52  -0.49  4886  1.0
y_mean[421]    -1.01  6.7e-4  0.04    -1.1  -1.04  -1.01  -0.98  -0.92  4354  1.0
y_mean[422]     1.03  7.8e-4  0.05    0.94    1.0   1.03   1.07   1.13  3930  1.0
y_mean[423]     0.65  5.3e-4  0.03    0.58   0.63   0.65   0.68   0.72  4185  1.0
y_mean[424]    -0.08  3.4e-4  0.02   -0.13   -0.1  -0.08  -0.07  -0.03  4890  1.0
y_mean[425]    -0.79  6.3e-4  0.04   -0.88  -0.82  -0.79  -0.76  -0.71  4859  1.0
y_mean[426]     0.15  7.0e-4  0.05    0.05   0.12   0.15   0.18   0.24  4646  1.0
y_mean[427]     -0.6  3.1e-4  0.02   -0.64  -0.61   -0.6  -0.58  -0.55  4853  1.0
y_mean[428]     0.59  4.1e-4  0.03    0.54   0.57   0.59   0.61   0.64  4353  1.0
y_mean[429]    -1.24  4.7e-4  0.03    -1.3  -1.26  -1.24  -1.22  -1.17  4489  1.0
y_mean[430]    -0.66  3.7e-4  0.03   -0.71  -0.68  -0.66  -0.64  -0.61  4898  1.0
y_mean[431]     0.34  3.5e-4  0.02    0.29   0.32   0.34   0.35   0.38  4407  1.0
y_mean[432]      1.0  4.5e-4  0.03    0.94   0.98    1.0   1.02   1.06  4568  1.0
y_mean[433]     0.94  6.2e-4  0.04    0.86   0.91   0.94   0.96   1.01  4120  1.0
y_mean[434]     2.35  9.8e-4  0.06    2.23   2.31   2.35   2.39   2.48  4093  1.0
y_mean[435]     0.13  3.2e-4  0.02    0.08   0.11   0.13   0.14   0.17  4350  1.0
y_mean[436]     1.02  5.7e-4  0.04    0.95    1.0   1.02   1.05   1.09  4067  1.0
y_mean[437]    -0.37  4.2e-4  0.03   -0.43  -0.39  -0.37  -0.35  -0.31  4991  1.0
y_mean[438]     1.17  6.0e-4  0.04    1.09   1.14   1.17    1.2   1.25  4104  1.0
y_mean[439]    -0.51  3.8e-4  0.03   -0.56  -0.53  -0.51  -0.49  -0.45  5010  1.0
y_mean[440]     0.21  3.9e-4  0.02    0.16   0.19   0.21   0.22   0.26  4105  1.0
y_mean[441]    -0.59  3.1e-4  0.02   -0.63   -0.6  -0.59  -0.57  -0.54  4870  1.0
y_mean[442]    -0.28  5.6e-4  0.04   -0.35   -0.3  -0.28  -0.26  -0.21  3970  1.0
y_mean[443]     2.22  9.3e-4  0.06    2.11   2.18   2.22   2.26   2.33  4018  1.0
y_mean[444]     0.05  5.3e-4  0.03   -0.02   0.02   0.05   0.07   0.12  4328  1.0
y_mean[445]    -1.08  4.2e-4  0.03   -1.14   -1.1  -1.08  -1.07  -1.03  4410  1.0
y_mean[446]     -0.9  5.3e-4  0.04   -0.97  -0.93   -0.9  -0.88  -0.83  4830  1.0
y_mean[447]      1.2  8.3e-4  0.06    1.09   1.16    1.2   1.24   1.31  4617  1.0
y_mean[448]      0.8  5.8e-4  0.04    0.72   0.77    0.8   0.82   0.87  4172  1.0
y_mean[449]    -1.03  4.5e-4  0.03   -1.09  -1.05  -1.03  -1.01  -0.97  4711  1.0
y_mean[450]    -0.37  3.7e-4  0.02   -0.41  -0.39  -0.37  -0.35  -0.32  4293  1.0
y_mean[451]     -0.8  5.0e-4  0.03   -0.86  -0.82   -0.8  -0.77  -0.73  4458  1.0
y_mean[452]     0.27  4.3e-4  0.03    0.21   0.25   0.27   0.28   0.32  4138  1.0
y_mean[453]     0.37  6.8e-4  0.05    0.28   0.34   0.37    0.4   0.46  4525  1.0
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y_mean[454]	0.6	4.9e-4	0.03	0.54	0.58	0.6	0.62	0.66	4276	1.0
y_mean[455]	-0.67	3.4e-4	0.02	-0.71	-0.69	-0.67	-0.65	-0.62	4720	1.0
y_mean[456]	-0.46	5.6e-4	0.04	-0.54	-0.49	-0.46	-0.44	-0.39	4407	1.0
y_mean[457]	1.01	7.0e-4	0.04	0.92	0.98	1.01	1.04	1.1	4094	1.0
y_mean[458]	1.93	1.2e-3	0.08	1.78	1.88	1.93	1.98	2.08	4086	1.0
y_mean[459]	-0.26	5.5e-4	0.04	-0.33	-0.28	-0.26	-0.23	-0.19	4118	1.0
y_mean[460]	-1.6	6.2e-4	0.04	-1.68	-1.63	-1.6	-1.58	-1.52	4398	1.0
y_mean[461]	0.62	6.1e-4	0.04	0.54	0.59	0.62	0.65	0.7	4191	1.0
y_mean[462]	0.02	3.0e-4	0.02	-0.02	4.3e-3	0.02	0.03	0.06	4757	1.0
y_mean[463]	-0.17	4.0e-4	0.03	-0.22	-0.19	-0.17	-0.15	-0.12	4326	1.0
y_mean[464]	-0.55	3.0e-4	0.02	-0.59	-0.56	-0.55	-0.54	-0.51	4696	1.0
y_mean[465]	-1.02	4.8e-4	0.03	-1.08	-1.04	-1.02	-0.99	-0.95	4793	1.0
y_mean[466]	-0.19	4.2e-4	0.03	-0.24	-0.2	-0.19	-0.17	-0.13	4124	1.0
y_mean[467]	0.68	4.4e-4	0.03	0.63	0.66	0.68	0.7	0.74	4180	1.0
y_mean[468]	0.45	9.4e-4	0.06	0.33	0.4	0.45	0.49	0.57	4431	1.0
y_mean[469]	3.85	1.7e-3	0.11	3.64	3.78	3.85	3.93	4.08	4149	1.0
y_mean[470]	-0.47	3.0e-4	0.02	-0.51	-0.48	-0.47	-0.46	-0.43	4751	1.0
y_mean[471]	0.82	6.6e-4	0.04	0.74	0.79	0.82	0.85	0.9	4060	1.0
y_mean[472]	-0.49	3.2e-4	0.02	-0.53	-0.5	-0.49	-0.47	-0.44	4948	1.0
y_mean[473]	-0.63	3.4e-4	0.02	-0.67	-0.64	-0.63	-0.61	-0.58	4792	1.0
y_mean[474]	-0.72	4.1e-4	0.03	-0.77	-0.74	-0.72	-0.7	-0.66	4575	1.0
y_mean[475]	0.61	4.1e-4	0.03	0.55	0.59	0.61	0.62	0.66	4326	1.0
y_mean[476]	1.77	1.2e-3	0.07	1.62	1.72	1.77	1.82	1.91	3862	1.0
y_mean[477]	-1.07	4.1e-4	0.03	-1.13	-1.09	-1.07	-1.05	-1.02	4502	1.0
y_mean[478]	-1.01	4.7e-4	0.03	-1.07	-1.03	-1.01	-0.99	-0.94	4772	1.0
y_mean[479]	0.32	4.8e-4	0.03	0.26	0.29	0.32	0.34	0.38	4198	1.0
y_mean[480]	-0.53	3.0e-4	0.02	-0.57	-0.55	-0.53	-0.52	-0.49	5038	1.0
y_mean[481]	0.23	4.3e-4	0.03	0.18	0.22	0.23	0.25	0.29	4038	1.0
y_mean[482]	-0.67	4.0e-4	0.03	-0.73	-0.69	-0.68	-0.66	-0.62	4678	1.0
y_mean[483]	0.23	4.3e-4	0.03	0.18	0.21	0.23	0.25	0.28	4026	1.0
y_mean[484]	-0.16	3.5e-4	0.02	-0.21	-0.18	-0.16	-0.15	-0.12	4489	1.0
y_mean[485]	1.33	9.2e-4	0.06	1.21	1.29	1.33	1.38	1.45	4713	1.0
y_mean[486]	-1.19	4.4e-4	0.03	-1.24	-1.21	-1.19	-1.17	-1.13	4457	1.0
y_mean[487]	-0.05	3.4e-4	0.02	-0.1	-0.07	-0.06	-0.04	-8.0e-3	4732	1.0
y_mean[488]	0.05	2.9e-4	0.02	0.02	0.04	0.05	0.07	0.09	4675	1.0
y_mean[489]	1.32	9.3e-4	0.06	1.2	1.28	1.32	1.36	1.44	4482	1.0
y_mean[490]	-0.73	4.0e-4	0.03	-0.78	-0.75	-0.73	-0.71	-0.67	4574	1.0
y_mean[491]	-0.66	3.3e-4	0.02	-0.71	-0.68	-0.66	-0.65	-0.62	4864	1.0
y_mean[492]	-0.23	3.2e-4	0.02	-0.27	-0.24	-0.23	-0.21	-0.18	4593	1.0
y_mean[493]	1.16	6.7e-4	0.04	1.08	1.14	1.16	1.19	1.25	4104	1.0
y_mean[494]	-0.4	3.0e-4	0.02	-0.44	-0.41	-0.4	-0.39	-0.36	4771	1.0
y_mean[495]	-0.51	2.9e-4	0.02	-0.55	-0.52	-0.51	-0.49	-0.47	4850	1.0
y_mean[496]	0.43	7.2e-4	0.05	0.34	0.4	0.43	0.46	0.52	3938	1.0
y_mean[497]	-0.2	3.1e-4	0.02	-0.24	-0.21	-0.2	-0.18	-0.15	4657	1.0
y_mean[498]	-0.34	5.4e-4	0.04	-0.42	-0.37	-0.34	-0.32	-0.27	5129	1.0
y_mean[499]	-0.38	3.6e-4	0.03	-0.43	-0.4	-0.38	-0.37	-0.33	5053	1.0
y_mean[500]	0.09	3.0e-4	0.02	0.05	0.07	0.09	0.1	0.13	4432	1.0
y_mean[501]	0.53	4.1e-4	0.03	0.48	0.52	0.53	0.55	0.59	4473	1.0

	mean	se_mean	sd	2.5%	25%	50%	75%	97.5%	n_eff	Rhat
y_mean[502]	0.16	3.4e-4	0.02	0.12	0.15	0.16	0.18	0.21	4282	1.0
y_mean[503]	0.71	4.5e-4	0.03	0.65	0.68	0.71	0.73	0.76	4641	1.0
y_mean[504]	0.24	3.6e-4	0.02	0.2	0.23	0.25	0.26	0.29	4602	1.0
y_mean[505]	-0.72	3.7e-4	0.03	-0.76	-0.73	-0.72	-0.7	-0.67	4693	1.0
y_mean[506]	-0.02	2.9e-4	0.02	-0.06	-0.04	-0.02	-8.7e-3	0.02	4770	1.0
y_mean[507]	0.73	4.9e-4	0.03	0.67	0.71	0.73	0.75	0.79	4077	1.0
y_mean[508]	-0.4	4.1e-4	0.03	-0.45	-0.42	-0.4	-0.38	-0.34	4182	1.0
y_mean[509]	-0.63	4.4e-4	0.03	-0.68	-0.65	-0.63	-0.6	-0.57	4815	1.0
y_mean[510]	-0.53	3.8e-4	0.03	-0.58	-0.55	-0.53	-0.51	-0.48	4803	1.0
y_mean[511]	-0.53	2.9e-4	0.02	-0.57	-0.54	-0.53	-0.51	-0.49	4888	1.0
y_mean[512]	-0.58	4.0e-4	0.03	-0.63	-0.6	-0.58	-0.56	-0.52	5234	1.0
y_mean[513]	-0.48	3.0e-4	0.02	-0.52	-0.5	-0.48	-0.47	-0.44	4705	1.0
y_mean[514]	0.89	4.1e-4	0.03	0.84	0.87	0.89	0.91	0.94	4359	1.0
y_mean[515]	-0.6	4.0e-4	0.03	-0.65	-0.62	-0.6	-0.58	-0.55	4763	1.0
y_mean[516]	-0.53	2.9e-4	0.02	-0.57	-0.54	-0.53	-0.51	-0.49	4888	1.0
y_mean[517]	-0.19	4.3e-4	0.03	-0.25	-0.21	-0.2	-0.18	-0.14	4597	1.0
y_mean[518]	-0.47	3.4e-4	0.02	-0.51	-0.48	-0.47	-0.45	-0.42	4636	1.0
y_mean[519]	0.32	4.2e-4	0.03	0.26	0.3	0.32	0.34	0.38	4774	1.0
y_mean[520]	0.61	4.1e-4	0.03	0.55	0.59	0.61	0.62	0.66	4387	1.0
y_mean[521]	3.97	1.5e-3	0.1	3.78	3.9	3.96	4.03	4.15	4202	1.0
y_mean[522]	-0.4	3.7e-4	0.02	-0.45	-0.42	-0.4	-0.39	-0.35	4578	1.0
y_mean[523]	-0.31	5.2e-4	0.04	-0.38	-0.33	-0.31	-0.29	-0.24	4633	1.0
y_mean[524]	0.2	3.1e-4	0.02	0.16	0.18	0.2	0.21	0.24	5167	1.0
y_mean[525]	-0.29	4.4e-4	0.03	-0.34	-0.31	-0.29	-0.27	-0.23	4261	1.0
y_mean[526]	1.09	8.6e-4	0.06	0.98	1.05	1.09	1.13	1.19	4096	1.0
y_mean[527]	-0.07	4.7e-4	0.03	-0.13	-0.09	-0.07	-0.04	-2.1e-3	4454	1.0
y_mean[528]	0.73	6.7e-4	0.04	0.65	0.7	0.73	0.76	0.81	4037	1.0
y_mean[529]	-1.05	4.2e-4	0.03	-1.1	-1.07	-1.05	-1.03	-0.99	4397	1.0
y_mean[530]	-0.7	3.5e-4	0.02	-0.75	-0.72	-0.7	-0.68	-0.65	4747	1.0
y_mean[531]	-0.4	4.4e-4	0.03	-0.46	-0.42	-0.4	-0.38	-0.34	5082	1.0
y_mean[532]	-0.52	4.0e-4	0.03	-0.58	-0.54	-0.52	-0.51	-0.47	4827	1.0
y_mean[533]	-0.5	3.1e-4	0.02	-0.54	-0.51	-0.5	-0.48	-0.45	5073	1.0
y_mean[534]	-0.48	2.8e-4	0.02	-0.52	-0.5	-0.48	-0.47	-0.44	4838	1.0
y_mean[535]	0.22	2.5e-4	0.02	0.19	0.21	0.22	0.24	0.26	5003	1.0
y_mean[536]	0.38	7.7e-4	0.05	0.28	0.35	0.38	0.42	0.49	4360	1.0
y_mean[537]	0.51	5.3e-4	0.03	0.44	0.49	0.51	0.54	0.58	4340	1.0
y_mean[538]	2.26	9.5e-4	0.06	2.14	2.22	2.26	2.3	2.38	4028	1.0
y_mean[539]	-0.14	4.6e-4	0.03	-0.2	-0.16	-0.14	-0.12	-0.07	4851	1.0
y_mean[540]	2.28	1.1e-3	0.07	2.13	2.23	2.28	2.33	2.42	4262	1.0
y_mean[541]	0.05	3.0e-4	0.02	7.5e-3	0.03	0.05	0.06	0.09	4768	1.0
y_mean[542]	0.09	3.0e-4	0.02	0.05	0.07	0.08	0.1	0.13	4444	1.0
y_mean[543]	1.03	9.0e-4	0.06	0.92	0.99	1.03	1.07	1.14	3942	1.0
y_mean[544]	0.21	4.3e-4	0.03	0.16	0.19	0.21	0.23	0.27	4033	1.0
y_mean[545]	0.99	9.0e-4	0.06	0.87	0.95	0.99	1.03	1.11	4412	1.0
y_mean[546]	0.63	4.2e-4	0.03	0.58	0.61	0.63	0.65	0.69	4280	1.0
y_mean[547]	-0.49	3.1e-4	0.02	-0.53	-0.5	-0.49	-0.47	-0.44	4918	1.0
y_mean[548]	-0.72	4.0e-4	0.03	-0.77	-0.74	-0.72	-0.7	-0.66	4579	1.0
y_mean[549]	-0.59	3.0e-4	0.02	-0.63	-0.6	-0.59	-0.57	-0.54	4860	1.0

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y_mean[550]	0.06	2.9e-4	0.02	0.02	0.04	0.06	0.07	0.1	4629	1.0
y_mean[551]	1.34	6.7e-4	0.04	1.26	1.31	1.34	1.37	1.43	4032	1.0
y_mean[552]	2.72	9.9e-4	0.06	2.59	2.68	2.72	2.76	2.85	4204	1.0
y_mean[553]	0.13	3.2e-4	0.02	0.09	0.12	0.13	0.15	0.18	4322	1.0
y_mean[554]	-0.15	4.6e-4	0.03	-0.21	-0.17	-0.15	-0.13	-0.09	4617	1.0
y_mean[555]	-0.14	5.3e-4	0.04	-0.22	-0.17	-0.14	-0.12	-0.07	4958	1.0
y_mean[556]	-1.52	7.0e-4	0.05	-1.6	-1.55	-1.52	-1.49	-1.43	4221	1.0
y_mean[557]	0.1	5.3e-4	0.03	0.03	0.07	0.1	0.12	0.17	4337	1.0
y_mean[558]	0.92	4.5e-4	0.03	0.86	0.9	0.92	0.94	0.98	4662	1.0
y_mean[559]	0.18	3.3e-4	0.02	0.13	0.16	0.18	0.19	0.22	4920	1.0
y_mean[560]	-6.8e-3	4.4e-4	0.03	-0.07	-0.03	-7.1e-3	0.01	0.05	4906	1.0
y_mean[561]	-0.03	5.1e-4	0.03	-0.1	-0.06	-0.03	-0.01	0.03	4042	1.0
y_mean[562]	1.96	8.7e-4	0.06	1.84	1.92	1.96	2.0	2.07	4359	1.0
y_mean[563]	-1.65	6.1e-4	0.04	-1.72	-1.67	-1.65	-1.62	-1.57	4263	1.0
y_mean[564]	0.92	6.3e-4	0.04	0.84	0.89	0.92	0.95	1.0	3970	1.0
y_mean[565]	-0.15	6.1e-4	0.04	-0.23	-0.17	-0.15	-0.12	-0.06	4741	1.0
y_mean[566]	-0.16	3.9e-4	0.03	-0.21	-0.18	-0.16	-0.14	-0.11	4676	1.0
y_mean[567]	2.05	8.4e-4	0.05	1.94	2.01	2.05	2.09	2.16	4107	1.0
y_mean[568]	-0.19	4.4e-4	0.03	-0.24	-0.21	-0.19	-0.17	-0.13	4070	1.0
y_mean[569]	-0.26	3.8e-4	0.02	-0.31	-0.28	-0.26	-0.25	-0.21	4220	1.0
y_mean[570]	0.71	4.6e-4	0.03	0.65	0.69	0.71	0.73	0.76	4125	1.0
y_mean[571]	-0.33	4.0e-4	0.03	-0.38	-0.35	-0.33	-0.31	-0.28	4271	1.0
y_mean[572]	-0.55	2.9e-4	0.02	-0.59	-0.56	-0.55	-0.53	-0.51	4699	1.0
y_mean[573]	0.65	5.1e-4	0.03	0.58	0.62	0.65	0.67	0.72	4655	1.0
y_mean[574]	-0.31	3.6e-4	0.02	-0.36	-0.33	-0.31	-0.3	-0.27	4730	1.0
y_mean[575]	0.32	4.9e-4	0.03	0.25	0.29	0.32	0.34	0.38	4072	1.0
y_mean[576]	-0.49	2.9e-4	0.02	-0.53	-0.5	-0.49	-0.48	-0.45	4799	1.0
y_mean[577]	1.63	9.4e-4	0.06	1.51	1.59	1.63	1.67	1.74	4088	1.0
y_mean[578]	1.06	6.2e-4	0.04	0.98	1.03	1.06	1.09	1.14	4340	1.0
y_mean[579]	-0.44	2.8e-4	0.02	-0.47	-0.45	-0.44	-0.42	-0.4	4771	1.0
y_mean[580]	0.24	2.5e-4	0.02	0.2	0.23	0.24	0.25	0.28	5078	1.0
y_mean[581]	-0.54	2.9e-4	0.02	-0.58	-0.55	-0.54	-0.52	-0.5	4872	1.0
y_mean[582]	-0.22	4.6e-4	0.03	-0.28	-0.24	-0.22	-0.2	-0.16	4564	1.0
y_mean[583]	-1.08	4.2e-4	0.03	-1.14	-1.1	-1.09	-1.07	-1.03	4486	1.0
y_mean[584]	0.54	5.1e-4	0.03	0.48	0.52	0.54	0.57	0.61	4043	1.0
y_mean[585]	-0.74	4.2e-4	0.03	-0.8	-0.76	-0.74	-0.72	-0.68	4950	1.0
y_mean[586]	-0.12	3.9e-4	0.03	-0.17	-0.14	-0.12	-0.1	-0.06	5011	1.0
y_mean[587]	2.41	2.2e-3	0.15	2.1	2.31	2.41	2.52	2.71	4957	1.0
y_mean[588]	-0.71	4.1e-4	0.03	-0.76	-0.73	-0.71	-0.69	-0.65	4666	1.0
y_mean[589]	0.5	4.5e-4	0.03	0.44	0.48	0.5	0.52	0.56	4713	1.0
y_mean[590]	-0.32	3.1e-4	0.02	-0.36	-0.33	-0.32	-0.3	-0.27	4982	1.0
y_mean[591]	-1.35	7.1e-4	0.05	-1.44	-1.38	-1.35	-1.32	-1.26	4362	1.0
y_mean[592]	-0.55	3.0e-4	0.02	-0.59	-0.56	-0.55	-0.53	-0.5	4845	1.0
y_mean[593]	-0.54	3.7e-4	0.02	-0.59	-0.56	-0.54	-0.53	-0.5	4590	1.0
y_mean[594]	-0.58	3.1e-4	0.02	-0.62	-0.59	-0.58	-0.56	-0.54	4886	1.0
y_mean[595]	-1.1	4.2e-4	0.03	-1.15	-1.12	-1.1	-1.08	-1.05	4455	1.0
y_mean[596]	1.45	7.6e-4	0.05	1.35	1.42	1.45	1.48	1.55	4337	1.0
y_mean[597]	0.5	5.0e-4	0.04	0.43	0.47	0.5	0.52	0.57	4949	1.0

y_mean[598]	-0.66	5.1e-4	0.03	-0.72	-0.68	-0.66	-0.64	-0.59	4462	1.0
y_mean[599]	-0.73	3.8e-4	0.03	-0.78	-0.75	-0.73	-0.71	-0.68	4809	1.0
y_mean[600]	0.74	6.9e-4	0.05	0.64	0.71	0.74	0.77	0.83	4514	1.0
y_mean[601]	-0.77	4.1e-4	0.03	-0.82	-0.78	-0.77	-0.75	-0.71	4674	1.0
y_mean[602]	0.71	4.7e-4	0.03	0.65	0.69	0.71	0.73	0.77	4108	1.0
y_mean[603]	0.83	5.3e-4	0.03	0.77	0.81	0.83	0.86	0.9	4041	1.0
y_mean[604]	-0.19	3.9e-4	0.03	-0.24	-0.21	-0.19	-0.18	-0.14	4412	1.0
y_mean[605]	0.32	3.9e-4	0.03	0.27	0.3	0.32	0.34	0.37	4680	1.0
y_mean[606]	-0.37	3.8e-4	0.03	-0.42	-0.39	-0.37	-0.35	-0.32	4852	1.0
y_mean[607]	0.9	5.5e-4	0.04	0.83	0.88	0.9	0.93	0.98	4220	1.0
y_mean[608]	2.62	1.6e-3	0.11	2.41	2.55	2.62	2.69	2.82	4662	1.0
y_mean[609]	-0.58	5.6e-4	0.04	-0.65	-0.6	-0.58	-0.55	-0.5	4687	1.0
y_mean[610]	-0.56	2.8e-4	0.02	-0.6	-0.57	-0.56	-0.54	-0.52	4830	1.0
y_mean[611]	-0.45	5.3e-4	0.04	-0.52	-0.48	-0.45	-0.43	-0.38	4365	1.0
y_mean[612]	2.01	7.9e-4	0.05	1.91	1.97	2.01	2.04	2.1	4150	1.0
y_mean[613]	-0.07	5.5e-4	0.04	-0.14	-0.09	-0.07	-0.04	9.3e-3	4849	1.0
y_mean[614]	0.06	1.0e-3	0.07	-0.08	0.01	0.06	0.11	0.21	5056	1.0
y_mean[615]	-0.72	3.8e-4	0.03	-0.77	-0.74	-0.72	-0.7	-0.67	4624	1.0
y_mean[616]	0.36	5.4e-4	0.04	0.29	0.34	0.36	0.39	0.43	4454	1.0
y_mean[617]	0.26	5.9e-4	0.04	0.18	0.23	0.26	0.29	0.34	5031	1.0
y_mean[618]	-0.2	5.8e-4	0.04	-0.27	-0.22	-0.2	-0.17	-0.12	4520	1.0
y_mean[619]	-0.06	3.2e-4	0.02	-0.1	-0.07	-0.06	-0.04	-0.01	4740	1.0
y_mean[620]	2.86	1.3e-3	0.08	2.7	2.81	2.86	2.92	3.02	4059	1.0
y_mean[621]	-1.45	7.5e-4	0.05	-1.54	-1.48	-1.45	-1.42	-1.35	4187	1.0
y_mean[622]	-1.0	4.3e-4	0.03	-1.06	-1.02	-1.01	-0.99	-0.95	4442	1.0
y_mean[623]	1.34	8.0e-4	0.05	1.24	1.3	1.34	1.37	1.43	3913	1.0
y_mean[624]	-0.61	3.1e-4	0.02	-0.65	-0.62	-0.61	-0.6	-0.57	4820	1.0
y_mean[625]	-0.55	2.8e-4	0.02	-0.58	-0.56	-0.55	-0.53	-0.51	4784	1.0
y_mean[626]	0.03	3.5e-4	0.02	-0.02	0.01	0.03	0.05	0.08	4881	1.0
y_mean[627]	-0.23	5.9e-4	0.04	-0.3	-0.25	-0.23	-0.2	-0.15	4383	1.0
y_mean[628]	0.79	5.8e-4	0.04	0.71	0.76	0.79	0.82	0.87	4523	1.0
y_mean[629]	-0.08	4.0e-4	0.03	-0.13	-0.09	-0.08	-0.06	-0.02	4330	1.0
y_mean[630]	-0.34	3.0e-4	0.02	-0.38	-0.36	-0.34	-0.33	-0.3	4791	1.0
y_mean[631]	-0.74	4.2e-4	0.03	-0.8	-0.76	-0.74	-0.72	-0.69	4540	1.0
y_mean[632]	-0.39	3.5e-4	0.02	-0.44	-0.41	-0.39	-0.38	-0.34	4788	1.0
y_mean[633]	-0.61	3.4e-4	0.02	-0.66	-0.63	-0.61	-0.6	-0.57	5063	1.0
y_mean[634]	-0.79	4.9e-4	0.03	-0.85	-0.81	-0.79	-0.77	-0.72	4468	1.0
y_mean[635]	1.31	7.6e-4	0.05	1.22	1.28	1.31	1.35	1.41	3971	1.0
y_mean[636]	-0.08	4.4e-4	0.03	-0.14	-0.1	-0.08	-0.06	-0.02	4911	1.0
y_mean[637]	0.01	2.9e-4	0.02	-0.03	-4.8e-4	0.01	0.03	0.05	4741	1.0
y_mean[638]	-0.99	5.5e-4	0.04	-1.06	-1.02	-0.99	-0.97	-0.92	4266	1.0
y_mean[639]	-0.05	4.6e-4	0.03	-0.11	-0.07	-0.05	-0.02	0.02	4648	1.0
y_mean[640]	-0.56	3.0e-4	0.02	-0.6	-0.57	-0.56	-0.54	-0.52	4901	1.0
y_mean[641]	-0.92	4.1e-4	0.03	-0.97	-0.94	-0.92	-0.9	-0.86	4553	1.0
y_mean[642]	-0.79	4.9e-4	0.03	-0.85	-0.81	-0.79	-0.77	-0.72	4464	1.0
y_mean[643]	0.47	6.5e-4	0.04	0.39	0.44	0.47	0.49	0.55	4260	1.0
y_mean[644]	0.58	4.8e-4	0.03	0.52	0.56	0.58	0.6	0.64	4309	1.0
y_mean[645]	-0.26	5.0e-4	0.03	-0.32	-0.28	-0.26	-0.23	-0.19	4523	1.0

y_mean[646]	-0.08	5.6e-4	0.04	-0.15	-0.1	-0.08	-0.05	2.5e-3	4869	1.0
y_mean[647]	-0.2	4.0e-4	0.03	-0.25	-0.22	-0.2	-0.18	-0.15	4302	1.0
y_mean[648]	0.02	2.9e-4	0.02	-0.02	3.5e-3	0.02	0.03	0.06	4737	1.0
y_mean[649]	0.06	3.1e-4	0.02	0.02	0.04	0.06	0.07	0.1	4790	1.0
y_mean[650]	-0.08	3.9e-4	0.03	-0.13	-0.1	-0.08	-0.06	-0.03	4579	1.0
y_mean[651]	1.65	1.0e-3	0.07	1.53	1.61	1.65	1.7	1.78	4239	1.0
y_mean[652]	-0.67	4.4e-4	0.03	-0.73	-0.69	-0.67	-0.65	-0.61	4906	1.0
y_mean[653]	0.28	5.3e-4	0.03	0.21	0.25	0.28	0.3	0.34	4148	1.0
y_mean[654]	-0.55	3.2e-4	0.02	-0.59	-0.57	-0.55	-0.54	-0.51	4644	1.0
y_mean[655]	-0.89	4.9e-4	0.03	-0.96	-0.92	-0.89	-0.87	-0.83	4512	1.0
y_mean[656]	0.08	3.7e-4	0.03	0.03	0.06	0.08	0.1	0.13	4946	1.0
y_mean[657]	1.41	8.4e-4	0.06	1.3	1.37	1.41	1.45	1.52	4623	1.0
y_mean[658]	-1.2	4.5e-4	0.03	-1.26	-1.23	-1.2	-1.18	-1.14	4478	1.0
y_mean[659]	0.14	3.5e-4	0.02	0.1	0.13	0.14	0.16	0.19	4185	1.0
y_mean[660]	0.24	4.2e-4	0.03	0.19	0.22	0.24	0.26	0.3	4633	1.0
y_mean[661]	-0.54	3.9e-4	0.03	-0.59	-0.56	-0.54	-0.52	-0.49	4567	1.0
y_mean[662]	0.05	5.7e-4	0.04	-0.02	0.03	0.05	0.08	0.13	4285	1.0
y_mean[663]	-1.14	4.4e-4	0.03	-1.2	-1.16	-1.14	-1.12	-1.08	4457	1.0
y_mean[664]	0.13	2.8e-4	0.02	0.09	0.12	0.13	0.15	0.17	5741	1.0
y_mean[665]	0.78	4.9e-4	0.03	0.72	0.76	0.78	0.81	0.85	4076	1.0
y_mean[666]	1.02	7.1e-4	0.05	0.93	0.99	1.02	1.05	1.11	4055	1.0
y_mean[667]	-0.23	4.7e-4	0.03	-0.29	-0.25	-0.23	-0.21	-0.17	4548	1.0
y_mean[668]	-0.6	2.9e-4	0.02	-0.64	-0.61	-0.6	-0.59	-0.56	4828	1.0
y_mean[669]	0.7	4.5e-4	0.03	0.64	0.68	0.7	0.72	0.75	4153	1.0
y_mean[670]	0.8	6.4e-4	0.04	0.71	0.77	0.79	0.82	0.88	4102	1.0
y_mean[671]	-0.68	4.4e-4	0.03	-0.75	-0.7	-0.68	-0.66	-0.62	4932	1.0
y_mean[672]	0.13	3.2e-4	0.02	0.09	0.12	0.13	0.15	0.18	4309	1.0
y_mean[673]	-0.11	5.3e-4	0.04	-0.18	-0.13	-0.1	-0.08	-0.03	5163	1.0
y_mean[674]	-0.55	3.2e-4	0.02	-0.6	-0.57	-0.55	-0.54	-0.51	4658	1.0
y_mean[675]	-0.35	6.1e-4	0.04	-0.43	-0.38	-0.35	-0.32	-0.27	4443	1.0
y_mean[676]	0.59	6.3e-4	0.04	0.5	0.56	0.59	0.62	0.67	4679	1.0
y_mean[677]	-0.54	3.0e-4	0.02	-0.58	-0.56	-0.54	-0.53	-0.5	4665	1.0
y_mean[678]	0.07	3.1e-4	0.02	0.03	0.06	0.07	0.09	0.12	5513	1.0
y_mean[679]	0.18	4.6e-4	0.03	0.12	0.16	0.17	0.2	0.23	4192	1.0
y_mean[680]	-0.98	5.1e-4	0.04	-1.05	-1.0	-0.98	-0.95	-0.91	4842	1.0
y_mean[681]	0.11	5.7e-4	0.04	0.04	0.09	0.11	0.14	0.19	4243	1.0
y_mean[682]	-0.1	4.9e-4	0.03	-0.16	-0.12	-0.1	-0.08	-0.04	4013	1.0
y_mean[683]	0.38	3.0e-4	0.02	0.33	0.36	0.38	0.39	0.42	5136	1.0
y_mean[684]	0.39	3.6e-4	0.03	0.34	0.38	0.39	0.41	0.44	4924	1.0
y_mean[685]	0.69	4.5e-4	0.03	0.63	0.67	0.69	0.71	0.75	4146	1.0
y_mean[686]	0.69	4.3e-4	0.03	0.64	0.67	0.69	0.71	0.75	4236	1.0
y_mean[687]	-0.34	3.9e-4	0.03	-0.39	-0.36	-0.34	-0.32	-0.29	4546	1.0
y_mean[688]	-0.71	3.6e-4	0.02	-0.76	-0.72	-0.71	-0.69	-0.66	4708	1.0
y_mean[689]	-0.05	4.2e-4	0.03	-0.1	-0.07	-0.05	-0.03	8.7e-3	4413	1.0
y_mean[690]	-0.77	4.3e-4	0.03	-0.83	-0.79	-0.77	-0.75	-0.72	4822	1.0
y_mean[691]	-1.12	4.2e-4	0.03	-1.17	-1.14	-1.12	-1.1	-1.06	4440	1.0
y_mean[692]	-0.66	3.4e-4	0.02	-0.7	-0.68	-0.66	-0.64	-0.61	4707	1.0
y_mean[693]	0.02	3.3e-4	0.02	-0.03	2.0e-3	0.02	0.03	0.06	4825	1.0

y_mean[694]	0.1	3.0e-4	0.02	0.06	0.08	0.1	0.11	0.14	4463	1.0
y_mean[695]	0.47	8.1e-4	0.05	0.37	0.44	0.47	0.51	0.58	4135	1.0
y_mean[696]	-0.04	5.8e-4	0.04	-0.12	-0.07	-0.04	-0.02	0.03	3929	1.0
y_mean[697]	-0.46	3.2e-4	0.02	-0.5	-0.47	-0.46	-0.44	-0.41	4849	1.0
y_mean[698]	-0.27	4.6e-4	0.03	-0.32	-0.29	-0.27	-0.25	-0.2	4233	1.0
y_mean[699]	2.29	8.5e-4	0.05	2.18	2.25	2.29	2.32	2.39	4013	1.0
y_mean[700]	-0.6	3.4e-4	0.02	-0.64	-0.61	-0.6	-0.58	-0.55	4874	1.0
y_mean[701]	-1.02	4.3e-4	0.03	-1.07	-1.04	-1.02	-1.0	-0.96	4386	1.0
y_mean[702]	-0.61	3.5e-4	0.02	-0.65	-0.62	-0.61	-0.59	-0.56	4794	1.0
y_mean[703]	-0.14	5.6e-4	0.04	-0.21	-0.16	-0.14	-0.12	-0.07	4007	1.0
y_mean[704]	0.73	5.5e-4	0.04	0.66	0.71	0.73	0.76	0.81	4674	1.0
y_mean[705]	0.44	5.9e-4	0.04	0.36	0.41	0.44	0.47	0.52	5134	1.0
y_mean[706]	0.19	3.5e-4	0.02	0.14	0.17	0.19	0.2	0.23	4844	1.0
y_mean[707]	-0.28	3.1e-4	0.02	-0.32	-0.29	-0.28	-0.26	-0.24	4732	1.0
y_mean[708]	-0.61	3.0e-4	0.02	-0.65	-0.63	-0.61	-0.6	-0.57	4830	1.0
y_mean[709]	1.07	7.0e-4	0.05	0.97	1.03	1.06	1.1	1.16	4830	1.0
y_mean[710]	-0.42	6.6e-4	0.04	-0.51	-0.45	-0.42	-0.39	-0.33	4510	1.0
y_mean[711]	-0.6	3.3e-4	0.02	-0.65	-0.62	-0.6	-0.59	-0.56	4843	1.0
y_mean[712]	-0.44	3.3e-4	0.02	-0.49	-0.46	-0.44	-0.43	-0.4	4355	1.0
y_mean[713]	-0.43	3.3e-4	0.02	-0.47	-0.44	-0.43	-0.41	-0.38	4493	1.0
y_mean[714]	-0.07	3.1e-4	0.02	-0.11	-0.08	-0.07	-0.05	-0.02	4753	1.0
y_mean[715]	0.06	4.3e-4	0.03	-6.9e-5	0.04	0.06	0.07	0.11	4562	1.0
y_mean[716]	-0.56	4.3e-4	0.03	-0.61	-0.58	-0.56	-0.54	-0.5	4627	1.0
y_mean[717]	-0.48	2.8e-4	0.02	-0.52	-0.5	-0.48	-0.47	-0.44	4838	1.0
y_mean[718]	0.97	7.0e-4	0.04	0.88	0.94	0.97	1.0	1.06	3928	1.0
y_mean[719]	-0.9	4.9e-4	0.03	-0.97	-0.93	-0.9	-0.88	-0.84	4641	1.0
y_mean[720]	-1.07	4.3e-4	0.03	-1.13	-1.09	-1.07	-1.05	-1.02	4391	1.0
y_mean[721]	0.49	4.2e-4	0.03	0.44	0.48	0.49	0.51	0.55	4564	1.0
y_mean[722]	-0.98	4.5e-4	0.03	-1.03	-1.0	-0.98	-0.95	-0.91	4611	1.0
y_mean[723]	-0.21	4.8e-4	0.03	-0.27	-0.23	-0.21	-0.18	-0.14	4532	1.0
y_mean[724]	0.12	3.2e-4	0.02	0.08	0.11	0.12	0.14	0.17	4677	1.0
y_mean[725]	0.97	6.4e-4	0.04	0.88	0.94	0.97	1.0	1.05	4385	1.0
y_mean[726]	-0.07	4.6e-4	0.03	-0.13	-0.09	-0.07	-0.05	-0.01	4159	1.0
y_mean[727]	-0.61	3.0e-4	0.02	-0.65	-0.63	-0.61	-0.6	-0.57	4809	1.0
y_mean[728]	0.04	2.8e-4	0.02	6.1e-3	0.03	0.04	0.06	0.08	4687	1.0
y_mean[729]	-0.6	4.8e-4	0.03	-0.66	-0.62	-0.6	-0.58	-0.53	4465	1.0
y_mean[730]	0.19	8.1e-4	0.05	0.09	0.16	0.19	0.23	0.29	4046	1.0
y_mean[731]	0.64	4.2e-4	0.03	0.59	0.62	0.64	0.66	0.7	4261	1.0
y_mean[732]	-0.56	3.0e-4	0.02	-0.6	-0.58	-0.56	-0.55	-0.52	4726	1.0
y_mean[733]	-0.39	3.7e-4	0.03	-0.44	-0.4	-0.39	-0.37	-0.34	4852	1.0
y_mean[734]	-0.54	2.8e-4	0.02	-0.58	-0.56	-0.54	-0.53	-0.5	4853	1.0
y_mean[735]	0.94	7.6e-4	0.05	0.84	0.91	0.94	0.98	1.04	4472	1.0
y_mean[736]	-0.41	5.5e-4	0.04	-0.49	-0.44	-0.41	-0.39	-0.34	4956	1.0
y_mean[737]	-0.69	3.9e-4	0.03	-0.74	-0.71	-0.69	-0.67	-0.64	4630	1.0
y_mean[738]	0.54	4.2e-4	0.03	0.49	0.52	0.54	0.56	0.59	4420	1.0
y_mean[739]	0.62	6.0e-4	0.04	0.54	0.59	0.62	0.65	0.71	5282	1.0
y_mean[740]	0.2	6.6e-4	0.04	0.11	0.17	0.2	0.23	0.29	4575	1.0
y_mean[741]	1.91	8.4e-4	0.05	1.8	1.87	1.91	1.94	2.01	4001	1.0

y_mean[742]	-0.6	3.0e-4	0.02	-0.64	-0.62	-0.6	-0.59	-0.56	4822	1.0
y_mean[743]	-1.02	5.2e-4	0.03	-1.08	-1.04	-1.02	-1.0	-0.95	4295	1.0
y_mean[744]	-0.09	4.1e-4	0.03	-0.14	-0.11	-0.09	-0.07	-0.04	4230	1.0
y_mean[745]	-0.57	2.8e-4	0.02	-0.61	-0.58	-0.57	-0.55	-0.53	4851	1.0
y_mean[746]	-0.44	7.0e-4	0.05	-0.53	-0.47	-0.44	-0.41	-0.35	4458	1.0
y_mean[747]	-0.58	2.9e-4	0.02	-0.62	-0.6	-0.58	-0.57	-0.54	4812	1.0
y_mean[748]	-1.13	4.2e-4	0.03	-1.19	-1.15	-1.13	-1.12	-1.08	4415	1.0
y_mean[749]	-0.51	4.2e-4	0.03	-0.56	-0.53	-0.51	-0.49	-0.45	4475	1.0
y_mean[750]	-0.5	6.0e-4	0.04	-0.58	-0.53	-0.5	-0.48	-0.42	4254	1.0
y_mean[751]	-0.6	3.0e-4	0.02	-0.64	-0.61	-0.6	-0.58	-0.56	4825	1.0
y_mean[752]	0.36	4.0e-4	0.03	0.31	0.34	0.36	0.38	0.41	4394	1.0
y_mean[753]	-0.11	4.4e-4	0.03	-0.16	-0.13	-0.11	-0.09	-0.05	4368	1.0
y_mean[754]	0.83	7.2e-4	0.05	0.74	0.8	0.83	0.86	0.92	4309	1.0
y_mean[755]	-0.03	4.3e-4	0.03	-0.08	-0.05	-0.03	-9.7e-3	0.03	4296	1.0
y_mean[756]	1.78	8.2e-4	0.05	1.68	1.75	1.78	1.82	1.89	4244	1.0
y_mean[757]	0.75	8.8e-4	0.06	0.63	0.71	0.75	0.79	0.86	4392	1.0
y_mean[758]	-0.03	4.2e-4	0.03	-0.09	-0.05	-0.04	-0.01	0.02	4532	1.0
y_mean[759]	0.51	4.3e-4	0.03	0.45	0.49	0.51	0.53	0.57	4760	1.0
y_mean[760]	0.27	6.3e-4	0.04	0.19	0.25	0.27	0.3	0.36	4216	1.0
y_mean[761]	0.66	5.8e-4	0.04	0.59	0.64	0.66	0.69	0.73	4115	1.0
y_mean[762]	-0.45	4.7e-4	0.03	-0.51	-0.47	-0.45	-0.43	-0.39	4290	1.0
y_mean[763]	-0.66	4.3e-4	0.03	-0.71	-0.68	-0.66	-0.63	-0.6	4883	1.0
y_mean[764]	-0.55	2.8e-4	0.02	-0.59	-0.56	-0.55	-0.54	-0.51	4761	1.0
y_mean[765]	-0.37	5.0e-4	0.03	-0.43	-0.39	-0.37	-0.35	-0.3	4148	1.0
y_mean[766]	0.92	6.2e-4	0.04	0.84	0.9	0.92	0.95	1.0	3980	1.0
y_mean[767]	0.84	5.4e-4	0.04	0.77	0.82	0.84	0.87	0.91	4304	1.0
y_mean[768]	-0.68	3.4e-4	0.02	-0.73	-0.7	-0.68	-0.67	-0.64	4708	1.0
y_mean[769]	0.3	4.7e-4	0.03	0.24	0.28	0.3	0.32	0.36	4417	1.0
y_mean[770]	0.11	3.3e-4	0.02	0.06	0.09	0.11	0.12	0.15	4815	1.0
y_mean[771]	-0.31	5.3e-4	0.04	-0.39	-0.34	-0.31	-0.29	-0.24	4948	1.0
y_mean[772]	-0.59	2.9e-4	0.02	-0.63	-0.61	-0.59	-0.58	-0.55	4824	1.0
y_mean[773]	-1.13	4.3e-4	0.03	-1.19	-1.15	-1.13	-1.11	-1.07	4437	1.0
y_mean[774]	0.16	3.4e-4	0.02	0.12	0.15	0.16	0.18	0.21	4233	1.0
y_mean[775]	-0.63	3.1e-4	0.02	-0.67	-0.64	-0.63	-0.61	-0.58	4775	1.0
y_mean[776]	0.07	2.9e-4	0.02	0.03	0.05	0.07	0.08	0.11	4702	1.0
y_mean[777]	0.46	5.9e-4	0.04	0.38	0.44	0.46	0.49	0.55	4695	1.0
y_mean[778]	-0.4	3.5e-4	0.02	-0.45	-0.42	-0.4	-0.39	-0.36	4413	1.0
y_mean[779]	-0.25	4.9e-4	0.03	-0.31	-0.27	-0.25	-0.23	-0.18	4536	1.0
y_mean[780]	-0.95	4.1e-4	0.03	-1.01	-0.97	-0.95	-0.93	-0.9	4605	1.0
y_mean[781]	0.09	3.3e-4	0.02	0.04	0.07	0.09	0.1	0.13	4340	1.0
y_mean[782]	-0.36	3.5e-4	0.02	-0.41	-0.38	-0.36	-0.35	-0.31	4923	1.0
y_mean[783]	-0.59	3.0e-4	0.02	-0.63	-0.61	-0.59	-0.58	-0.55	4789	1.0
y_mean[784]	-0.59	2.9e-4	0.02	-0.63	-0.6	-0.59	-0.58	-0.55	4801	1.0
y_mean[785]	-0.84	5.1e-4	0.04	-0.91	-0.86	-0.84	-0.82	-0.77	4912	1.0
y_mean[786]	-0.58	3.9e-4	0.03	-0.64	-0.6	-0.58	-0.57	-0.53	4925	1.0
y_mean[787]	-0.98	6.1e-4	0.04	-1.06	-1.01	-0.98	-0.95	-0.9	4571	1.0
y_mean[788]	-0.13	4.7e-4	0.03	-0.19	-0.15	-0.13	-0.1	-0.06	4804	1.0
y_mean[789]	0.07	4.8e-4	0.03	9.2e-3	0.05	0.07	0.09	0.13	4332	1.0

y_mean[790]	-0.13	4.2e-4	0.03	-0.18	-0.15	-0.13	-0.11	-0.08	4328	1.0
y_mean[791]	-0.45	3.1e-4	0.02	-0.49	-0.46	-0.45	-0.43	-0.4	4624	1.0
y_mean[792]	0.47	6.5e-4	0.04	0.39	0.44	0.47	0.5	0.55	4179	1.0
y_mean[793]	-0.64	3.8e-4	0.03	-0.69	-0.66	-0.64	-0.62	-0.59	4766	1.0
y_mean[794]	0.1	3.2e-4	0.02	0.06	0.09	0.1	0.12	0.15	4924	1.0
y_mean[795]	9.5e-3	5.6e-4	0.04	-0.06	-0.02	9.6e-3	0.04	0.09	4710	1.0
y_mean[796]	-0.08	4.8e-4	0.03	-0.14	-0.1	-0.08	-0.06	-0.02	4176	1.0
y_mean[797]	0.41	5.1e-4	0.03	0.34	0.39	0.41	0.43	0.47	4146	1.0
y_mean[798]	-0.56	3.0e-4	0.02	-0.6	-0.58	-0.56	-0.55	-0.52	4915	1.0
y_mean[799]	-1.05	4.4e-4	0.03	-1.11	-1.07	-1.05	-1.03	-0.99	4643	1.0
y_mean[800]	0.19	3.7e-4	0.03	0.14	0.17	0.19	0.21	0.24	4625	1.0
y_mean[801]	-0.41	3.3e-4	0.02	-0.46	-0.43	-0.41	-0.4	-0.37	4565	1.0
y_mean[802]	0.25	4.2e-4	0.03	0.19	0.23	0.25	0.26	0.3	4070	1.0
y_mean[803]	-1.03	4.6e-4	0.03	-1.09	-1.05	-1.03	-1.01	-0.97	4740	1.0
y_mean[804]	-0.44	3.6e-4	0.03	-0.49	-0.46	-0.44	-0.42	-0.39	4995	1.0
y_mean[805]	-0.09	6.0e-4	0.04	-0.18	-0.12	-0.09	-0.07	-0.01	4902	1.0
y_mean[806]	-0.81	4.7e-4	0.03	-0.87	-0.83	-0.81	-0.79	-0.74	4746	1.0
y_mean[807]	0.16	4.0e-4	0.03	0.11	0.14	0.16	0.18	0.22	4897	1.0
y_mean[808]	-1.06	5.2e-4	0.03	-1.13	-1.08	-1.06	-1.04	-0.99	4367	1.0
y_mean[809]	-0.45	3.2e-4	0.02	-0.49	-0.46	-0.45	-0.43	-0.4	4752	1.0
y_mean[810]	-0.42	3.5e-4	0.02	-0.47	-0.44	-0.42	-0.4	-0.37	4917	1.0
y_mean[811]	-0.52	3.3e-4	0.02	-0.56	-0.53	-0.52	-0.5	-0.47	4993	1.0
y_mean[812]	-0.23	5.6e-4	0.04	-0.3	-0.25	-0.23	-0.2	-0.15	4466	1.0
y_mean[813]	0.41	2.9e-4	0.02	0.37	0.4	0.41	0.42	0.45	4636	1.0
y_mean[814]	-1.18	4.3e-4	0.03	-1.24	-1.2	-1.18	-1.16	-1.12	4460	1.0
y_mean[815]	-0.26	3.3e-4	0.02	-0.3	-0.27	-0.26	-0.24	-0.21	4417	1.0
y_mean[816]	-0.19	3.9e-4	0.03	-0.24	-0.2	-0.19	-0.17	-0.13	4822	1.0
y_mean[817]	-0.16	3.8e-4	0.03	-0.21	-0.17	-0.16	-0.14	-0.1	4678	1.0
y_mean[818]	0.05	2.8e-4	0.02	0.02	0.04	0.05	0.07	0.09	4646	1.0
y_mean[819]	0.53	4.2e-4	0.03	0.48	0.51	0.53	0.55	0.58	4424	1.0
y_mean[820]	0.24	4.0e-4	0.03	0.19	0.22	0.24	0.26	0.29	4212	1.0
y_mean[821]	-0.58	3.8e-4	0.03	-0.63	-0.6	-0.58	-0.57	-0.53	4493	1.0
y_mean[822]	-0.33	4.6e-4	0.03	-0.39	-0.35	-0.33	-0.31	-0.28	4144	1.0
y_mean[823]	-0.21	3.6e-4	0.02	-0.25	-0.22	-0.21	-0.19	-0.16	4440	1.0
y_mean[824]	-0.37	3.2e-4	0.02	-0.41	-0.38	-0.37	-0.35	-0.32	4553	1.0
y_mean[825]	0.78	5.1e-4	0.04	0.71	0.76	0.78	0.8	0.85	4957	1.0
y_mean[826]	0.15	3.4e-4	0.02	0.11	0.14	0.15	0.17	0.2	4257	1.0
y_mean[827]	0.14	3.3e-4	0.02	0.1	0.13	0.14	0.16	0.18	4594	1.0
y_mean[828]	-0.62	4.2e-4	0.03	-0.68	-0.64	-0.62	-0.6	-0.57	4740	1.0
y_mean[829]	-1.14	4.3e-4	0.03	-1.19	-1.16	-1.14	-1.12	-1.08	4429	1.0
y_mean[830]	-0.69	3.5e-4	0.02	-0.73	-0.7	-0.69	-0.67	-0.64	4736	1.0
y_mean[831]	-0.27	5.8e-4	0.04	-0.34	-0.29	-0.27	-0.24	-0.19	4471	1.0
y_mean[832]	-0.59	2.9e-4	0.02	-0.63	-0.61	-0.59	-0.58	-0.55	4833	1.0
y_mean[833]	-0.62	3.1e-4	0.02	-0.67	-0.64	-0.63	-0.61	-0.58	4826	1.0
y_mean[834]	0.23	4.0e-4	0.03	0.18	0.21	0.23	0.24	0.28	4125	1.0
y_mean[835]	0.79	4.9e-4	0.03	0.73	0.77	0.79	0.81	0.85	4252	1.0
y_mean[836]	-0.68	3.6e-4	0.02	-0.73	-0.7	-0.68	-0.67	-0.63	4652	1.0
y_mean[837]	-0.39	6.9e-4	0.05	-0.49	-0.43	-0.39	-0.36	-0.3	5118	1.0

y_mean[838]	-0.76	4.1e-4	0.03	-0.82	-0.78	-0.76	-0.74	-0.71	4644	1.0
y_mean[839]	-0.08	3.2e-4	0.02	-0.12	-0.09	-0.08	-0.06	-0.03	4742	1.0
y_mean[840]	-0.39	3.5e-4	0.02	-0.43	-0.4	-0.39	-0.37	-0.34	4478	1.0
y_mean[841]	-2.0e-3	5.4e-4	0.03	-0.07	-0.03	-2.0e-3	0.02	0.06	4082	1.0
y_mean[842]	0.01	4.5e-4	0.03	-0.05	-9.3e-3	0.01	0.03	0.07	4346	1.0
y_mean[843]	3.0	1.2e-3	0.08	2.85	2.94	3.0	3.05	3.15	3999	1.0
y_mean[844]	0.44	4.6e-4	0.03	0.38	0.42	0.44	0.46	0.5	4544	1.0
y_mean[845]	0.06	4.8e-4	0.03	-4.2e-3	0.04	0.06	0.08	0.12	4254	1.0
y_mean[846]	0.68	4.3e-4	0.03	0.62	0.66	0.68	0.7	0.73	4306	1.0
y_mean[847]	1.2	6.6e-4	0.05	1.11	1.17	1.2	1.23	1.29	4767	1.0
y_mean[848]	0.58	4.6e-4	0.03	0.52	0.56	0.58	0.6	0.65	4721	1.0
y_mean[849]	-0.47	3.6e-4	0.02	-0.52	-0.49	-0.47	-0.46	-0.42	4366	1.0
y_mean[850]	-0.54	2.8e-4	0.02	-0.57	-0.55	-0.54	-0.52	-0.5	4828	1.0
y_mean[851]	2.63	1.2e-3	0.08	2.48	2.58	2.64	2.69	2.79	3895	1.0
y_mean[852]	0.14	5.2e-4	0.03	0.07	0.12	0.14	0.16	0.21	4445	1.0
y_mean[853]	-1.1	4.1e-4	0.03	-1.15	-1.11	-1.1	-1.08	-1.04	4457	1.0
y_mean[854]	-0.63	3.1e-4	0.02	-0.67	-0.64	-0.63	-0.61	-0.58	4772	1.0
y_mean[855]	-0.54	5.9e-4	0.04	-0.61	-0.56	-0.54	-0.51	-0.46	4215	1.0
y_mean[856]	0.51	7.2e-4	0.05	0.42	0.47	0.51	0.54	0.6	4559	1.0
y_mean[857]	0.26	5.5e-4	0.04	0.19	0.24	0.26	0.28	0.33	4268	1.0
y_mean[858]	-0.75	4.3e-4	0.03	-0.8	-0.77	-0.75	-0.73	-0.69	4534	1.0
y_mean[859]	0.14	3.1e-4	0.02	0.1	0.12	0.14	0.15	0.18	4805	1.0
y_mean[860]	0.75	4.9e-4	0.03	0.69	0.73	0.75	0.77	0.81	4051	1.0
y_mean[861]	0.15	3.1e-4	0.02	0.11	0.14	0.15	0.16	0.19	4650	1.0
y_mean[862]	-0.44	3.2e-4	0.02	-0.48	-0.46	-0.44	-0.43	-0.4	4412	1.0
y_mean[863]	-0.07	3.3e-4	0.02	-0.12	-0.09	-0.07	-0.06	-0.03	4844	1.0
y_mean[864]	-1.11	5.3e-4	0.04	-1.18	-1.13	-1.11	-1.09	-1.04	4459	1.0
y_mean[865]	1.48	1.0e-3	0.07	1.34	1.44	1.48	1.53	1.62	4779	1.0
y_mean[866]	0.7	4.6e-4	0.03	0.64	0.68	0.7	0.72	0.76	4419	1.0
y_mean[867]	-0.47	3.0e-4	0.02	-0.51	-0.48	-0.47	-0.46	-0.43	4751	1.0
y_mean[868]	0.23	3.9e-4	0.03	0.18	0.21	0.23	0.24	0.28	4305	1.0
y_mean[869]	1.43	8.5e-4	0.06	1.31	1.39	1.43	1.46	1.54	4641	1.0
y_mean[870]	-0.26	5.2e-4	0.04	-0.33	-0.28	-0.26	-0.24	-0.19	4604	1.0
y_mean[871]	-0.58	3.8e-4	0.03	-0.63	-0.6	-0.58	-0.57	-0.53	4714	1.0
y_mean[872]	0.76	4.9e-4	0.03	0.69	0.74	0.76	0.78	0.83	4924	1.0
y_mean[873]	-0.98	6.6e-4	0.04	-1.07	-1.01	-0.98	-0.95	-0.89	4303	1.0
y_mean[874]	0.78	8.5e-4	0.06	0.67	0.75	0.78	0.82	0.9	4397	1.0
y_mean[875]	1.33	6.0e-4	0.04	1.25	1.31	1.33	1.36	1.42	4632	1.0
y_mean[876]	-0.57	4.2e-4	0.03	-0.63	-0.59	-0.57	-0.55	-0.51	4663	1.0
y_mean[877]	-0.53	3.0e-4	0.02	-0.57	-0.54	-0.53	-0.52	-0.49	4910	1.0
y_mean[878]	-0.08	6.0e-4	0.04	-0.15	-0.1	-0.08	-0.05	-1.6e-3	3937	1.0
y_mean[879]	-0.22	4.1e-4	0.03	-0.28	-0.24	-0.22	-0.2	-0.16	5033	1.0
y_mean[880]	0.39	5.7e-4	0.04	0.32	0.37	0.39	0.41	0.46	4060	1.0
y_mean[881]	-0.16	6.0e-4	0.04	-0.23	-0.18	-0.16	-0.13	-0.08	4131	1.0
y_mean[882]	-0.08	4.0e-4	0.03	-0.14	-0.1	-0.08	-0.07	-0.03	4515	1.0
y_mean[883]	2.1	1.0e-3	0.07	1.97	2.06	2.1	2.15	2.23	4333	1.0
y_mean[884]	0.14	2.5e-4	0.02	0.11	0.13	0.14	0.15	0.18	5090	1.0
y_mean[885]	-0.53	3.1e-4	0.02	-0.57	-0.54	-0.53	-0.51	-0.48	4581	1.0

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y_mean[886]    -0.33   4.3e-4   0.03   -0.38    -0.35    -0.33    -0.31    -0.28    4133   1.0
y_mean[887]    -1.14   4.2e-4   0.03   -1.19    -1.16    -1.14    -1.12    -1.09    4404   1.0
y_mean[888]     0.23   4.7e-4   0.03    0.17     0.21     0.23     0.25     0.29    4005   1.0
y_mean[889]    -0.46   3.4e-4   0.02   -0.51    -0.48    -0.46    -0.44    -0.41    5098   1.0
y_mean[890]     0.98   6.9e-4   0.04    0.9      0.95     0.98     1.01     1.07    3975   1.0
y_mean[891]    -0.79   4.4e-4   0.03   -0.85    -0.81    -0.79    -0.77    -0.73    4791   1.0
y_mean[892]     1.4    7.1e-4   0.05    1.31     1.37     1.4      1.43     1.49    4159   1.0
y_mean[893]    -0.38   3.9e-4   0.03   -0.42    -0.39    -0.38    -0.36    -0.33    4184   1.0
y_mean[894]     1.08   4.2e-4   0.03    1.03     1.06     1.08     1.1      1.14    4430   1.0
y_mean[895]    -0.02   2.9e-4   0.02   -0.06    -0.03    -0.02   -5.6e-3    0.02    4759   1.0
y_mean[896]     1.33   7.5e-4   0.05    1.23     1.29     1.33     1.36     1.42    3967   1.0
y_mean[897]     0.77   4.9e-4   0.03    0.71     0.74     0.77     0.79     0.83    4063   1.0
y_mean[898]    -0.54   2.8e-4   0.02   -0.57    -0.55    -0.54    -0.52    -0.5     4742   1.0
y_mean[899]     0.21   6.5e-4   0.04    0.13     0.18     0.21     0.24     0.29    4175   1.0
y_mean[900]    -0.53   2.9e-4   0.02   -0.57    -0.55    -0.54    -0.52    -0.49    4898   1.0
y_mean[901]    -0.48   4.3e-4   0.03   -0.53    -0.5     -0.48    -0.46    -0.42    4390   1.0
y_mean[902]     0.69   6.0e-4   0.04    0.62     0.67     0.69     0.72     0.77    4131   1.0
y_mean[903]    -0.65   4.0e-4   0.03   -0.71    -0.67    -0.66    -0.64    -0.6     4505   1.0
y_mean[904]     0.03   2.8e-4   0.02  -4.4e-3    0.02     0.03     0.05     0.07    4695   1.0
y_mean[905]    -0.67   3.6e-4   0.02   -0.72    -0.69    -0.67    -0.66    -0.62    4673   1.0
y_mean[906]    -0.19   4.4e-4   0.03   -0.25    -0.21    -0.19    -0.17    -0.13    5004   1.0
y_mean[907]    -0.9    5.2e-4   0.03   -0.96    -0.92    -0.9     -0.87    -0.83    4211   1.0
y_mean[908]     1.72   8.3e-4   0.06    1.61     1.68     1.72     1.76     1.82    4603   1.0
y_mean[909]     0.29   2.8e-4   0.02    0.25     0.28     0.29     0.3      0.33    5151   1.0
y_mean[910]    -0.68   7.6e-4   0.05   -0.78    -0.72    -0.68    -0.64    -0.58    4913   1.0
y_mean[911]    -0.12   3.5e-4   0.02   -0.17    -0.14    -0.12    -0.11    -0.07    4762   1.0
y_mean[912]     0.16   3.4e-4   0.02    0.12     0.15     0.16     0.18     0.21    4354   1.0
y_mean[913]    -0.01   5.4e-4   0.04   -0.08    -0.03    -0.01     0.01     0.06    4213   1.0
y_mean[914]     0.31   4.0e-4   0.03    0.26     0.3      0.31     0.33     0.36    4357   1.0
y_mean[915]     0.02   6.4e-4   0.04   -0.06   -4.4e-3    0.02     0.05     0.1     4098   1.0
y_mean[916]     0.88   7.6e-4   0.05    0.77     0.84     0.88     0.91     0.98    4849   1.0
y_mean[917]    -1.03   4.4e-4   0.03   -1.08    -1.05    -1.03    -1.01    -0.97    4641   1.0
y_mean[918]    -0.08   3.7e-4   0.03   -0.13    -0.1     -0.09    -0.07    -0.03    4693   1.0
y_mean[919]     0.29   3.0e-4   0.02    0.25     0.28     0.29     0.31     0.33    4967   1.0
y_mean[920]     0.21   3.8e-4   0.02    0.16     0.19     0.21     0.22     0.26    4131   1.0
y_mean[921]     0.21   7.2e-4   0.05    0.12     0.18     0.21     0.25     0.31    4495   1.0
y_mean[922]     1.4    5.9e-4   0.04    1.32     1.37     1.4      1.43     1.48    4629   1.0
y_mean[923]     0.21   4.0e-4   0.03    0.15     0.19     0.21     0.23     0.26    5489   1.0
y_mean[924]    -0.28   4.9e-4   0.03   -0.35    -0.31    -0.28    -0.26    -0.22    4661   1.0
y_mean[925]    -0.19   4.2e-4   0.03   -0.24    -0.21    -0.19    -0.17    -0.13    4670   1.0
y_mean[926]    -0.47   3.1e-4   0.02   -0.51    -0.49    -0.47    -0.46    -0.43    4479   1.0
y_mean[927]     0.18   2.7e-4   0.02    0.14     0.17     0.18     0.19     0.22    5605   1.0
y_mean[928]     0.9    5.1e-4   0.03    0.83     0.87     0.9      0.92     0.96    4597   1.0
y_mean[929]    -0.34   4.3e-4   0.03   -0.39    -0.35    -0.34    -0.32    -0.28    4122   1.0
y_mean[930]     1.16   8.3e-4   0.06    1.05     1.12     1.16     1.2      1.27    4575   1.0
y_mean[931]    -1.38   7.9e-4   0.05   -1.48    -1.42    -1.38    -1.35    -1.28    4161   1.0
y_mean[932]     0.53   4.9e-4   0.03    0.47     0.51     0.53     0.55     0.59    4076   1.0
y_mean[933]     1.84   6.5e-4   0.04    1.76     1.81     1.84     1.87     1.92    4068   1.0
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	mean	se_mean	sd	2.5%	25%	50%	75%	97.5%	n_eff	Rhat
y_mean[934]	1.11	8.0e-4	0.05	1.01	1.08	1.11	1.15	1.22	4294	1.0
y_mean[935]	2.6	1.2e-3	0.08	2.44	2.54	2.6	2.65	2.74	4048	1.0
y_mean[936]	-0.41	7.2e-4	0.05	-0.51	-0.45	-0.41	-0.38	-0.32	4446	1.0
y_mean[937]	-0.51	2.9e-4	0.02	-0.55	-0.52	-0.51	-0.5	-0.47	5167	1.0
y_mean[938]	1.1	4.5e-4	0.03	1.04	1.08	1.1	1.12	1.16	4308	1.0
y_mean[939]	-0.36	4.7e-4	0.03	-0.42	-0.38	-0.36	-0.34	-0.3	4273	1.0
y_mean[940]	0.2	3.4e-4	0.02	0.15	0.18	0.2	0.21	0.24	4922	1.0
y_mean[941]	-0.77	9.2e-4	0.06	-0.89	-0.82	-0.77	-0.73	-0.65	4629	1.0
y_mean[942]	-0.13	3.7e-4	0.02	-0.18	-0.15	-0.13	-0.11	-0.08	4356	1.0
y_mean[943]	0.48	4.5e-4	0.03	0.43	0.46	0.48	0.5	0.54	4460	1.0
y_mean[944]	0.99	7.1e-4	0.05	0.89	0.95	0.99	1.02	1.08	4425	1.0
y_mean[945]	-0.3	2.9e-4	0.02	-0.34	-0.32	-0.3	-0.29	-0.26	4680	1.0
y_mean[946]	-0.25	5.0e-4	0.03	-0.32	-0.27	-0.25	-0.23	-0.18	4804	1.0
y_mean[947]	1.77	9.3e-4	0.06	1.66	1.73	1.77	1.81	1.89	4230	1.0
y_mean[948]	1.02	6.2e-4	0.04	0.94	0.99	1.02	1.05	1.1	4280	1.0
y_mean[949]	0.33	5.3e-4	0.03	0.27	0.31	0.33	0.36	0.4	4003	1.0
y_mean[950]	0.06	4.2e-4	0.03	4.9e-3	0.04	0.06	0.08	0.12	4633	1.0
y_mean[951]	0.38	5.6e-4	0.04	0.31	0.36	0.38	0.41	0.45	4115	1.0
y_mean[952]	0.2	4.7e-4	0.03	0.14	0.18	0.2	0.22	0.26	4954	1.0
y_mean[953]	-0.53	3.6e-4	0.03	-0.58	-0.55	-0.53	-0.51	-0.48	4991	1.0
y_mean[954]	-0.64	3.1e-4	0.02	-0.68	-0.65	-0.64	-0.63	-0.6	4768	1.0
y_mean[955]	-1.02	4.5e-4	0.03	-1.08	-1.04	-1.02	-1.0	-0.96	4703	1.0
y_mean[956]	-0.66	3.3e-4	0.02	-0.71	-0.68	-0.66	-0.65	-0.62	4791	1.0
y_mean[957]	-0.54	3.8e-4	0.03	-0.59	-0.56	-0.54	-0.53	-0.49	4744	1.0
y_mean[958]	1.13	8.6e-4	0.06	1.01	1.09	1.13	1.17	1.24	4530	1.0
y_mean[959]	0.43	7.9e-4	0.05	0.33	0.4	0.43	0.47	0.53	4126	1.0
y_mean[960]	-0.21	3.3e-4	0.02	-0.25	-0.22	-0.21	-0.19	-0.16	4673	1.0
y_mean[961]	-0.38	3.4e-4	0.02	-0.42	-0.39	-0.38	-0.36	-0.33	4387	1.0
y_mean[962]	-0.88	4.7e-4	0.03	-0.94	-0.9	-0.88	-0.86	-0.82	4529	1.0
y_mean[963]	-0.3	3.1e-4	0.02	-0.34	-0.31	-0.3	-0.28	-0.26	4786	1.0
y_mean[964]	-0.32	5.4e-4	0.04	-0.39	-0.34	-0.32	-0.29	-0.24	4585	1.0
y_mean[965]	-0.61	4.2e-4	0.03	-0.67	-0.63	-0.61	-0.6	-0.56	4793	1.0
y_mean[966]	-0.47	3.3e-4	0.02	-0.52	-0.49	-0.47	-0.46	-0.43	5122	1.0
y_mean[967]	-0.1	3.4e-4	0.02	-0.14	-0.11	-0.1	-0.08	-0.05	4728	1.0
y_mean[968]	1.57	8.1e-4	0.05	1.46	1.53	1.56	1.6	1.67	4242	1.0
y_mean[969]	-0.95	4.5e-4	0.03	-1.01	-0.97	-0.95	-0.93	-0.89	4485	1.0
y_mean[970]	-1.5e-3	5.2e-4	0.03	-0.07	-0.02	-1.7e-3	0.02	0.06	4138	1.0
y_mean[971]	-0.57	3.1e-4	0.02	-0.62	-0.59	-0.57	-0.56	-0.53	5111	1.0
y_mean[972]	0.22	4.5e-4	0.03	0.17	0.2	0.22	0.24	0.28	4283	1.0
y_mean[973]	-1.15	4.6e-4	0.03	-1.2	-1.17	-1.15	-1.12	-1.08	4476	1.0
y_mean[974]	-0.74	3.9e-4	0.03	-0.79	-0.76	-0.74	-0.72	-0.69	4652	1.0
y_mean[975]	-0.09	3.9e-4	0.03	-0.14	-0.11	-0.09	-0.07	-0.04	4316	1.0
y_mean[976]	-0.24	4.3e-4	0.03	-0.3	-0.26	-0.24	-0.22	-0.18	4873	1.0
y_mean[977]	-0.38	3.8e-4	0.02	-0.43	-0.4	-0.38	-0.36	-0.33	4220	1.0
y_mean[978]	0.02	2.8e-4	0.02	-0.02	7.6e-3	0.02	0.03	0.06	4699	1.0
y_mean[979]	-0.04	3.0e-4	0.02	-0.08	-0.06	-0.04	-0.03	-1.9e-3	4761	1.0
y_mean[980]	-0.24	3.3e-4	0.02	-0.29	-0.26	-0.24	-0.23	-0.19	5156	1.0
y_mean[981]	-0.58	2.9e-4	0.02	-0.62	-0.6	-0.58	-0.57	-0.54	4785	1.0

y_mean[982]	1.29	6.5e-4	0.04	1.21	1.27	1.29	1.32	1.37	4030	1.0
y_mean[983]	0.5	7.4e-4	0.05	0.4	0.47	0.5	0.53	0.6	4718	1.0
y_mean[984]	-0.3	3.1e-4	0.02	-0.34	-0.31	-0.3	-0.28	-0.26	4496	1.0
y_mean[985]	-1.07	4.3e-4	0.03	-1.13	-1.09	-1.07	-1.05	-1.02	4564	1.0
y_mean[986]	0.19	6.4e-4	0.04	0.11	0.16	0.19	0.22	0.27	4067	1.0
y_mean[987]	0.06	3.2e-4	0.02	0.01	0.04	0.06	0.07	0.1	4701	1.0
y_mean[988]	-0.33	4.3e-4	0.03	-0.38	-0.34	-0.33	-0.31	-0.27	4135	1.0
y_mean[989]	0.15	3.3e-4	0.02	0.1	0.13	0.15	0.16	0.19	4282	1.0
y_mean[990]	3.09	1.5e-3	0.1	2.9	3.02	3.09	3.15	3.28	4507	1.0
y_mean[991]	-0.62	3.3e-4	0.02	-0.66	-0.64	-0.62	-0.61	-0.58	4790	1.0
y_mean[992]	-0.49	4.3e-4	0.03	-0.54	-0.5	-0.49	-0.47	-0.43	4409	1.0
y_mean[993]	0.12	5.3e-4	0.04	0.05	0.1	0.12	0.14	0.19	4432	1.0
y_mean[994]	0.24	3.0e-4	0.02	0.2	0.23	0.24	0.26	0.28	5557	1.0
y_mean[995]	-0.68	3.4e-4	0.02	-0.72	-0.69	-0.68	-0.66	-0.63	4773	1.0
y_mean[996]	-1.08	4.1e-4	0.03	-1.13	-1.1	-1.08	-1.06	-1.03	4469	1.0
y_mean[997]	-0.34	3.9e-4	0.03	-0.39	-0.36	-0.34	-0.32	-0.29	4250	1.0
y_mean[998]	0.59	6.2e-4	0.04	0.52	0.56	0.59	0.62	0.67	3908	1.0
y_mean[999]	-0.48	3.3e-4	0.02	-0.52	-0.49	-0.48	-0.46	-0.43	4967	1.0
y_mean[1000]	-0.65	3.5e-4	0.02	-0.7	-0.67	-0.65	-0.64	-0.6	4720	1.0
y_mean[1001]	-0.38	3.5e-4	0.02	-0.43	-0.4	-0.38	-0.37	-0.34	4818	1.0
y_mean[1002]	-0.54	5.7e-4	0.04	-0.61	-0.56	-0.53	-0.51	-0.46	4645	1.0
y_mean[1003]	0.9	5.8e-4	0.04	0.82	0.87	0.9	0.92	0.97	4227	1.0
y_mean[1004]	1.05	6.9e-4	0.05	0.96	1.02	1.05	1.08	1.14	4546	1.0
y_mean[1005]	-0.48	2.9e-4	0.02	-0.52	-0.5	-0.48	-0.47	-0.44	4787	1.0
y_mean[1006]	0.81	6.1e-4	0.04	0.73	0.78	0.81	0.84	0.89	4404	1.0
y_mean[1007]	1.22	6.2e-4	0.04	1.14	1.19	1.22	1.25	1.3	4057	1.0
y_mean[1008]	-0.07	3.2e-4	0.02	-0.11	-0.08	-0.07	-0.05	-0.02	4749	1.0
y_mean[1009]	-0.1	4.3e-4	0.03	-0.15	-0.11	-0.1	-0.08	-0.04	4176	1.0
y_mean[1010]	-8.9e-3	3.0e-4	0.02	-0.05	-0.02	-9.2e-3	5.0e-3	0.03	4755	1.0
y_mean[1011]	-0.29	2.7e-4	0.02	-0.33	-0.31	-0.29	-0.28	-0.26	5070	1.0
y_mean[1012]	-0.41	2.7e-4	0.02	-0.45	-0.43	-0.41	-0.4	-0.38	4785	1.0
y_mean[1013]	-1.11	4.5e-4	0.03	-1.17	-1.13	-1.11	-1.09	-1.05	4501	1.0
y_mean[1014]	0.33	5.0e-4	0.03	0.27	0.31	0.33	0.35	0.4	4129	1.0
y_mean[1015]	0.18	5.6e-4	0.04	0.11	0.16	0.18	0.21	0.25	4265	1.0
y_mean[1016]	8.3e-4	4.6e-4	0.03	-0.06	-0.02	5.8e-4	0.02	0.06	4312	1.0
y_mean[1017]	-0.34	3.1e-4	0.02	-0.38	-0.35	-0.34	-0.32	-0.29	5004	1.0
y_mean[1018]	-0.34	3.2e-4	0.02	-0.38	-0.36	-0.34	-0.33	-0.3	4467	1.0
y_mean[1019]	-0.38	2.9e-4	0.02	-0.42	-0.4	-0.38	-0.37	-0.34	4719	1.0
y_mean[1020]	9.0e-3	2.8e-4	0.02	-0.03	-4.7e-3	8.7e-3	0.02	0.05	4735	1.0
y_mean[1021]	0.58	4.2e-4	0.03	0.52	0.56	0.58	0.6	0.63	4311	1.0
y_mean[1022]	2.53	1.2e-3	0.08	2.38	2.48	2.53	2.58	2.68	4194	1.0
y_mean[1023]	-0.62	3.1e-4	0.02	-0.66	-0.63	-0.62	-0.6	-0.57	4796	1.0
y_mean[1024]	0.37	4.7e-4	0.03	0.31	0.35	0.37	0.39	0.43	4439	1.0
y_mean[1025]	-0.48	4.5e-4	0.03	-0.54	-0.5	-0.48	-0.46	-0.42	4410	1.0
y_mean[1026]	0.27	4.0e-4	0.03	0.21	0.25	0.27	0.29	0.32	4735	1.0
y_mean[1027]	-0.01	3.0e-4	0.02	-0.05	-0.03	-0.01	7.8e-4	0.03	4754	1.0
y_mean[1028]	0.07	5.3e-4	0.04	-2.9e-3	0.04	0.07	0.09	0.14	4433	1.0
y_mean[1029]	-0.3	5.4e-4	0.04	-0.37	-0.33	-0.31	-0.28	-0.23	4525	1.0

y_mean[1030]	-0.51	3.5e-4	0.02	-0.56	-0.53	-0.51	-0.5	-0.47	4480	1.0
y_mean[1031]	-0.06	3.9e-4	0.03	-0.11	-0.08	-0.06	-0.04	-7.0e-3	4669	1.0
y_mean[1032]	0.47	3.8e-4	0.03	0.41	0.45	0.47	0.48	0.52	4839	1.0
y_mean[1033]	0.51	5.7e-4	0.04	0.44	0.49	0.51	0.54	0.59	4399	1.0
y_mean[1034]	-0.88	4.7e-4	0.03	-0.94	-0.9	-0.88	-0.86	-0.82	4681	1.0
y_mean[1035]	-0.83	4.7e-4	0.03	-0.89	-0.85	-0.83	-0.81	-0.77	4307	1.0
y_mean[1036]	5.0e-3	2.9e-4	0.02	-0.03	-8.7e-3	4.7e-3	0.02	0.04	4740	1.0
y_mean[1037]	-0.4	2.9e-4	0.02	-0.44	-0.41	-0.4	-0.38	-0.36	4690	1.0
y_mean[1038]	-0.58	3.8e-4	0.03	-0.63	-0.6	-0.58	-0.56	-0.53	5239	1.0
y_mean[1039]	3.54	1.5e-3	0.09	3.36	3.48	3.54	3.61	3.72	4124	1.0
y_mean[1040]	0.22	3.8e-4	0.03	0.17	0.2	0.22	0.23	0.27	4400	1.0
y_mean[1041]	-0.7	3.9e-4	0.03	-0.75	-0.71	-0.7	-0.68	-0.64	4622	1.0
y_mean[1042]	-0.12	3.6e-4	0.02	-0.16	-0.14	-0.12	-0.1	-0.07	4681	1.0
y_mean[1043]	0.32	2.5e-4	0.02	0.29	0.31	0.32	0.33	0.36	4981	1.0
y_mean[1044]	1.48	8.3e-4	0.05	1.38	1.45	1.48	1.51	1.58	3959	1.0
y_mean[1045]	-0.74	4.0e-4	0.03	-0.79	-0.76	-0.74	-0.72	-0.68	4893	1.0
y_mean[1046]	-0.44	2.8e-4	0.02	-0.48	-0.46	-0.44	-0.43	-0.4	4857	1.0
y_mean[1047]	0.11	3.0e-4	0.02	0.07	0.09	0.11	0.12	0.15	4464	1.0
y_mean[1048]	0.83	7.8e-4	0.05	0.73	0.8	0.83	0.86	0.93	3976	1.0
y_mean[1049]	-7.9e-3	6.1e-4	0.04	-0.08	-0.03	-8.1e-3	0.02	0.07	3933	1.0
y_mean[1050]	-0.7	3.6e-4	0.02	-0.75	-0.72	-0.7	-0.69	-0.65	4653	1.0
y_mean[1051]	-0.52	2.9e-4	0.02	-0.56	-0.54	-0.52	-0.51	-0.48	4881	1.0
y_mean[1052]	1.12	9.7e-4	0.06	1.0	1.08	1.12	1.17	1.25	4361	1.0
y_mean[1053]	-1.01	4.6e-4	0.03	-1.06	-1.03	-1.01	-0.99	-0.95	4291	1.0
y_mean[1054]	1.29	6.2e-4	0.04	1.22	1.27	1.29	1.32	1.37	4095	1.0
y_mean[1055]	-0.36	3.4e-4	0.02	-0.41	-0.38	-0.37	-0.35	-0.32	4522	1.0
y_mean[1056]	-0.14	4.3e-4	0.03	-0.2	-0.16	-0.14	-0.13	-0.09	4209	1.0
y_mean[1057]	0.58	4.1e-4	0.03	0.53	0.56	0.58	0.6	0.63	4327	1.0
y_mean[1058]	1.26	6.4e-4	0.04	1.18	1.23	1.26	1.29	1.34	4041	1.0
y_mean[1059]	8.3e-3	3.2e-4	0.02	-0.03	-6.1e-3	8.1e-3	0.02	0.05	4663	1.0
y_mean[1060]	0.03	3.0e-4	0.02	-9.5e-3	0.02	0.03	0.04	0.07	4766	1.0
y_mean[1061]	-0.56	2.8e-4	0.02	-0.59	-0.57	-0.56	-0.54	-0.52	4819	1.0
y_mean[1062]	-0.22	3.5e-4	0.02	-0.27	-0.24	-0.22	-0.21	-0.18	4368	1.0
y_mean[1063]	-0.48	2.7e-4	0.02	-0.52	-0.49	-0.48	-0.47	-0.44	4931	1.0
y_mean[1064]	-0.98	4.5e-4	0.03	-1.04	-1.0	-0.98	-0.96	-0.92	4657	1.0
y_mean[1065]	-0.51	2.9e-4	0.02	-0.55	-0.52	-0.51	-0.49	-0.47	4850	1.0
y_mean[1066]	-1.02	4.4e-4	0.03	-1.07	-1.04	-1.02	-0.99	-0.95	4669	1.0
y_mean[1067]	-0.6	3.5e-4	0.02	-0.64	-0.61	-0.6	-0.58	-0.55	4610	1.0
y_mean[1068]	-0.59	2.9e-4	0.02	-0.63	-0.61	-0.59	-0.58	-0.55	4831	1.0
y_mean[1069]	0.02	7.8e-4	0.05	-0.08	-0.02	0.02	0.05	0.12	4282	1.0
y_mean[1070]	-1.18	4.4e-4	0.03	-1.23	-1.2	-1.18	-1.16	-1.12	4455	1.0
y_mean[1071]	2.62	9.2e-4	0.06	2.51	2.58	2.62	2.66	2.74	3957	1.0
y_mean[1072]	-0.26	4.8e-4	0.03	-0.32	-0.28	-0.26	-0.24	-0.2	4050	1.0
y_mean[1073]	-0.34	4.7e-4	0.03	-0.41	-0.37	-0.34	-0.32	-0.28	5048	1.0
y_mean[1074]	-0.39	2.6e-4	0.02	-0.43	-0.4	-0.39	-0.38	-0.36	4855	1.0
y_mean[1075]	0.63	4.2e-4	0.03	0.57	0.61	0.63	0.64	0.68	4303	1.0
y_mean[1076]	-0.45	3.3e-4	0.02	-0.49	-0.46	-0.45	-0.43	-0.4	4367	1.0
y_mean[1077]	0.13	3.9e-4	0.03	0.08	0.11	0.13	0.15	0.18	4936	1.0

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y_mean[1078]     0.97   7.0e-4   0.04    0.88    0.94    0.97     1.0    1.05   3931   1.0
y_mean[1079]     0.07   3.5e-4   0.02    0.03    0.06    0.07    0.09    0.12   4825   1.0
y_mean[1080]    -0.12   4.6e-4   0.03   -0.17   -0.14   -0.12    -0.1   -0.06   4069   1.0
y_mean[1081]    -0.96   6.5e-4   0.04   -1.04   -0.98   -0.96   -0.93   -0.87   4254   1.0
y_mean[1082]     0.01   3.0e-4   0.02   -0.03  5.1e-4    0.01    0.03    0.06   5080   1.0
y_mean[1083]    -1.13   4.5e-4   0.03   -1.19   -1.15   -1.13   -1.11   -1.07   4454   1.0
y_mean[1084]     0.38   6.0e-4   0.04     0.3    0.35    0.38     0.4    0.46   4506   1.0
y_mean[1085]     0.88   5.7e-4   0.04    0.81    0.85    0.88     0.9    0.95   4046   1.0
y_mean[1086]     0.12   3.1e-4   0.02    0.08    0.11    0.12    0.14    0.16   4365   1.0
y_mean[1087]     1.35   6.8e-4   0.04    1.26    1.32    1.35    1.38    1.43   4027   1.0
y_mean[1088]     0.79   4.9e-4   0.03    0.73    0.77    0.79    0.82    0.86   4125   1.0
y_mean[1089]     0.03   2.8e-4   0.02 -7.3e-3    0.02    0.03    0.04    0.07   4699   1.0
y_mean[1090]     0.03   3.6e-4   0.03   -0.02    0.01    0.03    0.05    0.08   4889   1.0
y_mean[1091]     0.02   5.1e-4   0.03   -0.05 -5.0e-3    0.02    0.04    0.08   4278   1.0
y_mean[1092]    -0.28   4.6e-4   0.03   -0.34   -0.31   -0.29   -0.27   -0.23   4157   1.0
y_mean[1093]     -1.0   4.0e-4   0.03   -1.05   -1.02    -1.0   -0.98   -0.95   4563   1.0
y_mean[1094]     0.02   3.3e-4   0.02   -0.03 -4.5e-6    0.02    0.03    0.06   4751   1.0
y_mean[1095]     0.38   3.6e-4   0.02    0.33    0.36    0.38    0.39    0.42   4354   1.0
y_mean[1096]     0.49   5.0e-4   0.03    0.42    0.46    0.49    0.51    0.55   4001   1.0
y_mean[1097]     0.14   6.1e-4   0.04    0.06    0.11    0.14    0.16    0.21   4047   1.0
y_mean[1098]     0.64   4.3e-4   0.03    0.58    0.62    0.64    0.66    0.69   4260   1.0
y_mean[1099]    -0.59   2.9e-4   0.02   -0.63   -0.61    -0.6   -0.58   -0.55   4828   1.0
y_mean[1100]    -0.28   3.9e-4   0.03   -0.33    -0.3   -0.28   -0.27   -0.23   4310   1.0
y_mean[1101]     -0.9   4.6e-4   0.03   -0.96   -0.92    -0.9   -0.87   -0.83   4721   1.0
y_mean[1102]    -0.67   3.7e-4   0.03   -0.72   -0.68   -0.67   -0.65   -0.62   4909   1.0
y_mean[1103]     0.15   3.3e-4   0.02     0.1    0.13    0.15    0.16    0.19   4259   1.0
y_mean[1104]    -1.06   5.1e-4   0.03   -1.13   -1.08   -1.06   -1.04   -0.99   4362   1.0
y_mean[1105]     0.09   3.0e-4   0.02    0.06    0.08    0.09    0.11    0.13   4501   1.0
y_mean[1106]    -0.37   7.5e-4   0.05   -0.47   -0.41   -0.38   -0.34   -0.28   4044   1.0
y_mean[1107]    -0.14   3.8e-4   0.03   -0.19   -0.16   -0.14   -0.13   -0.09   4660   1.0
y_mean[1108]     1.36   6.7e-4   0.04    1.28    1.33    1.36    1.39    1.45   4242   1.0
y_mean[1109]    -0.18   3.9e-4   0.03   -0.23    -0.2   -0.18   -0.16   -0.12   4928   1.0
y_mean[1110]    -0.69   3.9e-4   0.03   -0.74    -0.7   -0.69   -0.67   -0.63   4639   1.0
y_mean[1111]     1.42   7.0e-4   0.04    1.33    1.39    1.42    1.45     1.5   4012   1.0
y_mean[1112]     0.78   1.2e-3   0.08    0.63    0.73    0.78    0.84    0.94   4604   1.0
y_mean[1113]     1.87   7.4e-4   0.05    1.77    1.84    1.87     1.9    1.96   4339   1.0
y_mean[1114]    -0.41   3.3e-4   0.02   -0.45   -0.43   -0.41    -0.4   -0.37   4568   1.0
y_mean[1115]    -0.56   4.6e-4   0.03   -0.62   -0.58   -0.56   -0.54    -0.5   4633   1.0
y_mean[1116]    -0.35   3.7e-4   0.02    -0.4   -0.37   -0.35   -0.34    -0.3   4392   1.0
y_mean[1117]     0.27   7.2e-4   0.05    0.17    0.23    0.27     0.3    0.37   4779   1.0
y_mean[1118]     0.34   5.3e-4   0.03    0.27    0.32    0.34    0.36    0.41   4002   1.0
y_mean[1119]    -0.04   3.4e-4   0.02   -0.08   -0.05   -0.04   -0.02  9.9e-3   4760   1.0
y_mean[1120]     -0.2   5.7e-4   0.04   -0.28   -0.23    -0.2   -0.17   -0.12   5061   1.0
y_mean[1121]     0.35   5.2e-4   0.03    0.28    0.32    0.35    0.37    0.41   4257   1.0
y_mean[1122]    -1.44   6.6e-4   0.04   -1.52   -1.47   -1.44   -1.41   -1.36   4301   1.0
y_mean[1123]      0.7   6.7e-4   0.04    0.62    0.68     0.7    0.73    0.79   4097   1.0
y_mean[1124]      0.6   6.2e-4   0.04    0.52    0.57     0.6    0.62    0.67   3916   1.0
y_mean[1125]    -0.61   3.0e-4   0.02   -0.65   -0.63   -0.61    -0.6   -0.57   4825   1.0
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y_mean[1126]	-1.03	4.3e-4	0.03	-1.09	-1.05	-1.03	-1.01	-0.97	4617	1.0
y_mean[1127]	0.6	4.2e-4	0.03	0.55	0.58	0.6	0.62	0.66	4547	1.0
y_mean[1128]	-0.51	2.9e-4	0.02	-0.55	-0.53	-0.51	-0.5	-0.47	5121	1.0
y_mean[1129]	0.08	3.7e-4	0.03	0.03	0.07	0.08	0.1	0.14	4948	1.0
y_mean[1130]	0.18	3.5e-4	0.02	0.14	0.17	0.18	0.2	0.23	4673	1.0
y_mean[1131]	-0.2	3.9e-4	0.03	-0.25	-0.21	-0.2	-0.18	-0.14	4416	1.0
y_mean[1132]	0.05	3.3e-4	0.02	1.3e-3	0.03	0.04	0.06	0.09	4501	1.0
y_mean[1133]	-0.04	3.0e-4	0.02	-0.08	-0.06	-0.04	-0.03	-3.1e-4	4755	1.0
y_mean[1134]	-0.49	2.9e-4	0.02	-0.53	-0.51	-0.49	-0.48	-0.45	4701	1.0
y_mean[1135]	0.81	5.2e-4	0.03	0.74	0.78	0.81	0.83	0.87	4007	1.0
y_mean[1136]	-0.33	3.5e-4	0.02	-0.38	-0.35	-0.33	-0.31	-0.28	5151	1.0
y_mean[1137]	-0.68	3.7e-4	0.03	-0.72	-0.69	-0.68	-0.66	-0.62	4665	1.0
y_mean[1138]	0.05	3.7e-4	0.03	2.6e-3	0.04	0.05	0.07	0.1	4464	1.0
y_mean[1139]	-1.08	4.4e-4	0.03	-1.14	-1.1	-1.08	-1.06	-1.02	4572	1.0
y_mean[1140]	0.04	2.9e-4	0.02	1.2e-3	0.03	0.04	0.05	0.08	4983	1.0
y_mean[1141]	1.11	6.1e-4	0.04	1.03	1.08	1.11	1.14	1.19	4140	1.0
y_mean[1142]	-0.4	3.3e-4	0.02	-0.44	-0.42	-0.4	-0.39	-0.36	4527	1.0
y_mean[1143]	-0.7	3.5e-4	0.02	-0.75	-0.72	-0.7	-0.68	-0.65	4722	1.0
y_mean[1144]	0.23	4.4e-4	0.03	0.18	0.21	0.23	0.25	0.29	4010	1.0
y_mean[1145]	-0.62	3.4e-4	0.02	-0.67	-0.64	-0.62	-0.61	-0.57	4679	1.0
y_mean[1146]	-1.1	4.6e-4	0.03	-1.15	-1.12	-1.1	-1.08	-1.04	4407	1.0
y_mean[1147]	-0.39	4.4e-4	0.03	-0.44	-0.41	-0.39	-0.37	-0.33	4160	1.0
y_mean[1148]	-0.22	5.2e-4	0.03	-0.28	-0.24	-0.22	-0.2	-0.15	4183	1.0
y_mean[1149]	0.44	4.8e-4	0.03	0.37	0.41	0.44	0.46	0.5	4572	1.0
y_mean[1150]	0.72	1.0e-3	0.06	0.59	0.68	0.72	0.76	0.84	4027	1.0
y_mean[1151]	0.15	2.3e-4	0.02	0.12	0.14	0.15	0.16	0.18	5189	1.0
y_mean[1152]	-0.51	3.1e-4	0.02	-0.55	-0.52	-0.51	-0.49	-0.46	4670	1.0
y_mean[1153]	0.18	2.8e-4	0.02	0.15	0.17	0.18	0.2	0.22	4999	1.0
y_mean[1154]	-0.07	4.3e-4	0.03	-0.13	-0.09	-0.07	-0.05	-0.01	4621	1.0
y_mean[1155]	0.87	7.4e-4	0.05	0.78	0.84	0.87	0.9	0.96	4007	1.0
y_mean[1156]	0.34	2.8e-4	0.02	0.3	0.33	0.34	0.35	0.38	4622	1.0
y_mean[1157]	-0.5	4.2e-4	0.03	-0.56	-0.52	-0.5	-0.48	-0.44	5035	1.0
y_mean[1158]	0.31	4.4e-4	0.03	0.26	0.29	0.31	0.34	0.37	4729	1.0
y_mean[1159]	3.0	1.3e-3	0.08	2.84	2.95	3.0	3.06	3.17	4510	1.0
y_mean[1160]	-0.14	5.6e-4	0.04	-0.22	-0.17	-0.14	-0.12	-0.07	4672	1.0
y_mean[1161]	-1.13	4.3e-4	0.03	-1.19	-1.15	-1.13	-1.11	-1.08	4430	1.0
y_mean[1162]	0.48	5.6e-4	0.04	0.41	0.45	0.48	0.5	0.55	4415	1.0
y_mean[1163]	-1.08	4.8e-4	0.03	-1.14	-1.1	-1.08	-1.06	-1.02	4381	1.0
y_mean[1164]	-0.01	4.3e-4	0.03	-0.07	-0.03	-0.01	7.0e-3	0.04	4436	1.0
y_mean[1165]	0.64	4.2e-4	0.03	0.59	0.62	0.64	0.66	0.7	4261	1.0
y_mean[1166]	-0.26	5.9e-4	0.04	-0.34	-0.29	-0.26	-0.23	-0.18	4440	1.0
y_mean[1167]	-0.02	3.4e-4	0.02	-0.06	-0.03	-0.02	-3.3e-3	0.03	4784	1.0
y_mean[1168]	-0.27	4.5e-4	0.03	-0.33	-0.29	-0.27	-0.25	-0.21	4147	1.0
y_mean[1169]	-0.62	3.2e-4	0.02	-0.66	-0.64	-0.62	-0.61	-0.58	4829	1.0
y_mean[1170]	-0.5	2.8e-4	0.02	-0.54	-0.52	-0.5	-0.49	-0.46	5156	1.0
y_mean[1171]	-0.32	5.8e-4	0.04	-0.4	-0.35	-0.32	-0.3	-0.25	4465	1.0
y_mean[1172]	0.39	5.9e-4	0.04	0.31	0.36	0.39	0.42	0.47	4631	1.0
y_mean[1173]	2.43	1.0e-3	0.07	2.31	2.39	2.43	2.48	2.56	4186	1.0

y_mean[1174]	-0.24	5.7e-4	0.04	-0.31	-0.26	-0.24	-0.21	-0.16	4438	1.0
y_mean[1175]	0.53	5.1e-4	0.03	0.47	0.51	0.53	0.56	0.6	4589	1.0
y_mean[1176]	-0.02	2.9e-4	0.02	-0.06	-0.04	-0.02	-7.9e-3	0.02	4817	1.0
y_mean[1177]	-1.11	4.1e-4	0.03	-1.16	-1.13	-1.11	-1.09	-1.05	4426	1.0
y_mean[1178]	-0.62	3.2e-4	0.02	-0.66	-0.64	-0.62	-0.61	-0.58	4819	1.0
y_mean[1179]	-0.33	3.9e-4	0.03	-0.38	-0.35	-0.33	-0.32	-0.28	4364	1.0
y_mean[1180]	-0.44	3.7e-4	0.02	-0.49	-0.46	-0.44	-0.42	-0.39	4280	1.0
y_mean[1181]	-0.27	3.3e-4	0.02	-0.31	-0.28	-0.27	-0.25	-0.22	4441	1.0
y_mean[1182]	-0.03	2.9e-4	0.02	-0.07	-0.04	-0.03	-0.01	0.01	4762	1.0
y_mean[1183]	0.81	6.1e-4	0.04	0.73	0.78	0.81	0.83	0.88	4108	1.0
y_mean[1184]	-0.16	3.4e-4	0.02	-0.2	-0.17	-0.16	-0.14	-0.11	4543	1.0
y_mean[1185]	-0.46	3.0e-4	0.02	-0.5	-0.47	-0.46	-0.44	-0.42	4544	1.0
y_mean[1186]	-0.87	4.2e-4	0.03	-0.92	-0.89	-0.87	-0.85	-0.81	4497	1.0
y_mean[1187]	1.75	1.1e-3	0.07	1.61	1.71	1.75	1.8	1.9	4575	1.0
y_mean[1188]	1.46	6.1e-4	0.04	1.38	1.43	1.46	1.49	1.54	4653	1.0
y_mean[1189]	0.56	7.9e-4	0.05	0.45	0.52	0.56	0.6	0.66	4632	1.0
y_mean[1190]	-0.68	3.4e-4	0.02	-0.72	-0.69	-0.68	-0.66	-0.63	4841	1.0
y_mean[1191]	0.72	4.5e-4	0.03	0.66	0.7	0.72	0.74	0.78	4286	1.0
y_mean[1192]	-0.16	5.4e-4	0.04	-0.23	-0.19	-0.16	-0.14	-0.09	4426	1.0
y_mean[1193]	-0.67	3.7e-4	0.03	-0.72	-0.69	-0.68	-0.66	-0.62	4667	1.0
y_mean[1194]	0.14	7.2e-4	0.05	0.04	0.1	0.13	0.17	0.22	4099	1.0
y_mean[1195]	-0.59	2.9e-4	0.02	-0.63	-0.61	-0.59	-0.58	-0.55	4831	1.0
y_mean[1196]	0.68	4.6e-4	0.03	0.62	0.66	0.68	0.7	0.74	4162	1.0
y_mean[1197]	-0.33	2.9e-4	0.02	-0.37	-0.34	-0.33	-0.32	-0.29	4619	1.0
y_mean[1198]	-0.49	2.9e-4	0.02	-0.53	-0.5	-0.49	-0.48	-0.45	4610	1.0
y_mean[1199]	-0.79	4.9e-4	0.03	-0.85	-0.81	-0.79	-0.77	-0.73	4274	1.0
y_mean[1200]	1.7	1.0e-3	0.07	1.57	1.65	1.7	1.74	1.82	4271	1.0
y_mean[1201]	-1.19	4.7e-4	0.03	-1.25	-1.21	-1.19	-1.17	-1.13	4488	1.0
y_mean[1202]	0.06	3.5e-4	0.02	0.01	0.04	0.06	0.07	0.1	4438	1.0
y_mean[1203]	-0.06	4.0e-4	0.03	-0.11	-0.07	-0.06	-0.04	-1.3e-3	4744	1.0
y_mean[1204]	1.05	8.4e-4	0.06	0.93	1.01	1.05	1.08	1.16	4514	1.0
y_mean[1205]	0.33	3.0e-4	0.02	0.29	0.32	0.33	0.35	0.37	4657	1.0
y_mean[1206]	-0.14	3.5e-4	0.02	-0.19	-0.16	-0.14	-0.12	-0.09	4900	1.0
y_mean[1207]	-0.68	5.5e-4	0.04	-0.75	-0.7	-0.68	-0.65	-0.6	4900	1.0
y_mean[1208]	-0.45	3.6e-4	0.02	-0.5	-0.47	-0.45	-0.44	-0.41	4318	1.0
y_mean[1209]	-0.63	3.1e-4	0.02	-0.67	-0.65	-0.63	-0.62	-0.59	4865	1.0
y_mean[1210]	0.51	3.6e-4	0.02	0.46	0.49	0.51	0.52	0.55	4633	1.0
y_mean[1211]	-1.05	4.1e-4	0.03	-1.11	-1.07	-1.05	-1.04	-1.0	4456	1.0
y_mean[1212]	-0.48	3.1e-4	0.02	-0.52	-0.49	-0.48	-0.47	-0.44	4754	1.0
y_mean[1213]	-0.76	5.0e-4	0.03	-0.82	-0.78	-0.76	-0.74	-0.7	4256	1.0
y_mean[1214]	-0.09	6.5e-4	0.04	-0.18	-0.12	-0.09	-0.07	-8.7e-3	4324	1.0
y_mean[1215]	-0.2	4.6e-4	0.03	-0.26	-0.22	-0.2	-0.18	-0.14	4266	1.0
y_mean[1216]	-0.61	3.0e-4	0.02	-0.65	-0.63	-0.61	-0.6	-0.57	4833	1.0
y_mean[1217]	0.08	8.5e-4	0.06	-0.03	0.04	0.08	0.11	0.19	4362	1.0
y_mean[1218]	0.41	4.5e-4	0.03	0.34	0.38	0.41	0.43	0.47	5120	1.0
y_mean[1219]	0.97	7.9e-4	0.05	0.87	0.94	0.97	1.01	1.07	4438	1.0
y_mean[1220]	0.54	4.8e-4	0.03	0.48	0.52	0.54	0.56	0.61	4390	1.0
y_mean[1221]	0.81	7.8e-4	0.05	0.71	0.78	0.81	0.85	0.92	4894	1.0

y_mean[1222]	-0.06	3.1e-4	0.02	-0.1	-0.07	-0.06	-0.05	-0.02	4754	1.0
y_mean[1223]	-0.63	3.4e-4	0.02	-0.68	-0.65	-0.63	-0.62	-0.58	4768	1.0
y_mean[1224]	-0.23	4.0e-4	0.03	-0.28	-0.25	-0.23	-0.21	-0.18	4911	1.0
y_mean[1225]	-0.12	3.4e-4	0.02	-0.16	-0.13	-0.12	-0.1	-0.07	4756	1.0
y_mean[1226]	0.52	4.4e-4	0.03	0.46	0.49	0.52	0.53	0.57	4514	1.0
y_mean[1227]	-1.18	4.7e-4	0.03	-1.23	-1.2	-1.18	-1.15	-1.11	4489	1.0
y_mean[1228]	-0.27	3.5e-4	0.02	-0.31	-0.28	-0.27	-0.25	-0.22	5167	1.0
y_mean[1229]	-0.58	3.4e-4	0.02	-0.62	-0.59	-0.58	-0.56	-0.53	4849	1.0
y_mean[1230]	-1.05	4.2e-4	0.03	-1.1	-1.07	-1.05	-1.03	-0.99	4545	1.0
y_mean[1231]	1.1	6.0e-4	0.04	1.03	1.08	1.1	1.13	1.18	4143	1.0
y_mean[1232]	0.22	4.3e-4	0.03	0.16	0.2	0.22	0.24	0.27	4025	1.0
y_mean[1233]	1.3	5.8e-4	0.04	1.22	1.27	1.3	1.32	1.37	4428	1.0
y_mean[1234]	-0.58	2.9e-4	0.02	-0.62	-0.59	-0.58	-0.57	-0.54	4849	1.0
y_mean[1235]	0.09	3.1e-4	0.02	0.05	0.08	0.09	0.11	0.14	4705	1.0
y_mean[1236]	0.05	3.1e-4	0.02	0.01	0.04	0.05	0.07	0.09	4502	1.0
y_mean[1237]	-0.48	3.1e-4	0.02	-0.52	-0.5	-0.48	-0.47	-0.44	4891	1.0
y_mean[1238]	-0.58	4.8e-4	0.03	-0.64	-0.6	-0.58	-0.55	-0.51	4684	1.0
y_mean[1239]	0.83	7.5e-4	0.05	0.73	0.79	0.82	0.86	0.92	3897	1.0
y_mean[1240]	0.85	5.6e-4	0.04	0.78	0.83	0.85	0.88	0.93	4170	1.0
y_mean[1241]	0.85	5.6e-4	0.04	0.78	0.82	0.85	0.87	0.92	3974	1.0
y_mean[1242]	-0.03	2.9e-4	0.02	-0.06	-0.04	-0.03	-0.01	0.01	4800	1.0
y_mean[1243]	0.37	4.6e-4	0.03	0.31	0.35	0.37	0.39	0.43	4371	1.0
y_mean[1244]	0.82	5.3e-4	0.03	0.76	0.8	0.82	0.85	0.89	4006	1.0
y_mean[1245]	0.05	6.5e-4	0.04	-0.04	0.02	0.05	0.07	0.13	4071	1.0
y_mean[1246]	-0.3	2.9e-4	0.02	-0.34	-0.31	-0.3	-0.29	-0.26	4770	1.0
y_mean[1247]	-0.11	3.7e-4	0.03	-0.16	-0.12	-0.11	-0.09	-0.06	4845	1.0
y_mean[1248]	-0.58	3.1e-4	0.02	-0.62	-0.59	-0.58	-0.56	-0.53	4908	1.0
y_mean[1249]	0.05	2.8e-4	0.02	0.02	0.04	0.05	0.07	0.09	4646	1.0
y_mean[1250]	-0.26	5.0e-4	0.03	-0.32	-0.28	-0.26	-0.23	-0.19	4523	1.0
y_mean[1251]	-0.55	3.0e-4	0.02	-0.59	-0.56	-0.55	-0.53	-0.5	4845	1.0
y_mean[1252]	-0.49	2.9e-4	0.02	-0.53	-0.5	-0.49	-0.47	-0.45	4771	1.0
y_mean[1253]	-0.3	3.4e-4	0.02	-0.35	-0.32	-0.3	-0.29	-0.26	4377	1.0
y_mean[1254]	-0.81	5.2e-4	0.03	-0.88	-0.84	-0.81	-0.79	-0.74	4439	1.0
y_mean[1255]	0.37	2.9e-4	0.02	0.33	0.36	0.37	0.39	0.41	5125	1.0
y_mean[1256]	0.11	3.1e-4	0.02	0.07	0.1	0.11	0.12	0.15	4411	1.0
y_mean[1257]	0.21	3.7e-4	0.02	0.16	0.19	0.21	0.23	0.26	4310	1.0
y_mean[1258]	0.34	3.3e-4	0.02	0.3	0.33	0.34	0.36	0.38	4397	1.0
y_mean[1259]	-1.41	6.7e-4	0.04	-1.5	-1.44	-1.41	-1.38	-1.33	4315	1.0
y_mean[1260]	0.04	3.7e-4	0.03	-0.01	0.02	0.03	0.05	0.08	4531	1.0
y_mean[1261]	0.64	4.5e-4	0.03	0.58	0.62	0.64	0.66	0.69	4237	1.0
y_mean[1262]	0.72	4.8e-4	0.03	0.66	0.69	0.72	0.74	0.77	4096	1.0
y_mean[1263]	0.49	8.4e-4	0.05	0.38	0.45	0.49	0.52	0.6	4167	1.0
y_mean[1264]	-0.05	3.0e-4	0.02	-0.09	-0.07	-0.05	-0.04	-0.01	4848	1.0
y_mean[1265]	0.03	5.4e-4	0.03	-0.04	2.2e-3	0.03	0.05	0.09	4019	1.0
y_mean[1266]	2.01	1.0e-3	0.06	1.88	1.96	2.01	2.05	2.13	3845	1.0
y_mean[1267]	-0.38	3.6e-4	0.02	-0.42	-0.39	-0.38	-0.36	-0.33	4658	1.0
y_mean[1268]	-0.01	3.0e-4	0.02	-0.05	-0.03	-0.01	1.9e-3	0.03	4755	1.0
y_mean[1269]	0.66	4.3e-4	0.03	0.61	0.64	0.66	0.68	0.72	4215	1.0

y_mean[1270]	-0.35	3.9e-4	0.03	-0.4	-0.37	-0.35	-0.33	-0.3	4265	1.0
y_mean[1271]	-0.47	3.1e-4	0.02	-0.51	-0.48	-0.47	-0.45	-0.42	4612	1.0
y_mean[1272]	0.56	6.4e-4	0.04	0.48	0.53	0.56	0.59	0.64	3912	1.0
y_mean[1273]	-0.26	5.0e-4	0.03	-0.32	-0.28	-0.26	-0.23	-0.19	4523	1.0
y_mean[1274]	-0.49	3.1e-4	0.02	-0.53	-0.5	-0.49	-0.47	-0.44	4928	1.0
y_mean[1275]	-0.81	4.5e-4	0.03	-0.87	-0.83	-0.81	-0.78	-0.74	4742	1.0
y_mean[1276]	-0.73	3.9e-4	0.03	-0.78	-0.75	-0.73	-0.71	-0.68	4634	1.0
y_mean[1277]	0.54	4.7e-4	0.03	0.47	0.51	0.54	0.56	0.6	4674	1.0
y_mean[1278]	-0.26	5.2e-4	0.04	-0.33	-0.28	-0.26	-0.24	-0.19	4929	1.0
y_mean[1279]	0.23	3.9e-4	0.03	0.18	0.21	0.23	0.25	0.28	4196	1.0
y_mean[1280]	-0.43	3.2e-4	0.02	-0.47	-0.44	-0.43	-0.41	-0.39	4491	1.0
y_mean[1281]	0.93	7.8e-4	0.05	0.83	0.89	0.93	0.96	1.02	4161	1.0
y_mean[1282]	-1.08	4.3e-4	0.03	-1.13	-1.1	-1.08	-1.06	-1.02	4538	1.0
y_mean[1283]	1.41	7.2e-4	0.05	1.32	1.38	1.41	1.44	1.5	3984	1.0
y_mean[1284]	-0.57	3.7e-4	0.03	-0.62	-0.59	-0.57	-0.55	-0.52	4675	1.0
y_mean[1285]	0.1	3.6e-4	0.03	0.05	0.09	0.1	0.12	0.16	5575	1.0
y_mean[1286]	-0.51	2.9e-4	0.02	-0.55	-0.52	-0.51	-0.49	-0.47	4850	1.0
y_mean[1287]	-0.3	3.0e-4	0.02	-0.34	-0.31	-0.3	-0.28	-0.26	5029	1.0
y_mean[1288]	0.05	2.8e-4	0.02	0.02	0.04	0.05	0.07	0.09	4626	1.0
y_mean[1289]	-0.41	3.3e-4	0.02	-0.45	-0.42	-0.41	-0.39	-0.36	4539	1.0
y_mean[1290]	0.53	4.7e-4	0.03	0.47	0.51	0.53	0.55	0.59	4424	1.0
y_mean[1291]	-0.14	4.7e-4	0.03	-0.2	-0.16	-0.14	-0.12	-0.08	4247	1.0
y_mean[1292]	0.35	3.8e-4	0.03	0.3	0.34	0.35	0.37	0.4	4855	1.0
y_mean[1293]	1.33	6.4e-4	0.04	1.25	1.3	1.33	1.36	1.41	4076	1.0
y_mean[1294]	-0.52	7.3e-4	0.05	-0.62	-0.55	-0.52	-0.48	-0.42	4591	1.0
y_mean[1295]	0.25	7.6e-4	0.05	0.15	0.22	0.25	0.29	0.35	4466	1.0
y_mean[1296]	-0.47	3.2e-4	0.02	-0.51	-0.48	-0.47	-0.45	-0.42	4908	1.0
y_mean[1297]	-3.0e-3	2.9e-4	0.02	-0.04	-0.02	-3.4e-3	0.01	0.04	4748	1.0
y_mean[1298]	-0.49	2.9e-4	0.02	-0.53	-0.5	-0.49	-0.47	-0.45	4793	1.0
y_mean[1299]	0.68	6.5e-4	0.04	0.59	0.65	0.68	0.7	0.76	4022	1.0
y_mean[1300]	0.65	5.8e-4	0.04	0.58	0.63	0.65	0.68	0.72	4238	1.0
y_mean[1301]	-0.35	3.8e-4	0.03	-0.4	-0.36	-0.35	-0.33	-0.29	5245	1.0
y_mean[1302]	-1.0	4.5e-4	0.03	-1.06	-1.03	-1.0	-0.98	-0.95	4303	1.0
y_mean[1303]	0.26	2.7e-4	0.02	0.23	0.25	0.26	0.27	0.3	4742	1.0
y_mean[1304]	-0.62	3.1e-4	0.02	-0.66	-0.63	-0.62	-0.6	-0.57	4791	1.0
y_mean[1305]	-0.16	4.9e-4	0.03	-0.22	-0.18	-0.16	-0.14	-0.09	4608	1.0
y_mean[1306]	-0.6	3.0e-4	0.02	-0.64	-0.61	-0.6	-0.59	-0.56	4822	1.0
y_mean[1307]	0.04	3.9e-4	0.03	-0.02	0.02	0.04	0.06	0.09	4527	1.0
y_mean[1308]	-0.42	2.9e-4	0.02	-0.46	-0.43	-0.42	-0.4	-0.37	5128	1.0
y_mean[1309]	9.5e-3	5.2e-4	0.03	-0.06	-0.01	9.3e-3	0.03	0.07	4046	1.0
y_mean[1310]	-0.11	4.6e-4	0.03	-0.17	-0.13	-0.11	-0.09	-0.05	4086	1.0
y_mean[1311]	0.38	7.4e-4	0.05	0.29	0.35	0.38	0.41	0.47	4114	1.0
y_mean[1312]	-0.37	3.5e-4	0.02	-0.42	-0.39	-0.37	-0.36	-0.33	4493	1.0
y_mean[1313]	-0.49	3.1e-4	0.02	-0.53	-0.5	-0.49	-0.48	-0.45	4504	1.0
y_mean[1314]	0.47	4.6e-4	0.03	0.41	0.45	0.47	0.49	0.53	4490	1.0
y_mean[1315]	0.4	6.5e-4	0.05	0.31	0.37	0.4	0.43	0.49	4893	1.0
y_mean[1316]	-1.05	4.3e-4	0.03	-1.11	-1.07	-1.05	-1.03	-1.0	4603	1.0
y_mean[1317]	1.52	8.4e-4	0.06	1.41	1.48	1.52	1.55	1.63	4494	1.0

y_mean[1318]	-0.02	7.3e-4	0.05	-0.12	-0.05	-0.02	9.2e-3	0.08	4448	1.0
y_mean[1319]	-0.53	6.3e-4	0.04	-0.61	-0.56	-0.53	-0.5	-0.45	4197	1.0
y_mean[1320]	-0.06	3.3e-4	0.02	-0.1	-0.07	-0.06	-0.04	-0.01	4836	1.0
y_mean[1321]	-0.21	3.6e-4	0.02	-0.26	-0.22	-0.21	-0.19	-0.16	4466	1.0
y_mean[1322]	-0.17	5.0e-4	0.04	-0.24	-0.2	-0.17	-0.15	-0.1	5038	1.0
y_mean[1323]	0.53	4.1e-4	0.03	0.47	0.51	0.53	0.54	0.58	4345	1.0
y_mean[1324]	0.07	4.9e-4	0.03	8.3e-3	0.05	0.07	0.09	0.13	4243	1.0
y_mean[1325]	-0.34	4.0e-4	0.03	-0.4	-0.36	-0.34	-0.32	-0.29	4823	1.0
y_mean[1326]	0.12	3.2e-4	0.02	0.08	0.11	0.12	0.14	0.16	4330	1.0
y_mean[1327]	0.26	4.1e-4	0.03	0.21	0.25	0.26	0.28	0.32	4240	1.0
y_mean[1328]	-1.06	4.0e-4	0.03	-1.11	-1.08	-1.06	-1.04	-1.0	4581	1.0
y_mean[1329]	-0.55	3.2e-4	0.02	-0.6	-0.57	-0.55	-0.54	-0.51	4960	1.0
y_mean[1330]	2.33	8.3e-4	0.05	2.22	2.29	2.33	2.37	2.43	4126	1.0
y_mean[1331]	-0.59	3.1e-4	0.02	-0.63	-0.6	-0.59	-0.57	-0.54	4840	1.0
y_mean[1332]	0.02	2.8e-4	0.02	-0.02	4.7e-3	0.02	0.03	0.06	4722	1.0
y_mean[1333]	-0.34	3.2e-4	0.02	-0.39	-0.36	-0.34	-0.33	-0.3	4921	1.0
y_mean[1334]	0.17	7.2e-4	0.05	0.08	0.14	0.17	0.2	0.27	4545	1.0
y_mean[1335]	-0.68	5.9e-4	0.04	-0.76	-0.71	-0.68	-0.65	-0.6	4503	1.0
y_mean[1336]	-0.95	4.6e-4	0.03	-1.0	-0.97	-0.95	-0.93	-0.88	4541	1.0
y_mean[1337]	-0.54	2.9e-4	0.02	-0.58	-0.56	-0.54	-0.53	-0.5	4685	1.0
y_mean[1338]	0.26	6.4e-4	0.04	0.18	0.23	0.26	0.29	0.34	4075	1.0
y_mean[1339]	0.62	6.1e-4	0.04	0.54	0.59	0.62	0.64	0.69	3936	1.0
y_mean[1340]	-0.44	3.5e-4	0.02	-0.49	-0.46	-0.44	-0.42	-0.39	4980	1.0
y_mean[1341]	-0.38	2.9e-4	0.02	-0.42	-0.4	-0.38	-0.37	-0.34	4978	1.0
y_mean[1342]	0.86	6.0e-4	0.04	0.78	0.83	0.86	0.88	0.93	3950	1.0
y_mean[1343]	-0.53	9.4e-4	0.06	-0.65	-0.57	-0.53	-0.48	-0.4	4603	1.0
y_mean[1344]	0.03	5.6e-4	0.04	-0.04	2.6e-3	0.03	0.05	0.1	3988	1.0
y_mean[1345]	-0.76	4.1e-4	0.03	-0.81	-0.78	-0.76	-0.74	-0.7	4670	1.0
y_mean[1346]	0.25	4.3e-4	0.03	0.19	0.23	0.25	0.27	0.3	4036	1.0
y_mean[1347]	-1.22	4.5e-4	0.03	-1.28	-1.24	-1.22	-1.2	-1.16	4485	1.0
y_mean[1348]	2.21	9.5e-4	0.06	2.09	2.17	2.21	2.26	2.33	4206	1.0
y_mean[1349]	0.44	4.9e-4	0.03	0.37	0.42	0.44	0.46	0.5	4527	1.0
y_mean[1350]	-0.68	3.7e-4	0.03	-0.73	-0.7	-0.68	-0.66	-0.63	4658	1.0
y_mean[1351]	-0.98	4.3e-4	0.03	-1.04	-1.0	-0.98	-0.96	-0.92	4627	1.0
y_mean[1352]	-0.25	4.7e-4	0.03	-0.31	-0.27	-0.25	-0.23	-0.19	4620	1.0
y_mean[1353]	-0.63	3.4e-4	0.02	-0.68	-0.65	-0.63	-0.62	-0.58	4774	1.0
y_mean[1354]	-0.48	2.9e-4	0.02	-0.52	-0.5	-0.48	-0.47	-0.44	4779	1.0
y_mean[1355]	-0.41	3.3e-4	0.02	-0.46	-0.43	-0.41	-0.4	-0.37	4565	1.0
y_mean[1356]	0.4	3.1e-4	0.02	0.36	0.39	0.4	0.42	0.44	4476	1.0
y_mean[1357]	-0.07	3.1e-4	0.02	-0.11	-0.08	-0.07	-0.05	-0.02	4892	1.0
y_mean[1358]	0.82	5.7e-4	0.04	0.75	0.8	0.82	0.85	0.9	4353	1.0
y_mean[1359]	-0.44	2.5e-4	0.02	-0.47	-0.45	-0.44	-0.43	-0.4	5078	1.0
y_mean[1360]	0.34	5.2e-4	0.04	0.27	0.31	0.34	0.36	0.41	4638	1.0
y_mean[1361]	-1.09	4.3e-4	0.03	-1.14	-1.11	-1.09	-1.07	-1.03	4516	1.0
y_mean[1362]	-0.08	3.9e-4	0.03	-0.14	-0.1	-0.08	-0.07	-0.03	4701	1.0
y_mean[1363]	-0.71	3.7e-4	0.03	-0.76	-0.73	-0.71	-0.7	-0.66	4633	1.0
y_mean[1364]	0.01	2.8e-4	0.02	-0.02	-5.6e-4	0.01	0.03	0.05	4730	1.0
y_mean[1365]	1.14	4.6e-4	0.03	1.08	1.12	1.14	1.16	1.2	4376	1.0

y_mean[1366]	0.58	4.1e-4	0.03	0.53	0.56	0.58	0.6	0.63	4434	1.0
y_mean[1367]	-1.23	4.5e-4	0.03	-1.28	-1.25	-1.23	-1.21	-1.16	4488	1.0
y_mean[1368]	0.8	7.1e-4	0.05	0.71	0.76	0.79	0.83	0.89	4378	1.0
y_mean[1369]	0.26	6.0e-4	0.04	0.17	0.23	0.26	0.28	0.34	4852	1.0
y_mean[1370]	-0.6	3.8e-4	0.03	-0.65	-0.61	-0.6	-0.58	-0.54	4750	1.0
y_mean[1371]	1.51	6.9e-4	0.04	1.42	1.48	1.51	1.54	1.6	4245	1.0
y_mean[1372]	0.69	4.7e-4	0.03	0.63	0.67	0.69	0.71	0.75	4295	1.0
y_mean[1373]	0.61	5.4e-4	0.04	0.54	0.59	0.61	0.64	0.68	4471	1.0
y_mean[1374]	-0.65	3.2e-4	0.02	-0.7	-0.67	-0.65	-0.64	-0.61	4825	1.0
y_mean[1375]	1.75	1.1e-3	0.08	1.6	1.7	1.75	1.8	1.9	4559	1.0
y_mean[1376]	-0.53	2.9e-4	0.02	-0.57	-0.54	-0.53	-0.51	-0.49	4888	1.0
y_mean[1377]	1.03	5.9e-4	0.04	0.95	1.0	1.03	1.06	1.11	4726	1.0
y_mean[1378]	0.11	5.7e-4	0.04	0.04	0.09	0.11	0.14	0.19	4057	1.0
y_mean[1379]	-0.75	4.6e-4	0.03	-0.81	-0.77	-0.75	-0.73	-0.69	4548	1.0
y_mean[1380]	-0.62	3.4e-4	0.02	-0.67	-0.64	-0.62	-0.61	-0.57	4802	1.0
y_mean[1381]	-0.31	4.4e-4	0.03	-0.37	-0.33	-0.31	-0.29	-0.25	4861	1.0
y_mean[1382]	1.14	7.6e-4	0.05	1.04	1.11	1.14	1.17	1.24	4203	1.0
y_mean[1383]	0.08	3.3e-4	0.02	0.03	0.06	0.07	0.09	0.12	4649	1.0
y_mean[1384]	-0.17	3.9e-4	0.03	-0.22	-0.19	-0.17	-0.16	-0.12	4224	1.0
y_mean[1385]	-0.96	4.9e-4	0.03	-1.02	-0.98	-0.96	-0.94	-0.89	4773	1.0
y_mean[1386]	-0.05	4.4e-4	0.03	-0.1	-0.07	-0.05	-0.03	6.5e-3	4218	1.0
y_mean[1387]	0.65	4.2e-4	0.03	0.59	0.63	0.65	0.66	0.7	4283	1.0
y_mean[1388]	-0.3	4.2e-4	0.03	-0.35	-0.32	-0.3	-0.28	-0.24	4432	1.0
y_mean[1389]	-0.23	5.0e-4	0.03	-0.29	-0.25	-0.23	-0.21	-0.17	3982	1.0
y_mean[1390]	-0.77	4.5e-4	0.03	-0.83	-0.79	-0.77	-0.75	-0.71	4504	1.0
y_mean[1391]	-0.51	4.0e-4	0.03	-0.56	-0.53	-0.51	-0.49	-0.46	4730	1.0
y_mean[1392]	-0.39	4.5e-4	0.03	-0.46	-0.42	-0.39	-0.37	-0.33	5096	1.0
y_mean[1393]	-0.13	4.4e-4	0.03	-0.19	-0.15	-0.13	-0.12	-0.08	4142	1.0
y_mean[1394]	0.71	4.5e-4	0.03	0.66	0.69	0.71	0.73	0.77	4123	1.0
y_mean[1395]	1.85	1.2e-3	0.08	1.7	1.8	1.85	1.9	2.0	4652	1.0
y_mean[1396]	0.44	4.6e-4	0.03	0.38	0.42	0.44	0.46	0.5	4535	1.0
y_mean[1397]	0.42	4.9e-4	0.03	0.36	0.4	0.42	0.44	0.48	4067	1.0
y_mean[1398]	-0.71	3.7e-4	0.03	-0.76	-0.73	-0.71	-0.7	-0.66	4663	1.0
y_mean[1399]	1.32	6.3e-4	0.04	1.24	1.29	1.32	1.35	1.4	4128	1.0
y_mean[1400]	-0.2	3.8e-4	0.03	-0.25	-0.22	-0.2	-0.18	-0.15	4510	1.0
y_mean[1401]	-0.71	3.6e-4	0.03	-0.76	-0.72	-0.71	-0.69	-0.66	4790	1.0
y_mean[1402]	0.67	5.1e-4	0.03	0.6	0.65	0.67	0.69	0.73	4167	1.0
y_mean[1403]	0.35	5.1e-4	0.03	0.28	0.33	0.35	0.37	0.41	4281	1.0
y_mean[1404]	-0.64	3.6e-4	0.03	-0.69	-0.66	-0.64	-0.63	-0.59	5005	1.0
y_mean[1405]	-0.51	2.8e-4	0.02	-0.55	-0.53	-0.51	-0.5	-0.47	4757	1.0
y_mean[1406]	1.77	1.0e-3	0.07	1.63	1.72	1.77	1.82	1.9	4388	1.0
y_mean[1407]	-0.3	4.3e-4	0.03	-0.36	-0.32	-0.3	-0.28	-0.24	4681	1.0
y_mean[1408]	-0.55	3.0e-4	0.02	-0.59	-0.56	-0.55	-0.53	-0.51	4835	1.0
y_mean[1409]	-0.86	5.2e-4	0.03	-0.92	-0.88	-0.86	-0.83	-0.79	4387	1.0
y_mean[1410]	-0.07	3.4e-4	0.02	-0.12	-0.09	-0.07	-0.05	-0.02	4870	1.0
y_mean[1411]	-0.4	3.7e-4	0.02	-0.44	-0.41	-0.4	-0.38	-0.35	4295	1.0
y_mean[1412]	-0.38	3.5e-4	0.02	-0.42	-0.39	-0.38	-0.36	-0.33	4555	1.0
y_mean[1413]	0.22	4.0e-4	0.03	0.17	0.2	0.22	0.23	0.27	4092	1.0

y_mean[1414]	-0.21	3.6e-4	0.02	-0.26	-0.23	-0.22	-0.2	-0.17	4472	1.0
y_mean[1415]	1.12	9.6e-4	0.06	1.0	1.08	1.12	1.16	1.24	3838	1.0
y_mean[1416]	-0.1	6.9e-4	0.05	-0.2	-0.13	-0.1	-0.07	-4.7e-3	4842	1.0
y_mean[1417]	1.4	6.9e-4	0.04	1.31	1.37	1.4	1.43	1.48	4250	1.0
y_mean[1418]	-0.34	3.3e-4	0.02	-0.38	-0.35	-0.34	-0.33	-0.3	4480	1.0
y_mean[1419]	0.03	4.7e-4	0.03	-0.04	5.1e-3	0.03	0.05	0.09	4344	1.0
y_mean[1420]	-0.34	5.8e-4	0.04	-0.42	-0.37	-0.34	-0.32	-0.26	4518	1.0
y_mean[1421]	-0.81	4.3e-4	0.03	-0.87	-0.83	-0.82	-0.8	-0.76	4550	1.0
y_mean[1422]	0.47	4.3e-4	0.03	0.42	0.45	0.47	0.49	0.53	4597	1.0
y_mean[1423]	0.05	2.9e-4	0.02	8.4e-3	0.03	0.05	0.06	0.08	4609	1.0
y_mean[1424]	-0.57	2.8e-4	0.02	-0.61	-0.58	-0.57	-0.55	-0.53	4851	1.0
y_mean[1425]	-0.6	3.0e-4	0.02	-0.64	-0.62	-0.6	-0.59	-0.56	4807	1.0
y_mean[1426]	-0.06	4.5e-4	0.03	-0.12	-0.08	-0.06	-0.04	-3.0e-3	4259	1.0
y_mean[1427]	-0.17	3.8e-4	0.03	-0.21	-0.18	-0.17	-0.15	-0.12	4529	1.0
y_mean[1428]	0.01	7.7e-4	0.05	-0.09	-0.02	0.01	0.04	0.11	4298	1.0
y_mean[1429]	1.62	6.3e-4	0.04	1.54	1.59	1.62	1.65	1.7	4269	1.0
y_mean[1430]	0.18	3.4e-4	0.03	0.13	0.16	0.18	0.19	0.23	5655	1.0
y_mean[1431]	0.91	6.4e-4	0.04	0.83	0.88	0.91	0.93	0.99	3937	1.0
y_mean[1432]	-0.21	4.4e-4	0.03	-0.27	-0.23	-0.21	-0.19	-0.15	4576	1.0
y_mean[1433]	-0.41	3.3e-4	0.02	-0.45	-0.42	-0.41	-0.39	-0.36	4539	1.0
y_mean[1434]	0.4	5.5e-4	0.04	0.33	0.37	0.4	0.43	0.48	4823	1.0
y_mean[1435]	-0.13	4.4e-4	0.03	-0.19	-0.16	-0.13	-0.11	-0.07	4853	1.0
y_mean[1436]	-0.11	4.3e-4	0.03	-0.16	-0.13	-0.11	-0.09	-0.05	4450	1.0
y_mean[1437]	-1.17	4.7e-4	0.03	-1.23	-1.19	-1.17	-1.15	-1.1	4494	1.0
y_mean[1438]	-0.25	6.3e-4	0.04	-0.33	-0.28	-0.25	-0.22	-0.17	4038	1.0
y_mean[1439]	-0.24	4.8e-4	0.03	-0.3	-0.26	-0.24	-0.21	-0.17	4544	1.0
y_mean[1440]	-0.48	6.2e-4	0.04	-0.56	-0.51	-0.48	-0.45	-0.4	4365	1.0
y_mean[1441]	-0.2	4.3e-4	0.03	-0.25	-0.22	-0.2	-0.18	-0.14	4586	1.0
y_mean[1442]	-0.71	4.1e-4	0.03	-0.77	-0.73	-0.71	-0.69	-0.66	4590	1.0
y_mean[1443]	-0.05	4.0e-4	0.03	-0.1	-0.07	-0.05	-0.03	3.0e-3	4404	1.0
y_mean[1444]	-0.3	2.9e-4	0.02	-0.34	-0.32	-0.3	-0.29	-0.26	4788	1.0
y_mean[1445]	-0.28	4.4e-4	0.03	-0.34	-0.3	-0.28	-0.26	-0.22	4527	1.0
y_mean[1446]	-0.16	3.8e-4	0.03	-0.22	-0.18	-0.16	-0.14	-0.11	5004	1.0
y_mean[1447]	-0.21	4.9e-4	0.03	-0.27	-0.23	-0.21	-0.19	-0.14	4524	1.0
y_mean[1448]	0.68	5.0e-4	0.03	0.62	0.66	0.68	0.71	0.75	4419	1.0
y_mean[1449]	-1.04	4.1e-4	0.03	-1.1	-1.06	-1.04	-1.03	-0.99	4555	1.0
y_mean[1450]	-1.12	4.1e-4	0.03	-1.17	-1.14	-1.12	-1.1	-1.06	4417	1.0
y_mean[1451]	0.57	4.4e-4	0.03	0.51	0.55	0.57	0.59	0.62	4497	1.0
y_mean[1452]	-0.01	6.7e-4	0.04	-0.09	-0.04	-0.01	0.02	0.07	3915	1.0
y_mean[1453]	1.88	8.0e-4	0.05	1.78	1.85	1.88	1.92	1.99	4455	1.0
y_mean[1454]	1.91	8.7e-4	0.05	1.8	1.87	1.91	1.95	2.01	3954	1.0
y_mean[1455]	0.38	6.9e-4	0.04	0.29	0.35	0.38	0.41	0.46	3897	1.0
y_mean[1456]	-0.29	4.3e-4	0.03	-0.35	-0.31	-0.29	-0.27	-0.24	4428	1.0
y_mean[1457]	-0.07	4.5e-4	0.03	-0.14	-0.09	-0.07	-0.05	-0.01	4893	1.0
y_mean[1458]	-0.69	3.6e-4	0.02	-0.74	-0.71	-0.7	-0.68	-0.64	4642	1.0
y_mean[1459]	-0.01	4.9e-4	0.03	-0.08	-0.03	-0.01	0.01	0.05	4706	1.0
y_mean[1460]	2.04	9.7e-4	0.06	1.92	2.0	2.04	2.08	2.16	4088	1.0
y_mean[1461]	-1.07	5.0e-4	0.03	-1.13	-1.09	-1.07	-1.04	-1.0	4364	1.0

y_mean[1462]	-0.04	4.3e-4	0.03	-0.1	-0.06	-0.04	-0.02	0.02	4647	1.0
y_mean[1463]	-0.35	2.5e-4	0.02	-0.39	-0.37	-0.35	-0.34	-0.32	5063	1.0
y_mean[1464]	-0.05	4.4e-4	0.03	-0.11	-0.07	-0.05	-0.03	9.3e-3	4536	1.0
y_mean[1465]	-0.27	3.3e-4	0.02	-0.31	-0.29	-0.27	-0.26	-0.23	4457	1.0
y_mean[1466]	0.93	6.6e-4	0.04	0.84	0.9	0.93	0.95	1.01	3932	1.0
y_mean[1467]	0.65	5.7e-4	0.04	0.57	0.62	0.65	0.67	0.72	4203	1.0
y_mean[1468]	0.38	5.7e-4	0.04	0.31	0.35	0.38	0.4	0.45	4020	1.0
y_mean[1469]	0.54	4.2e-4	0.03	0.48	0.52	0.54	0.56	0.59	4348	1.0
y_mean[1470]	1.12	8.4e-4	0.05	1.02	1.09	1.12	1.16	1.22	4011	1.0
y_mean[1471]	0.96	6.9e-4	0.04	0.87	0.93	0.96	0.99	1.04	3936	1.0
y_mean[1472]	-0.71	3.7e-4	0.03	-0.76	-0.73	-0.71	-0.7	-0.66	4673	1.0
y_mean[1473]	-1.27	7.8e-4	0.05	-1.36	-1.3	-1.27	-1.23	-1.17	4346	1.0
y_mean[1474]	-1.17	4.2e-4	0.03	-1.22	-1.19	-1.17	-1.15	-1.11	4430	1.0
y_mean[1475]	0.08	6.3e-4	0.04	-7.8e-3	0.05	0.08	0.1	0.16	4429	1.0
y_mean[1476]	-0.68	3.4e-4	0.02	-0.73	-0.7	-0.68	-0.67	-0.64	4753	1.0
y_mean[1477]	-1.12	5.2e-4	0.03	-1.19	-1.14	-1.12	-1.1	-1.05	4465	1.0
y_mean[1478]	0.46	4.6e-4	0.03	0.4	0.44	0.46	0.48	0.52	4171	1.0
y_mean[1479]	1.22	7.4e-4	0.05	1.12	1.18	1.22	1.25	1.31	4450	1.0
y_mean[1480]	-0.51	2.9e-4	0.02	-0.55	-0.53	-0.52	-0.5	-0.47	4834	1.0
y_mean[1481]	-0.26	4.9e-4	0.03	-0.32	-0.28	-0.26	-0.24	-0.19	4015	1.0
y_mean[1482]	0.34	3.5e-4	0.02	0.29	0.32	0.34	0.35	0.38	5085	1.0
y_mean[1483]	0.87	7.0e-4	0.04	0.78	0.84	0.87	0.9	0.95	3982	1.0
y_mean[1484]	0.11	2.2e-4	0.02	0.08	0.1	0.11	0.13	0.15	5285	1.0
y_mean[1485]	1.48	6.0e-4	0.04	1.4	1.45	1.48	1.5	1.55	4245	1.0
y_mean[1486]	0.29	6.5e-4	0.04	0.21	0.26	0.29	0.32	0.38	4243	1.0
y_mean[1487]	-0.73	4.0e-4	0.03	-0.78	-0.75	-0.73	-0.71	-0.68	4570	1.0
y_mean[1488]	1.19	6.3e-4	0.04	1.11	1.16	1.19	1.22	1.27	4067	1.0
y_mean[1489]	0.41	3.6e-4	0.03	0.36	0.39	0.41	0.43	0.46	5180	1.0
y_mean[1490]	-0.09	4.8e-4	0.03	-0.16	-0.12	-0.09	-0.07	-0.03	4936	1.0
y_mean[1491]	-0.21	5.2e-4	0.03	-0.27	-0.23	-0.21	-0.18	-0.14	4336	1.0
y_mean[1492]	-0.61	4.5e-4	0.03	-0.67	-0.63	-0.61	-0.59	-0.55	4550	1.0
y_mean[1493]	-0.26	3.9e-4	0.03	-0.32	-0.28	-0.26	-0.25	-0.21	5025	1.0
y_mean[1494]	-0.01	5.2e-4	0.04	-0.09	-0.04	-0.01	0.01	0.06	5449	1.0
y_mean[1495]	0.46	3.5e-4	0.02	0.41	0.44	0.46	0.47	0.5	4555	1.0
y_mean[1496]	-0.63	3.2e-4	0.02	-0.68	-0.65	-0.63	-0.62	-0.59	4840	1.0
y_mean[1497]	-0.26	2.9e-4	0.02	-0.3	-0.28	-0.26	-0.25	-0.22	4755	1.0
y_mean[1498]	-0.45	3.3e-4	0.02	-0.5	-0.47	-0.45	-0.44	-0.41	4539	1.0
y_mean[1499]	-0.05	5.2e-4	0.04	-0.12	-0.07	-0.05	-0.02	0.02	4808	1.0
y_mean[1500]	1.3e-4	5.5e-4	0.04	-0.07	-0.02	2.7e-4	0.02	0.07	4486	1.0
y_mean[1501]	0.05	4.6e-4	0.03	-0.02	0.02	0.05	0.07	0.11	4837	1.0
y_mean[1502]	1.86	8.3e-4	0.05	1.76	1.83	1.87	1.9	1.97	4226	1.0
y_mean[1503]	-0.51	4.9e-4	0.03	-0.58	-0.54	-0.51	-0.49	-0.45	5157	1.0
y_mean[1504]	-0.64	3.1e-4	0.02	-0.68	-0.65	-0.64	-0.62	-0.59	4836	1.0
y_mean[1505]	-1.06	4.3e-4	0.03	-1.11	-1.08	-1.06	-1.04	-1.0	4593	1.0
y_mean[1506]	0.11	3.4e-4	0.02	0.07	0.1	0.11	0.13	0.16	4257	1.0
y_mean[1507]	-0.94	4.6e-4	0.03	-1.0	-0.97	-0.94	-0.92	-0.88	4522	1.0
y_mean[1508]	-0.58	2.9e-4	0.02	-0.62	-0.59	-0.58	-0.57	-0.54	4844	1.0
y_mean[1509]	-0.54	3.0e-4	0.02	-0.58	-0.56	-0.54	-0.53	-0.5	4825	1.0

y_mean[1510]	1.76	8.0e-4	0.05	1.66	1.72	1.76	1.79	1.86	4192	1.0
y_mean[1511]	1.07	6.1e-4	0.04	0.99	1.04	1.07	1.1	1.15	4193	1.0
y_mean[1512]	0.38	5.1e-4	0.03	0.32	0.36	0.38	0.4	0.45	4174	1.0
y_mean[1513]	-0.55	3.0e-4	0.02	-0.59	-0.56	-0.55	-0.53	-0.5	4837	1.0
y_mean[1514]	0.57	7.8e-4	0.05	0.48	0.54	0.57	0.61	0.67	4140	1.0
y_mean[1515]	-0.71	3.9e-4	0.03	-0.76	-0.73	-0.71	-0.69	-0.65	4941	1.0
y_mean[1516]	-0.5	3.1e-4	0.02	-0.54	-0.52	-0.5	-0.49	-0.46	5207	1.0
y_mean[1517]	-0.26	3.3e-4	0.02	-0.3	-0.27	-0.26	-0.24	-0.21	4630	1.0
y_mean[1518]	1.64	7.1e-4	0.05	1.55	1.61	1.64	1.67	1.73	4062	1.0
y_mean[1519]	-0.34	3.8e-4	0.03	-0.39	-0.36	-0.34	-0.33	-0.29	4364	1.0
y_mean[1520]	0.52	4.3e-4	0.03	0.46	0.5	0.52	0.54	0.58	4381	1.0
y_mean[1521]	-0.95	4.5e-4	0.03	-1.01	-0.97	-0.95	-0.93	-0.89	4508	1.0
y_mean[1522]	-0.04	5.2e-4	0.03	-0.11	-0.07	-0.04	-0.02	0.02	4086	1.0
y_mean[1523]	0.06	3.5e-4	0.02	0.01	0.04	0.06	0.08	0.11	4947	1.0
y_mean[1524]	-0.34	3.9e-4	0.03	-0.39	-0.36	-0.34	-0.33	-0.29	4671	1.0
y_mean[1525]	1.19	7.6e-4	0.05	1.1	1.16	1.19	1.23	1.29	3997	1.0
y_mean[1526]	0.85	3.8e-4	0.03	0.8	0.84	0.86	0.87	0.91	4788	1.0
y_mean[1527]	-0.15	5.9e-4	0.04	-0.23	-0.18	-0.15	-0.13	-0.07	4585	1.0
y_mean[1528]	-0.07	5.2e-4	0.03	-0.13	-0.09	-0.07	-0.05	-5.6e-3	3987	1.0
y_mean[1529]	0.99	6.8e-4	0.04	0.9	0.96	0.99	1.02	1.08	4249	1.0
y_mean[1530]	0.08	5.9e-4	0.04	4.8e-3	0.05	0.08	0.1	0.15	4032	1.0
y_mean[1531]	-0.7	3.6e-4	0.03	-0.75	-0.71	-0.7	-0.68	-0.65	4870	1.0
y_mean[1532]	-0.68	3.5e-4	0.02	-0.72	-0.69	-0.68	-0.66	-0.63	4670	1.0
y_mean[1533]	-1.01	4.3e-4	0.03	-1.07	-1.03	-1.01	-0.99	-0.95	4570	1.0
y_mean[1534]	-1.05	4.3e-4	0.03	-1.1	-1.07	-1.05	-1.03	-0.99	4369	1.0
y_mean[1535]	0.41	5.8e-4	0.04	0.33	0.38	0.41	0.43	0.48	4448	1.0
y_mean[1536]	0.66	7.2e-4	0.04	0.57	0.63	0.66	0.69	0.75	3856	1.0
y_mean[1537]	0.05	3.2e-4	0.02	0.01	0.04	0.05	0.07	0.1	4826	1.0
y_mean[1538]	-0.25	4.4e-4	0.03	-0.31	-0.27	-0.26	-0.24	-0.2	4147	1.0
y_mean[1539]	-0.1	4.5e-4	0.03	-0.16	-0.12	-0.1	-0.08	-0.03	4950	1.0
y_mean[1540]	1.37	8.2e-4	0.05	1.26	1.33	1.37	1.4	1.47	3935	1.0
y_mean[1541]	0.75	4.7e-4	0.03	0.69	0.73	0.75	0.77	0.81	4290	1.0
y_mean[1542]	0.14	4.2e-4	0.03	0.08	0.12	0.14	0.16	0.19	4189	1.0
y_mean[1543]	-0.3	5.7e-4	0.04	-0.38	-0.33	-0.3	-0.27	-0.22	4574	1.0
y_mean[1544]	0.14	3.2e-4	0.02	0.1	0.12	0.14	0.15	0.18	4308	1.0
y_mean[1545]	0.97	6.2e-4	0.04	0.9	0.94	0.97	1.0	1.05	4054	1.0
y_mean[1546]	-0.45	3.8e-4	0.02	-0.5	-0.47	-0.45	-0.44	-0.4	4338	1.0
y_mean[1547]	-0.42	4.5e-4	0.03	-0.47	-0.44	-0.42	-0.4	-0.36	4142	1.0
y_mean[1548]	-0.45	3.5e-4	0.02	-0.5	-0.47	-0.45	-0.43	-0.4	4956	1.0
y_mean[1549]	-0.39	4.3e-4	0.03	-0.44	-0.41	-0.39	-0.37	-0.33	4415	1.0
y_mean[1550]	0.1	4.3e-4	0.03	0.04	0.08	0.1	0.12	0.16	5477	1.0
y_mean[1551]	0.27	4.8e-4	0.03	0.21	0.25	0.27	0.29	0.33	3986	1.0
y_mean[1552]	0.05	3.0e-4	0.02	0.01	0.04	0.05	0.07	0.09	4764	1.0
y_mean[1553]	-0.43	6.3e-4	0.04	-0.51	-0.46	-0.43	-0.4	-0.35	4386	1.0
y_mean[1554]	-1.13	4.2e-4	0.03	-1.18	-1.15	-1.13	-1.11	-1.07	4423	1.0
y_mean[1555]	-0.74	4.4e-4	0.03	-0.8	-0.76	-0.74	-0.72	-0.68	4539	1.0
y_mean[1556]	0.49	4.7e-4	0.03	0.43	0.47	0.49	0.52	0.56	4644	1.0
y_mean[1557]	-0.4	3.3e-4	0.02	-0.45	-0.42	-0.4	-0.39	-0.36	4494	1.0

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y_mean[1558]   -0.73  6.6e-4   0.05   -0.82   -0.77   -0.74    -0.7   -0.64   4779   1.0
y_mean[1559]    1.08  6.1e-4   0.04    1.0    1.05    1.08     1.1    1.15   4180   1.0
y_mean[1560]    0.31  4.6e-4   0.03    0.25    0.29    0.31    0.33    0.37   4113   1.0
y_mean[1561]    0.71  5.6e-4   0.04    0.64    0.68    0.71    0.73    0.78   4116   1.0
y_mean[1562]    0.02  3.5e-4   0.02   -0.03  4.2e-3   0.02    0.04    0.07   4865   1.0
y_mean[1563]   -0.37  3.6e-4   0.02   -0.41   -0.38   -0.37   -0.35   -0.32   4536   1.0
y_mean[1564]    0.59  4.2e-4   0.03    0.54    0.57    0.59    0.61    0.65   4461   1.0
y_mean[1565]   -0.11  4.6e-4   0.03   -0.18   -0.14   -0.12   -0.09   -0.05   4673   1.0
y_mean[1566]    0.2   3.8e-4   0.03    0.15    0.18    0.2     0.22    0.25   4621   1.0
y_mean[1567]    0.64  4.3e-4   0.03    0.58    0.62    0.64    0.65    0.69   4268   1.0
y_mean[1568]   -0.13  6.2e-4   0.04   -0.21   -0.16   -0.13    -0.1   -0.05   4194   1.0
y_mean[1569]    0.67  4.3e-4   0.03    0.61    0.65    0.67    0.69    0.72   4233   1.0
y_mean[1570]   -0.2   4.0e-4   0.03   -0.25   -0.21   -0.2    -0.18   -0.15   4449   1.0
y_mean[1571]   -0.6   3.0e-4   0.02   -0.64   -0.61   -0.6    -0.58   -0.56   4825   1.0
y_mean[1572]   -0.66  3.3e-4   0.02   -0.7    -0.68   -0.66   -0.65   -0.61   4764   1.0
y_mean[1573]   -0.25  6.3e-4   0.04   -0.33   -0.28   -0.25   -0.22   -0.17   4219   1.0
y_mean[1574]    0.89  6.8e-4   0.05    0.8     0.86    0.89    0.92    0.99   4448   1.0
y_mean[1575]   -0.04  3.7e-4   0.03   -0.09   -0.06   -0.04   -0.02    0.01   4777   1.0
y_mean[1576]   -0.1   4.6e-4   0.03   -0.16   -0.12   -0.1    -0.08   -0.04   4529   1.0
y_mean[1577]    1.61  8.4e-4   0.05    1.5     1.57    1.61    1.64    1.72   4194   1.0
y_mean[1578]   -0.12  4.3e-4   0.03   -0.19   -0.14   -0.12    -0.1   -0.06   5014   1.0
y_mean[1579]    0.25  5.5e-4   0.03    0.18    0.23    0.25    0.27    0.32   4020   1.0
y_mean[1580]   -0.63  3.3e-4   0.02   -0.68   -0.65   -0.63   -0.62   -0.58   4763   1.0
y_mean[1581]    1.87  8.0e-4   0.05    1.77    1.83    1.87    1.9     1.97   4162   1.0
y_mean[1582]   -0.29  2.8e-4   0.02   -0.33   -0.3    -0.29   -0.28   -0.25   4794   1.0
y_mean[1583]   -1.0   4.1e-4   0.03   -1.05   -1.02   -1.0    -0.98   -0.94   4572   1.0
y_mean[1584]    1.64  8.8e-4   0.06    1.53    1.6     1.64    1.68    1.75   4161   1.0
y_mean[1585]    0.48  7.0e-4   0.04    0.39    0.45    0.47    0.5     0.56   3982   1.0
y_mean[1586]   -0.11  3.4e-4   0.02   -0.15   -0.12   -0.11   -0.09   -0.06   4978   1.0
y_mean[1587]    0.13  3.2e-4   0.02    0.09    0.12    0.13    0.14    0.17   4336   1.0
y_mean[1588]    1.61  9.1e-4   0.06    1.5     1.57    1.61    1.65    1.73   4396   1.0
y_mean[1589]   -0.57  3.1e-4   0.02   -0.61   -0.58   -0.57   -0.55   -0.52   4924   1.0
y_mean[1590]    0.26  3.4e-4   0.02    0.21    0.24    0.26    0.27    0.3    5006   1.0
y_mean[1591]   -1.58  6.3e-4   0.04   -1.66   -1.61   -1.58   -1.55    -1.5   4258   1.0
y_mean[1592]   -0.61  3.0e-4   0.02   -0.65   -0.62   -0.61   -0.59   -0.57   4843   1.0
y_mean[1593]   -0.6   3.0e-4   0.02   -0.64   -0.62   -0.6    -0.59   -0.56   4817   1.0
y_mean[1594]   -1.1   4.1e-4   0.03   -1.15   -1.12   -1.1    -1.08   -1.04   4443   1.0
y_mean[1595]    1.5   6.3e-4   0.04    1.42    1.47    1.5     1.53    1.58   4380   1.0
y_mean[1596]    0.24  3.5e-4   0.03    0.19    0.22    0.24    0.26    0.29   5299   1.0
y_mean[1597]   -0.7   3.8e-4   0.03   -0.75   -0.72   -0.7    -0.68   -0.65   4620   1.0
y_mean[1598]   -0.03  4.2e-4   0.03   -0.08   -0.05   -0.03   -0.01    0.02   4338   1.0
y_mean[1599]    0.18  2.4e-4   0.02    0.15    0.17    0.18    0.19    0.22   5449   1.0
y_mean[1600]   -0.46  3.2e-4   0.02   -0.5    -0.47   -0.46   -0.44   -0.41   4911   1.0
y_mean[1601]    1.24  6.3e-4   0.04    1.16    1.21    1.24    1.26    1.32   4049   1.0
y_mean[1602]    0.98  6.7e-4   0.04    0.89    0.95    0.98    1.01    1.06   4013   1.0
y_mean[1603]    2.24  9.4e-4   0.06    2.13    2.2     2.24    2.28    2.36   4032   1.0
y_mean[1604]    0.48  6.4e-4   0.04    0.4     0.45    0.48    0.51    0.57   4333   1.0
y_mean[1605]    0.39  3.0e-4   0.02    0.35    0.37    0.39    0.4     0.43   4845   1.0
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y_mean[1606]    -0.25   4.7e-4   0.03    -0.31    -0.27    -0.25    -0.23    -0.19   4553   1.0
y_mean[1607]     1.1    8.0e-4   0.05     0.99     1.06     1.1      1.13     1.2    4356   1.0
y_mean[1608]     0.34   2.7e-4   0.02     0.3      0.33     0.34     0.35     0.38   4942   1.0
y_mean[1609]    -0.54   5.9e-4   0.04    -0.62    -0.57    -0.54    -0.51    -0.47   4268   1.0
y_mean[1610]     0.99   8.9e-4   0.06     0.87     0.94     0.98     1.03     1.1    4577   1.0
y_mean[1611]     0.83   7.1e-4   0.05     0.74     0.8      0.83     0.86     0.92   4021   1.0
y_mean[1612]    -0.46   3.0e-4   0.02    -0.5     -0.48    -0.46    -0.45    -0.42   4740   1.0
y_mean[1613]     0.37   5.0e-4   0.03     0.31     0.35     0.37     0.39     0.44   4447   1.0
y_mean[1614]    -1.07   4.7e-4   0.03    -1.12    -1.09    -1.07    -1.05    -1.0    4359   1.0
y_mean[1615]    -1.83   9.7e-4   0.06    -1.95    -1.87    -1.83    -1.79    -1.7    4211   1.0
y_mean[1616]    -1.59   6.0e-4   0.04    -1.66    -1.61    -1.59    -1.56    -1.51   4294   1.0
y_mean[1617]    -1.18   4.3e-4   0.03    -1.24    -1.2     -1.18    -1.17    -1.13   4461   1.0
y_mean[1618]    -0.44   3.3e-4   0.02    -0.49    -0.46    -0.44    -0.43    -0.39   4874   1.0
y_mean[1619]     0.14   2.9e-4   0.02     0.1      0.13     0.14     0.15     0.18   4689   1.0
y_mean[1620]    -0.17   4.1e-4   0.03    -0.22    -0.19    -0.17    -0.15    -0.12   4207   1.0
y_mean[1621]     0.08   2.9e-4   0.02     0.04     0.07     0.08     0.1      0.12   4616   1.0
y_mean[1622]     0.16   4.1e-4   0.03     0.1      0.14     0.16     0.18     0.21   4912   1.0
y_mean[1623]     4.06   1.7e-3   0.11     3.85     3.98     4.06     4.13     4.27   4161   1.0
y_mean[1624]    -0.04   3.9e-4   0.03    -0.09    -0.06    -0.04    -0.02     0.01   4604   1.0
y_mean[1625]    -0.65   3.2e-4   0.02    -0.7     -0.67    -0.65    -0.64    -0.61   4764   1.0
y_mean[1626]    -0.15   5.2e-4   0.03    -0.22    -0.18    -0.15    -0.13    -0.09   3949   1.0
y_mean[1627]    -0.02   3.5e-4   0.02    -0.07    -0.04    -0.02-6.6e-3       0.02   4763   1.0
y_mean[1628]     0.08   2.9e-4   0.02     0.04     0.07     0.08     0.09     0.12   4618   1.0
y_mean[1629]    -0.17   3.8e-4   0.03    -0.22    -0.19    -0.17    -0.15    -0.12   4902   1.0
y_mean[1630]    -0.16   5.7e-4   0.04    -0.23    -0.19    -0.16    -0.14    -0.08   4424   1.0
y_mean[1631]    -0.06   8.0e-4   0.06    -0.17    -0.1     -0.06    -0.02     0.05   4985   1.0
y_mean[1632]    -0.55   3.0e-4   0.02    -0.59    -0.56    -0.55    -0.53    -0.51   4835   1.0
y_mean[1633]     0.79   6.4e-4   0.04     0.71     0.76     0.79     0.81     0.86   3998   1.0
y_mean[1634]     0.24   4.1e-4   0.03     0.18     0.22     0.24     0.26     0.29   4899   1.0
y_mean[1635]    -0.4    3.3e-4   0.02    -0.44    -0.42    -0.4     -0.39    -0.36   4527   1.0
y_mean[1636]     0.73   5.3e-4   0.03     0.67     0.71     0.73     0.76     0.8    4081   1.0
y_mean[1637]    -0.52   3.3e-4   0.02    -0.56    -0.54    -0.52    -0.51    -0.48   4546   1.0
y_mean[1638]     0.04   2.9e-4   0.02  6.6e-3     0.03     0.04     0.06     0.08   4605   1.0
y_mean[1639]    -1.06   4.9e-4   0.03    -1.12    -1.08    -1.06    -1.04    -1.0    4355   1.0
y_mean[1640]    -0.41   2.8e-4   0.02    -0.45    -0.43    -0.42    -0.4     -0.38   4721   1.0
y_mean[1641]    -0.13   3.8e-4   0.03    -0.18    -0.15    -0.13    -0.11    -0.08   4647   1.0
y_mean[1642]    -0.51   2.9e-4   0.02    -0.55    -0.52    -0.51    -0.49    -0.47   4850   1.0
y_mean[1643]     0.11   5.5e-4   0.04     0.04     0.09     0.11     0.14     0.18   4442   1.0
y_mean[1644]    -0.06   3.5e-4   0.02    -0.11    -0.07    -0.06    -0.04    -0.01   4870   1.0
y_mean[1645]     1.93   9.9e-4   0.06     1.8      1.88     1.93     1.97     2.05   4190   1.0
y_mean[1646]    -0.51   3.3e-4   0.02    -0.55    -0.52    -0.51    -0.49    -0.46   5056   1.0
y_mean[1647]     0.38   3.4e-4   0.02     0.33     0.36     0.38     0.39     0.42   4637   1.0
y_mean[1648]    -0.2    5.7e-4   0.04    -0.27    -0.22    -0.2     -0.17    -0.12   4400   1.0
y_mean[1649]    -0.03   3.1e-4   0.02    -0.07    -0.04    -0.03    -0.02     0.01   4785   1.0
y_mean[1650]    -0.02   2.9e-4   0.02    -0.05    -0.03    -0.02-1.9e-3       0.02   4773   1.0
y_mean[1651]    -0.4    3.4e-4   0.02    -0.44    -0.41    -0.39    -0.38    -0.35   5164   1.0
y_mean[1652]     0.48   5.1e-4   0.04     0.41     0.45     0.48     0.5      0.54   4842   1.0
y_mean[1653]    -0.57   4.8e-4   0.03    -0.63    -0.59    -0.57    -0.55    -0.5    4662   1.0
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y_mean[1654]	0.49	9.3e-4	0.06	0.37	0.45	0.49	0.54	0.62	4422	1.0
y_mean[1655]	-0.57	4.0e-4	0.03	-0.62	-0.59	-0.57	-0.55	-0.52	4671	1.0
y_mean[1656]	0.32	7.3e-4	0.05	0.21	0.28	0.32	0.35	0.42	5077	1.0
y_mean[1657]	-0.27	2.9e-4	0.02	-0.31	-0.28	-0.27	-0.26	-0.23	4717	1.0
y_mean[1658]	0.15	4.1e-4	0.03	0.09	0.13	0.16	0.18	0.22	5521	1.0
y_mean[1659]	0.13	7.4e-4	0.05	0.03	0.09	0.13	0.16	0.23	5019	1.0
y_mean[1660]	-0.38	4.5e-4	0.03	-0.43	-0.4	-0.38	-0.36	-0.32	4384	1.0
y_mean[1661]	0.3	6.4e-4	0.04	0.22	0.27	0.3	0.33	0.38	4335	1.0
y_mean[1662]	-0.47	5.7e-4	0.04	-0.55	-0.5	-0.48	-0.45	-0.4	4441	1.0
y_mean[1663]	-0.37	3.6e-4	0.02	-0.41	-0.38	-0.37	-0.35	-0.32	4423	1.0
y_mean[1664]	-0.53	3.9e-4	0.03	-0.59	-0.55	-0.53	-0.52	-0.48	4459	1.0
y_mean[1665]	-0.47	7.0e-4	0.05	-0.57	-0.51	-0.47	-0.44	-0.38	4493	1.0
y_mean[1666]	1.68	1.1e-3	0.07	1.54	1.63	1.68	1.73	1.83	4130	1.0
y_mean[1667]	-0.33	2.7e-4	0.02	-0.37	-0.34	-0.33	-0.32	-0.29	4883	1.0
y_mean[1668]	-0.6	3.2e-4	0.02	-0.64	-0.61	-0.6	-0.58	-0.55	4844	1.0
y_mean[1669]	0.19	4.4e-4	0.03	0.13	0.17	0.19	0.21	0.24	4064	1.0
y_mean[1670]	0.22	2.5e-4	0.02	0.19	0.21	0.22	0.24	0.26	4992	1.0
y_mean[1671]	1.19	5.9e-4	0.04	1.11	1.16	1.19	1.21	1.26	4164	1.0
y_mean[1672]	0.41	7.8e-4	0.05	0.31	0.37	0.41	0.44	0.5	4058	1.0
y_mean[1673]	1.47	1.0e-3	0.07	1.34	1.43	1.47	1.52	1.61	4764	1.0
y_mean[1674]	-0.59	3.8e-4	0.03	-0.64	-0.61	-0.59	-0.57	-0.54	4510	1.0
y_mean[1675]	-0.64	3.2e-4	0.02	-0.68	-0.65	-0.64	-0.62	-0.59	4755	1.0
y_mean[1676]	1.3	6.3e-4	0.04	1.22	1.28	1.3	1.33	1.38	4084	1.0
y_mean[1677]	-0.62	3.1e-4	0.02	-0.66	-0.63	-0.62	-0.6	-0.57	4795	1.0
y_mean[1678]	-0.41	4.2e-4	0.03	-0.47	-0.43	-0.41	-0.4	-0.36	4296	1.0
y_mean[1679]	-0.35	3.8e-4	0.03	-0.39	-0.36	-0.35	-0.33	-0.29	4467	1.0
y_mean[1680]	-0.12	3.5e-4	0.02	-0.16	-0.14	-0.12	-0.1	-0.07	4718	1.0
y_mean[1681]	-0.55	5.3e-4	0.04	-0.62	-0.58	-0.55	-0.53	-0.48	4540	1.0
y_mean[1682]	-1.03	4.2e-4	0.03	-1.08	-1.04	-1.03	-1.01	-0.97	4448	1.0
y_mean[1683]	-0.91	4.4e-4	0.03	-0.97	-0.93	-0.91	-0.89	-0.85	4392	1.0
y_mean[1684]	0.6	5.1e-4	0.03	0.53	0.57	0.6	0.62	0.66	4679	1.0
y_mean[1685]	-0.37	3.6e-4	0.02	-0.41	-0.39	-0.37	-0.35	-0.32	4467	1.0
y_mean[1686]	-0.91	4.8e-4	0.03	-0.98	-0.94	-0.92	-0.89	-0.85	4613	1.0
y_mean[1687]	-0.52	2.9e-4	0.02	-0.56	-0.54	-0.52	-0.51	-0.48	4881	1.0
y_mean[1688]	-0.65	3.4e-4	0.02	-0.69	-0.66	-0.65	-0.63	-0.6	4861	1.0
y_mean[1689]	0.1	2.9e-4	0.02	0.06	0.08	0.1	0.11	0.14	4876	1.0
y_mean[1690]	-0.55	3.0e-4	0.02	-0.59	-0.56	-0.55	-0.53	-0.51	4842	1.0
y_mean[1691]	0.42	3.7e-4	0.03	0.37	0.4	0.42	0.44	0.47	5126	1.0
y_mean[1692]	-0.6	2.9e-4	0.02	-0.64	-0.61	-0.6	-0.58	-0.56	4828	1.0
y_mean[1693]	0.16	2.3e-4	0.02	0.13	0.15	0.16	0.17	0.19	5171	1.0
y_mean[1694]	-0.6	3.0e-4	0.02	-0.64	-0.62	-0.6	-0.59	-0.56	4817	1.0
y_mean[1695]	-0.23	4.2e-4	0.03	-0.28	-0.25	-0.23	-0.21	-0.17	4910	1.0
y_mean[1696]	-0.03	2.9e-4	0.02	-0.07	-0.04	-0.03	-0.02	9.5e-3	4788	1.0
y_mean[1697]	-0.21	5.5e-4	0.04	-0.29	-0.24	-0.21	-0.19	-0.14	4948	1.0
y_mean[1698]	-0.42	3.4e-4	0.02	-0.47	-0.44	-0.42	-0.4	-0.37	4851	1.0
y_mean[1699]	-0.7	3.9e-4	0.03	-0.75	-0.72	-0.7	-0.68	-0.65	4941	1.0
y_mean[1700]	-0.96	4.7e-4	0.03	-1.02	-0.98	-0.96	-0.94	-0.9	4643	1.0
y_mean[1701]	-0.05	5.6e-4	0.04	-0.13	-0.07	-0.05	-0.02	0.03	4806	1.0

y_mean[1702]	-0.74	4.6e-4	0.03	-0.8	-0.76	-0.74	-0.72	-0.68	4547	1.0
y_mean[1703]	-0.23	4.6e-4	0.03	-0.29	-0.26	-0.24	-0.21	-0.17	4585	1.0
y_mean[1704]	0.08	2.9e-4	0.02	0.04	0.06	0.08	0.09	0.12	4544	1.0
y_mean[1705]	-0.47	2.8e-4	0.02	-0.51	-0.48	-0.47	-0.46	-0.43	4885	1.0
y_mean[1706]	1.54	7.8e-4	0.05	1.44	1.5	1.54	1.57	1.64	4436	1.0
y_mean[1707]	0.16	3.9e-4	0.03	0.1	0.14	0.16	0.18	0.21	4875	1.0
y_mean[1708]	0.26	3.3e-4	0.02	0.21	0.24	0.26	0.28	0.3	5003	1.0
y_mean[1709]	0.91	5.2e-4	0.03	0.85	0.89	0.91	0.94	0.98	4319	1.0
y_mean[1710]	0.15	7.1e-4	0.04	0.06	0.12	0.15	0.18	0.24	3961	1.0
y_mean[1711]	-0.98	4.4e-4	0.03	-1.04	-1.0	-0.98	-0.96	-0.92	4579	1.0
y_mean[1712]	-0.08	4.6e-4	0.03	-0.14	-0.1	-0.08	-0.06	-0.02	4258	1.0
y_mean[1713]	1.2	9.7e-4	0.06	1.08	1.16	1.2	1.24	1.32	3958	1.0
y_mean[1714]	-0.68	3.5e-4	0.02	-0.73	-0.7	-0.68	-0.66	-0.63	4675	1.0
y_mean[1715]	-0.52	2.9e-4	0.02	-0.56	-0.53	-0.52	-0.51	-0.48	4637	1.0
y_mean[1716]	-0.59	3.2e-4	0.02	-0.63	-0.61	-0.59	-0.58	-0.55	4769	1.0
y_mean[1717]	-0.18	3.6e-4	0.02	-0.23	-0.2	-0.18	-0.17	-0.13	4367	1.0
y_mean[1718]	0.35	5.1e-4	0.03	0.28	0.32	0.35	0.37	0.41	4244	1.0
y_mean[1719]	-0.31	3.2e-4	0.02	-0.36	-0.33	-0.31	-0.3	-0.27	4492	1.0
y_mean[1720]	0.9	8.0e-4	0.06	0.8	0.87	0.9	0.94	1.01	4760	1.0
y_mean[1721]	0.97	6.6e-4	0.04	0.89	0.94	0.97	1.0	1.05	4028	1.0
y_mean[1722]	1.11	9.2e-4	0.06	1.0	1.07	1.11	1.15	1.23	4043	1.0
y_mean[1723]	-0.33	2.6e-4	0.02	-0.36	-0.34	-0.33	-0.32	-0.29	4929	1.0
y_mean[1724]	-0.53	4.1e-4	0.03	-0.58	-0.55	-0.53	-0.51	-0.47	4775	1.0
y_mean[1725]	-0.3	5.2e-4	0.03	-0.37	-0.32	-0.3	-0.28	-0.23	4368	1.0
y_mean[1726]	-0.09	3.3e-4	0.02	-0.13	-0.1	-0.09	-0.07	-0.04	4730	1.0
y_mean[1727]	0.27	5.8e-4	0.04	0.2	0.24	0.27	0.29	0.34	4129	1.0
y_mean[1728]	-0.5	3.1e-4	0.02	-0.54	-0.51	-0.5	-0.48	-0.46	4515	1.0
y_mean[1729]	0.62	4.6e-4	0.03	0.56	0.59	0.62	0.64	0.67	4491	1.0
y_mean[1730]	0.08	5.7e-4	0.04	5.5e-3	0.05	0.08	0.1	0.15	4015	1.0
y_mean[1731]	-0.4	3.4e-4	0.02	-0.44	-0.41	-0.4	-0.38	-0.35	4600	1.0
y_mean[1732]	-0.42	5.8e-4	0.04	-0.49	-0.44	-0.42	-0.39	-0.34	4311	1.0
y_mean[1733]	0.12	4.0e-4	0.03	0.07	0.1	0.12	0.14	0.18	5149	1.0
y_mean[1734]	-0.97	4.5e-4	0.03	-1.03	-0.99	-0.97	-0.95	-0.91	4638	1.0
y_mean[1735]	0.09	3.0e-4	0.02	0.05	0.08	0.09	0.1	0.13	4404	1.0
y_mean[1736]	-0.34	6.0e-4	0.04	-0.41	-0.36	-0.34	-0.31	-0.26	4452	1.0
y_mean[1737]	0.8	4.7e-4	0.03	0.74	0.78	0.8	0.82	0.86	4112	1.0
y_mean[1738]	-0.1	5.9e-4	0.04	-0.18	-0.13	-0.1	-0.08	-0.03	3934	1.0
y_mean[1739]	2.51	8.6e-4	0.05	2.4	2.47	2.51	2.54	2.61	3992	1.0
y_mean[1740]	-0.79	4.7e-4	0.03	-0.85	-0.81	-0.79	-0.77	-0.73	4474	1.0
y_mean[1741]	-0.13	3.6e-4	0.02	-0.17	-0.14	-0.13	-0.11	-0.07	4676	1.0
y_mean[1742]	-0.16	3.9e-4	0.03	-0.21	-0.17	-0.16	-0.14	-0.1	4644	1.0
y_mean[1743]	0.04	5.5e-4	0.04	-0.03	0.01	0.04	0.06	0.11	4333	1.0
y_mean[1744]	0.48	4.3e-4	0.03	0.42	0.46	0.48	0.5	0.53	4568	1.0
y_mean[1745]	1.0	7.2e-4	0.05	0.91	0.97	1.0	1.03	1.09	3958	1.0
y_mean[1746]	0.63	7.5e-4	0.05	0.53	0.6	0.63	0.66	0.73	4312	1.0
y_mean[1747]	-0.15	6.0e-4	0.04	-0.23	-0.18	-0.15	-0.13	-0.07	4141	1.0
y_mean[1748]	-0.68	3.6e-4	0.03	-0.73	-0.7	-0.68	-0.66	-0.63	4911	1.0
y_mean[1749]	1.73	7.3e-4	0.05	1.64	1.7	1.73	1.76	1.83	4501	1.0

y_mean[1750]	0.38	3.3e-4	0.02	0.34	0.37	0.38	0.4	0.43	5024	1.0
y_mean[1751]	-0.16	4.0e-4	0.03	-0.21	-0.18	-0.16	-0.14	-0.1	4618	1.0
y_mean[1752]	4.0e-3	2.9e-4	0.02	-0.03	-9.3e-3	3.7e-3	0.02	0.04	4750	1.0
y_mean[1753]	0.3	2.9e-4	0.02	0.26	0.28	0.3	0.31	0.34	5311	1.0
y_mean[1754]	-0.47	3.7e-4	0.03	-0.52	-0.49	-0.47	-0.45	-0.42	5045	1.0
y_mean[1755]	0.7	4.6e-4	0.03	0.64	0.68	0.7	0.72	0.76	4125	1.0
y_mean[1756]	0.57	4.3e-4	0.03	0.51	0.55	0.57	0.59	0.62	4488	1.0
y_mean[1757]	-1.17	4.4e-4	0.03	-1.22	-1.19	-1.17	-1.15	-1.11	4470	1.0
y_mean[1758]	-0.41	3.8e-4	0.02	-0.46	-0.43	-0.41	-0.4	-0.36	4300	1.0
y_mean[1759]	6.4e-3	2.7e-4	0.02	-0.03	-6.7e-3	6.2e-3	0.02	0.04	5054	1.0
y_mean[1760]	1.41	7.4e-4	0.05	1.31	1.37	1.41	1.44	1.51	4653	1.0
y_mean[1761]	-0.55	2.8e-4	0.02	-0.59	-0.56	-0.55	-0.54	-0.51	4803	1.0
y_mean[1762]	-0.35	3.8e-4	0.03	-0.4	-0.37	-0.35	-0.33	-0.3	4573	1.0
y_mean[1763]	-0.49	5.7e-4	0.04	-0.57	-0.52	-0.5	-0.47	-0.42	4492	1.0
y_mean[1764]	0.04	4.3e-4	0.03	-0.02	0.02	0.04	0.06	0.09	4531	1.0
y_mean[1765]	-0.12	4.6e-4	0.03	-0.18	-0.14	-0.12	-0.1	-0.06	4078	1.0
y_mean[1766]	0.57	8.8e-4	0.06	0.45	0.53	0.57	0.61	0.69	4851	1.0
y_mean[1767]	-0.35	3.8e-4	0.03	-0.4	-0.37	-0.35	-0.33	-0.29	5188	1.0
y_mean[1768]	2.2	1.0e-3	0.07	2.07	2.16	2.2	2.25	2.33	4295	1.0
y_mean[1769]	-0.32	3.1e-4	0.02	-0.36	-0.33	-0.32	-0.3	-0.28	4589	1.0
y_mean[1770]	-0.07	4.3e-4	0.03	-0.13	-0.09	-0.07	-0.06	-0.02	4308	1.0
y_mean[1771]	-0.13	4.9e-4	0.03	-0.2	-0.15	-0.13	-0.1	-0.06	5000	1.0
y_mean[1772]	0.7	5.3e-4	0.04	0.63	0.68	0.7	0.73	0.77	4660	1.0
y_mean[1773]	-0.02	3.9e-4	0.03	-0.07	-0.03	-0.02	2.1e-3	0.04	4848	1.0
y_mean[1774]	-0.58	3.0e-4	0.02	-0.62	-0.59	-0.58	-0.56	-0.54	4874	1.0
y_mean[1775]	0.41	4.4e-4	0.03	0.36	0.4	0.41	0.43	0.47	4080	1.0
y_mean[1776]	0.59	4.1e-4	0.03	0.53	0.57	0.59	0.6	0.64	4385	1.0
y_mean[1777]	-0.05	3.9e-4	0.03	-0.1	-0.07	-0.05	-0.03	1.9e-3	4845	1.0
y_mean[1778]	-1.15	4.2e-4	0.03	-1.2	-1.17	-1.15	-1.13	-1.09	4402	1.0
y_mean[1779]	0.22	4.1e-4	0.03	0.17	0.21	0.22	0.24	0.28	4066	1.0
y_mean[1780]	-2.1e-3	5.0e-4	0.03	-0.06	-0.02	-1.9e-3	0.02	0.06	4099	1.0
y_mean[1781]	0.08	5.1e-4	0.03	0.02	0.06	0.08	0.11	0.15	4195	1.0
y_mean[1782]	-0.31	4.6e-4	0.03	-0.37	-0.33	-0.31	-0.29	-0.25	4091	1.0
y_mean[1783]	0.6	9.7e-4	0.07	0.47	0.56	0.6	0.65	0.74	4945	1.0
y_mean[1784]	0.77	5.4e-4	0.04	0.7	0.74	0.77	0.79	0.84	4360	1.0
y_mean[1785]	-0.21	3.8e-4	0.03	-0.26	-0.22	-0.21	-0.19	-0.16	4421	1.0
y_mean[1786]	0.85	5.8e-4	0.04	0.77	0.82	0.85	0.87	0.92	3957	1.0
y_mean[1787]	-0.4	4.7e-4	0.03	-0.46	-0.42	-0.41	-0.38	-0.34	4134	1.0
y_mean[1788]	0.41	4.4e-4	0.03	0.35	0.39	0.41	0.43	0.47	4725	1.0
y_mean[1789]	-1.52	6.1e-4	0.04	-1.6	-1.55	-1.52	-1.49	-1.44	4400	1.0
y_mean[1790]	0.07	3.3e-4	0.02	0.02	0.05	0.07	0.08	0.11	4412	1.0
y_mean[1791]	0.13	4.0e-4	0.03	0.07	0.11	0.13	0.15	0.19	5365	1.0
y_mean[1792]	-0.44	3.9e-4	0.03	-0.49	-0.46	-0.44	-0.42	-0.39	4278	1.0
y_mean[1793]	-0.9	4.9e-4	0.03	-0.96	-0.92	-0.9	-0.88	-0.83	4527	1.0
y_mean[1794]	0.84	5.4e-4	0.04	0.77	0.81	0.84	0.86	0.91	4370	1.0
y_mean[1795]	-0.47	3.1e-4	0.02	-0.51	-0.49	-0.47	-0.46	-0.43	4479	1.0
y_mean[1796]	-0.41	3.3e-4	0.02	-0.46	-0.43	-0.41	-0.4	-0.37	4565	1.0
y_mean[1797]	0.6	5.8e-4	0.04	0.52	0.57	0.6	0.63	0.68	4714	1.0

y_mean[1798]	-0.49	3.1e-4	0.02	-0.54	-0.51	-0.49	-0.48	-0.45	4919	1.0
y_mean[1799]	-0.57	2.9e-4	0.02	-0.6	-0.58	-0.57	-0.55	-0.53	4867	1.0
y_mean[1800]	-0.58	3.0e-4	0.02	-0.62	-0.59	-0.58	-0.57	-0.54	4865	1.0
ypred[1]	0.19	9.8e-3	0.64	-1.06	-0.26	0.18	0.63	1.46	4347	1.0
ypred[2]	0.81	0.01	0.66	-0.49	0.38	0.82	1.25	2.13	3742	1.0
ypred[3]	0.57	0.01	0.65	-0.69	0.14	0.57	1.01	1.85	3937	1.0
ypred[4]	0.84	0.01	0.65	-0.42	0.39	0.83	1.29	2.1	4020	1.0
ypred[5]	-0.11	0.01	0.64	-1.37	-0.55	-0.1	0.34	1.13	3949	1.0
ypred[6]	-0.14	0.01	0.66	-1.43	-0.59	-0.12	0.3	1.11	4004	1.0
ypred[7]	-0.21	0.01	0.66	-1.47	-0.65	-0.21	0.23	1.13	3999	1.0
ypred[8]	-1.01	0.01	0.66	-2.33	-1.46	-1.01	-0.55	0.26	3953	1.0
ypred[9]	0.4	0.01	0.65	-0.84	-0.03	0.4	0.83	1.66	3990	1.0
ypred[10]	1.78	0.01	0.66	0.53	1.35	1.78	2.22	3.09	4035	1.0
ypred[11]	0.08	0.01	0.64	-1.19	-0.35	0.09	0.52	1.33	3837	1.0
ypred[12]	1.95	0.01	0.66	0.63	1.51	1.94	2.39	3.21	3524	1.0
ypred[13]	-1.1	0.01	0.64	-2.36	-1.54	-1.1	-0.67	0.15	4023	1.0
ypred[14]	-0.24	0.01	0.65	-1.54	-0.67	-0.23	0.19	1.02	3790	1.0
ypred[15]	-0.64	0.01	0.66	-1.91	-1.08	-0.65	-0.19	0.67	3913	1.0
ypred[16]	-0.49	0.01	0.66	-1.8	-0.92	-0.49	-0.04	0.79	3970	1.0
ypred[17]	2.06	0.01	0.65	0.79	1.62	2.07	2.49	3.34	3542	1.0
ypred[18]	1.4	0.01	0.68	0.08	0.93	1.4	1.86	2.74	3901	1.0
ypred[19]	-1.09	0.01	0.65	-2.35	-1.53	-1.1	-0.65	0.15	4088	1.0
ypred[20]	0.46	0.01	0.65	-0.82	0.01	0.45	0.91	1.74	3858	1.0
ypred[21]	0.62	0.01	0.64	-0.66	0.18	0.63	1.05	1.85	3544	1.0
ypred[22]	-0.05	0.01	0.65	-1.29	-0.5	-0.06	0.4	1.21	3842	1.0
ypred[23]	-0.72	0.01	0.65	-1.99	-1.15	-0.72	-0.27	0.55	4076	1.0
ypred[24]	-0.2	0.01	0.64	-1.44	-0.64	-0.2	0.24	1.04	3799	1.0
ypred[25]	-0.65	0.01	0.64	-1.92	-1.07	-0.64	-0.22	0.61	4133	1.0
ypred[26]	-0.6	0.01	0.65	-1.86	-1.03	-0.6	-0.17	0.67	3853	1.0
ypred[27]	0.02	0.01	0.66	-1.26	-0.41	0.02	0.47	1.29	3575	1.0
ypred[28]	-0.38	0.01	0.65	-1.67	-0.81	-0.39	0.07	0.86	3971	1.0
ypred[29]	0.11	0.01	0.66	-1.19	-0.33	0.11	0.54	1.41	3875	1.0
ypred[30]	-0.57	0.01	0.65	-1.85	-1.01	-0.55	-0.13	0.69	3890	1.0
ypred[31]	-0.66	0.01	0.65	-1.89	-1.1	-0.68	-0.21	0.64	4001	1.0
ypred[32]	-0.77	9.9e-3	0.64	-2.06	-1.2	-0.77	-0.33	0.47	4215	1.0
ypred[33]	-0.35	0.01	0.66	-1.66	-0.79	-0.36	0.09	0.95	3962	1.0
ypred[34]	-0.5	0.01	0.64	-1.72	-0.93	-0.5	-0.07	0.77	4025	1.0
ypred[35]	-0.48	0.01	0.65	-1.78	-0.93	-0.49	-0.04	0.79	4073	1.0
ypred[36]	0.09	0.01	0.65	-1.18	-0.33	0.08	0.53	1.37	4041	1.0
ypred[37]	0.41	0.01	0.64	-0.82	-0.03	0.4	0.85	1.65	3879	1.0
ypred[38]	-1.1	0.01	0.65	-2.36	-1.55	-1.1	-0.66	0.19	3834	1.0
ypred[39]	-0.35	0.01	0.64	-1.63	-0.77	-0.35	0.08	0.89	3829	1.0
ypred[40]	-0.75	0.01	0.66	-2.02	-1.19	-0.74	-0.31	0.53	4145	1.0
ypred[41]	1.78	0.01	0.65	0.44	1.36	1.79	2.22	3.05	3435	1.0
ypred[42]	-0.23	0.01	0.65	-1.52	-0.68	-0.23	0.19	1.03	4097	1.0
ypred[43]	1.01	0.01	0.65	-0.23	0.57	1.01	1.44	2.31	3911	1.0
ypred[44]	-0.21	0.01	0.65	-1.46	-0.66	-0.22	0.23	1.07	3579	1.0
ypred[45]	1.37	0.01	0.65	0.07	0.94	1.37	1.8	2.67	3977	1.0

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ypred[46]       -0.48    0.01    0.64   -1.75    -0.9   -0.48   -0.03    0.77   3888   1.0
ypred[47]        1.05    0.01    0.67   -0.29    0.61    1.03     1.5    2.35   3967   1.0
ypred[48]        0.02    0.01    0.66   -1.25   -0.43  9.7e-3    0.46    1.32   3689   1.0
ypred[49]       -1.11    0.01    0.66   -2.44   -1.54    -1.1   -0.67    0.16   3749   1.0
ypred[50]       -0.33    0.01    0.66   -1.64   -0.77   -0.33    0.12    0.94   3887   1.0
ypred[51]       -0.49    0.01    0.65   -1.76   -0.92   -0.49   -0.05    0.81   4066   1.0
ypred[52]        0.76    0.01    0.65   -0.49    0.32    0.76    1.21    2.03   3949   1.0
ypred[53]         0.1    0.01    0.64   -1.17   -0.34     0.1    0.52    1.39   4063   1.0
ypred[54]        -0.6    0.01    0.66   -1.91   -1.06   -0.59   -0.14    0.66   4069   1.0
ypred[55]       -0.64    0.01    0.66   -1.95   -1.09   -0.65   -0.21    0.64   3825   1.0
ypred[56]       -0.22    0.01    0.64   -1.49   -0.66   -0.22    0.21    1.07   3904   1.0
ypred[57]       -0.36    0.01    0.65   -1.64   -0.81   -0.37    0.07    0.93   3778   1.0
ypred[58]       -1.12    0.01    0.66   -2.43   -1.56   -1.11   -0.68    0.16   4090   1.0
ypred[59]       -0.29    0.01    0.65   -1.55   -0.74   -0.29    0.15     1.0   3484   1.0
ypred[60]       -0.09    0.01    0.65   -1.35   -0.54    -0.1    0.34     1.2   3882   1.0
ypred[61]        0.37    0.01    0.65   -0.91   -0.05    0.37    0.81    1.62   3851   1.0
ypred[62]       -0.47    0.01    0.65   -1.73    -0.9   -0.46   -0.05     0.8   3787   1.0
ypred[63]       -0.97    0.01    0.65   -2.27   -1.42   -0.97   -0.53    0.28   4002   1.0
ypred[64]       -0.21    0.01    0.66   -1.52   -0.64    -0.2    0.23    1.11   4051   1.0
ypred[65]        0.64    0.01    0.64   -0.64     0.2    0.64    1.08    1.91   3779   1.0
ypred[66]       -0.57    0.01    0.66   -1.88   -0.99   -0.57   -0.12    0.74   4015   1.0
ypred[67]       -0.45    0.01    0.64   -1.72   -0.88   -0.44  -9.0e-3    0.8   3861   1.0
ypred[68]       -0.15    0.01    0.66   -1.46   -0.59   -0.16    0.28    1.15   3737   1.0
ypred[69]       -0.98    0.01    0.65   -2.26   -1.41   -0.98   -0.55     0.3   3987   1.0
ypred[70]        0.32    0.01    0.66   -0.96   -0.12    0.33    0.77    1.62   4039   1.0
ypred[71]       -0.07    0.01    0.65   -1.32   -0.52   -0.08    0.38     1.2   3832   1.0
ypred[72]       -0.96    0.01    0.66   -2.23   -1.41   -0.98   -0.51    0.33   4017   1.0
ypred[73]       -0.16    0.01    0.65   -1.45   -0.59   -0.15    0.27    1.15   3947   1.0
ypred[74]       -0.68    0.01    0.65   -1.97   -1.13   -0.67   -0.24     0.6   3871   1.0
ypred[75]       -0.48    0.01    0.65   -1.76   -0.92   -0.48   -0.06    0.79   3688   1.0
ypred[76]       -0.64    0.01    0.65    -1.9   -1.07   -0.63    -0.2    0.64   3778   1.0
ypred[77]       -0.09    0.01    0.65   -1.34   -0.52    -0.1    0.36    1.19   3847   1.0
ypred[78]       -0.35    0.01    0.64   -1.61    -0.8   -0.35     0.1    0.87   3926   1.0
ypred[79]       -0.47    0.01    0.64   -1.72   -0.92   -0.47   -0.03    0.77   3479   1.0
ypred[80]        0.15    0.01    0.65   -1.15   -0.27    0.16     0.6    1.43   4197   1.0
ypred[81]       -0.08    0.01    0.65   -1.36   -0.51   -0.07    0.36    1.21   4070   1.0
ypred[82]       -1.22    0.01    0.65   -2.45   -1.68   -1.22   -0.78    0.07   4089   1.0
ypred[83]       -0.32    0.01    0.66   -1.62   -0.76   -0.32    0.13    0.93   3897   1.0
ypred[84]        -1.0  9.8e-3    0.64   -2.24   -1.42    -1.0   -0.58    0.24   4307   1.0
ypred[85]       -0.37    0.01    0.65   -1.66   -0.79   -0.37    0.08    0.88   3513   1.0
ypred[86]       -0.71    0.01    0.65   -1.99   -1.13   -0.71   -0.28    0.58   3924   1.0
ypred[87]       -0.31    0.01    0.65   -1.57   -0.76   -0.29    0.15    0.97   4118   1.0
ypred[88]       -0.31    0.01    0.65    -1.6   -0.75   -0.31    0.12    0.96   4237   1.0
ypred[89]        0.73    0.01    0.66   -0.53    0.27    0.73    1.19    2.05   3913   1.0
ypred[90]       -0.13    0.01    0.65   -1.42   -0.57   -0.13     0.3    1.14   3897   1.0
ypred[91]        0.23    0.01    0.65   -1.05   -0.23    0.23    0.67    1.54   4184   1.0
ypred[92]        0.04    0.01    0.66   -1.25   -0.41    0.03    0.47     1.4   4099   1.0
ypred[93]       -0.85    0.01    0.64    -2.1   -1.28   -0.85   -0.42    0.42   3760   1.0
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ypred[94]	1.13	0.01	0.65	-0.16	0.7	1.13	1.57	2.41	3886	1.0
ypred[95]	-0.1	0.01	0.65	-1.39	-0.55	-0.1	0.33	1.19	4103	1.0
ypred[96]	-0.65	0.01	0.65	-1.93	-1.1	-0.64	-0.21	0.63	4169	1.0
ypred[97]	0.57	0.01	0.65	-0.69	0.12	0.56	1.0	1.9	3972	1.0
ypred[98]	-0.61	0.01	0.64	-1.85	-1.05	-0.62	-0.16	0.61	3862	1.0
ypred[99]	-0.02	0.01	0.65	-1.28	-0.46	-0.04	0.41	1.27	4174	1.0
ypred[100]	0.75	0.01	0.65	-0.52	0.32	0.75	1.19	2.03	4049	1.0
ypred[101]	0.53	0.01	0.65	-0.8	0.1	0.54	0.97	1.75	3820	1.0
ypred[102]	-0.7	0.01	0.65	-1.99	-1.14	-0.69	-0.27	0.54	4134	1.0
ypred[103]	-0.67	0.01	0.66	-2.01	-1.12	-0.67	-0.23	0.64	3758	1.0
ypred[104]	-0.43	0.01	0.65	-1.66	-0.87	-0.43	-1.2e-3	0.89	3863	1.0
ypred[105]	-0.4	0.01	0.66	-1.72	-0.84	-0.39	0.05	0.86	3946	1.0
ypred[106]	-0.13	0.01	0.66	-1.43	-0.56	-0.14	0.32	1.15	4109	1.0
ypred[107]	-0.07	0.01	0.65	-1.33	-0.52	-0.06	0.38	1.19	4023	1.0
ypred[108]	-1.63	0.01	0.65	-2.91	-2.06	-1.62	-1.2	-0.35	4234	1.0
ypred[109]	0.73	0.01	0.66	-0.59	0.29	0.74	1.17	2.02	4034	1.0
ypred[110]	-0.35	0.01	0.66	-1.63	-0.8	-0.34	0.09	0.94	3841	1.0
ypred[111]	3.71	0.01	0.65	2.44	3.28	3.71	4.15	4.98	3862	1.0
ypred[112]	-1.4e-3	0.01	0.64	-1.26	-0.44	-8.1e-3	0.44	1.28	4129	1.0
ypred[113]	-0.25	0.01	0.66	-1.54	-0.69	-0.25	0.19	1.05	4030	1.0
ypred[114]	-1.02	0.01	0.65	-2.29	-1.47	-1.02	-0.58	0.22	3918	1.0
ypred[115]	-0.61	0.01	0.65	-1.88	-1.05	-0.61	-0.17	0.71	3883	1.0
ypred[116]	-0.52	0.01	0.66	-1.8	-0.99	-0.52	-0.07	0.78	4038	1.0
ypred[117]	-0.22	0.01	0.65	-1.49	-0.65	-0.22	0.23	1.06	3943	1.0
ypred[118]	-0.62	0.01	0.66	-1.87	-1.05	-0.63	-0.19	0.69	3941	1.0
ypred[119]	-0.63	9.8e-3	0.65	-1.92	-1.08	-0.63	-0.19	0.63	4305	1.0
ypred[120]	0.28	0.01	0.66	-1.01	-0.17	0.28	0.73	1.57	3741	1.0
ypred[121]	0.75	0.01	0.65	-0.51	0.31	0.76	1.19	2.03	3922	1.0
ypred[122]	-0.48	0.01	0.65	-1.75	-0.93	-0.47	-0.04	0.77	3934	1.0
ypred[123]	-0.24	0.01	0.65	-1.52	-0.69	-0.24	0.2	0.98	3848	1.0
ypred[124]	-1.1	0.01	0.66	-2.4	-1.54	-1.1	-0.65	0.18	3917	1.0
ypred[125]	-0.67	0.01	0.65	-1.94	-1.11	-0.67	-0.24	0.64	3891	1.0
ypred[126]	0.39	0.01	0.66	-0.9	-0.05	0.4	0.85	1.65	3742	1.0
ypred[127]	-0.87	0.01	0.66	-2.18	-1.32	-0.86	-0.43	0.42	4074	1.0
ypred[128]	-0.29	0.01	0.65	-1.6	-0.73	-0.3	0.14	1.0	4051	1.0
ypred[129]	0.4	0.01	0.65	-0.86	-0.03	0.4	0.83	1.69	3980	1.0
ypred[130]	0.02	0.01	0.65	-1.27	-0.42	4.8e-3	0.46	1.25	3742	1.0
ypred[131]	-0.55	0.01	0.66	-1.86	-1.0	-0.56	-0.11	0.74	3940	1.0
ypred[132]	1.29	0.01	0.64	0.05	0.85	1.28	1.72	2.56	3938	1.0
ypred[133]	1.5	0.01	0.64	0.24	1.05	1.51	1.94	2.76	3950	1.0
ypred[134]	0.24	0.01	0.66	-1.06	-0.21	0.24	0.69	1.53	3933	1.0
ypred[135]	0.23	0.01	0.65	-1.03	-0.22	0.23	0.67	1.48	3881	1.0
ypred[136]	-0.71	0.01	0.64	-2.02	-1.14	-0.7	-0.27	0.54	3809	1.0
ypred[137]	-0.56	0.01	0.66	-1.84	-1.01	-0.55	-0.11	0.71	3984	1.0
ypred[138]	0.43	0.01	0.65	-0.84	-0.01	0.43	0.85	1.73	3999	1.0
ypred[139]	-0.7	0.01	0.65	-1.98	-1.13	-0.7	-0.27	0.57	3913	1.0
ypred[140]	-0.5	0.01	0.63	-1.73	-0.93	-0.51	-0.06	0.74	4013	1.0
ypred[141]	-0.33	0.01	0.65	-1.6	-0.78	-0.33	0.11	0.94	4216	1.0

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ypred[142]    -0.59    0.01    0.66   -1.91   -1.01   -0.58   -0.16     0.7    3816    1.0
ypred[143]    -0.25    0.01    0.67   -1.54   -0.71   -0.25    0.19    1.06    3756    1.0
ypred[144]    -0.62    0.01    0.65   -1.95   -1.06   -0.63   -0.18    0.65    3899    1.0
ypred[145]     -0.7    0.01    0.66   -2.02   -1.14   -0.69   -0.25    0.57    3885    1.0
ypred[146]    -1.13    0.01    0.66   -2.44   -1.57   -1.12   -0.69    0.17    4139    1.0
ypred[147]     -0.1    0.01    0.65   -1.37   -0.54   -0.11    0.34    1.17    3771    1.0
ypred[148]    -0.45    0.01    0.65   -1.73   -0.89   -0.46-8.1e-3    0.85    3728    1.0
ypred[149]      0.2    0.01    0.64   -1.05   -0.24    0.19    0.63    1.45    3931    1.0
ypred[150]     0.58    0.01    0.64   -0.69    0.17    0.58     1.0    1.86    3844    1.0
ypred[151]    9.1e-3   0.01    0.65   -1.22   -0.44-2.5e-3    0.46    1.27    4016    1.0
ypred[152]     0.19    0.01    0.65   -1.11   -0.24    0.21    0.63    1.43    3834    1.0
ypred[153]    -0.57    0.01    0.66   -1.85    -1.0   -0.56   -0.12    0.71    4008    1.0
ypred[154]    -0.57    0.01    0.65   -1.83   -1.01   -0.57   -0.13    0.72    3813    1.0
ypred[155]    -0.22    0.01    0.66   -1.54   -0.67   -0.22    0.23    1.07    3963    1.0
ypred[156]    -0.22    0.01    0.66   -1.52   -0.66   -0.23    0.22    1.11    3906    1.0
ypred[157]    -0.74    0.01    0.65    -2.0   -1.18   -0.74   -0.32    0.59    3927    1.0
ypred[158]    -0.45    0.01    0.65   -1.71   -0.89   -0.46-8.7e-3    0.82    3974    1.0
ypred[159]     0.25    0.01    0.66   -1.07   -0.18    0.25    0.69    1.56    4007    1.0
ypred[160]    -0.38    0.01    0.65   -1.63   -0.83   -0.38    0.05    0.94    3892    1.0
ypred[161]     0.07    0.01    0.64   -1.19   -0.37    0.07     0.5    1.35    3677    1.0
ypred[162]     -0.7   9.8e-3   0.65   -1.95   -1.14    -0.7   -0.26    0.56    4433    1.0
ypred[163]    -0.03    0.01    0.65   -1.24   -0.49   -0.03     0.4    1.23    3963    1.0
ypred[164]     0.28    0.01    0.63   -0.94   -0.14    0.29     0.7    1.51    3660    1.0
ypred[165]    -0.01    0.01    0.66   -1.28   -0.46   -0.02    0.43    1.29    3837    1.0
ypred[166]    -0.41    0.01    0.66   -1.71   -0.85   -0.41    0.03    0.88    3814    1.0
ypred[167]    -0.26   9.9e-3   0.64   -1.51   -0.69   -0.27    0.16     1.0    4186    1.0
ypred[168]     0.65    0.01    0.65   -0.62    0.23    0.65    1.08    1.97    3848    1.0
ypred[169]     1.79    0.01    0.65    0.53    1.34    1.79    2.23    3.06    4049    1.0
ypred[170]     0.61    0.01    0.65   -0.66    0.17    0.59    1.05    1.91    3678    1.0
ypred[171]    -0.16    0.01    0.66   -1.42   -0.61   -0.16    0.29    1.15    3639    1.0
ypred[172]     1.35    0.01    0.66    0.05    0.92    1.34    1.79     2.7    3881    1.0
ypred[173]    -1.12    0.01    0.65   -2.38   -1.55   -1.12   -0.67    0.14    3958    1.0
ypred[174]    -0.39    0.01    0.65   -1.68   -0.82   -0.39    0.04    0.86    4183    1.0
ypred[175]     0.04    0.01    0.65   -1.22   -0.42    0.02    0.49    1.32    4056    1.0
ypred[176]    -1.87    0.01    0.65   -3.11    -2.3   -1.87   -1.42   -0.62    3910    1.0
ypred[177]    -0.19    0.01    0.65   -1.47   -0.63    -0.2    0.24    1.13    3868    1.0
ypred[178]     -0.7    0.01    0.64   -1.96   -1.13   -0.71   -0.25    0.54    3771    1.0
ypred[179]     0.64    0.01    0.65   -0.63     0.2    0.64    1.07    1.93    4017    1.0
ypred[180]    -0.73    0.01    0.66   -1.99   -1.18   -0.74   -0.28    0.55    3931    1.0
ypred[181]    -0.02    0.01    0.65   -1.27   -0.45   -0.02    0.43    1.23    3961    1.0
ypred[182]    -0.23    0.01    0.65   -1.51   -0.68   -0.22    0.21    1.02    3858    1.0
ypred[183]    -0.56    0.01    0.66   -1.87   -1.01   -0.56   -0.12    0.74    3795    1.0
ypred[184]    -0.38    0.01    0.65   -1.64    -0.8   -0.37    0.06    0.88    3695    1.0
ypred[185]    -0.61    0.01    0.66   -1.91   -1.06   -0.62   -0.15    0.67    4270    1.0
ypred[186]     2.46    0.01    0.66    1.14    2.02    2.46    2.91    3.76    3960    1.0
ypred[187]     -0.7    0.01    0.65   -1.97   -1.12    -0.7   -0.26    0.58    3958    1.0
ypred[188]     -0.8    0.01    0.65   -2.09   -1.24   -0.79   -0.36    0.47    3981    1.0
ypred[189]   -9.0e-3   0.01    0.66   -1.28   -0.46   -0.01    0.43    1.27    4245    1.0
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ypred[190]	-0.1	0.01	0.65	-1.35	-0.54	-0.09	0.34	1.16	3960	1.0
ypred[191]	1.56	0.01	0.64	0.33	1.13	1.57	2.0	2.81	3584	1.0
ypred[192]	0.02	0.01	0.66	-1.27	-0.42	0.02	0.47	1.31	4041	1.0
ypred[193]	2.41	0.01	0.66	1.06	1.97	2.41	2.86	3.66	3834	1.0
ypred[194]	-0.65	0.01	0.65	-1.95	-1.09	-0.66	-0.23	0.61	4185	1.0
ypred[195]	-0.2	0.01	0.66	-1.52	-0.63	-0.2	0.24	1.08	3961	1.0
ypred[196]	0.38	0.01	0.65	-0.9	-0.06	0.38	0.82	1.67	3932	1.0
ypred[197]	-1.49	0.01	0.67	-2.82	-1.95	-1.49	-1.05	-0.18	3883	1.0
ypred[198]	-0.61	0.01	0.65	-1.91	-1.04	-0.6	-0.17	0.64	4101	1.0
ypred[199]	-0.15	0.01	0.66	-1.45	-0.6	-0.15	0.3	1.13	3952	1.0
ypred[200]	0.57	0.01	0.66	-0.72	0.13	0.56	1.01	1.88	3750	1.0
y_predicted[1]	0.2	1.3e-3	0.09	0.01	0.14	0.2	0.26	0.39	5098	1.0
y_predicted[2]	0.8	5.4e-4	0.03	0.73	0.78	0.8	0.82	0.86	3992	1.0
y_predicted[3]	0.58	8.5e-4	0.06	0.47	0.55	0.58	0.62	0.7	4478	1.0
y_predicted[4]	0.86	7.2e-4	0.05	0.77	0.83	0.86	0.89	0.95	3988	1.0
y_predicted[5]	-0.1	3.9e-4	0.03	-0.15	-0.12	-0.1	-0.09	-0.05	4666	1.0
y_predicted[6]	-0.13	6.3e-4	0.04	-0.2	-0.15	-0.13	-0.1	-0.04	4128	1.0
y_predicted[7]	-0.21	6.0e-4	0.04	-0.29	-0.24	-0.21	-0.18	-0.12	4990	1.0
y_predicted[8]	-1.0	4.5e-4	0.03	-1.06	-1.02	-1.0	-0.98	-0.94	4660	1.0
y_predicted[9]	0.42	6.4e-4	0.04	0.34	0.4	0.42	0.45	0.51	3978	1.0
y_predicted[10]	1.8	10.0e-4	0.06	1.67	1.76	1.8	1.84	1.93	4200	1.0
y_predicted[11]	0.1	4.2e-4	0.03	0.04	0.08	0.1	0.12	0.16	4640	1.0
y_predicted[12]	1.96	1.0e-3	0.07	1.83	1.91	1.96	2.0	2.09	4427	1.0
y_predicted[13]	-1.1	4.2e-4	0.03	-1.15	-1.12	-1.1	-1.08	-1.04	4420	1.0
y_predicted[14]	-0.26	5.2e-4	0.04	-0.33	-0.28	-0.26	-0.23	-0.18	5123	1.0
y_predicted[15]	-0.64	3.4e-4	0.02	-0.68	-0.66	-0.64	-0.62	-0.59	4749	1.0
y_predicted[16]	-0.49	3.0e-4	0.02	-0.53	-0.5	-0.49	-0.47	-0.45	4572	1.0
y_predicted[17]	2.05	1.3e-3	0.08	1.88	1.99	2.05	2.11	2.22	4461	1.0
y_predicted[18]	1.39	7.6e-4	0.05	1.3	1.36	1.39	1.43	1.49	4471	1.0
y_predicted[19]	-1.08	4.1e-4	0.03	-1.13	-1.1	-1.08	-1.06	-1.02	4469	1.0
y_predicted[20]	0.45	4.7e-4	0.03	0.38	0.43	0.45	0.47	0.51	5095	1.0
y_predicted[21]	0.62	4.4e-4	0.03	0.56	0.6	0.62	0.64	0.67	4256	1.0
y_predicted[22]	-0.05	5.4e-4	0.04	-0.12	-0.07	-0.05	-0.02	0.02	4568	1.0
y_predicted[23]	-0.71	3.7e-4	0.03	-0.76	-0.73	-0.71	-0.69	-0.66	4842	1.0
y_predicted[24]	-0.2	3.5e-4	0.02	-0.24	-0.21	-0.2	-0.18	-0.15	4553	1.0
y_predicted[25]	-0.64	3.2e-4	0.02	-0.68	-0.66	-0.64	-0.63	-0.6	4852	1.0
y_predicted[26]	-0.6	3.1e-4	0.02	-0.65	-0.62	-0.61	-0.59	-0.56	4800	1.0
y_predicted[27]	0.02	3.0e-4	0.02	-0.02	7.9e-3	0.02	0.04	0.06	4636	1.0
y_predicted[28]	-0.37	3.1e-4	0.02	-0.41	-0.38	-0.37	-0.35	-0.32	5139	1.0
y_predicted[29]	0.1	3.1e-4	0.02	0.06	0.09	0.1	0.11	0.14	4346	1.0
y_predicted[30]	-0.55	3.3e-4	0.02	-0.6	-0.57	-0.55	-0.54	-0.5	4848	1.0
y_predicted[31]	-0.65	4.7e-4	0.03	-0.72	-0.68	-0.65	-0.63	-0.59	4873	1.0
y_predicted[32]	-0.75	4.1e-4	0.03	-0.81	-0.77	-0.75	-0.73	-0.7	4843	1.0
y_predicted[33]	-0.35	5.8e-4	0.04	-0.42	-0.37	-0.35	-0.32	-0.27	4538	1.0
y_predicted[34]	-0.49	4.7e-4	0.03	-0.55	-0.51	-0.49	-0.47	-0.43	4437	1.0
y_predicted[35]	-0.48	3.4e-4	0.02	-0.53	-0.5	-0.48	-0.46	-0.43	4995	1.0
y_predicted[36]	0.09	3.8e-4	0.03	0.04	0.08	0.09	0.11	0.14	4954	1.0
y_predicted[37]	0.4	4.5e-4	0.03	0.34	0.38	0.4	0.42	0.45	4245	1.0

y_predicted[38]	-1.09	4.2e-4	0.03	-1.14	-1.11	-1.09	-1.07	-1.03	4489	1.0
y_predicted[39]	-0.35	5.1e-4	0.03	-0.41	-0.37	-0.35	-0.33	-0.28	4115	1.0
y_predicted[40]	-0.73	6.3e-4	0.04	-0.81	-0.76	-0.73	-0.71	-0.65	4400	1.0
y_predicted[41]	1.8	7.9e-4	0.05	1.69	1.76	1.79	1.83	1.9	4201	1.0
y_predicted[42]	-0.23	3.4e-4	0.02	-0.28	-0.25	-0.23	-0.22	-0.19	4853	1.0
y_predicted[43]	1.0	8.6e-4	0.06	0.88	0.96	1.0	1.04	1.12	4840	1.0
y_predicted[44]	-0.23	5.4e-4	0.03	-0.3	-0.25	-0.23	-0.2	-0.16	4055	1.0
y_predicted[45]	1.37	6.6e-4	0.04	1.29	1.34	1.37	1.4	1.45	4087	1.0
y_predicted[46]	-0.49	6.4e-4	0.04	-0.57	-0.52	-0.49	-0.46	-0.4	4396	1.0
y_predicted[47]	1.04	7.3e-4	0.05	0.95	1.01	1.04	1.07	1.13	4137	1.0
y_predicted[48]	0.02	3.2e-4	0.02	-0.02	9.4e-3	0.02	0.04	0.07	4814	1.0
y_predicted[49]	-1.11	4.4e-4	0.03	-1.17	-1.13	-1.11	-1.09	-1.06	4482	1.0
y_predicted[50]	-0.34	4.0e-4	0.03	-0.39	-0.35	-0.34	-0.32	-0.28	4229	1.0
y_predicted[51]	-0.51	8.8e-4	0.06	-0.63	-0.55	-0.51	-0.47	-0.39	4566	1.0
y_predicted[52]	0.76	5.0e-4	0.03	0.7	0.74	0.76	0.78	0.82	4033	1.0
y_predicted[53]	0.09	3.0e-4	0.02	0.06	0.08	0.09	0.11	0.13	4463	1.0
y_predicted[54]	-0.65	3.5e-4	0.02	-0.69	-0.66	-0.65	-0.63	-0.6	4730	1.0
y_predicted[55]	-0.65	3.2e-4	0.02	-0.69	-0.67	-0.65	-0.64	-0.61	4796	1.0
y_predicted[56]	-0.23	4.4e-4	0.03	-0.28	-0.25	-0.23	-0.21	-0.17	4644	1.0
y_predicted[57]	-0.35	2.6e-4	0.02	-0.39	-0.36	-0.35	-0.34	-0.31	5071	1.0
y_predicted[58]	-1.11	4.2e-4	0.03	-1.16	-1.13	-1.11	-1.09	-1.05	4420	1.0
y_predicted[59]	-0.28	4.2e-4	0.03	-0.33	-0.3	-0.28	-0.26	-0.23	4176	1.0
y_predicted[60]	-0.07	4.7e-4	0.03	-0.13	-0.09	-0.07	-0.05	-0.02	4116	1.0
y_predicted[61]	0.39	5.9e-4	0.04	0.31	0.36	0.39	0.41	0.46	3979	1.0
y_predicted[62]	-0.47	3.1e-4	0.02	-0.51	-0.48	-0.47	-0.46	-0.43	4457	1.0
y_predicted[63]	-0.98	4.6e-4	0.03	-1.04	-1.0	-0.98	-0.96	-0.92	4704	1.0
y_predicted[64]	-0.2	3.4e-4	0.02	-0.24	-0.21	-0.2	-0.18	-0.15	4544	1.0
y_predicted[65]	0.64	4.5e-4	0.03	0.57	0.61	0.64	0.66	0.7	5177	1.0
y_predicted[66]	-0.56	2.9e-4	0.02	-0.6	-0.58	-0.56	-0.55	-0.52	4900	1.0
y_predicted[67]	-0.45	3.1e-4	0.02	-0.49	-0.46	-0.45	-0.43	-0.4	4672	1.0
y_predicted[68]	-0.16	5.8e-4	0.04	-0.23	-0.19	-0.16	-0.14	-0.08	4188	1.0
y_predicted[69]	-0.99	4.5e-4	0.03	-1.05	-1.01	-0.99	-0.97	-0.93	4641	1.0
y_predicted[70]	0.31	5.0e-4	0.03	0.25	0.29	0.31	0.33	0.37	4076	1.0
y_predicted[71]	-0.06	3.1e-4	0.02	-0.1	-0.08	-0.06	-0.05	-0.02	4751	1.0
y_predicted[72]	-0.97	4.3e-4	0.03	-1.03	-0.99	-0.97	-0.95	-0.91	4699	1.0
y_predicted[73]	-0.15	5.7e-4	0.04	-0.22	-0.18	-0.15	-0.13	-0.08	4098	1.0
y_predicted[74]	-0.68	3.4e-4	0.02	-0.72	-0.69	-0.68	-0.66	-0.63	4868	1.0
y_predicted[75]	-0.48	4.5e-4	0.03	-0.54	-0.5	-0.48	-0.46	-0.42	4199	1.0
y_predicted[76]	-0.63	3.1e-4	0.02	-0.67	-0.65	-0.63	-0.62	-0.59	4770	1.0
y_predicted[77]	-0.09	3.5e-4	0.02	-0.14	-0.11	-0.09	-0.08	-0.05	4693	1.0
y_predicted[78]	-0.35	3.8e-4	0.02	-0.4	-0.37	-0.35	-0.34	-0.3	4295	1.0
y_predicted[79]	-0.48	2.9e-4	0.02	-0.52	-0.5	-0.48	-0.47	-0.44	4745	1.0
y_predicted[80]	0.15	3.7e-4	0.02	0.11	0.14	0.15	0.17	0.2	4141	1.0
y_predicted[81]	-0.08	3.2e-4	0.02	-0.12	-0.1	-0.08	-0.07	-0.04	4923	1.0
y_predicted[82]	-1.22	4.9e-4	0.03	-1.29	-1.25	-1.22	-1.2	-1.16	4485	1.0
y_predicted[83]	-0.32	3.7e-4	0.02	-0.37	-0.34	-0.32	-0.3	-0.27	4264	1.0
y_predicted[84]	-0.99	4.6e-4	0.03	-1.05	-1.01	-0.99	-0.97	-0.92	4681	1.0
y_predicted[85]	-0.37	2.6e-4	0.02	-0.41	-0.39	-0.37	-0.36	-0.34	4920	1.0

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y_predicted[86]    -0.71   3.9e-4   0.03   -0.76   -0.73   -0.71   -0.69   -0.66   4596   1.0
y_predicted[87]    -0.28   4.5e-4   0.03   -0.33    -0.3   -0.28   -0.26   -0.22   4249   1.0
y_predicted[88]    -0.31   5.3e-4   0.04   -0.38   -0.34   -0.32   -0.29   -0.24   4619   1.0
y_predicted[89]     0.73   4.7e-4   0.03    0.67    0.71    0.73    0.75    0.79   4083   1.0
y_predicted[90]    -0.13   4.0e-4   0.03   -0.18   -0.15   -0.13   -0.11   -0.08   4551   1.0
y_predicted[91]     0.21   4.4e-4   0.03    0.16    0.19    0.21    0.23    0.27   4028   1.0
y_predicted[92]     0.05   2.8e-4   0.02  7.7e-3    0.03    0.05    0.06    0.08   4669   1.0
y_predicted[93]    -0.85   5.2e-4   0.03   -0.92   -0.88   -0.85   -0.83   -0.78   4392   1.0
y_predicted[94]     1.13   9.8e-4   0.06    1.01    1.08    1.13    1.17    1.25   4110   1.0
y_predicted[95]    -0.09   4.4e-4   0.03   -0.15   -0.11   -0.09   -0.08   -0.04   4137   1.0
y_predicted[96]    -0.65   3.3e-4   0.02    -0.7   -0.67   -0.65   -0.64   -0.61   4723   1.0
y_predicted[97]     0.57   4.1e-4   0.03    0.52    0.56    0.57    0.59    0.63   4387   1.0
y_predicted[98]    -0.61   3.3e-4   0.02   -0.66   -0.63   -0.61    -0.6   -0.57   4814   1.0
y_predicted[99]    -0.03   3.6e-4   0.02   -0.08   -0.05   -0.03   -0.02    0.02   4763   1.0
y_predicted[100]    0.74   4.8e-4   0.03    0.68    0.72    0.74    0.76     0.8   4065   1.0
y_predicted[101]    0.53   4.2e-4   0.03    0.48    0.51    0.53    0.55    0.59   4443   1.0
y_predicted[102]    -0.7   4.0e-4   0.03   -0.75   -0.72    -0.7   -0.68   -0.64   4613   1.0
y_predicted[103]   -0.68   3.4e-4   0.02   -0.73    -0.7   -0.68   -0.67   -0.63   4715   1.0
y_predicted[104]   -0.42   4.0e-4   0.03   -0.47   -0.44   -0.42    -0.4   -0.36   5047   1.0
y_predicted[105]   -0.39   3.0e-4   0.02   -0.44   -0.41   -0.39   -0.38   -0.35   5218   1.0
y_predicted[106]   -0.12   3.9e-4   0.03   -0.17   -0.14   -0.12    -0.1   -0.07   4628   1.0
y_predicted[107]   -0.07   3.2e-4   0.02   -0.11   -0.08   -0.07   -0.05   -0.03   4740   1.0
y_predicted[108]   -1.62   5.9e-4   0.04   -1.69   -1.64   -1.61   -1.59   -1.54   4306   1.0
y_predicted[109]    0.73   4.9e-4   0.03    0.66     0.7    0.73    0.75    0.79   4524   1.0
y_predicted[110]   -0.35   3.6e-4   0.02   -0.39   -0.36   -0.35   -0.33    -0.3   4473   1.0
y_predicted[111]    3.71   1.8e-3   0.11     3.5    3.64    3.71    3.79    3.93   4033   1.0
y_predicted[112]   -0.02   4.6e-4   0.03   -0.08   -0.04   -0.02 -1.7e-3    0.04   4741   1.0
y_predicted[113]   -0.25   4.9e-4   0.03   -0.31   -0.27   -0.25   -0.23   -0.18   4531   1.0
y_predicted[114]   -1.03   4.3e-4   0.03   -1.09   -1.05   -1.03   -1.01   -0.97   4590   1.0
y_predicted[115]    -0.6   3.1e-4   0.02   -0.64   -0.61    -0.6   -0.58   -0.55   4845   1.0
y_predicted[116]   -0.54   3.6e-4   0.02   -0.58   -0.55   -0.54   -0.52   -0.49   4777   1.0
y_predicted[117]   -0.22   6.0e-4   0.04    -0.3   -0.25   -0.22   -0.19   -0.14   5008   1.0
y_predicted[118]   -0.61   3.2e-4   0.02   -0.65   -0.63   -0.61    -0.6   -0.57   4816   1.0
y_predicted[119]   -0.63   3.6e-4   0.02   -0.67   -0.64   -0.63   -0.61   -0.58   4799   1.0
y_predicted[120]    0.28   4.6e-4   0.03    0.23    0.26    0.28     0.3    0.34   4073   1.0
y_predicted[121]    0.76   6.6e-4   0.04    0.67    0.73    0.76    0.79    0.85   4425   1.0
y_predicted[122]    -0.5   2.8e-4   0.02   -0.53   -0.51    -0.5   -0.48   -0.46   4826   1.0
y_predicted[123]   -0.25   3.1e-4   0.02   -0.29   -0.26   -0.25   -0.23   -0.21   5082   1.0
y_predicted[124]    -1.1   4.2e-4   0.03   -1.16   -1.12    -1.1   -1.08   -1.05   4465   1.0
y_predicted[125]   -0.67   3.4e-4   0.02   -0.71   -0.68   -0.67   -0.65   -0.62   4694   1.0
y_predicted[126]    0.39   3.5e-4   0.03    0.34    0.38    0.39    0.41    0.44   5161   1.0
y_predicted[127]   -0.85   5.6e-4   0.04   -0.92   -0.88   -0.85   -0.82   -0.77   4781   1.0
y_predicted[128]   -0.29   3.6e-4   0.03   -0.33    -0.3   -0.29   -0.27   -0.24   4867   1.0
y_predicted[129]     0.4   6.1e-4   0.04    0.31    0.37     0.4    0.43    0.48   4692   1.0
y_predicted[130]    0.01   2.9e-4   0.02   -0.03 -1.6e-3    0.01    0.03    0.05   4744   1.0
y_predicted[131]   -0.54   3.0e-4   0.02   -0.58   -0.55   -0.54   -0.53    -0.5   4659   1.0
y_predicted[132]    1.29   6.2e-4   0.04    1.21    1.26    1.29    1.32    1.37   4117   1.0
y_predicted[133]     1.5   7.6e-4   0.05     1.4    1.47     1.5    1.54     1.6   4212   1.0
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y_predicted[134]    0.25   3.5e-4   0.03    0.2    0.23    0.25    0.26     0.3   5336   1.0
y_predicted[135]    0.22   4.2e-4   0.03   0.16     0.2    0.22    0.23    0.27   4035   1.0
y_predicted[136]   -0.71   3.6e-4   0.02  -0.75   -0.72   -0.71   -0.69   -0.66   4724   1.0
y_predicted[137]   -0.56   3.0e-4   0.02   -0.6   -0.57   -0.56   -0.55   -0.52   4720   1.0
y_predicted[138]    0.42   6.3e-4   0.04   0.34     0.4    0.42    0.45     0.5   3997   1.0
y_predicted[139]   -0.72   3.7e-4   0.03  -0.76   -0.73   -0.72    -0.7   -0.67   4719   1.0
y_predicted[140]   -0.51   3.2e-4   0.02  -0.56   -0.53   -0.51    -0.5   -0.47   5225   1.0
y_predicted[141]   -0.33   4.0e-4   0.03  -0.37   -0.34   -0.33   -0.31   -0.27   4330   1.0
y_predicted[142]    -0.6   4.2e-4   0.03  -0.66   -0.62    -0.6   -0.59   -0.55   4414   1.0
y_predicted[143]   -0.26   3.3e-4   0.02   -0.3   -0.27   -0.26   -0.24   -0.22   4548   1.0
y_predicted[144]   -0.62   3.1e-4   0.02  -0.66   -0.64   -0.62   -0.61   -0.58   4787   1.0
y_predicted[145]    -0.7   3.6e-4   0.02  -0.75   -0.72    -0.7   -0.68   -0.65   4655   1.0
y_predicted[146]   -1.11   4.4e-4   0.03  -1.16   -1.13   -1.11   -1.09   -1.05   4499   1.0
y_predicted[147]   -0.12   4.4e-4   0.03  -0.17   -0.14   -0.12    -0.1   -0.06   4133   1.0
y_predicted[148]   -0.44   2.7e-4   0.02  -0.48   -0.45   -0.44   -0.43    -0.4   5076   1.0
y_predicted[149]     0.2   4.3e-4   0.03   0.14    0.18     0.2    0.22    0.26   4867   1.0
y_predicted[150]    0.57   4.1e-4   0.03   0.51    0.55    0.57    0.58    0.62   4343   1.0
y_predicted[151]    0.01   3.0e-4   0.02  -0.03  -2.3e-3   0.01    0.03    0.05   4674   1.0
y_predicted[152]    0.18   3.5e-4   0.02   0.14    0.17    0.18     0.2    0.23   4324   1.0
y_predicted[153]   -0.56   3.0e-4   0.02   -0.6   -0.57   -0.56   -0.54   -0.52   4900   1.0
y_predicted[154]   -0.56   2.9e-4   0.02  -0.59   -0.57   -0.56   -0.54   -0.52   4848   1.0
y_predicted[155]   -0.23   3.1e-4   0.02  -0.27   -0.24   -0.23   -0.21   -0.18   4852   1.0
y_predicted[156]   -0.21   5.5e-4   0.03  -0.28   -0.23   -0.21   -0.19   -0.14   4067   1.0
y_predicted[157]   -0.73   4.3e-4   0.03  -0.79   -0.75   -0.73   -0.71   -0.67   4553   1.0
y_predicted[158]   -0.46   3.0e-4   0.02   -0.5   -0.47   -0.46   -0.44   -0.42   4712   1.0
y_predicted[159]    0.24   4.0e-4   0.03   0.19    0.22    0.24    0.26    0.29   4288   1.0
y_predicted[160]   -0.38   3.6e-4   0.02  -0.42    -0.4   -0.38   -0.36   -0.33   4348   1.0
y_predicted[161]    0.05   3.0e-4   0.02   0.01    0.04    0.05    0.07    0.09   4524   1.0
y_predicted[162]   -0.72   3.7e-4   0.03  -0.76   -0.73   -0.72    -0.7   -0.66   4649   1.0
y_predicted[163]   -0.04   5.6e-4   0.04  -0.12   -0.07   -0.04   -0.02    0.03   4560   1.0
y_predicted[164]    0.27   3.4e-4   0.02   0.22    0.25    0.27    0.28    0.31   4728   1.0
y_predicted[165]   -0.02   3.4e-4   0.02  -0.07   -0.04   -0.02  -6.4e-3   0.02   4824   1.0
y_predicted[166]   -0.41   3.3e-4   0.02  -0.46   -0.43   -0.41    -0.4   -0.37   4751   1.0
y_predicted[167]   -0.27   3.1e-4   0.02  -0.31   -0.28   -0.27   -0.25   -0.23   4642   1.0
y_predicted[168]    0.64   4.2e-4   0.03   0.59    0.62    0.64    0.66     0.7   4324   1.0
y_predicted[169]    1.79   9.4e-4   0.06   1.67    1.75    1.79    1.83    1.91   4240   1.0
y_predicted[170]    0.62   4.9e-4   0.03   0.55     0.6    0.62    0.64    0.68   4241   1.0
y_predicted[171]   -0.16   7.3e-4   0.05  -0.26   -0.19   -0.16   -0.12   -0.05   5079   1.0
y_predicted[172]    1.35   8.0e-4   0.05   1.24    1.31    1.35    1.39    1.45   4748   1.0
y_predicted[173]   -1.12   4.1e-4   0.03  -1.17   -1.14   -1.12    -1.1   -1.06   4420   1.0
y_predicted[174]   -0.38   2.6e-4   0.02  -0.42   -0.39   -0.38   -0.37   -0.35   4907   1.0
y_predicted[175]    0.05   2.8e-4   0.02   0.01    0.04    0.05    0.06    0.09   4620   1.0
y_predicted[176]   -1.87   9.4e-4   0.06  -1.98   -1.91   -1.87   -1.82   -1.74   4226   1.0
y_predicted[177]    -0.2   5.4e-4   0.04  -0.27   -0.22    -0.2   -0.17   -0.12   4660   1.0
y_predicted[178]   -0.69   4.6e-4   0.03  -0.75   -0.71   -0.69   -0.67   -0.63   4937   1.0
y_predicted[179]    0.62   5.9e-4   0.04   0.55    0.59    0.62    0.64    0.69   4005   1.0
y_predicted[180]   -0.73   4.1e-4   0.03  -0.79   -0.75   -0.73   -0.71   -0.68   4560   1.0
y_predicted[181]   -0.02   2.9e-4   0.02  -0.06   -0.03   -0.02  -5.6e-3   0.02   4759   1.0
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y_predicted[182]	-0.24	4.8e-4	0.03	-0.31	-0.27	-0.24	-0.22	-0.18	4535	1.0
y_predicted[183]	-0.57	3.3e-4	0.02	-0.61	-0.58	-0.57	-0.55	-0.52	4787	1.0
y_predicted[184]	-0.38	2.9e-4	0.02	-0.42	-0.39	-0.38	-0.37	-0.34	4673	1.0
y_predicted[185]	-0.6	3.3e-4	0.02	-0.64	-0.61	-0.6	-0.58	-0.55	4782	1.0
y_predicted[186]	2.48	1.1e-3	0.07	2.35	2.44	2.48	2.53	2.62	4129	1.0
y_predicted[187]	-0.7	5.1e-4	0.03	-0.76	-0.72	-0.7	-0.68	-0.63	4280	1.0
y_predicted[188]	-0.79	4.4e-4	0.03	-0.85	-0.81	-0.79	-0.77	-0.73	4657	1.0
y_predicted[189]	-0.02	2.9e-4	0.02	-0.06	-0.03	-0.02	-5.6e-3	0.02	4759	1.0
y_predicted[190]	-0.1	3.8e-4	0.03	-0.15	-0.11	-0.1	-0.08	-0.05	4399	1.0
y_predicted[191]	1.58	1.2e-3	0.07	1.43	1.53	1.57	1.62	1.71	3837	1.0
y_predicted[192]	0.04	5.0e-4	0.03	-0.03	0.01	0.04	0.06	0.1	4425	1.0
y_predicted[193]	2.41	1.1e-3	0.07	2.27	2.36	2.41	2.46	2.54	3975	1.0
y_predicted[194]	-0.66	3.6e-4	0.02	-0.71	-0.68	-0.66	-0.65	-0.61	4692	1.0
y_predicted[195]	-0.21	6.0e-4	0.04	-0.29	-0.24	-0.21	-0.18	-0.13	4433	1.0
y_predicted[196]	0.37	2.9e-4	0.02	0.33	0.36	0.37	0.39	0.42	5138	1.0
y_predicted[197]	-1.49	7.0e-4	0.05	-1.58	-1.52	-1.49	-1.46	-1.4	4209	1.0
y_predicted[198]	-0.61	5.3e-4	0.04	-0.69	-0.64	-0.61	-0.59	-0.54	4774	1.0
y_predicted[199]	-0.16	3.9e-4	0.03	-0.2	-0.17	-0.16	-0.14	-0.11	4280	1.0
y_predicted[200]	0.57	4.4e-4	0.03	0.52	0.55	0.57	0.59	0.63	4314	1.0
loglik_pred[1]	-0.71	4.5e-4	0.03	-0.77	-0.73	-0.71	-0.69	-0.65	4813	1.0
loglik_pred[2]	-0.67	4.3e-4	0.03	-0.73	-0.69	-0.67	-0.65	-0.62	4511	1.0
loglik_pred[3]	-1.42	1.7e-3	0.11	-1.64	-1.49	-1.41	-1.34	-1.21	4481	1.0
loglik_pred[4]	-0.88	5.8e-4	0.04	-0.96	-0.9	-0.88	-0.85	-0.8	4697	1.0
loglik_pred[5]	-0.56	3.1e-4	0.02	-0.61	-0.58	-0.56	-0.55	-0.52	4633	1.0
loglik_pred[6]	-0.57	3.2e-4	0.02	-0.62	-0.59	-0.57	-0.56	-0.53	4781	1.0
loglik_pred[7]	-0.54	2.2e-4	0.02	-0.57	-0.55	-0.54	-0.53	-0.51	6168	1.0
loglik_pred[8]	-1.35	9.3e-4	0.06	-1.48	-1.39	-1.35	-1.31	-1.24	4644	1.0
loglik_pred[9]	-0.5	2.3e-4	0.02	-0.53	-0.51	-0.5	-0.49	-0.47	5627	1.0
loglik_pred[10]	-0.49	2.3e-4	0.02	-0.53	-0.51	-0.49	-0.48	-0.46	5504	1.0
loglik_pred[11]	-0.52	2.3e-4	0.02	-0.55	-0.53	-0.52	-0.51	-0.48	6013	1.0
loglik_pred[12]	-0.51	2.7e-4	0.02	-0.55	-0.52	-0.51	-0.5	-0.47	5340	1.0
loglik_pred[13]	-0.5	2.3e-4	0.02	-0.53	-0.51	-0.5	-0.48	-0.46	5935	1.0
loglik_pred[14]	-0.58	2.9e-4	0.02	-0.62	-0.59	-0.58	-0.56	-0.53	5816	1.0
loglik_pred[15]	-0.59	3.3e-4	0.02	-0.64	-0.6	-0.59	-0.57	-0.55	4733	1.0
loglik_pred[16]	-1.07	8.6e-4	0.05	-1.17	-1.1	-1.06	-1.03	-0.96	4015	1.0
loglik_pred[17]	-0.67	3.6e-4	0.02	-0.72	-0.68	-0.67	-0.65	-0.62	4789	1.0
loglik_pred[18]	-1.36	1.3e-3	0.08	-1.53	-1.41	-1.36	-1.3	-1.21	4150	1.0
loglik_pred[19]	-0.75	1.2e-3	0.08	-0.92	-0.8	-0.75	-0.7	-0.62	4007	1.0
loglik_pred[20]	-0.68	5.9e-4	0.04	-0.76	-0.71	-0.68	-0.65	-0.61	4361	1.0
loglik_pred[21]	-0.84	5.9e-4	0.04	-0.92	-0.87	-0.84	-0.81	-0.76	4531	1.0
loglik_pred[22]	-1.15	1.8e-3	0.13	-1.41	-1.23	-1.14	-1.06	-0.92	4795	1.0
loglik_pred[23]	-0.55	2.5e-4	0.02	-0.59	-0.56	-0.55	-0.54	-0.51	5737	1.0
loglik_pred[24]	-0.95	5.5e-4	0.04	-1.02	-0.97	-0.95	-0.93	-0.88	4150	1.0
loglik_pred[25]	-3.11	1.6e-3	0.11	-3.35	-3.18	-3.11	-3.03	-2.89	5161	1.0
loglik_pred[26]	-0.49	2.1e-4	0.02	-0.52	-0.5	-0.49	-0.48	-0.46	6440	1.0
loglik_pred[27]	-0.69	5.6e-4	0.04	-0.76	-0.71	-0.69	-0.66	-0.62	3974	1.0
loglik_pred[28]	-0.56	3.1e-4	0.02	-0.61	-0.58	-0.56	-0.55	-0.52	4948	1.0
loglik_pred[29]	-0.51	2.5e-4	0.02	-0.55	-0.53	-0.51	-0.5	-0.48	5561	1.0

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loglik_pred[30]   -1.11  1.1e-3   0.07  -1.24  -1.15  -1.11  -1.06  -0.98  3928  1.0
loglik_pred[31]   -1.33  8.7e-4   0.06  -1.45  -1.37  -1.33  -1.29  -1.22  4778  1.0
loglik_pred[32]   -0.54  2.3e-4   0.02  -0.57  -0.55  -0.54  -0.52   -0.5  5723  1.0
loglik_pred[33]   -1.12  9.8e-4   0.06  -1.25  -1.16  -1.12  -1.08  -1.01  3936  1.0
loglik_pred[34]   -0.87  4.2e-4   0.03  -0.93  -0.89  -0.87  -0.85  -0.81  5216  1.0
loglik_pred[35]   -0.98  1.3e-3   0.08  -1.15  -1.03  -0.98  -0.93  -0.83  3934  1.0
loglik_pred[36]   -0.52  2.3e-4   0.02  -0.55  -0.53  -0.52   -0.5  -0.48  5908  1.0
loglik_pred[37]   -0.63  6.3e-4   0.04  -0.72  -0.66  -0.63   -0.6  -0.56  4047  1.0
loglik_pred[38]   -0.83  5.0e-4   0.03  -0.91  -0.86  -0.83  -0.81  -0.77  4761  1.0
loglik_pred[39]   -0.76  3.8e-4   0.03  -0.81  -0.78  -0.76  -0.74  -0.71  4484  1.0
loglik_pred[40]   -1.34  7.5e-4   0.05  -1.44  -1.37  -1.34  -1.31  -1.25  4209  1.0
loglik_pred[41]    -0.8  9.1e-4   0.06  -0.92  -0.84   -0.8  -0.76  -0.69  3984  1.0
loglik_pred[42]   -0.52  2.6e-4   0.02  -0.56  -0.54  -0.52  -0.51  -0.49  5209  1.0
loglik_pred[43]    -2.7  2.4e-3   0.16  -3.03  -2.81   -2.7  -2.59   -2.4  4447  1.0
loglik_pred[44]   -0.85  6.1e-4   0.04  -0.94  -0.88  -0.85  -0.82  -0.77  4621  1.0
loglik_pred[45]   -0.84  6.3e-4   0.04  -0.93  -0.87  -0.84  -0.81  -0.76  4612  1.0
loglik_pred[46]   -1.51  1.6e-3    0.1  -1.72  -1.58  -1.51  -1.44  -1.31  4292  1.0
loglik_pred[47]   -0.78  4.2e-4   0.03  -0.85   -0.8  -0.78  -0.76  -0.72  5640  1.0
loglik_pred[48]    -0.6  3.0e-4   0.02  -0.64  -0.61  -0.59  -0.58  -0.55  5245  1.0
loglik_pred[49]   -0.76  4.9e-4   0.03  -0.83  -0.79  -0.76  -0.74   -0.7  4567  1.0
loglik_pred[50]   -0.72  4.3e-4   0.03  -0.78  -0.74  -0.72   -0.7  -0.67  4711  1.0
loglik_pred[51]   -0.51  2.2e-4   0.02  -0.54  -0.52  -0.51  -0.49  -0.47  6337  1.0
loglik_pred[52]   -1.09  5.9e-4   0.04  -1.16  -1.11  -1.08  -1.06  -1.01  4221  1.0
loglik_pred[53]    -0.5  2.2e-4   0.02  -0.54  -0.52   -0.5  -0.49  -0.47  5912  1.0
loglik_pred[54]   -0.61  4.2e-4   0.03  -0.66  -0.62   -0.6  -0.59  -0.55  4724  1.0
loglik_pred[55]   -1.11  1.0e-3   0.07  -1.25  -1.16  -1.11  -1.06  -0.98  4325  1.0
loglik_pred[56]   -0.63  3.8e-4   0.03  -0.69  -0.65  -0.63  -0.62  -0.59  4546  1.0
loglik_pred[57]   -1.02  6.4e-4   0.04   -1.1  -1.05  -1.02   -1.0  -0.94  4051  1.0
loglik_pred[58]   -0.96  2.2e-3   0.14  -1.25  -1.05  -0.95  -0.86  -0.72  3898  1.0
loglik_pred[59]    -0.5  2.4e-4   0.02  -0.53  -0.51   -0.5  -0.49  -0.47  5706  1.0
loglik_pred[60]    -0.5  2.2e-4   0.02  -0.53  -0.51   -0.5  -0.49  -0.46  6347  1.0
loglik_pred[61]   -0.53  3.0e-4   0.02  -0.58  -0.55  -0.53  -0.52  -0.49  5207  1.0
loglik_pred[62]   -0.71  5.2e-4   0.03  -0.78  -0.74  -0.71  -0.69  -0.65  4152  1.0
loglik_pred[63]   -0.54  3.3e-4   0.02  -0.59  -0.56  -0.54  -0.53   -0.5  5183  1.0
loglik_pred[64]   -0.61  3.2e-4   0.02  -0.66  -0.62  -0.61  -0.59  -0.56  5530  1.0
loglik_pred[65]   -0.54  2.8e-4   0.02  -0.58  -0.56  -0.54  -0.53  -0.51  4558  1.0
loglik_pred[66]   -0.58  3.6e-4   0.03  -0.64   -0.6  -0.58  -0.57  -0.54  5348  1.0
loglik_pred[67]   -0.65  4.1e-4   0.03  -0.71  -0.67  -0.65  -0.63   -0.6  5111  1.0
loglik_pred[68]    -0.9  4.7e-4   0.03  -0.96  -0.92  -0.89  -0.87  -0.84  4711  1.0
loglik_pred[69]   -0.78  3.5e-4   0.02  -0.83   -0.8  -0.78  -0.77  -0.73  5146  1.0
loglik_pred[70]   -1.14  8.4e-4   0.06  -1.25  -1.18  -1.14   -1.1  -1.03  4693  1.0
loglik_pred[71]   -0.82  6.1e-4   0.04   -0.9  -0.84  -0.81  -0.79  -0.74  4838  1.0
loglik_pred[72]   -0.52  3.2e-4   0.02  -0.57  -0.53  -0.51   -0.5  -0.47  5355  1.0
loglik_pred[73]    -0.5  2.4e-4   0.02  -0.54  -0.52   -0.5  -0.49  -0.47  5388  1.0
loglik_pred[74]    -0.5  2.2e-4   0.02  -0.54  -0.51   -0.5  -0.49  -0.47  6348  1.0
loglik_pred[75]   -1.39  1.1e-3   0.07  -1.54  -1.44  -1.39  -1.34  -1.26  4010  1.0
loglik_pred[76]   -0.51  2.2e-4   0.02  -0.54  -0.52  -0.51  -0.49  -0.47  6083  1.0
loglik_pred[77]   -0.74  5.4e-4   0.04  -0.81  -0.76  -0.73  -0.71  -0.67  4642  1.0
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loglik_pred[78]    -0.64   2.5e-4   0.02   -0.67   -0.65   -0.64   -0.62    -0.6   5603   1.0
loglik_pred[79]    -0.52   2.5e-4   0.02   -0.55   -0.53   -0.52    -0.5   -0.48   5254   1.0
loglik_pred[80]    -0.57   3.5e-4   0.02   -0.62   -0.59   -0.57   -0.55   -0.52   4653   1.0
loglik_pred[81]    -0.56   2.4e-4   0.02   -0.59   -0.57   -0.56   -0.54   -0.52   5584   1.0
loglik_pred[82]    -4.09   2.9e-3    0.2   -4.49   -4.22   -4.08   -3.95   -3.71   4796   1.0
loglik_pred[83]    -0.74   5.1e-4   0.03   -0.81   -0.77   -0.74   -0.72   -0.68   4079   1.0
loglik_pred[84]    -0.57   3.1e-4   0.02   -0.61   -0.58   -0.57   -0.55   -0.53   4807   1.0
loglik_pred[85]    -0.53   2.4e-4   0.02   -0.56   -0.54   -0.53   -0.51   -0.49   5484   1.0
loglik_pred[86]    -0.66   2.8e-4   0.02    -0.7   -0.67   -0.66   -0.64   -0.62   5146   1.0
loglik_pred[87]    -0.81   4.1e-4   0.03   -0.87   -0.83   -0.81    -0.8   -0.76   4649   1.0
loglik_pred[88]    -0.57   3.8e-4   0.03   -0.62   -0.59   -0.57   -0.55   -0.52   4855   1.0
loglik_pred[89]     -0.5   2.2e-4   0.02   -0.53   -0.51    -0.5   -0.48   -0.46   6107   1.0
loglik_pred[90]    -0.49   2.1e-4   0.02   -0.53    -0.5   -0.49   -0.48   -0.46   6408   1.0
loglik_pred[91]    -0.49   2.4e-4   0.02   -0.53   -0.51   -0.49   -0.48   -0.46   5421   1.0
loglik_pred[92]    -0.51   2.3e-4   0.02   -0.54   -0.52   -0.51   -0.49   -0.47   5977   1.0
loglik_pred[93]    -0.72   8.3e-4   0.06   -0.84   -0.75   -0.71   -0.67   -0.61   5047   1.0
loglik_pred[94]    -0.87   8.9e-4   0.06   -0.98   -0.91   -0.87   -0.83   -0.77   3856   1.0
loglik_pred[95]    -1.43   8.7e-4   0.06   -1.55   -1.47   -1.43    -1.4   -1.32   4224   1.0
loglik_pred[96]    -0.53   2.3e-4   0.02   -0.57   -0.54   -0.53   -0.52    -0.5   5819   1.0
loglik_pred[97]    -0.73   3.5e-4   0.02   -0.78   -0.75   -0.73   -0.71   -0.68   4871   1.0
loglik_pred[98]    -0.58   3.3e-4   0.02   -0.62   -0.59   -0.58   -0.56   -0.53   4726   1.0
loglik_pred[99]    -0.61   7.8e-4   0.06   -0.74   -0.65   -0.61   -0.57   -0.52   5008   1.0
loglik_pred[100]   -0.68   4.6e-4   0.03   -0.74    -0.7   -0.67   -0.65   -0.62   4716   1.0
loglik_pred[101]   -0.49   2.2e-4   0.02   -0.52    -0.5   -0.49   -0.48   -0.46   6086   1.0
loglik_pred[102]   -0.73   3.8e-4   0.03   -0.79   -0.75   -0.73   -0.72   -0.68   4870   1.0
loglik_pred[103]   -0.52   2.6e-4   0.02   -0.56   -0.53   -0.52   -0.51   -0.49   5128   1.0
loglik_pred[104]   -0.87   5.2e-4   0.04   -0.94   -0.89   -0.87   -0.85    -0.8   4589   1.0
loglik_pred[105]   -3.14   2.1e-3   0.14   -3.43   -3.24   -3.14   -3.04   -2.88   4555   1.0
loglik_pred[106]    -0.5   2.4e-4   0.02   -0.54   -0.51    -0.5   -0.49   -0.47   5791   1.0
loglik_pred[107]   -0.49   2.3e-4   0.02   -0.53   -0.51    -0.5   -0.48   -0.46   5844   1.0
loglik_pred[108]   -7.77   5.5e-3   0.37   -8.51   -8.02   -7.76   -7.51   -7.07   4539   1.0
loglik_pred[109]   -2.09   1.3e-3   0.09   -2.27   -2.15   -2.08   -2.03   -1.92   4808   1.0
loglik_pred[110]    -0.8   9.8e-4   0.06   -0.93   -0.84    -0.8   -0.76   -0.69   4121   1.0
loglik_pred[111]   -0.76   9.4e-4   0.06   -0.88   -0.79   -0.75   -0.71   -0.65   3986   1.0
loglik_pred[112]   -0.77   5.1e-4   0.03   -0.84   -0.79   -0.77   -0.75   -0.71   4255   1.0
loglik_pred[113]   -0.54   2.8e-4   0.02   -0.58   -0.56   -0.54   -0.53   -0.51   4959   1.0
loglik_pred[114]    -0.5   2.2e-4   0.02   -0.54   -0.51    -0.5   -0.49   -0.47   6085   1.0
loglik_pred[115]   -0.49   2.2e-4   0.02   -0.53   -0.51   -0.49   -0.48   -0.46   6146   1.0
loglik_pred[116]   -0.56   3.4e-4   0.02   -0.61   -0.58   -0.56   -0.55   -0.52   4639   1.0
loglik_pred[117]   -0.61   3.6e-4   0.02   -0.66   -0.63   -0.61   -0.59   -0.56   4605   1.0
loglik_pred[118]    -0.7   6.9e-4   0.04   -0.79   -0.73    -0.7   -0.67   -0.62   4171   1.0
loglik_pred[119]   -0.81   6.4e-4   0.05   -0.91   -0.84   -0.81   -0.78   -0.72   5365   1.0
loglik_pred[120]   -0.49   2.1e-4   0.02   -0.53    -0.5   -0.49   -0.48   -0.46   6302   1.0
loglik_pred[121]   -0.54   3.1e-4   0.02   -0.59   -0.56   -0.54   -0.53    -0.5   5005   1.0
loglik_pred[122]   -0.65   4.4e-4   0.03   -0.71   -0.67   -0.65   -0.63    -0.6   4522   1.0
loglik_pred[123]   -0.59   2.8e-4   0.02   -0.63    -0.6   -0.59   -0.57   -0.55   5487   1.0
loglik_pred[124]   -0.54   2.7e-4   0.02   -0.58   -0.55   -0.54   -0.53    -0.5   5466   1.0
loglik_pred[125]   -0.96   4.7e-4   0.03   -1.02   -0.98   -0.96   -0.94    -0.9   4411   1.0
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loglik_pred[126]   -1.8   1.1e-3   0.07   -1.94   -1.85    -1.8   -1.75   -1.66   4501   1.0
loglik_pred[127]   -0.5   2.2e-4   0.02   -0.53   -0.51    -0.5   -0.49   -0.47   5819   1.0
loglik_pred[128]  -0.65   4.1e-4   0.03   -0.71   -0.67   -0.65   -0.63    -0.6   4711   1.0
loglik_pred[129]  -0.49   2.2e-4   0.02   -0.53   -0.51   -0.49   -0.48   -0.46   6150   1.0
loglik_pred[130]  -0.52   2.7e-4   0.02   -0.55   -0.53   -0.52    -0.5   -0.48   5043   1.0
loglik_pred[131]  -1.08   1.6e-3    0.1   -1.28   -1.14   -1.07   -1.01   -0.89   3908   1.0
loglik_pred[132]  -0.53   2.4e-4   0.02   -0.57   -0.54   -0.53   -0.52    -0.5   5881   1.0
loglik_pred[133]  -1.47   1.2e-3   0.08   -1.63   -1.52   -1.46   -1.41   -1.31   4492   1.0
loglik_pred[134]  -1.03   1.1e-3   0.07   -1.17   -1.08   -1.03   -0.98    -0.9   3995   1.0
loglik_pred[135]  -0.55   2.5e-4   0.02   -0.59   -0.57   -0.55   -0.54   -0.52   5379   1.0
loglik_pred[136]  -0.52   2.5e-4   0.02   -0.56   -0.53   -0.52   -0.51   -0.48   5684   1.0
loglik_pred[137]  -0.73   3.9e-4   0.03   -0.78   -0.74   -0.73   -0.71   -0.68   4282   1.0
loglik_pred[138]  -0.59   5.4e-4   0.04   -0.66   -0.61   -0.58   -0.56   -0.52   4283   1.0
loglik_pred[139]  -0.71   4.7e-4   0.03   -0.77   -0.73   -0.71   -0.69   -0.65   4373   1.0
loglik_pred[140]  -0.74   5.0e-4   0.03    -0.8   -0.76   -0.74   -0.71   -0.67   4443   1.0
loglik_pred[141]  -0.54   3.0e-4   0.02   -0.59   -0.56   -0.54   -0.53    -0.5   5107   1.0
loglik_pred[142]  -0.55   3.4e-4   0.03   -0.61   -0.57   -0.55   -0.54   -0.51   5671   1.0
loglik_pred[143]  -0.49   2.1e-4   0.02   -0.52    -0.5   -0.49   -0.48   -0.46   6431   1.0
loglik_pred[144]   -0.5   2.2e-4   0.02   -0.53   -0.51    -0.5   -0.49   -0.47   6244   1.0
loglik_pred[145]  -0.49   2.1e-4   0.02   -0.53   -0.51   -0.49   -0.48   -0.46   6439   1.0
loglik_pred[146]  -0.55   3.2e-4   0.02    -0.6   -0.57   -0.55   -0.54   -0.51   5086   1.0
loglik_pred[147]  -0.51   2.3e-4   0.02   -0.54   -0.52   -0.51   -0.49   -0.47   5948   1.0
loglik_pred[148]  -0.52   2.6e-4   0.02   -0.56   -0.53   -0.52   -0.51   -0.48   5637   1.0
loglik_pred[149]  -0.75   4.9e-4   0.03   -0.82   -0.77   -0.75   -0.73   -0.69   4981   1.0
loglik_pred[150]  -0.84   3.8e-4   0.03   -0.89   -0.85   -0.83   -0.82   -0.79   4595   1.0
loglik_pred[151]  -0.62   3.3e-4   0.02   -0.67   -0.64   -0.62   -0.61   -0.58   5203   1.0
loglik_pred[152]  -0.55   2.6e-4   0.02   -0.59   -0.57   -0.55   -0.54   -0.52   5584   1.0
loglik_pred[153]  -1.11   5.1e-4   0.03   -1.18   -1.14   -1.11   -1.09   -1.05   4486   1.0
loglik_pred[154]  -0.95   4.5e-4   0.03   -1.01   -0.97   -0.95   -0.93   -0.89   4712   1.0
loglik_pred[155]  -0.94   4.8e-4   0.03    -1.0   -0.96   -0.94   -0.91   -0.87   4512   1.0
loglik_pred[156]  -0.67   3.6e-4   0.03   -0.72   -0.69   -0.67   -0.65   -0.62   4938   1.0
loglik_pred[157]  -0.53   2.3e-4   0.02   -0.57   -0.55   -0.53   -0.52    -0.5   5474   1.0
loglik_pred[158]   -0.5   2.3e-4   0.02   -0.53   -0.51    -0.5   -0.49   -0.46   6122   1.0
loglik_pred[159]  -0.87   6.9e-4   0.04   -0.96    -0.9   -0.87   -0.84   -0.78   4182   1.0
loglik_pred[160]   -0.5   2.1e-4   0.02   -0.53   -0.51    -0.5   -0.48   -0.46   6383   1.0
loglik_pred[161]  -0.56   2.5e-4   0.02    -0.6   -0.58   -0.56   -0.55   -0.53   5592   1.0
loglik_pred[162]  -0.71   5.8e-4   0.04   -0.78   -0.73   -0.71   -0.68   -0.64   4121   1.0
loglik_pred[163]  -0.81   4.2e-4   0.03   -0.87   -0.83   -0.81   -0.79   -0.76   4763   1.0
loglik_pred[164]  -2.64   2.1e-3   0.14   -2.91   -2.73   -2.64   -2.54   -2.38   4392   1.0
loglik_pred[165]  -0.58   3.2e-4   0.02   -0.63    -0.6   -0.58   -0.57   -0.54   4851   1.0
loglik_pred[166]  -0.57   2.7e-4   0.02   -0.61   -0.59   -0.57   -0.56   -0.54   5423   1.0
loglik_pred[167]   -0.5   2.2e-4   0.02   -0.53   -0.51    -0.5   -0.49   -0.47   6341   1.0
loglik_pred[168]  -1.94   2.2e-3   0.15   -2.24   -2.04   -1.94   -1.84   -1.66   4307   1.0
loglik_pred[169]  -0.62   2.8e-4   0.02   -0.66   -0.64   -0.62   -0.61   -0.58   5246   1.0
loglik_pred[170]  -0.64   3.0e-4   0.02   -0.68   -0.65   -0.63   -0.62   -0.59   5202   1.0
loglik_pred[171]  -0.58   3.6e-4   0.02   -0.63    -0.6   -0.58   -0.57   -0.54   4663   1.0
loglik_pred[172]  -6.08   3.9e-3   0.27   -6.62   -6.27   -6.07    -5.9   -5.57   4923   1.0
loglik_pred[173]  -0.66   7.7e-4   0.05   -0.77   -0.69   -0.66   -0.63   -0.58   4093   1.0
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loglik_pred[174]   -0.51  2.5e-4   0.02  -0.55  -0.53  -0.51   -0.5  -0.48   5510   1.0
loglik_pred[175]   -0.53  2.8e-4   0.02  -0.57  -0.54  -0.53  -0.51  -0.49   5392   1.0
loglik_pred[176]   -1.49  7.5e-4   0.05  -1.59  -1.52  -1.49  -1.45  -1.38   4955   1.0
loglik_pred[177]   -0.64  2.9e-4   0.02  -0.68  -0.66  -0.64  -0.63   -0.6   5369   1.0
loglik_pred[178]   -0.52  2.5e-4   0.02  -0.55  -0.53  -0.52   -0.5  -0.48   5311   1.0
loglik_pred[179]   -0.55  2.6e-4   0.02  -0.58  -0.56  -0.54  -0.53  -0.51   5234   1.0
loglik_pred[180]    -0.9  8.2e-4   0.06  -1.02  -0.94   -0.9  -0.86  -0.79   4833   1.0
loglik_pred[181]   -1.03  7.7e-4   0.05  -1.14  -1.07  -1.03   -1.0  -0.94   4470   1.0
loglik_pred[182]    -0.5  2.3e-4   0.02  -0.54  -0.51   -0.5  -0.49  -0.47   5982   1.0
loglik_pred[183]   -4.24  2.5e-3   0.17  -4.58  -4.35  -4.24  -4.13  -3.92   4724   1.0
loglik_pred[184]   -1.38  8.8e-4   0.06  -1.49  -1.41  -1.38  -1.34  -1.27   4235   1.0
loglik_pred[185]    -1.1  5.2e-4   0.04  -1.17  -1.13   -1.1  -1.08  -1.03   4824   1.0
loglik_pred[186]   -1.02  8.2e-4   0.05  -1.13  -1.06  -1.02  -0.99  -0.92   4283   1.0
loglik_pred[187]   -0.51  2.4e-4   0.02  -0.54  -0.52  -0.51   -0.5  -0.48   5320   1.0
loglik_pred[188]   -0.51  2.8e-4   0.02  -0.55  -0.52  -0.51   -0.5  -0.47   4768   1.0
loglik_pred[189]   -0.56  3.5e-4   0.02  -0.61  -0.58  -0.56  -0.54  -0.52   4681   1.0
loglik_pred[190]   -1.07  5.6e-4   0.04  -1.15   -1.1  -1.07  -1.04  -0.99   4926   1.0
loglik_pred[191]   -0.86  1.1e-3   0.08  -1.02  -0.91  -0.85   -0.8  -0.71   4816   1.0
loglik_pred[192]   -0.51  2.7e-4   0.02  -0.55  -0.52  -0.51  -0.49  -0.47   5187   1.0
loglik_pred[193]   -0.51  2.3e-4   0.02  -0.55  -0.53  -0.51   -0.5  -0.48   5892   1.0
loglik_pred[194]   -0.87  4.7e-4   0.03  -0.93  -0.89  -0.87  -0.85  -0.81   4462   1.0
loglik_pred[195]    -0.5  2.1e-4   0.02  -0.53  -0.51   -0.5  -0.49  -0.47   6465   1.0
loglik_pred[196]   -0.67  7.9e-4   0.05  -0.78   -0.7  -0.67  -0.64  -0.58   4242   1.0
loglik_pred[197]   -1.23  9.5e-4   0.06  -1.36  -1.27  -1.23  -1.19  -1.12   4093   1.0
loglik_pred[198]   -0.88  4.4e-4   0.03  -0.93   -0.9  -0.87  -0.86  -0.82   4656   1.0
loglik_pred[199]   -0.55  2.9e-4   0.02  -0.59  -0.56  -0.54  -0.53   -0.5   5252   1.0
loglik_pred[200]   -0.61  4.5e-4   0.03  -0.68  -0.63  -0.61  -0.59  -0.56   4344   1.0
lp__              -129.5    0.04   1.71 -133.6 -130.4 -129.2 -128.2 -127.1   1666   1.0
```

Samples were drawn using NUTS at Sat Dec 8 00:36:29 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*

        # Model fitting with default parameters and displaying the results (random seed to rep
        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	-0.15	3.0e-4	0.02	-0.18	-0.16	-0.15	-0.14	-0.11	3728	1.0
theta[1]	0.37	7.1e-4	0.04	0.3	0.35	0.37	0.4	0.44	2594	1.0
theta[2]	0.38	3.8e-4	0.02	0.34	0.37	0.38	0.4	0.43	3736	1.0
theta[3]	-0.2	7.1e-4	0.04	-0.27	-0.22	-0.2	-0.17	-0.13	2502	1.0
theta[4]	0.08	4.3e-4	0.03	0.03	0.07	0.08	0.1	0.13	3486	1.0
theta[5]	0.1	2.5e-4	0.01	0.07	0.09	0.1	0.11	0.12	2643	1.0
theta[6]	0.12	1.6e-4	0.01	0.1	0.11	0.12	0.12	0.14	4132	1.0
theta[7]	-0.04	2.9e-4	0.01	-0.07	-0.05	-0.04	-0.03	-0.01	2431	1.0
theta[8]	-0.02	1.9e-4	0.01	-0.05	-0.03	-0.02	-0.02	-9.0e-4	3715	1.0
sigma	0.6	1.4e-4	10.0e-3	0.58	0.59	0.6	0.6	0.62	4927	1.0
y_mean[1]	-0.13	5.2e-4	0.03	-0.2	-0.16	-0.13	-0.11	-0.07	3795	1.0
y_mean[2]	-0.19	5.7e-4	0.03	-0.25	-0.21	-0.19	-0.17	-0.13	3015	1.0
y_mean[3]	0.06	8.0e-4	0.05	-0.04	0.02	0.06	0.09	0.16	3962	1.0
y_mean[4]	-0.58	6.4e-4	0.04	-0.66	-0.61	-0.58	-0.56	-0.51	3654	1.0
y_mean[5]	0.01	4.8e-4	0.03	-0.05	-8.0e-3	0.01	0.03	0.07	3768	1.0
y_mean[6]	-0.68	5.7e-4	0.03	-0.74	-0.7	-0.68	-0.65	-0.61	3396	1.0
y_mean[7]	-0.43	3.4e-4	0.02	-0.47	-0.45	-0.43	-0.42	-0.39	3642	1.0
y_mean[8]	0.87	4.6e-4	0.03	0.81	0.85	0.87	0.89	0.93	4341	1.0
y_mean[9]	-0.43	5.8e-4	0.03	-0.49	-0.45	-0.43	-0.41	-0.37	2890	1.0
y_mean[10]	-0.05	6.9e-4	0.04	-0.13	-0.08	-0.05	-0.02	0.03	3422	1.0
y_mean[11]	-0.46	5.0e-4	0.03	-0.51	-0.47	-0.46	-0.44	-0.4	3040	1.0
y_mean[12]	1.31	6.0e-4	0.04	1.22	1.28	1.31	1.33	1.39	4894	1.0
y_mean[13]	-0.66	6.3e-4	0.04	-0.73	-0.68	-0.66	-0.63	-0.59	3355	1.0
y_mean[14]	0.18	4.3e-4	0.03	0.12	0.16	0.18	0.2	0.23	4416	1.0
y_mean[15]	-0.41	5.3e-4	0.03	-0.46	-0.42	-0.41	-0.39	-0.35	2763	1.0
y_mean[16]	0.02	5.1e-4	0.03	-0.04	4.9e-4	0.02	0.04	0.09	4237	1.0
y_mean[17]	-0.43	4.7e-4	0.03	-0.48	-0.45	-0.43	-0.41	-0.38	2981	1.0
y_mean[18]	1.26	6.0e-4	0.04	1.18	1.23	1.26	1.29	1.34	5066	1.0
y_mean[19]	2.84	2.7e-3	0.14	2.56	2.74	2.84	2.93	3.11	2809	1.0
y_mean[20]	-0.73	1.0e-3	0.06	-0.85	-0.77	-0.73	-0.69	-0.61	3828	1.0
y_mean[21]	-0.26	5.6e-4	0.03	-0.32	-0.28	-0.26	-0.23	-0.19	3450	1.0
y_mean[22]	1.02	1.3e-3	0.09	0.83	0.96	1.02	1.08	1.2	4864	1.0
y_mean[23]	-0.56	4.2e-4	0.02	-0.61	-0.58	-0.56	-0.54	-0.51	3271	1.0
y_mean[24]	-0.03	4.6e-4	0.03	-0.08	-0.04	-0.03	-9.5e-3	0.03	3295	1.0
y_mean[25]	-0.48	5.3e-4	0.03	-0.54	-0.5	-0.48	-0.46	-0.43	2962	1.0
y_mean[26]	-0.39	5.0e-4	0.03	-0.45	-0.41	-0.39	-0.37	-0.34	3039	1.0
y_mean[27]	-0.23	8.3e-4	0.04	-0.31	-0.26	-0.23	-0.2	-0.15	2475	1.0
y_mean[28]	-0.71	6.3e-4	0.04	-0.78	-0.73	-0.71	-0.68	-0.63	3805	1.0
y_mean[29]	0.47	4.6e-4	0.03	0.41	0.45	0.47	0.49	0.53	3886	1.0
y_mean[30]	0.44	6.6e-4	0.04	0.37	0.41	0.44	0.47	0.52	3472	1.0
y_mean[31]	0.06	6.3e-4	0.03	-3.0e-3	0.04	0.06	0.08	0.13	2801	1.0
y_mean[32]	0.03	3.5e-4	0.02	-0.01	0.02	0.03	0.05	0.08	4014	1.0
y_mean[33]	0.07	5.4e-4	0.04	-1.1e-3	0.05	0.07	0.09	0.14	4332	1.0
y_mean[34]	0.06	4.2e-4	0.02	0.02	0.04	0.06	0.08	0.11	3354	1.0

	mean	se_mean	sd	2.5%	25%	50%	75%	97.5%	n_eff	Rhat
y_mean[35]	1.66	9.0e-4	0.06	1.55	1.62	1.66	1.7	1.77	4079	1.0
y_mean[36]	-0.07	4.2e-4	0.02	-0.11	-0.09	-0.07	-0.05	-0.02	3220	1.0
y_mean[37]	0.81	7.4e-4	0.05	0.71	0.77	0.81	0.84	0.9	4179	1.0
y_mean[38]	-0.43	4.9e-4	0.03	-0.49	-0.45	-0.43	-0.41	-0.38	3395	1.0
y_mean[39]	-0.04	4.3e-4	0.02	-0.09	-0.06	-0.04	-0.02	8.1e-3	3290	1.0
y_mean[40]	-1.5e-3	4.4e-4	0.03	-0.05	-0.02	-1.7e-3	0.02	0.05	3507	1.0
y_mean[41]	0.64	8.8e-4	0.06	0.53	0.61	0.64	0.68	0.76	4395	1.0
y_mean[42]	-0.77	6.1e-4	0.04	-0.84	-0.79	-0.77	-0.74	-0.7	3640	1.0
y_mean[43]	2.26	9.0e-4	0.05	2.15	2.22	2.26	2.29	2.36	3701	1.0
y_mean[44]	0.38	5.4e-4	0.03	0.32	0.36	0.38	0.41	0.45	3678	1.0
y_mean[45]	0.49	5.0e-4	0.03	0.43	0.47	0.49	0.51	0.55	4421	1.0
y_mean[46]	0.12	8.4e-4	0.05	0.03	0.09	0.12	0.15	0.21	3075	1.0
y_mean[47]	-0.08	4.7e-4	0.03	-0.14	-0.1	-0.08	-0.06	-0.03	3506	1.0
y_mean[48]	-0.6	4.9e-4	0.03	-0.65	-0.61	-0.6	-0.58	-0.54	3471	1.0
y_mean[49]	-0.75	5.8e-4	0.04	-0.82	-0.77	-0.75	-0.72	-0.68	3634	1.0
y_mean[50]	-0.18	5.0e-4	0.03	-0.24	-0.2	-0.18	-0.16	-0.12	3313	1.0
y_mean[51]	0.13	4.3e-4	0.02	0.08	0.11	0.13	0.15	0.18	3359	1.0
y_mean[52]	-0.04	4.5e-4	0.03	-0.09	-0.05	-0.04	-0.02	0.01	3195	1.0
y_mean[53]	-0.55	4.0e-4	0.02	-0.6	-0.57	-0.55	-0.54	-0.51	3321	1.0
y_mean[54]	-0.68	7.1e-4	0.04	-0.77	-0.71	-0.68	-0.66	-0.6	3603	1.0
y_mean[55]	-0.71	1.0e-3	0.06	-0.83	-0.75	-0.71	-0.67	-0.59	3843	1.0
y_mean[56]	-0.69	6.1e-4	0.04	-0.77	-0.72	-0.69	-0.67	-0.62	3681	1.0
y_mean[57]	-2.3e-3	4.6e-4	0.03	-0.06	-0.02	-2.1e-3	0.02	0.05	3492	1.0
y_mean[58]	3.93	2.4e-3	0.15	3.63	3.82	3.93	4.03	4.23	3942	1.0
y_mean[59]	-0.25	5.7e-4	0.03	-0.31	-0.27	-0.25	-0.23	-0.18	3492	1.0
y_mean[60]	-0.61	5.3e-4	0.03	-0.67	-0.63	-0.61	-0.59	-0.55	3502	1.0
y_mean[61]	-0.34	5.8e-4	0.03	-0.41	-0.37	-0.34	-0.32	-0.28	3340	1.0
y_mean[62]	-0.36	5.9e-4	0.03	-0.42	-0.38	-0.36	-0.34	-0.3	3071	1.0
y_mean[63]	0.62	5.6e-4	0.03	0.56	0.6	0.62	0.65	0.69	3731	1.0
y_mean[64]	-0.48	4.7e-4	0.03	-0.54	-0.5	-0.48	-0.46	-0.43	3592	1.0
y_mean[65]	0.16	4.3e-4	0.03	0.11	0.14	0.16	0.18	0.21	3456	1.0
y_mean[66]	-0.21	7.4e-4	0.04	-0.29	-0.24	-0.21	-0.19	-0.13	2905	1.0
y_mean[67]	-0.49	7.1e-4	0.04	-0.57	-0.51	-0.49	-0.46	-0.41	3233	1.0
y_mean[68]	-0.18	4.4e-4	0.02	-0.23	-0.2	-0.18	-0.16	-0.13	3175	1.0
y_mean[69]	0.14	3.8e-4	0.02	0.09	0.12	0.14	0.15	0.18	3691	1.0
y_mean[70]	0.23	6.6e-4	0.04	0.16	0.2	0.23	0.25	0.3	2926	1.0
y_mean[71]	0.28	6.4e-4	0.04	0.21	0.25	0.28	0.3	0.35	3109	1.0
y_mean[72]	0.29	9.5e-4	0.06	0.18	0.26	0.29	0.33	0.41	3566	1.0
y_mean[73]	-0.73	5.7e-4	0.03	-0.79	-0.75	-0.73	-0.7	-0.66	3591	1.0
y_mean[74]	-0.53	3.9e-4	0.02	-0.57	-0.55	-0.53	-0.52	-0.49	3177	1.0
y_mean[75]	-0.25	8.2e-4	0.04	-0.33	-0.28	-0.25	-0.22	-0.17	2474	1.0
y_mean[76]	-0.18	4.4e-4	0.02	-0.23	-0.2	-0.18	-0.17	-0.13	3166	1.0
y_mean[77]	-0.25	5.8e-4	0.03	-0.32	-0.27	-0.25	-0.23	-0.18	3418	1.0
y_mean[78]	-0.39	3.3e-4	0.02	-0.43	-0.41	-0.39	-0.38	-0.35	3504	1.0
y_mean[79]	-0.76	5.9e-4	0.04	-0.83	-0.78	-0.76	-0.73	-0.69	3654	1.0
y_mean[80]	-0.19	5.9e-4	0.03	-0.26	-0.21	-0.19	-0.17	-0.13	3090	1.0
y_mean[81]	-0.12	4.2e-4	0.02	-0.17	-0.14	-0.13	-0.11	-0.08	3039	1.0
y_mean[82]	1.31	6.5e-4	0.04	1.23	1.29	1.31	1.34	1.4	4223	1.0

y_mean[83]	-0.34	6.8e-4	0.03	-0.4	-0.36	-0.34	-0.31	-0.27	2553	1.0
y_mean[84]	-0.76	5.8e-4	0.04	-0.83	-0.78	-0.76	-0.74	-0.69	3687	1.0
y_mean[85]	-0.36	3.6e-4	0.02	-0.4	-0.37	-0.36	-0.35	-0.32	3341	1.0
y_mean[86]	-0.39	3.5e-4	0.02	-0.43	-0.41	-0.39	-0.38	-0.35	3386	1.0
y_mean[87]	-0.33	4.3e-4	0.02	-0.37	-0.34	-0.33	-0.31	-0.28	3120	1.0
y_mean[88]	0.69	5.4e-4	0.04	0.62	0.66	0.69	0.71	0.76	4409	1.0
y_mean[89]	-0.46	5.5e-4	0.03	-0.51	-0.48	-0.46	-0.44	-0.4	2898	1.0
y_mean[90]	-0.16	4.2e-4	0.02	-0.2	-0.17	-0.16	-0.14	-0.11	3209	1.0
y_mean[91]	-0.1	7.1e-4	0.04	-0.17	-0.12	-0.1	-0.07	-0.02	2917	1.0
y_mean[92]	-0.44	4.7e-4	0.02	-0.49	-0.46	-0.44	-0.43	-0.39	2630	1.0
y_mean[93]	0.36	1.0e-3	0.06	0.25	0.32	0.36	0.4	0.48	3420	1.0
y_mean[94]	0.44	7.1e-4	0.04	0.36	0.41	0.44	0.47	0.52	3320	1.0
y_mean[95]	0.02	4.6e-4	0.03	-0.04	-1.9e-3	0.02	0.03	0.07	3588	1.0
y_mean[96]	-0.05	3.7e-4	0.02	-0.09	-0.06	-0.05	-0.03	-4.1e-3	3448	1.0
y_mean[97]	-0.56	4.0e-4	0.02	-0.6	-0.57	-0.56	-0.54	-0.51	3243	1.0
y_mean[98]	-0.79	6.7e-4	0.04	-0.87	-0.81	-0.79	-0.76	-0.71	3721	1.0
y_mean[99]	0.78	1.1e-3	0.07	0.64	0.74	0.78	0.83	0.93	4514	1.0
y_mean[100]	0.43	5.3e-4	0.03	0.36	0.4	0.43	0.45	0.49	3671	1.0
y_mean[101]	-0.43	4.8e-4	0.03	-0.48	-0.45	-0.43	-0.41	-0.37	3198	1.0
y_mean[102]	-0.18	4.3e-4	0.02	-0.23	-0.2	-0.18	-0.16	-0.13	3285	1.0
y_mean[103]	-0.79	6.6e-4	0.04	-0.87	-0.82	-0.79	-0.76	-0.71	3619	1.0
y_mean[104]	-0.61	5.3e-4	0.03	-0.67	-0.63	-0.6	-0.58	-0.54	3521	1.0
y_mean[105]	0.67	5.2e-4	0.03	0.61	0.65	0.68	0.7	0.74	4057	1.0
y_mean[106]	-0.21	8.6e-4	0.04	-0.29	-0.24	-0.21	-0.18	-0.12	2535	1.0
y_mean[107]	-0.05	5.7e-4	0.04	-0.12	-0.08	-0.05	-0.03	0.02	4037	1.0
y_mean[108]	1.47	1.2e-3	0.07	1.34	1.43	1.47	1.52	1.6	3219	1.0
y_mean[109]	0.17	6.1e-4	0.03	0.11	0.15	0.17	0.19	0.24	2876	1.0
y_mean[110]	2.17	1.1e-3	0.07	2.02	2.12	2.17	2.22	2.31	4831	1.0
y_mean[111]	2.28	1.2e-3	0.07	2.13	2.23	2.28	2.33	2.43	4019	1.0
y_mean[112]	0.29	5.2e-4	0.03	0.24	0.27	0.29	0.31	0.35	3359	1.0
y_mean[113]	-0.75	5.7e-4	0.04	-0.82	-0.78	-0.75	-0.73	-0.69	3805	1.0
y_mean[114]	-0.14	4.9e-4	0.03	-0.19	-0.15	-0.14	-0.12	-0.08	2888	1.0
y_mean[115]	-0.45	5.5e-4	0.03	-0.51	-0.47	-0.45	-0.43	-0.39	2868	1.0
y_mean[116]	-0.13	5.8e-4	0.03	-0.19	-0.15	-0.13	-0.1	-0.06	3205	1.0
y_mean[117]	-0.19	5.4e-4	0.03	-0.25	-0.21	-0.19	-0.17	-0.13	3023	1.0
y_mean[118]	0.77	7.1e-4	0.04	0.68	0.74	0.77	0.8	0.85	3600	1.0
y_mean[119]	0.16	6.3e-4	0.04	0.09	0.13	0.16	0.19	0.24	3630	1.0
y_mean[120]	-0.18	5.9e-4	0.03	-0.24	-0.2	-0.18	-0.15	-0.11	3524	1.0
y_mean[121]	-0.16	5.1e-4	0.03	-0.23	-0.19	-0.16	-0.14	-0.1	3659	1.0
y_mean[122]	-0.66	7.4e-4	0.04	-0.74	-0.69	-0.66	-0.63	-0.57	3467	1.0
y_mean[123]	-0.57	4.2e-4	0.02	-0.62	-0.59	-0.57	-0.55	-0.52	3374	1.0
y_mean[124]	-0.6	5.3e-4	0.03	-0.66	-0.62	-0.6	-0.58	-0.54	3523	1.0
y_mean[125]	-0.05	4.2e-4	0.02	-0.09	-0.06	-0.05	-0.03	2.6e-3	3327	1.0
y_mean[126]	0.23	4.9e-4	0.03	0.17	0.21	0.23	0.25	0.28	3384	1.0
y_mean[127]	-0.47	4.3e-4	0.02	-0.51	-0.48	-0.47	-0.45	-0.42	3066	1.0
y_mean[128]	0.44	5.0e-4	0.03	0.38	0.42	0.44	0.46	0.5	3703	1.0
y_mean[129]	-0.42	4.9e-4	0.03	-0.47	-0.44	-0.42	-0.4	-0.37	2802	1.0
y_mean[130]	-0.25	8.0e-4	0.04	-0.33	-0.27	-0.25	-0.22	-0.17	2535	1.0

y_mean[131]	1.45	1.7e-3	0.1	1.25	1.38	1.45	1.52	1.65	3471	1.0
y_mean[132]	-0.46	4.7e-4	0.03	-0.51	-0.48	-0.46	-0.44	-0.41	3171	1.0
y_mean[133]	-0.04	6.9e-4	0.04	-0.12	-0.07	-0.04	-0.01	0.04	3173	1.0
y_mean[134]	1.71	8.0e-4	0.05	1.61	1.68	1.71	1.75	1.81	3965	1.0
y_mean[135]	-0.48	4.3e-4	0.02	-0.52	-0.49	-0.48	-0.46	-0.43	3191	1.0
y_mean[136]	-0.25	5.4e-4	0.03	-0.31	-0.27	-0.25	-0.23	-0.19	3356	1.0
y_mean[137]	-0.01	4.5e-4	0.03	-0.07	-0.03	-0.01	2.8e-3	0.04	3372	1.0
y_mean[138]	1.61	1.0e-3	0.06	1.49	1.57	1.61	1.65	1.73	3757	1.0
y_mean[139]	0.51	4.4e-4	0.03	0.45	0.49	0.51	0.53	0.57	4149	1.0
y_mean[140]	-0.8	7.2e-4	0.04	-0.89	-0.83	-0.8	-0.77	-0.72	3642	1.0
y_mean[141]	0.43	5.3e-4	0.03	0.37	0.41	0.43	0.45	0.5	3699	1.0
y_mean[142]	-0.33	6.3e-4	0.04	-0.4	-0.35	-0.33	-0.3	-0.25	3736	1.0
y_mean[143]	-0.55	3.9e-4	0.02	-0.59	-0.56	-0.55	-0.53	-0.51	3262	1.0
y_mean[144]	-0.09	4.6e-4	0.02	-0.14	-0.1	-0.09	-0.07	-0.04	2891	1.0
y_mean[145]	-0.56	4.3e-4	0.03	-0.61	-0.58	-0.56	-0.55	-0.52	3445	1.0
y_mean[146]	-0.64	7.2e-4	0.04	-0.72	-0.67	-0.64	-0.61	-0.55	3630	1.0
y_mean[147]	-5.0e-3	4.4e-4	0.03	-0.06	-0.02	-5.3e-3	0.01	0.05	3695	1.0
y_mean[148]	-0.23	5.1e-4	0.03	-0.29	-0.25	-0.23	-0.21	-0.17	3270	1.0
y_mean[149]	-0.43	5.2e-4	0.03	-0.49	-0.45	-0.43	-0.41	-0.37	3698	1.0
y_mean[150]	-0.07	4.2e-4	0.02	-0.12	-0.09	-0.07	-0.06	-0.03	3150	1.0
y_mean[151]	-0.54	5.5e-4	0.03	-0.6	-0.56	-0.54	-0.52	-0.48	3392	1.0
y_mean[152]	-0.57	4.6e-4	0.03	-0.62	-0.59	-0.57	-0.55	-0.52	3388	1.0
y_mean[153]	-0.07	4.2e-4	0.02	-0.12	-0.09	-0.07	-0.05	-0.02	3122	1.0
y_mean[154]	-0.08	4.2e-4	0.02	-0.12	-0.1	-0.08	-0.06	-0.03	3500	1.0
y_mean[155]	-0.48	4.4e-4	0.03	-0.53	-0.5	-0.48	-0.47	-0.43	3314	1.0
y_mean[156]	-0.58	4.8e-4	0.03	-0.64	-0.6	-0.58	-0.56	-0.53	3453	1.0
y_mean[157]	-0.49	4.0e-4	0.02	-0.54	-0.51	-0.49	-0.48	-0.45	2972	1.0
y_mean[158]	0.77	6.2e-4	0.04	0.7	0.74	0.77	0.79	0.84	3457	1.0
y_mean[159]	-0.07	6.0e-4	0.03	-0.14	-0.1	-0.07	-0.05	-8.2e-3	3243	1.0
y_mean[160]	-0.53	3.8e-4	0.02	-0.57	-0.54	-0.53	-0.52	-0.49	2986	1.0
y_mean[161]	-0.53	4.4e-4	0.02	-0.58	-0.55	-0.53	-0.52	-0.48	3096	1.0
y_mean[162]	-0.32	6.2e-4	0.04	-0.39	-0.34	-0.32	-0.3	-0.25	3286	1.0
y_mean[163]	-0.47	4.4e-4	0.03	-0.52	-0.49	-0.47	-0.46	-0.42	3253	1.0
y_mean[164]	1.36	6.2e-4	0.04	1.27	1.33	1.36	1.38	1.44	4514	1.0
y_mean[165]	0.01	4.5e-4	0.03	-0.04	-4.7e-3	0.01	0.03	0.07	3584	1.0
y_mean[166]	-0.13	4.7e-4	0.02	-0.17	-0.14	-0.13	-0.11	-0.08	2841	1.0
y_mean[167]	-0.04	4.6e-4	0.03	-0.1	-0.07	-0.05	-0.02	0.01	4218	1.0
y_mean[168]	-0.56	1.4e-3	0.08	-0.72	-0.62	-0.56	-0.5	-0.4	3411	1.0
y_mean[169]	-0.49	4.1e-4	0.02	-0.53	-0.5	-0.49	-0.47	-0.45	2632	1.0
y_mean[170]	-0.47	4.2e-4	0.02	-0.51	-0.48	-0.47	-0.45	-0.42	2939	1.0
y_mean[171]	-0.82	7.8e-4	0.05	-0.91	-0.85	-0.82	-0.79	-0.73	3512	1.0
y_mean[172]	1.36	6.3e-4	0.05	1.27	1.33	1.36	1.39	1.46	5471	1.0
y_mean[173]	-0.19	7.8e-4	0.05	-0.28	-0.22	-0.18	-0.15	-0.09	3829	1.0
y_mean[174]	-0.66	6.1e-4	0.04	-0.73	-0.68	-0.65	-0.63	-0.58	3463	1.0
y_mean[175]	-0.05	5.3e-4	0.03	-0.11	-0.07	-0.05	-0.03	0.02	3801	1.0
y_mean[176]	-0.58	4.4e-4	0.03	-0.63	-0.6	-0.58	-0.56	-0.53	3435	1.0
y_mean[177]	-0.52	3.8e-4	0.02	-0.56	-0.54	-0.52	-0.51	-0.48	2973	1.0
y_mean[178]	-0.28	4.3e-4	0.02	-0.33	-0.3	-0.28	-0.27	-0.24	3176	1.0

y_mean[179]	-0.44	5.0e-4	0.03	-0.49	-0.46	-0.44	-0.42	-0.38	2974	1.0
y_mean[180]	-0.35	6.4e-4	0.04	-0.42	-0.37	-0.35	-0.32	-0.27	3966	1.0
y_mean[181]	-0.27	5.8e-4	0.03	-0.33	-0.29	-0.27	-0.24	-0.2	3441	1.0
y_mean[182]	-0.65	7.3e-4	0.04	-0.73	-0.68	-0.65	-0.62	-0.56	3540	1.0
y_mean[183]	0.02	4.8e-4	0.03	-0.04	-2.0e-3	0.02	0.04	0.08	3848	1.0
y_mean[184]	0.04	4.8e-4	0.03	-0.01	0.02	0.04	0.06	0.1	3716	1.0
y_mean[185]	-0.32	3.8e-4	0.02	-0.37	-0.34	-0.32	-0.31	-0.28	3574	1.0
y_mean[186]	0.28	5.8e-4	0.04	0.21	0.26	0.28	0.3	0.35	3761	1.0
y_mean[187]	-0.71	5.6e-4	0.03	-0.78	-0.73	-0.71	-0.69	-0.65	3538	1.0
y_mean[188]	-0.05	6.3e-4	0.04	-0.12	-0.07	-0.05	-0.02	0.02	3159	1.0
y_mean[189]	-0.21	6.0e-4	0.04	-0.28	-0.24	-0.21	-0.19	-0.14	3508	1.0
y_mean[190]	-0.56	4.5e-4	0.03	-0.61	-0.58	-0.56	-0.54	-0.51	3487	1.0
y_mean[191]	-0.33	9.7e-4	0.06	-0.45	-0.37	-0.33	-0.29	-0.21	3936	1.0
y_mean[192]	0.77	6.3e-4	0.05	0.68	0.74	0.77	0.81	0.87	5914	1.0
y_mean[193]	-0.57	4.3e-4	0.02	-0.62	-0.59	-0.57	-0.56	-0.53	3380	1.0
y_mean[194]	-0.32	4.1e-4	0.02	-0.37	-0.34	-0.32	-0.31	-0.28	3379	1.0
y_mean[195]	0.11	4.1e-4	0.02	0.07	0.09	0.11	0.13	0.16	3439	1.0
y_mean[196]	2.14	1.1e-3	0.08	1.99	2.09	2.14	2.19	2.29	5055	1.0
y_mean[197]	0.59	4.5e-4	0.03	0.53	0.57	0.59	0.61	0.65	4615	1.0
y_mean[198]	-0.48	4.7e-4	0.03	-0.53	-0.5	-0.48	-0.46	-0.43	2821	1.0
y_mean[199]	-0.07	5.0e-4	0.03	-0.13	-0.09	-0.07	-0.04	-3.1e-3	4181	1.0
y_mean[200]	0.1	5.5e-4	0.03	0.04	0.08	0.1	0.13	0.17	3808	1.0
y_mean[201]	-0.49	5.0e-4	0.03	-0.54	-0.5	-0.49	-0.47	-0.43	2901	1.0
y_mean[202]	-0.44	4.4e-4	0.02	-0.48	-0.45	-0.44	-0.42	-0.39	3113	1.0
y_mean[203]	0.12	5.9e-4	0.04	0.05	0.09	0.12	0.15	0.19	4161	1.0
y_mean[204]	-0.21	6.1e-4	0.03	-0.27	-0.23	-0.21	-0.19	-0.15	2883	1.0
y_mean[205]	-0.33	3.3e-4	0.02	-0.37	-0.35	-0.33	-0.32	-0.29	3679	1.0
y_mean[206]	0.19	9.1e-4	0.07	0.06	0.15	0.19	0.24	0.32	5562	1.0
y_mean[207]	-0.44	3.2e-4	0.02	-0.48	-0.45	-0.44	-0.43	-0.4	3605	1.0
y_mean[208]	-0.28	2.3e-3	0.14	-0.54	-0.37	-0.28	-0.19	-7.9e-3	3536	1.0
y_mean[209]	0.56	4.4e-4	0.03	0.5	0.54	0.56	0.58	0.62	4573	1.0
y_mean[210]	0.32	7.4e-4	0.05	0.24	0.29	0.32	0.35	0.41	3743	1.0
y_mean[211]	-0.57	6.4e-4	0.04	-0.64	-0.59	-0.57	-0.54	-0.49	3533	1.0
y_mean[212]	0.35	6.8e-4	0.04	0.28	0.33	0.36	0.38	0.43	3440	1.0
y_mean[213]	-0.01	7.0e-4	0.04	-0.09	-0.04	-0.01	0.01	0.07	3288	1.0
y_mean[214]	0.66	5.0e-4	0.03	0.59	0.64	0.66	0.68	0.72	4090	1.0
y_mean[215]	-0.56	4.0e-4	0.02	-0.6	-0.57	-0.56	-0.54	-0.51	3272	1.0
y_mean[216]	-0.05	4.3e-4	0.02	-0.1	-0.07	-0.05	-0.03	-1.4e-3	3238	1.0
y_mean[217]	-0.3	7.1e-4	0.04	-0.37	-0.33	-0.3	-0.28	-0.23	2572	1.0
y_mean[218]	-0.71	1.0e-3	0.06	-0.83	-0.75	-0.71	-0.66	-0.58	3764	1.0
y_mean[219]	0.92	5.5e-4	0.03	0.85	0.9	0.92	0.94	0.98	3699	1.0
y_mean[220]	0.05	5.2e-4	0.03	-0.01	0.03	0.05	0.08	0.12	4222	1.0
y_mean[221]	-0.24	6.6e-4	0.04	-0.32	-0.27	-0.24	-0.22	-0.17	3568	1.0
y_mean[222]	0.04	4.8e-4	0.03	-0.01	0.02	0.04	0.06	0.1	3748	1.0
y_mean[223]	-0.51	4.3e-4	0.02	-0.56	-0.52	-0.51	-0.49	-0.46	3339	1.0
y_mean[224]	-0.22	8.3e-4	0.04	-0.3	-0.24	-0.21	-0.19	-0.13	2547	1.0
y_mean[225]	-0.15	5.0e-4	0.03	-0.21	-0.17	-0.15	-0.13	-0.09	3791	1.0
y_mean[226]	-0.52	4.1e-4	0.02	-0.57	-0.54	-0.52	-0.51	-0.48	2992	1.0

	mean	se_mean	sd	2.5%	25%	50%	75%	97.5%	n_eff	Rhat
y_mean[227]	-0.4	5.4e-4	0.03	-0.46	-0.42	-0.4	-0.38	-0.34	2782	1.0
y_mean[228]	-0.39	7.0e-4	0.04	-0.46	-0.42	-0.39	-0.37	-0.32	2658	1.0
y_mean[229]	-0.48	4.5e-4	0.03	-0.53	-0.49	-0.48	-0.46	-0.42	3384	1.0
y_mean[230]	0.57	4.3e-4	0.03	0.51	0.55	0.57	0.59	0.63	4221	1.0
y_mean[231]	-0.61	5.3e-4	0.03	-0.67	-0.63	-0.61	-0.59	-0.55	3504	1.0
y_mean[232]	-0.56	4.0e-4	0.02	-0.6	-0.57	-0.56	-0.54	-0.51	3355	1.0
y_mean[233]	0.55	6.1e-4	0.04	0.48	0.53	0.56	0.58	0.63	3681	1.0
y_mean[234]	0.72	6.2e-4	0.04	0.65	0.69	0.72	0.74	0.79	3741	1.0
y_mean[235]	-0.15	3.9e-4	0.02	-0.2	-0.17	-0.15	-0.13	-0.1	3671	1.0
y_mean[236]	-0.15	4.2e-4	0.02	-0.2	-0.17	-0.15	-0.14	-0.11	3109	1.0
y_mean[237]	-0.61	6.4e-4	0.04	-0.68	-0.64	-0.61	-0.59	-0.54	3519	1.0
y_mean[238]	1.46	1.0e-3	0.07	1.32	1.41	1.46	1.51	1.61	5285	1.0
y_mean[239]	4.4e-3	3.3e-4	0.02	-0.03	-9.0e-3	4.1e-3	0.02	0.04	3621	1.0
y_mean[240]	-0.53	4.3e-4	0.03	-0.58	-0.54	-0.53	-0.51	-0.47	3823	1.0
y_mean[241]	-0.35	5.7e-4	0.03	-0.41	-0.37	-0.35	-0.33	-0.28	3348	1.0
y_mean[242]	-0.09	4.0e-4	0.02	-0.14	-0.11	-0.09	-0.07	-0.04	3637	1.0
y_mean[243]	-0.07	4.7e-4	0.03	-0.12	-0.08	-0.07	-0.05	-0.01	3025	1.0
y_mean[244]	-0.38	5.3e-4	0.03	-0.43	-0.4	-0.38	-0.36	-0.32	2783	1.0
y_mean[245]	-0.35	5.9e-4	0.03	-0.42	-0.38	-0.35	-0.33	-0.29	3075	1.0
y_mean[246]	-0.47	5.0e-4	0.03	-0.53	-0.49	-0.47	-0.46	-0.42	2847	1.0
y_mean[247]	-0.5	4.3e-4	0.02	-0.54	-0.51	-0.5	-0.48	-0.45	2851	1.0
y_mean[248]	0.05	4.8e-4	0.03	-0.01	0.03	0.05	0.07	0.1	3775	1.0
y_mean[249]	-0.53	5.7e-4	0.03	-0.59	-0.55	-0.53	-0.51	-0.46	3347	1.0
y_mean[250]	0.61	5.0e-4	0.03	0.54	0.59	0.61	0.63	0.68	4625	1.0
y_mean[251]	-0.24	5.2e-4	0.03	-0.3	-0.26	-0.24	-0.22	-0.18	3352	1.0
y_mean[252]	0.58	7.0e-4	0.04	0.5	0.55	0.58	0.61	0.66	3698	1.0
y_mean[253]	-0.49	4.3e-4	0.02	-0.54	-0.51	-0.49	-0.48	-0.45	2783	1.0
y_mean[254]	-0.02	6.4e-4	0.03	-0.09	-0.04	-0.02	1.7e-3	0.05	2837	1.0
y_mean[255]	-0.15	7.1e-4	0.04	-0.23	-0.18	-0.15	-0.12	-0.07	3137	1.0
y_mean[256]	1.41	7.0e-4	0.04	1.32	1.38	1.41	1.44	1.5	4016	1.0
y_mean[257]	-0.1	4.7e-4	0.03	-0.15	-0.12	-0.1	-0.08	-0.05	2845	1.0
y_mean[258]	-0.06	3.6e-4	0.02	-0.11	-0.08	-0.06	-0.05	-0.02	3960	1.0
y_mean[259]	-0.23	5.6e-4	0.03	-0.3	-0.26	-0.23	-0.21	-0.17	3537	1.0
y_mean[260]	0.6	4.2e-4	0.03	0.54	0.58	0.6	0.61	0.65	4064	1.0
y_mean[261]	-0.56	6.0e-4	0.04	-0.63	-0.58	-0.56	-0.54	-0.49	3556	1.0
y_mean[262]	-0.2	4.5e-4	0.03	-0.25	-0.21	-0.2	-0.18	-0.14	3304	1.0
y_mean[263]	0.11	3.6e-4	0.02	0.07	0.1	0.11	0.13	0.16	3762	1.0
y_mean[264]	-0.47	4.5e-4	0.03	-0.52	-0.48	-0.47	-0.45	-0.42	3287	1.0
y_mean[265]	-0.1	3.0e-3	0.18	-0.45	-0.23	-0.1	0.02	0.26	3740	1.0
y_mean[266]	-0.43	6.3e-4	0.03	-0.49	-0.45	-0.43	-0.4	-0.36	2737	1.0
y_mean[267]	-0.35	7.5e-4	0.04	-0.43	-0.38	-0.35	-0.32	-0.27	3161	1.0
y_mean[268]	-0.29	6.8e-4	0.04	-0.36	-0.31	-0.29	-0.26	-0.22	3004	1.0
y_mean[269]	0.03	4.6e-4	0.03	-0.03	9.8e-3	0.03	0.05	0.09	3782	1.0
y_mean[270]	-0.02	5.2e-4	0.03	-0.08	-0.04	-0.02	3.3e-3	0.05	4137	1.0
y_mean[271]	-0.49	3.8e-4	0.02	-0.53	-0.5	-0.49	-0.47	-0.44	3604	1.0
y_mean[272]	-0.4	5.3e-4	0.03	-0.46	-0.42	-0.4	-0.38	-0.34	2818	1.0
y_mean[273]	-0.59	4.7e-4	0.03	-0.64	-0.61	-0.59	-0.57	-0.54	3455	1.0
y_mean[274]	-0.73	7.4e-4	0.04	-0.81	-0.76	-0.73	-0.7	-0.64	3635	1.0

y_mean[275]	-0.12	7.8e-4	0.04	-0.2	-0.15	-0.12	-0.09	-0.04	2900	1.0
y_mean[276]	0.76	6.1e-4	0.04	0.69	0.74	0.76	0.79	0.83	3503	1.0
y_mean[277]	-0.53	3.8e-4	0.02	-0.57	-0.54	-0.53	-0.51	-0.49	3133	1.0
y_mean[278]	-0.45	4.4e-4	0.02	-0.49	-0.46	-0.45	-0.43	-0.4	2955	1.0
y_mean[279]	1.28	6.2e-4	0.04	1.19	1.25	1.28	1.31	1.37	5141	1.0
y_mean[280]	0.42	5.2e-4	0.03	0.35	0.39	0.42	0.44	0.48	3946	1.0
y_mean[281]	-0.5	3.9e-4	0.02	-0.55	-0.52	-0.5	-0.49	-0.46	3004	1.0
y_mean[282]	-0.17	8.6e-4	0.04	-0.26	-0.2	-0.17	-0.14	-0.08	2721	1.0
y_mean[283]	-0.71	6.3e-4	0.04	-0.79	-0.74	-0.71	-0.68	-0.63	3843	1.0
y_mean[284]	-0.54	4.9e-4	0.03	-0.6	-0.56	-0.54	-0.52	-0.48	3642	1.0
y_mean[285]	-0.49	5.0e-4	0.03	-0.55	-0.51	-0.49	-0.47	-0.43	3224	1.0
y_mean[286]	-0.09	6.6e-4	0.04	-0.16	-0.11	-0.09	-0.06	-8.9e-3	3593	1.0
y_mean[287]	2.48	1.3e-3	0.08	2.31	2.42	2.47	2.53	2.63	3723	1.0
y_mean[288]	-0.61	6.8e-4	0.04	-0.69	-0.63	-0.61	-0.58	-0.53	3475	1.0
y_mean[289]	2.31	1.7e-3	0.12	2.08	2.24	2.32	2.39	2.54	4720	1.0
y_mean[290]	-0.71	1.0e-3	0.06	-0.83	-0.75	-0.71	-0.66	-0.58	3856	1.0
y_mean[291]	-0.44	5.1e-4	0.03	-0.49	-0.46	-0.44	-0.42	-0.39	2674	1.0
y_mean[292]	-0.51	3.8e-4	0.02	-0.55	-0.52	-0.51	-0.49	-0.47	2916	1.0
y_mean[293]	-0.28	7.7e-4	0.05	-0.37	-0.31	-0.28	-0.25	-0.2	3451	1.0
y_mean[294]	-0.45	5.4e-4	0.03	-0.51	-0.47	-0.45	-0.43	-0.4	2869	1.0
y_mean[295]	-0.21	6.0e-4	0.03	-0.28	-0.23	-0.21	-0.19	-0.15	3190	1.0
y_mean[296]	1.25	9.1e-4	0.07	1.11	1.2	1.25	1.3	1.39	6197	1.0
y_mean[297]	-0.73	5.3e-4	0.03	-0.79	-0.75	-0.73	-0.71	-0.67	3751	1.0
y_mean[298]	0.16	1.3e-3	0.08	4.5e-3	0.1	0.15	0.21	0.31	3736	1.0
y_mean[299]	-0.1	4.2e-4	0.02	-0.15	-0.12	-0.1	-0.09	-0.06	2967	1.0
y_mean[300]	-0.22	5.1e-4	0.03	-0.28	-0.24	-0.22	-0.2	-0.16	3564	1.0
y_mean[301]	-0.54	8.8e-4	0.05	-0.64	-0.57	-0.54	-0.51	-0.44	3439	1.0
y_mean[302]	1.68	7.0e-4	0.05	1.58	1.65	1.68	1.72	1.79	5776	1.0
y_mean[303]	0.44	6.1e-4	0.04	0.36	0.41	0.44	0.47	0.52	4213	1.0
y_mean[304]	-0.41	4.9e-4	0.03	-0.47	-0.43	-0.41	-0.4	-0.36	3021	1.0
y_mean[305]	0.4	7.9e-4	0.04	0.31	0.37	0.4	0.42	0.48	2884	1.0
y_mean[306]	-0.67	6.6e-4	0.04	-0.75	-0.7	-0.67	-0.65	-0.6	3526	1.0
y_mean[307]	-0.05	4.2e-4	0.02	-0.09	-0.06	-0.04	-0.03	4.1e-3	3398	1.0
y_mean[308]	-6.1e-3	4.8e-4	0.03	-0.06	-0.03	-6.2e-3	0.02	0.05	4291	1.0
y_mean[309]	-0.35	9.8e-4	0.05	-0.44	-0.38	-0.35	-0.32	-0.26	2409	1.0
y_mean[310]	-0.51	4.8e-4	0.03	-0.56	-0.53	-0.51	-0.49	-0.46	3040	1.0
y_mean[311]	-0.46	4.6e-4	0.02	-0.51	-0.48	-0.46	-0.45	-0.42	2640	1.0
y_mean[312]	-0.64	6.3e-4	0.04	-0.71	-0.66	-0.64	-0.61	-0.56	3516	1.0
y_mean[313]	0.24	1.1e-3	0.07	0.1	0.2	0.24	0.29	0.39	4391	1.0
y_mean[314]	-0.14	4.2e-4	0.02	-0.18	-0.15	-0.14	-0.12	-0.09	3087	1.0
y_mean[315]	1.36	1.6e-3	0.12	1.12	1.28	1.36	1.44	1.59	5217	1.0
y_mean[316]	-0.13	4.2e-4	0.02	-0.18	-0.15	-0.13	-0.12	-0.09	3480	1.0
y_mean[317]	-0.47	3.4e-4	0.02	-0.51	-0.48	-0.47	-0.45	-0.43	3681	1.0
y_mean[318]	0.95	8.4e-4	0.06	0.84	0.91	0.95	0.99	1.06	4419	1.0
y_mean[319]	-0.47	5.5e-4	0.03	-0.53	-0.49	-0.47	-0.45	-0.41	3185	1.0
y_mean[320]	-7.5e-3	4.4e-4	0.03	-0.06	-0.03	-7.7e-3	0.01	0.04	3449	1.0
y_mean[321]	-0.69	9.0e-4	0.06	-0.8	-0.73	-0.69	-0.66	-0.59	3827	1.0
y_mean[322]	-0.28	8.0e-4	0.05	-0.37	-0.31	-0.28	-0.25	-0.19	3208	1.0

y_mean[323]	-0.49	5.0e-4	0.03	-0.54	-0.51	-0.49	-0.47	-0.44	2933	1.0
y_mean[324]	0.56	4.3e-4	0.03	0.5	0.54	0.56	0.58	0.61	4280	1.0
y_mean[325]	0.02	9.5e-4	0.05	-0.08	-0.02	0.02	0.05	0.12	3013	1.0
y_mean[326]	-0.4	3.5e-4	0.02	-0.44	-0.42	-0.4	-0.39	-0.36	3405	1.0
y_mean[327]	-0.15	4.8e-4	0.03	-0.2	-0.17	-0.15	-0.13	-0.1	2907	1.0
y_mean[328]	-0.57	6.6e-4	0.04	-0.65	-0.6	-0.57	-0.54	-0.49	3520	1.0
y_mean[329]	-0.4	5.5e-4	0.03	-0.45	-0.42	-0.4	-0.38	-0.34	2847	1.0
y_mean[330]	-0.11	4.4e-4	0.02	-0.15	-0.13	-0.11	-0.09	-0.06	2895	1.0
y_mean[331]	-0.5	3.9e-4	0.02	-0.54	-0.51	-0.5	-0.49	-0.46	2768	1.0
y_mean[332]	-0.77	6.3e-4	0.04	-0.84	-0.79	-0.76	-0.74	-0.69	3631	1.0
y_mean[333]	-0.58	4.3e-4	0.03	-0.62	-0.59	-0.58	-0.56	-0.53	3421	1.0
y_mean[334]	-0.36	5.6e-4	0.03	-0.42	-0.38	-0.36	-0.34	-0.3	3216	1.0
y_mean[335]	-0.47	6.5e-4	0.04	-0.54	-0.5	-0.47	-0.44	-0.4	3124	1.0
y_mean[336]	0.66	5.0e-4	0.03	0.59	0.64	0.66	0.68	0.73	4776	1.0
y_mean[337]	-0.47	4.2e-4	0.02	-0.51	-0.48	-0.47	-0.45	-0.42	2707	1.0
y_mean[338]	-0.08	5.2e-4	0.03	-0.13	-0.1	-0.08	-0.06	-0.02	3172	1.0
y_mean[339]	-0.7	5.3e-4	0.03	-0.76	-0.72	-0.7	-0.68	-0.63	3698	1.0
y_mean[340]	-0.31	5.7e-4	0.03	-0.36	-0.33	-0.31	-0.29	-0.25	2762	1.0
y_mean[341]	-0.53	3.8e-4	0.02	-0.57	-0.54	-0.53	-0.52	-0.49	3015	1.0
y_mean[342]	-0.31	4.9e-4	0.03	-0.36	-0.33	-0.31	-0.29	-0.26	2846	1.0
y_mean[343]	-0.48	1.1e-3	0.07	-0.61	-0.53	-0.48	-0.43	-0.35	3445	1.0
y_mean[344]	-0.54	4.4e-4	0.03	-0.59	-0.56	-0.54	-0.52	-0.49	3429	1.0
y_mean[345]	-0.25	4.9e-4	0.03	-0.31	-0.27	-0.25	-0.24	-0.2	2994	1.0
y_mean[346]	-0.78	6.3e-4	0.04	-0.85	-0.8	-0.78	-0.75	-0.7	3637	1.0
y_mean[347]	0.6	4.4e-4	0.03	0.54	0.58	0.6	0.62	0.66	4293	1.0
y_mean[348]	0.53	4.3e-4	0.03	0.48	0.52	0.53	0.55	0.59	4094	1.0
y_mean[349]	-0.43	4.6e-4	0.03	-0.48	-0.45	-0.43	-0.42	-0.38	2983	1.0
y_mean[350]	-0.63	6.2e-4	0.04	-0.7	-0.65	-0.63	-0.61	-0.56	3553	1.0
y_mean[351]	-0.48	3.3e-4	0.02	-0.52	-0.5	-0.48	-0.47	-0.44	3766	1.0
y_mean[352]	-0.32	6.1e-4	0.04	-0.39	-0.34	-0.32	-0.29	-0.25	3324	1.0
y_mean[353]	0.35	5.6e-4	0.03	0.29	0.33	0.35	0.38	0.42	3879	1.0
y_mean[354]	-0.14	5.2e-4	0.03	-0.19	-0.16	-0.14	-0.12	-0.08	2927	1.0
y_mean[355]	-0.57	7.0e-4	0.04	-0.65	-0.6	-0.57	-0.54	-0.49	3690	1.0
y_mean[356]	-0.13	5.3e-4	0.03	-0.18	-0.15	-0.13	-0.11	-0.07	2940	1.0
y_mean[357]	-0.73	5.5e-4	0.03	-0.8	-0.75	-0.73	-0.71	-0.66	3604	1.0
y_mean[358]	3.18	1.2e-3	0.07	3.04	3.13	3.18	3.23	3.33	4013	1.0
y_mean[359]	7.8e-3	6.6e-4	0.04	-0.06	-0.02	7.9e-3	0.03	0.08	2897	1.0
y_mean[360]	0.06	4.9e-4	0.03	-9.2e-4	0.04	0.06	0.08	0.12	3839	1.0
y_mean[361]	0.55	5.0e-4	0.04	0.48	0.52	0.55	0.57	0.62	5135	1.0
y_mean[362]	-0.03	5.1e-4	0.03	-0.09	-0.05	-0.03	-6.8e-3	0.03	3415	1.0
y_mean[363]	-0.54	3.9e-4	0.02	-0.58	-0.55	-0.54	-0.52	-0.49	3230	1.0
y_mean[364]	-0.58	4.4e-4	0.03	-0.63	-0.59	-0.58	-0.56	-0.53	3440	1.0
y_mean[365]	-0.37	6.7e-4	0.04	-0.45	-0.4	-0.37	-0.34	-0.29	3464	1.0
y_mean[366]	-0.33	3.7e-4	0.02	-0.37	-0.34	-0.33	-0.31	-0.28	3539	1.0
y_mean[367]	1.52	8.0e-4	0.05	1.41	1.48	1.51	1.55	1.62	4258	1.0
y_mean[368]	0.09	5.1e-4	0.03	0.03	0.07	0.09	0.11	0.15	3118	1.0
y_mean[369]	-0.11	5.1e-4	0.03	-0.16	-0.13	-0.11	-0.09	-0.06	2910	1.0
y_mean[370]	-0.43	4.6e-4	0.03	-0.48	-0.45	-0.43	-0.41	-0.38	3093	1.0

y_mean[371]	-0.72	5.7e-4	0.03	-0.79	-0.74	-0.72	-0.7	-0.66	3577	1.0
y_mean[372]	-0.75	5.6e-4	0.04	-0.81	-0.77	-0.75	-0.72	-0.68	3928	1.0
y_mean[373]	1.5	1.9e-3	0.12	1.26	1.42	1.5	1.59	1.74	4402	1.0
y_mean[374]	-0.42	5.9e-4	0.03	-0.48	-0.44	-0.42	-0.4	-0.36	2959	1.0
y_mean[375]	-0.55	8.4e-4	0.05	-0.64	-0.58	-0.55	-0.51	-0.45	3159	1.0
y_mean[376]	0.27	6.3e-4	0.04	0.19	0.24	0.27	0.29	0.34	3759	1.0
y_mean[377]	0.15	4.2e-4	0.03	0.1	0.13	0.15	0.17	0.2	4135	1.0
y_mean[378]	-0.16	4.4e-4	0.03	-0.21	-0.18	-0.16	-0.15	-0.11	3493	1.0
y_mean[379]	-0.06	4.2e-4	0.02	-0.1	-0.07	-0.06	-0.04	-8.7e-3	3240	1.0
y_mean[380]	-0.56	1.3e-3	0.08	-0.71	-0.61	-0.56	-0.51	-0.41	3418	1.0
y_mean[381]	-0.56	5.8e-4	0.03	-0.63	-0.58	-0.56	-0.54	-0.49	3534	1.0
y_mean[382]	-0.27	6.1e-4	0.04	-0.34	-0.3	-0.27	-0.25	-0.2	3385	1.0
y_mean[383]	-0.43	4.8e-4	0.02	-0.48	-0.45	-0.43	-0.42	-0.39	2684	1.0
y_mean[384]	-0.65	6.8e-4	0.04	-0.73	-0.68	-0.65	-0.62	-0.57	3525	1.0
y_mean[385]	-0.58	5.9e-4	0.03	-0.65	-0.6	-0.58	-0.55	-0.51	3536	1.0
y_mean[386]	-0.38	6.8e-4	0.04	-0.46	-0.41	-0.38	-0.36	-0.3	3671	1.0
y_mean[387]	-0.04	3.5e-4	0.02	-0.09	-0.06	-0.04	-0.03	-1.1e-3	3827	1.0
y_mean[388]	-0.49	9.5e-4	0.05	-0.59	-0.53	-0.49	-0.46	-0.39	2909	1.0
y_mean[389]	-0.4	8.3e-4	0.04	-0.48	-0.43	-0.4	-0.37	-0.31	2631	1.0
y_mean[390]	-0.05	4.5e-4	0.03	-0.1	-0.07	-0.05	-0.04	-1.9e-3	3081	1.0
y_mean[391]	-0.53	3.9e-4	0.02	-0.57	-0.54	-0.53	-0.51	-0.48	2997	1.0
y_mean[392]	1.62	1.0e-3	0.07	1.49	1.57	1.62	1.66	1.74	3971	1.0
y_mean[393]	0.67	5.3e-4	0.03	0.6	0.65	0.67	0.69	0.74	4403	1.0
y_mean[394]	0.02	8.2e-4	0.04	-0.06	-7.7e-3	0.02	0.05	0.11	2964	1.0
y_mean[395]	-0.14	5.0e-4	0.03	-0.2	-0.16	-0.14	-0.12	-0.09	3480	1.0
y_mean[396]	-0.46	4.0e-4	0.02	-0.5	-0.47	-0.46	-0.44	-0.41	3313	1.0
y_mean[397]	-0.49	6.3e-4	0.04	-0.56	-0.51	-0.49	-0.46	-0.42	3516	1.0
y_mean[398]	-0.18	4.3e-4	0.02	-0.23	-0.2	-0.18	-0.16	-0.13	3186	1.0
y_mean[399]	-0.12	9.1e-4	0.06	-0.23	-0.16	-0.12	-0.08	-0.01	3890	1.0
y_mean[400]	-0.49	4.7e-4	0.03	-0.55	-0.51	-0.49	-0.47	-0.44	3329	1.0
y_mean[401]	-0.37	3.1e-4	0.02	-0.4	-0.38	-0.37	-0.35	-0.33	3723	1.0
y_mean[402]	-0.48	3.0e-4	0.02	-0.52	-0.5	-0.48	-0.47	-0.45	3989	1.0
y_mean[403]	2.03	1.2e-3	0.08	1.87	1.98	2.03	2.09	2.2	4835	1.0
y_mean[404]	0.33	5.8e-4	0.04	0.26	0.3	0.33	0.35	0.4	3758	1.0
y_mean[405]	0.15	4.1e-4	0.02	0.1	0.13	0.15	0.16	0.19	3492	1.0
y_mean[406]	-0.62	7.3e-4	0.04	-0.7	-0.65	-0.62	-0.59	-0.54	3255	1.0
y_mean[407]	0.46	6.6e-4	0.04	0.39	0.43	0.46	0.49	0.54	3527	1.0
y_mean[408]	-9.9e-5	4.5e-4	0.03	-0.05	-0.02	-3.2e-4	0.02	0.05	3490	1.0
y_mean[409]	0.21	9.2e-4	0.05	0.11	0.18	0.21	0.25	0.32	3369	1.0
y_mean[410]	1.64	5.8e-4	0.04	1.56	1.61	1.64	1.67	1.72	5003	1.0
y_mean[411]	1.44	7.7e-4	0.05	1.34	1.4	1.44	1.47	1.54	4329	1.0
y_mean[412]	0.1	4.9e-4	0.03	0.04	0.08	0.1	0.12	0.16	4158	1.0
y_mean[413]	-0.51	3.9e-4	0.02	-0.55	-0.52	-0.51	-0.49	-0.46	3014	1.0
y_mean[414]	-0.39	6.1e-4	0.03	-0.46	-0.42	-0.39	-0.37	-0.34	2665	1.0
y_mean[415]	-0.34	4.4e-4	0.02	-0.38	-0.35	-0.34	-0.32	-0.29	3024	1.0
y_mean[416]	1.34	6.5e-4	0.04	1.26	1.31	1.34	1.37	1.43	4473	1.0
y_mean[417]	-0.26	8.0e-4	0.04	-0.33	-0.28	-0.26	-0.23	-0.18	2480	1.0
y_mean[418]	1.37	7.0e-4	0.05	1.27	1.34	1.37	1.4	1.47	5248	1.0

y_mean[419]	-0.46	6.1e-4	0.04	-0.54	-0.49	-0.46	-0.44	-0.39	3810	1.0
y_mean[420]	-0.52	3.8e-4	0.02	-0.56	-0.54	-0.52	-0.51	-0.48	3080	1.0
y_mean[421]	-0.58	9.4e-4	0.05	-0.69	-0.62	-0.58	-0.55	-0.48	3243	1.0
y_mean[422]	0.78	1.0e-3	0.06	0.67	0.74	0.78	0.82	0.9	3352	1.0
y_mean[423]	0.52	4.7e-4	0.03	0.46	0.5	0.52	0.54	0.59	4889	1.0
y_mean[424]	-0.13	4.9e-4	0.03	-0.18	-0.15	-0.13	-0.11	-0.08	2883	1.0
y_mean[425]	-0.66	8.3e-4	0.05	-0.76	-0.69	-0.66	-0.62	-0.56	3638	1.0
y_mean[426]	0.26	7.4e-4	0.04	0.17	0.23	0.26	0.29	0.35	3601	1.0
y_mean[427]	-0.56	4.1e-4	0.02	-0.61	-0.58	-0.56	-0.55	-0.51	3370	1.0
y_mean[428]	0.49	4.5e-4	0.03	0.44	0.48	0.49	0.51	0.55	3985	1.0
y_mean[429]	-0.81	7.9e-4	0.05	-0.91	-0.85	-0.81	-0.78	-0.72	3607	1.0
y_mean[430]	-0.51	5.8e-4	0.03	-0.57	-0.53	-0.51	-0.48	-0.44	3197	1.0
y_mean[431]	0.13	4.1e-4	0.03	0.08	0.11	0.13	0.14	0.18	3913	1.0
y_mean[432]	0.87	4.4e-4	0.03	0.81	0.85	0.87	0.89	0.93	4816	1.0
y_mean[433]	0.75	6.5e-4	0.04	0.67	0.72	0.75	0.78	0.83	3845	1.0
y_mean[434]	2.87	1.3e-3	0.09	2.7	2.81	2.87	2.93	3.04	4437	1.0
y_mean[435]	-0.04	4.3e-4	0.02	-0.09	-0.06	-0.04	-0.03	5.8e-3	3277	1.0
y_mean[436]	0.92	5.9e-4	0.04	0.85	0.9	0.92	0.95	1.0	3933	1.0
y_mean[437]	-0.47	5.1e-4	0.03	-0.53	-0.49	-0.47	-0.45	-0.4	3815	1.0
y_mean[438]	1.28	6.0e-4	0.04	1.2	1.26	1.28	1.31	1.37	4892	1.0
y_mean[439]	-0.56	5.4e-4	0.03	-0.62	-0.58	-0.56	-0.54	-0.49	3585	1.0
y_mean[440]	7.0e-3	4.5e-4	0.03	-0.05	-0.01	6.9e-3	0.02	0.06	3524	1.0
y_mean[441]	-0.56	4.0e-4	0.02	-0.6	-0.57	-0.56	-0.54	-0.51	3338	1.0
y_mean[442]	-0.45	9.9e-4	0.05	-0.54	-0.48	-0.45	-0.41	-0.35	2473	1.0
y_mean[443]	2.73	1.2e-3	0.08	2.59	2.68	2.73	2.79	2.88	4084	1.0
y_mean[444]	-0.12	7.2e-4	0.04	-0.19	-0.14	-0.12	-0.09	-0.04	2807	1.0
y_mean[445]	-0.69	5.6e-4	0.03	-0.76	-0.71	-0.69	-0.67	-0.62	3652	1.0
y_mean[446]	-0.71	7.4e-4	0.04	-0.8	-0.74	-0.71	-0.68	-0.62	3639	1.0
y_mean[447]	1.33	8.7e-4	0.06	1.21	1.28	1.33	1.37	1.44	4563	1.0
y_mean[448]	0.61	6.2e-4	0.04	0.53	0.58	0.61	0.64	0.69	4054	1.0
y_mean[449]	-0.76	6.4e-4	0.04	-0.83	-0.78	-0.76	-0.73	-0.68	3630	1.0
y_mean[450]	-0.42	4.9e-4	0.03	-0.47	-0.44	-0.42	-0.4	-0.37	2839	1.0
y_mean[451]	-0.68	8.1e-4	0.05	-0.77	-0.71	-0.68	-0.65	-0.58	3505	1.0
y_mean[452]	0.04	4.7e-4	0.03	-0.01	0.02	0.04	0.06	0.1	3719	1.0
y_mean[453]	0.36	6.8e-4	0.04	0.28	0.33	0.36	0.39	0.44	3775	1.0
y_mean[454]	0.5	4.6e-4	0.03	0.44	0.48	0.5	0.52	0.56	4343	1.0
y_mean[455]	-0.57	4.4e-4	0.03	-0.62	-0.59	-0.57	-0.55	-0.52	3353	1.0
y_mean[456]	-0.41	6.7e-4	0.04	-0.49	-0.44	-0.41	-0.39	-0.34	3211	1.0
y_mean[457]	0.81	8.2e-4	0.05	0.72	0.78	0.81	0.84	0.91	3539	1.0
y_mean[458]	1.99	2.8e-3	0.15	1.69	1.89	1.99	2.09	2.28	2844	1.0
y_mean[459]	-0.44	9.1e-4	0.05	-0.53	-0.47	-0.44	-0.41	-0.34	2809	1.0
y_mean[460]	-0.81	1.1e-3	0.07	-0.94	-0.85	-0.81	-0.76	-0.67	3827	1.0
y_mean[461]	0.36	8.0e-4	0.04	0.28	0.33	0.36	0.39	0.45	2816	1.0
y_mean[462]	-0.12	4.1e-4	0.02	-0.16	-0.13	-0.12	-0.1	-0.07	3269	1.0
y_mean[463]	-0.29	6.1e-4	0.03	-0.35	-0.31	-0.29	-0.27	-0.23	2688	1.0
y_mean[464]	-0.49	4.2e-4	0.02	-0.54	-0.51	-0.49	-0.48	-0.45	2748	1.0
y_mean[465]	-0.77	7.2e-4	0.04	-0.86	-0.8	-0.77	-0.74	-0.69	3645	1.0
y_mean[466]	-0.33	5.9e-4	0.03	-0.39	-0.35	-0.33	-0.31	-0.27	2669	1.0

y_mean[467]	0.55	4.3e-4	0.03	0.5	0.53	0.55	0.57	0.61	4190	1.0
y_mean[468]	0.26	1.3e-3	0.07	0.11	0.21	0.26	0.31	0.41	3366	1.0
y_mean[469]	6.02	4.5e-3	0.29	5.47	5.83	6.02	6.21	6.58	4022	1.0
y_mean[470]	-0.49	4.0e-4	0.02	-0.53	-0.5	-0.49	-0.47	-0.44	2955	1.0
y_mean[471]	0.7	6.9e-4	0.04	0.61	0.67	0.7	0.73	0.78	3843	1.0
y_mean[472]	-0.51	4.2e-4	0.02	-0.56	-0.53	-0.51	-0.5	-0.47	3293	1.0
y_mean[473]	-0.59	4.6e-4	0.03	-0.64	-0.61	-0.59	-0.57	-0.53	3478	1.0
y_mean[474]	-0.63	6.0e-4	0.04	-0.7	-0.66	-0.63	-0.61	-0.56	3516	1.0
y_mean[475]	0.5	4.4e-4	0.03	0.45	0.49	0.5	0.52	0.56	4001	1.0
y_mean[476]	1.93	1.2e-3	0.08	1.77	1.88	1.93	1.99	2.09	4512	1.0
y_mean[477]	-0.73	5.4e-4	0.03	-0.8	-0.75	-0.73	-0.71	-0.67	3644	1.0
y_mean[478]	-0.76	6.9e-4	0.04	-0.84	-0.79	-0.76	-0.73	-0.68	3635	1.0
y_mean[479]	0.08	5.2e-4	0.03	0.02	0.06	0.08	0.1	0.14	3661	1.0
y_mean[480]	-0.48	3.9e-4	0.02	-0.53	-0.5	-0.48	-0.47	-0.44	3761	1.0
y_mean[481]	0.02	4.7e-4	0.03	-0.03	5.9e-3	0.02	0.04	0.08	3648	1.0
y_mean[482]	-0.62	5.8e-4	0.03	-0.69	-0.65	-0.62	-0.6	-0.55	3514	1.0
y_mean[483]	0.02	4.7e-4	0.03	-0.04	2.0e-3	0.02	0.04	0.08	3667	1.0
y_mean[484]	-0.28	4.6e-4	0.03	-0.33	-0.3	-0.28	-0.26	-0.23	3037	1.0
y_mean[485]	1.47	1.0e-3	0.07	1.33	1.42	1.47	1.51	1.6	4615	1.0
y_mean[486]	-0.71	6.6e-4	0.04	-0.79	-0.74	-0.71	-0.68	-0.63	3869	1.0
y_mean[487]	-0.17	4.4e-4	0.03	-0.22	-0.19	-0.17	-0.15	-0.12	3412	1.0
y_mean[488]	-0.09	4.1e-4	0.02	-0.13	-0.11	-0.09	-0.07	-0.04	3180	1.0
y_mean[489]	1.13	1.1e-3	0.06	1.01	1.09	1.13	1.17	1.25	3010	1.0
y_mean[490]	-0.62	5.6e-4	0.03	-0.68	-0.64	-0.62	-0.59	-0.55	3531	1.0
y_mean[491]	-0.53	4.8e-4	0.03	-0.59	-0.55	-0.53	-0.52	-0.48	3211	1.0
y_mean[492]	-0.34	3.8e-4	0.02	-0.39	-0.36	-0.34	-0.33	-0.3	3574	1.0
y_mean[493]	1.25	6.3e-4	0.05	1.16	1.22	1.25	1.28	1.34	5357	1.0
y_mean[494]	-0.43	4.0e-4	0.02	-0.47	-0.44	-0.43	-0.41	-0.38	3328	1.0
y_mean[495]	-0.51	3.9e-4	0.02	-0.55	-0.52	-0.51	-0.49	-0.47	3025	1.0
y_mean[496]	0.13	7.1e-4	0.05	0.03	0.09	0.13	0.16	0.22	4456	1.0
y_mean[497]	-0.3	3.8e-4	0.02	-0.34	-0.31	-0.3	-0.28	-0.25	3429	1.0
y_mean[498]	-0.49	7.2e-4	0.04	-0.58	-0.52	-0.49	-0.46	-0.4	3674	1.0
y_mean[499]	-0.48	5.1e-4	0.03	-0.54	-0.5	-0.48	-0.46	-0.42	3640	1.0
y_mean[500]	-0.06	4.3e-4	0.02	-0.11	-0.08	-0.06	-0.05	-0.02	3120	1.0
y_mean[501]	0.46	4.7e-4	0.03	0.4	0.44	0.46	0.48	0.52	3838	1.0
y_mean[502]	-0.02	4.3e-4	0.03	-0.07	-0.04	-0.02	-3.6e-3	0.03	3433	1.0
y_mean[503]	0.62	4.9e-4	0.03	0.56	0.6	0.62	0.64	0.68	3961	1.0
y_mean[504]	0.06	4.7e-4	0.03	7.3e-3	0.04	0.06	0.08	0.11	3132	1.0
y_mean[505]	-0.58	5.0e-4	0.03	-0.63	-0.6	-0.58	-0.56	-0.52	3478	1.0
y_mean[506]	-0.13	4.2e-4	0.02	-0.17	-0.15	-0.13	-0.11	-0.08	3021	1.0
y_mean[507]	0.58	4.4e-4	0.03	0.52	0.56	0.58	0.6	0.64	4595	1.0
y_mean[508]	-0.41	5.4e-4	0.03	-0.47	-0.43	-0.41	-0.39	-0.36	2757	1.0
y_mean[509]	-0.47	6.6e-4	0.04	-0.55	-0.5	-0.47	-0.45	-0.4	3150	1.0
y_mean[510]	-0.57	5.2e-4	0.03	-0.63	-0.59	-0.57	-0.54	-0.5	3579	1.0
y_mean[511]	-0.52	3.8e-4	0.02	-0.56	-0.54	-0.52	-0.51	-0.48	3088	1.0
y_mean[512]	-0.46	6.3e-4	0.04	-0.53	-0.49	-0.46	-0.44	-0.39	3458	1.0
y_mean[513]	-0.49	3.4e-4	0.02	-0.54	-0.51	-0.49	-0.48	-0.45	3791	1.0
y_mean[514]	0.79	4.7e-4	0.03	0.73	0.77	0.79	0.81	0.85	3897	1.0

y_mean[515]	-0.48	6.0e-4	0.03	-0.54	-0.5	-0.48	-0.45	-0.41	3045	1.0
y_mean[516]	-0.52	3.8e-4	0.02	-0.56	-0.54	-0.52	-0.51	-0.48	3088	1.0
y_mean[517]	-0.24	5.1e-4	0.03	-0.29	-0.26	-0.24	-0.22	-0.18	3339	1.0
y_mean[518]	-0.47	4.9e-4	0.03	-0.53	-0.49	-0.47	-0.45	-0.42	3281	1.0
y_mean[519]	0.12	6.0e-4	0.03	0.06	0.1	0.12	0.14	0.18	2884	1.0
y_mean[520]	0.5	4.5e-4	0.03	0.45	0.48	0.5	0.52	0.56	4032	1.0
y_mean[521]	6.74	3.5e-3	0.23	6.28	6.59	6.74	6.89	7.19	4367	1.0
y_mean[522]	-0.49	5.1e-4	0.03	-0.55	-0.51	-0.49	-0.47	-0.43	3479	1.0
y_mean[523]	-0.26	6.5e-4	0.04	-0.33	-0.29	-0.26	-0.24	-0.19	3359	1.0
y_mean[524]	0.04	4.1e-4	0.02	-8.9e-3	0.02	0.04	0.05	0.08	3374	1.0
y_mean[525]	-0.38	5.4e-4	0.03	-0.43	-0.4	-0.38	-0.35	-0.31	3111	1.0
y_mean[526]	0.91	8.2e-4	0.05	0.8	0.87	0.91	0.95	1.01	4245	1.0
y_mean[527]	-0.2	5.7e-4	0.03	-0.27	-0.22	-0.2	-0.17	-0.13	3576	1.0
y_mean[528]	0.48	7.8e-4	0.04	0.39	0.45	0.48	0.51	0.56	3050	1.0
y_mean[529]	-0.69	5.4e-4	0.03	-0.75	-0.71	-0.69	-0.67	-0.62	3629	1.0
y_mean[530]	-0.56	4.9e-4	0.03	-0.62	-0.58	-0.56	-0.54	-0.51	3406	1.0
y_mean[531]	-0.5	5.7e-4	0.03	-0.57	-0.52	-0.5	-0.48	-0.43	3711	1.0
y_mean[532]	-0.57	5.7e-4	0.03	-0.64	-0.59	-0.57	-0.55	-0.5	3554	1.0
y_mean[533]	-0.46	4.3e-4	0.03	-0.52	-0.48	-0.46	-0.45	-0.41	3657	1.0
y_mean[534]	-0.49	3.0e-4	0.02	-0.53	-0.5	-0.49	-0.48	-0.45	3998	1.0
y_mean[535]	0.05	3.3e-4	0.02	8.9e-3	0.03	0.05	0.06	0.09	3804	1.0
y_mean[536]	0.2	7.9e-4	0.05	0.1	0.16	0.2	0.23	0.29	3740	1.0
y_mean[537]	0.27	7.1e-4	0.04	0.2	0.24	0.27	0.29	0.35	2819	1.0
y_mean[538]	2.84	1.3e-3	0.08	2.68	2.78	2.84	2.89	2.99	3979	1.0
y_mean[539]	-0.25	6.7e-4	0.04	-0.32	-0.27	-0.25	-0.22	-0.17	3019	1.0
y_mean[540]	2.91	2.5e-3	0.14	2.63	2.82	2.91	3.01	3.19	3408	1.0
y_mean[541]	-0.1	4.1e-4	0.02	-0.15	-0.12	-0.1	-0.09	-0.06	3411	1.0
y_mean[542]	-0.06	4.3e-4	0.02	-0.11	-0.08	-0.06	-0.05	-0.02	3121	1.0
y_mean[543]	0.72	1.3e-3	0.08	0.55	0.66	0.72	0.77	0.88	3863	1.0
y_mean[544]	0.01	4.7e-4	0.03	-0.05	-7.9e-3	0.01	0.03	0.07	3641	1.0
y_mean[545]	0.9	9.7e-4	0.06	0.78	0.85	0.9	0.94	1.02	4314	1.0
y_mean[546]	0.52	4.4e-4	0.03	0.47	0.5	0.52	0.54	0.58	4053	1.0
y_mean[547]	-0.51	4.1e-4	0.02	-0.56	-0.53	-0.51	-0.49	-0.46	3214	1.0
y_mean[548]	-0.62	5.7e-4	0.03	-0.69	-0.64	-0.62	-0.6	-0.55	3521	1.0
y_mean[549]	-0.55	3.9e-4	0.02	-0.6	-0.57	-0.55	-0.54	-0.51	3282	1.0
y_mean[550]	-0.08	4.2e-4	0.02	-0.13	-0.1	-0.08	-0.07	-0.04	3113	1.0
y_mean[551]	1.4	7.6e-4	0.05	1.3	1.36	1.4	1.43	1.49	3879	1.0
y_mean[552]	3.89	1.5e-3	0.1	3.7	3.82	3.88	3.95	4.08	4301	1.0
y_mean[553]	-0.04	4.3e-4	0.02	-0.09	-0.05	-0.04	-0.02	0.01	3304	1.0
y_mean[554]	-0.2	5.2e-4	0.03	-0.26	-0.22	-0.2	-0.18	-0.14	3609	1.0
y_mean[555]	-0.16	7.5e-4	0.04	-0.25	-0.19	-0.16	-0.13	-0.08	3419	1.0
y_mean[556]	-0.61	1.2e-3	0.07	-0.76	-0.66	-0.61	-0.57	-0.48	3537	1.0
y_mean[557]	-0.11	7.2e-4	0.04	-0.2	-0.14	-0.11	-0.09	-0.03	3339	1.0
y_mean[558]	0.82	4.9e-4	0.03	0.76	0.8	0.82	0.84	0.88	4075	1.0
y_mean[559]	0.01	4.4e-4	0.02	-0.03	-2.4e-3	0.01	0.03	0.06	3271	1.0
y_mean[560]	-0.18	5.7e-4	0.03	-0.25	-0.2	-0.18	-0.16	-0.11	3657	1.0
y_mean[561]	-0.21	7.4e-4	0.04	-0.28	-0.23	-0.21	-0.18	-0.14	2548	1.0
y_mean[562]	2.19	8.1e-4	0.06	2.08	2.15	2.19	2.23	2.3	5253	1.0

y_mean[563]	-0.69	1.1e-3	0.07	-0.82	-0.73	-0.69	-0.64	-0.55	3850	1.0
y_mean[564]	0.72	6.7e-4	0.04	0.64	0.69	0.72	0.74	0.8	3623	1.0
y_mean[565]	-0.31	6.5e-4	0.04	-0.39	-0.34	-0.31	-0.28	-0.23	3869	1.0
y_mean[566]	-0.27	5.5e-4	0.03	-0.32	-0.29	-0.27	-0.25	-0.21	2989	1.0
y_mean[567]	2.54	1.1e-3	0.07	2.4	2.49	2.54	2.58	2.67	3996	1.0
y_mean[568]	-0.34	6.5e-4	0.03	-0.4	-0.36	-0.34	-0.31	-0.27	2613	1.0
y_mean[569]	-0.37	5.5e-4	0.03	-0.43	-0.39	-0.37	-0.35	-0.32	2709	1.0
y_mean[570]	0.57	4.3e-4	0.03	0.51	0.55	0.57	0.59	0.62	4331	1.0
y_mean[571]	-0.4	5.1e-4	0.03	-0.45	-0.42	-0.4	-0.38	-0.34	2962	1.0
y_mean[572]	-0.5	4.2e-4	0.02	-0.54	-0.51	-0.49	-0.48	-0.45	2732	1.0
y_mean[573]	0.41	5.2e-4	0.04	0.34	0.39	0.41	0.43	0.48	4498	1.0
y_mean[574]	-0.37	5.6e-4	0.03	-0.43	-0.39	-0.37	-0.35	-0.31	2963	1.0
y_mean[575]	0.08	5.2e-4	0.03	0.01	0.06	0.08	0.1	0.14	3657	1.0
y_mean[576]	-0.48	3.4e-4	0.02	-0.53	-0.5	-0.49	-0.47	-0.44	3777	1.0
y_mean[577]	1.61	8.6e-4	0.06	1.5	1.57	1.61	1.66	1.73	4632	1.0
y_mean[578]	1.21	7.0e-4	0.05	1.12	1.18	1.21	1.24	1.31	4636	1.0
y_mean[579]	-0.46	3.2e-4	0.02	-0.5	-0.47	-0.46	-0.45	-0.42	3708	1.0
y_mean[580]	0.05	3.5e-4	0.02	6.0e-3	0.03	0.05	0.06	0.09	4182	1.0
y_mean[581]	-0.52	3.8e-4	0.02	-0.56	-0.54	-0.52	-0.51	-0.48	3039	1.0
y_mean[582]	-0.25	5.4e-4	0.03	-0.31	-0.27	-0.25	-0.23	-0.19	3370	1.0
y_mean[583]	-0.74	5.4e-4	0.03	-0.8	-0.76	-0.74	-0.72	-0.67	3669	1.0
y_mean[584]	0.31	6.0e-4	0.03	0.24	0.28	0.31	0.33	0.37	3155	1.0
y_mean[585]	-0.53	6.7e-4	0.04	-0.61	-0.56	-0.53	-0.51	-0.46	3459	1.0
y_mean[586]	-0.14	5.5e-4	0.03	-0.2	-0.16	-0.14	-0.12	-0.08	2952	1.0
y_mean[587]	3.44	4.5e-3	0.3	2.86	3.24	3.44	3.64	4.02	4500	1.0
y_mean[588]	-0.57	5.9e-4	0.04	-0.64	-0.6	-0.57	-0.55	-0.5	3798	1.0
y_mean[589]	0.45	4.9e-4	0.03	0.39	0.43	0.45	0.47	0.51	4011	1.0
y_mean[590]	-0.41	3.8e-4	0.02	-0.46	-0.43	-0.41	-0.4	-0.37	3907	1.0
y_mean[591]	-0.65	1.2e-3	0.07	-0.79	-0.7	-0.65	-0.6	-0.51	3632	1.0
y_mean[592]	-0.54	3.9e-4	0.02	-0.58	-0.55	-0.54	-0.52	-0.49	3236	1.0
y_mean[593]	-0.46	5.3e-4	0.03	-0.52	-0.48	-0.46	-0.44	-0.41	2874	1.0
y_mean[594]	-0.55	4.0e-4	0.02	-0.6	-0.57	-0.55	-0.54	-0.51	3304	1.0
y_mean[595]	-0.74	5.5e-4	0.03	-0.81	-0.76	-0.74	-0.72	-0.68	3715	1.0
y_mean[596]	1.62	8.5e-4	0.05	1.51	1.58	1.62	1.66	1.73	4132	1.0
y_mean[597]	0.26	6.5e-4	0.04	0.19	0.24	0.26	0.29	0.34	3213	1.0
y_mean[598]	-0.5	7.2e-4	0.04	-0.57	-0.52	-0.5	-0.47	-0.41	3253	1.0
y_mean[599]	-0.56	5.6e-4	0.03	-0.62	-0.58	-0.56	-0.53	-0.49	3490	1.0
y_mean[600]	0.55	7.5e-4	0.05	0.46	0.52	0.55	0.59	0.65	4065	1.0
y_mean[601]	-0.59	6.0e-4	0.04	-0.66	-0.61	-0.59	-0.56	-0.51	3613	1.0
y_mean[602]	0.57	4.3e-4	0.03	0.51	0.55	0.57	0.58	0.62	4485	1.0
y_mean[603]	0.66	5.1e-4	0.03	0.6	0.64	0.66	0.68	0.73	4060	1.0
y_mean[604]	-0.3	5.8e-4	0.03	-0.36	-0.32	-0.3	-0.28	-0.24	2745	1.0
y_mean[605]	0.12	5.3e-4	0.03	0.06	0.1	0.12	0.14	0.18	3010	1.0
y_mean[606]	-0.45	4.8e-4	0.03	-0.51	-0.47	-0.45	-0.43	-0.4	3527	1.0
y_mean[607]	0.8	5.8e-4	0.04	0.73	0.78	0.8	0.83	0.87	4094	1.0
y_mean[608]	3.9	2.7e-3	0.2	3.51	3.77	3.91	4.03	4.3	5239	1.0
y_mean[609]	-0.44	7.6e-4	0.04	-0.52	-0.47	-0.44	-0.41	-0.35	3228	1.0
y_mean[610]	-0.52	3.8e-4	0.02	-0.56	-0.54	-0.52	-0.51	-0.48	2932	1.0

y_mean[611]	-0.41	6.4e-4	0.04	-0.48	-0.44	-0.41	-0.39	-0.34	3141	1.0
y_mean[612]	2.34	8.6e-4	0.06	2.23	2.31	2.34	2.38	2.45	4292	1.0
y_mean[613]	-0.1	6.7e-4	0.04	-0.17	-0.12	-0.1	-0.07	-0.02	3381	1.0
y_mean[614]	-0.17	1.0e-3	0.07	-0.29	-0.21	-0.17	-0.12	-0.03	4207	1.0
y_mean[615]	-0.6	5.1e-4	0.03	-0.65	-0.62	-0.59	-0.58	-0.54	3511	1.0
y_mean[616]	0.13	8.5e-4	0.04	0.05	0.1	0.13	0.16	0.22	2557	1.0
y_mean[617]	4.6e-3	6.0e-4	0.04	-0.07	-0.02	4.5e-3	0.03	0.08	4555	1.0
y_mean[618]	-0.23	7.4e-4	0.04	-0.31	-0.26	-0.23	-0.2	-0.14	3384	1.0
y_mean[619]	-0.16	4.2e-4	0.02	-0.21	-0.18	-0.16	-0.14	-0.11	3206	1.0
y_mean[620]	4.59	3.1e-3	0.2	4.21	4.46	4.59	4.72	4.98	3895	1.0
y_mean[621]	-0.59	1.3e-3	0.07	-0.74	-0.64	-0.59	-0.54	-0.45	3465	1.0
y_mean[622]	-0.69	5.5e-4	0.03	-0.75	-0.71	-0.69	-0.67	-0.63	3458	1.0
y_mean[623]	1.27	7.7e-4	0.05	1.18	1.23	1.27	1.3	1.36	4000	1.0
y_mean[624]	-0.52	4.3e-4	0.02	-0.57	-0.53	-0.52	-0.5	-0.47	2987	1.0
y_mean[625]	-0.51	3.9e-4	0.02	-0.55	-0.52	-0.51	-0.5	-0.47	2746	1.0
y_mean[626]	-0.13	4.4e-4	0.03	-0.18	-0.15	-0.13	-0.11	-0.08	3854	1.0
y_mean[627]	-0.29	7.7e-4	0.05	-0.38	-0.32	-0.29	-0.26	-0.2	3465	1.0
y_mean[628]	0.62	6.6e-4	0.04	0.54	0.59	0.62	0.65	0.7	4117	1.0
y_mean[629]	-0.23	4.9e-4	0.03	-0.28	-0.24	-0.23	-0.21	-0.17	3255	1.0
y_mean[630]	-0.43	3.5e-4	0.02	-0.47	-0.44	-0.43	-0.41	-0.39	3870	1.0
y_mean[631]	-0.63	6.1e-4	0.04	-0.7	-0.66	-0.63	-0.61	-0.56	3534	1.0
y_mean[632]	-0.46	4.6e-4	0.03	-0.51	-0.48	-0.46	-0.44	-0.41	3320	1.0
y_mean[633]	-0.51	4.8e-4	0.03	-0.56	-0.53	-0.51	-0.49	-0.45	3631	1.0
y_mean[634]	-0.67	7.9e-4	0.05	-0.76	-0.7	-0.67	-0.64	-0.58	3507	1.0
y_mean[635]	1.33	9.0e-4	0.06	1.21	1.29	1.33	1.37	1.45	4339	1.0
y_mean[636]	-0.11	5.9e-4	0.03	-0.18	-0.14	-0.11	-0.09	-0.05	3077	1.0
y_mean[637]	-0.12	4.1e-4	0.02	-0.16	-0.13	-0.12	-0.1	-0.07	3171	1.0
y_mean[638]	-0.61	7.7e-4	0.04	-0.7	-0.64	-0.61	-0.58	-0.53	3240	1.0
y_mean[639]	-0.18	5.8e-4	0.03	-0.24	-0.2	-0.18	-0.16	-0.11	3205	1.0
y_mean[640]	-0.54	3.9e-4	0.02	-0.58	-0.55	-0.54	-0.53	-0.5	3216	1.0
y_mean[641]	-0.68	5.9e-4	0.03	-0.75	-0.7	-0.68	-0.66	-0.61	3431	1.0
y_mean[642]	-0.67	7.9e-4	0.05	-0.76	-0.7	-0.67	-0.64	-0.58	3510	1.0
y_mean[643]	0.19	6.6e-4	0.04	0.11	0.17	0.19	0.22	0.28	3937	1.0
y_mean[644]	0.49	4.7e-4	0.03	0.43	0.47	0.49	0.51	0.55	4205	1.0
y_mean[645]	-0.27	6.0e-4	0.04	-0.34	-0.3	-0.27	-0.25	-0.2	3399	1.0
y_mean[646]	-0.1	6.8e-4	0.04	-0.18	-0.13	-0.1	-0.07	-0.02	3382	1.0
y_mean[647]	-0.34	5.2e-4	0.03	-0.4	-0.36	-0.34	-0.32	-0.29	3080	1.0
y_mean[648]	-0.11	4.1e-4	0.02	-0.16	-0.13	-0.11	-0.1	-0.07	3171	1.0
y_mean[649]	-0.1	4.2e-4	0.02	-0.15	-0.12	-0.1	-0.08	-0.05	3530	1.0
y_mean[650]	-0.21	4.8e-4	0.03	-0.26	-0.22	-0.21	-0.19	-0.15	3355	1.0
y_mean[651]	1.52	1.7e-3	0.11	1.29	1.44	1.52	1.6	1.74	4563	1.0
y_mean[652]	-0.49	7.0e-4	0.04	-0.57	-0.51	-0.49	-0.46	-0.41	3220	1.0
y_mean[653]	0.05	7.6e-4	0.04	-0.02	0.03	0.05	0.08	0.13	2592	1.0
y_mean[654]	-0.48	4.7e-4	0.02	-0.53	-0.5	-0.48	-0.46	-0.43	2819	1.0
y_mean[655]	-0.66	6.5e-4	0.04	-0.73	-0.68	-0.66	-0.63	-0.58	3381	1.0
y_mean[656]	-0.1	4.5e-4	0.03	-0.16	-0.12	-0.1	-0.08	-0.05	3992	1.0
y_mean[657]	1.55	1.0e-3	0.07	1.41	1.5	1.55	1.59	1.68	4511	1.0
y_mean[658]	-0.79	6.9e-4	0.04	-0.88	-0.82	-0.79	-0.76	-0.71	3690	1.0

	mean	se_mean	sd	2.5%	25%	50%	75%	97.5%	n_eff	Rhat
y_mean[659]	-0.03	4.5e-4	0.03	-0.08	-0.05	-0.03	-0.01	0.02	3265	1.0
y_mean[660]	0.03	5.3e-4	0.03	-0.04	4.5e-3	0.03	0.05	0.09	3679	1.0
y_mean[661]	-0.46	5.5e-4	0.03	-0.52	-0.48	-0.46	-0.44	-0.4	2901	1.0
y_mean[662]	-0.12	8.3e-4	0.04	-0.21	-0.15	-0.12	-0.1	-0.04	2656	1.0
y_mean[663]	-0.78	6.3e-4	0.04	-0.86	-0.81	-0.78	-0.75	-0.7	3657	1.0
y_mean[664]	-3.8e-3	3.8e-4	0.02	-0.05	-0.02	-3.9e-3	0.01	0.04	3522	1.0
y_mean[665]	0.62	4.6e-4	0.03	0.56	0.6	0.62	0.64	0.68	4337	1.0
y_mean[666]	0.81	8.6e-4	0.05	0.72	0.78	0.81	0.85	0.91	3412	1.0
y_mean[667]	-0.26	5.6e-4	0.03	-0.32	-0.28	-0.26	-0.24	-0.19	3382	1.0
y_mean[668]	-0.53	3.9e-4	0.02	-0.57	-0.55	-0.53	-0.52	-0.49	3033	1.0
y_mean[669]	0.56	4.3e-4	0.03	0.51	0.54	0.56	0.58	0.62	4247	1.0
y_mean[670]	0.6	6.7e-4	0.04	0.52	0.58	0.6	0.63	0.69	4054	1.0
y_mean[671]	-0.49	7.1e-4	0.04	-0.57	-0.52	-0.49	-0.46	-0.41	3253	1.0
y_mean[672]	-0.04	4.3e-4	0.02	-0.09	-0.05	-0.04	-0.02	0.01	3303	1.0
y_mean[673]	-0.13	8.0e-4	0.05	-0.22	-0.16	-0.13	-0.09	-0.03	3377	1.0
y_mean[674]	-0.48	4.7e-4	0.02	-0.53	-0.5	-0.48	-0.47	-0.43	2826	1.0
y_mean[675]	-0.33	7.9e-4	0.05	-0.42	-0.36	-0.33	-0.3	-0.24	3430	1.0
y_mean[676]	0.45	6.4e-4	0.04	0.37	0.42	0.45	0.48	0.53	4237	1.0
y_mean[677]	-0.49	4.3e-4	0.02	-0.53	-0.5	-0.49	-0.47	-0.45	2732	1.0
y_mean[678]	-0.04	4.1e-4	0.02	-0.09	-0.06	-0.04	-0.03	6.7e-3	3496	1.0
y_mean[679]	-0.03	5.5e-4	0.03	-0.09	-0.05	-0.03	-4.4e-3	0.04	3204	1.0
y_mean[680]	-0.76	7.6e-4	0.05	-0.85	-0.79	-0.76	-0.73	-0.67	3624	1.0
y_mean[681]	-0.07	7.6e-4	0.04	-0.15	-0.09	-0.07	-0.04	0.01	2811	1.0
y_mean[682]	-0.27	7.1e-4	0.04	-0.34	-0.3	-0.27	-0.25	-0.2	2570	1.0
y_mean[683]	0.18	3.9e-4	0.02	0.13	0.16	0.18	0.19	0.22	3819	1.0
y_mean[684]	0.19	4.7e-4	0.03	0.13	0.17	0.19	0.2	0.24	3377	1.0
y_mean[685]	0.56	4.3e-4	0.03	0.5	0.54	0.56	0.57	0.61	4323	1.0
y_mean[686]	0.56	4.4e-4	0.03	0.51	0.54	0.56	0.58	0.62	4156	1.0
y_mean[687]	-0.42	4.9e-4	0.03	-0.47	-0.44	-0.42	-0.4	-0.36	3197	1.0
y_mean[688]	-0.57	4.9e-4	0.03	-0.63	-0.59	-0.57	-0.55	-0.51	3449	1.0
y_mean[689]	-0.19	5.5e-4	0.03	-0.25	-0.21	-0.19	-0.17	-0.12	3041	1.0
y_mean[690]	-0.56	6.6e-4	0.04	-0.64	-0.59	-0.56	-0.53	-0.48	3624	1.0
y_mean[691]	-0.76	5.8e-4	0.04	-0.83	-0.78	-0.76	-0.74	-0.69	3701	1.0
y_mean[692]	-0.58	4.4e-4	0.03	-0.63	-0.6	-0.58	-0.56	-0.53	3396	1.0
y_mean[693]	-0.13	4.2e-4	0.03	-0.18	-0.15	-0.13	-0.11	-0.08	3645	1.0
y_mean[694]	-0.06	4.2e-4	0.02	-0.11	-0.08	-0.06	-0.04	-0.01	3194	1.0
y_mean[695]	0.3	8.5e-4	0.05	0.2	0.27	0.3	0.33	0.4	3504	1.0
y_mean[696]	-0.25	8.7e-4	0.04	-0.33	-0.28	-0.25	-0.22	-0.17	2495	1.0
y_mean[697]	-0.49	4.2e-4	0.02	-0.54	-0.51	-0.49	-0.47	-0.44	3156	1.0
y_mean[698]	-0.36	5.6e-4	0.03	-0.43	-0.38	-0.36	-0.34	-0.3	3147	1.0
y_mean[699]	3.14	1.2e-3	0.08	2.99	3.09	3.14	3.19	3.29	3923	1.0
y_mean[700]	-0.58	4.6e-4	0.03	-0.63	-0.6	-0.58	-0.56	-0.53	3499	1.0
y_mean[701]	-0.68	5.5e-4	0.03	-0.74	-0.7	-0.68	-0.66	-0.62	3518	1.0
y_mean[702]	-0.49	5.2e-4	0.03	-0.55	-0.51	-0.49	-0.47	-0.44	2994	1.0
y_mean[703]	-0.34	8.6e-4	0.04	-0.42	-0.37	-0.34	-0.31	-0.25	2630	1.0
y_mean[704]	0.59	5.4e-4	0.04	0.52	0.57	0.59	0.62	0.66	4567	1.0
y_mean[705]	0.2	6.7e-4	0.04	0.12	0.18	0.2	0.23	0.29	3898	1.0
y_mean[706]	0.02	4.7e-4	0.03	-0.03	7.8e-4	0.02	0.04	0.07	3149	1.0

y_mean[707]	-0.35	4.2e-4	0.02	-0.4	-0.37	-0.35	-0.33	-0.3	3133	1.0
y_mean[708]	-0.52	4.3e-4	0.02	-0.57	-0.54	-0.52	-0.51	-0.48	2994	1.0
y_mean[709]	0.9	7.9e-4	0.05	0.82	0.87	0.9	0.94	1.0	3447	1.0
y_mean[710]	-0.32	8.7e-4	0.05	-0.42	-0.35	-0.32	-0.28	-0.22	3480	1.0
y_mean[711]	-0.57	4.3e-4	0.03	-0.62	-0.59	-0.57	-0.55	-0.52	3432	1.0
y_mean[712]	-0.45	4.7e-4	0.02	-0.49	-0.46	-0.45	-0.43	-0.4	2599	1.0
y_mean[713]	-0.48	4.2e-4	0.02	-0.53	-0.49	-0.48	-0.46	-0.43	3379	1.0
y_mean[714]	-0.16	4.2e-4	0.02	-0.2	-0.18	-0.16	-0.14	-0.11	3123	1.0
y_mean[715]	-0.08	5.4e-4	0.03	-0.14	-0.1	-0.08	-0.06	-0.02	3140	1.0
y_mean[716]	-0.46	6.1e-4	0.03	-0.52	-0.48	-0.46	-0.43	-0.39	2993	1.0
y_mean[717]	-0.49	3.0e-4	0.02	-0.53	-0.5	-0.49	-0.48	-0.45	3998	1.0
y_mean[718]	0.74	8.3e-4	0.05	0.64	0.7	0.74	0.77	0.83	3539	1.0
y_mean[719]	-0.68	6.5e-4	0.04	-0.76	-0.71	-0.68	-0.65	-0.6	3516	1.0
y_mean[720]	-0.68	5.7e-4	0.03	-0.75	-0.71	-0.68	-0.66	-0.62	3594	1.0
y_mean[721]	0.43	4.9e-4	0.03	0.37	0.41	0.43	0.45	0.49	3772	1.0
y_mean[722]	-0.71	5.9e-4	0.04	-0.78	-0.73	-0.71	-0.68	-0.64	3542	1.0
y_mean[723]	-0.27	5.8e-4	0.03	-0.33	-0.29	-0.27	-0.24	-0.2	3471	1.0
y_mean[724]	-0.06	4.2e-4	0.03	-0.1	-0.07	-0.06	-0.04	-6.9e-3	3589	1.0
y_mean[725]	1.15	7.1e-4	0.05	1.05	1.12	1.15	1.18	1.25	4668	1.0
y_mean[726]	-0.24	5.9e-4	0.03	-0.3	-0.26	-0.24	-0.22	-0.18	2939	1.0
y_mean[727]	-0.54	3.9e-4	0.02	-0.59	-0.56	-0.54	-0.53	-0.5	3127	1.0
y_mean[728]	-0.1	4.1e-4	0.02	-0.14	-0.11	-0.1	-0.08	-0.05	3147	1.0
y_mean[729]	-0.64	7.7e-4	0.05	-0.73	-0.67	-0.64	-0.61	-0.55	3431	1.0
y_mean[730]	-0.05	1.0e-3	0.06	-0.16	-0.09	-0.05	-0.01	0.06	2950	1.0
y_mean[731]	0.53	4.3e-4	0.03	0.47	0.51	0.53	0.54	0.58	4069	1.0
y_mean[732]	-0.5	4.2e-4	0.02	-0.54	-0.51	-0.5	-0.48	-0.45	2825	1.0
y_mean[733]	-0.46	4.7e-4	0.03	-0.51	-0.48	-0.46	-0.44	-0.41	3463	1.0
y_mean[734]	-0.52	3.8e-4	0.02	-0.56	-0.53	-0.52	-0.51	-0.48	2988	1.0
y_mean[735]	0.7	7.4e-4	0.05	0.6	0.67	0.7	0.74	0.8	4814	1.0
y_mean[736]	-0.37	7.0e-4	0.04	-0.46	-0.4	-0.37	-0.34	-0.29	3537	1.0
y_mean[737]	-0.62	5.5e-4	0.03	-0.68	-0.64	-0.62	-0.6	-0.55	3506	1.0
y_mean[738]	0.46	4.7e-4	0.03	0.41	0.44	0.46	0.48	0.52	3836	1.0
y_mean[739]	0.55	6.0e-4	0.04	0.47	0.53	0.55	0.58	0.63	4527	1.0
y_mean[740]	0.27	6.8e-4	0.04	0.19	0.24	0.27	0.29	0.35	3674	1.0
y_mean[741]	2.38	1.3e-3	0.08	2.23	2.33	2.38	2.44	2.54	3474	1.0
y_mean[742]	-0.54	3.9e-4	0.02	-0.58	-0.55	-0.54	-0.52	-0.49	3076	1.0
y_mean[743]	-0.62	7.4e-4	0.04	-0.71	-0.65	-0.62	-0.6	-0.54	3272	1.0
y_mean[744]	-0.24	5.5e-4	0.03	-0.29	-0.26	-0.24	-0.22	-0.18	2851	1.0
y_mean[745]	-0.53	3.8e-4	0.02	-0.57	-0.54	-0.53	-0.51	-0.49	2929	1.0
y_mean[746]	-0.34	9.4e-4	0.06	-0.45	-0.38	-0.34	-0.31	-0.23	3471	1.0
y_mean[747]	-0.52	3.9e-4	0.02	-0.56	-0.53	-0.52	-0.51	-0.48	2943	1.0
y_mean[748]	-0.71	5.7e-4	0.04	-0.78	-0.74	-0.71	-0.69	-0.65	3852	1.0
y_mean[749]	-0.44	5.8e-4	0.03	-0.5	-0.46	-0.44	-0.42	-0.38	2930	1.0
y_mean[750]	-0.42	9.0e-4	0.05	-0.51	-0.45	-0.42	-0.39	-0.32	2826	1.0
y_mean[751]	-0.54	3.8e-4	0.02	-0.58	-0.56	-0.54	-0.53	-0.5	3140	1.0
y_mean[752]	0.15	5.2e-4	0.03	0.09	0.13	0.15	0.17	0.2	3064	1.0
y_mean[753]	-0.24	6.7e-4	0.03	-0.31	-0.27	-0.24	-0.22	-0.17	2689	1.0
y_mean[754]	0.57	8.0e-4	0.05	0.48	0.54	0.57	0.6	0.66	3342	1.0

y_mean[755]	-0.18	5.5e-4	0.03	-0.24	-0.2	-0.18	-0.16	-0.12	2999	1.0
y_mean[756]	2.35	1.2e-3	0.08	2.19	2.29	2.35	2.4	2.5	4195	1.0
y_mean[757]	0.97	9.4e-4	0.06	0.85	0.92	0.97	1.01	1.09	4355	1.0
y_mean[758]	-0.17	5.0e-4	0.03	-0.23	-0.19	-0.17	-0.15	-0.11	3680	1.0
y_mean[759]	0.28	5.2e-4	0.03	0.22	0.26	0.28	0.3	0.35	3533	1.0
y_mean[760]	0.11	6.9e-4	0.04	0.02	0.08	0.11	0.13	0.18	3512	1.0
y_mean[761]	0.44	6.1e-4	0.04	0.37	0.42	0.44	0.47	0.52	3885	1.0
y_mean[762]	-0.55	7.8e-4	0.04	-0.63	-0.58	-0.55	-0.52	-0.46	3066	1.0
y_mean[763]	-0.49	6.7e-4	0.04	-0.56	-0.51	-0.49	-0.46	-0.41	3197	1.0
y_mean[764]	-0.51	4.0e-4	0.02	-0.55	-0.52	-0.51	-0.49	-0.47	2736	1.0
y_mean[765]	-0.39	5.9e-4	0.03	-0.45	-0.41	-0.39	-0.37	-0.33	3034	1.0
y_mean[766]	0.72	6.7e-4	0.04	0.64	0.69	0.72	0.75	0.8	3612	1.0
y_mean[767]	0.68	5.3e-4	0.04	0.61	0.66	0.68	0.71	0.75	4362	1.0
y_mean[768]	-0.57	4.6e-4	0.03	-0.62	-0.59	-0.57	-0.55	-0.52	3388	1.0
y_mean[769]	0.07	5.0e-4	0.03	5.9e-3	0.04	0.07	0.09	0.13	3972	1.0
y_mean[770]	-0.07	4.2e-4	0.03	-0.12	-0.09	-0.07	-0.06	-0.02	3769	1.0
y_mean[771]	-0.22	7.3e-4	0.04	-0.3	-0.24	-0.22	-0.19	-0.13	3317	1.0
y_mean[772]	-0.52	4.0e-4	0.02	-0.56	-0.54	-0.52	-0.51	-0.48	2956	1.0
y_mean[773]	-0.69	6.2e-4	0.04	-0.77	-0.72	-0.69	-0.67	-0.62	3697	1.0
y_mean[774]	-0.02	4.4e-4	0.03	-0.07	-0.04	-0.02	-3.6e-3	0.03	3386	1.0
y_mean[775]	-0.56	4.0e-4	0.02	-0.6	-0.57	-0.56	-0.54	-0.51	3270	1.0
y_mean[776]	-0.09	4.1e-4	0.02	-0.13	-0.1	-0.09	-0.07	-0.04	3296	1.0
y_mean[777]	0.43	5.8e-4	0.04	0.36	0.41	0.43	0.46	0.51	4157	1.0
y_mean[778]	-0.45	5.2e-4	0.03	-0.51	-0.47	-0.45	-0.43	-0.4	2983	1.0
y_mean[779]	-0.27	5.8e-4	0.03	-0.33	-0.29	-0.27	-0.24	-0.2	3388	1.0
y_mean[780]	-0.69	5.2e-4	0.03	-0.75	-0.71	-0.69	-0.67	-0.63	3892	1.0
y_mean[781]	-0.06	4.5e-4	0.03	-0.11	-0.07	-0.06	-0.04	-5.9e-3	3059	1.0
y_mean[782]	-0.46	4.9e-4	0.03	-0.52	-0.48	-0.46	-0.44	-0.41	3631	1.0
y_mean[783]	-0.52	4.1e-4	0.02	-0.56	-0.53	-0.52	-0.5	-0.47	2934	1.0
y_mean[784]	-0.52	4.0e-4	0.02	-0.56	-0.53	-0.52	-0.5	-0.48	2937	1.0
y_mean[785]	-0.55	8.8e-4	0.05	-0.65	-0.59	-0.55	-0.51	-0.45	3649	1.0
y_mean[786]	-0.5	6.1e-4	0.04	-0.57	-0.53	-0.5	-0.48	-0.43	3637	1.0
y_mean[787]	-0.58	9.1e-4	0.05	-0.68	-0.61	-0.58	-0.54	-0.47	3363	1.0
y_mean[788]	-0.29	6.1e-4	0.04	-0.36	-0.32	-0.29	-0.27	-0.22	3523	1.0
y_mean[789]	-0.09	5.5e-4	0.03	-0.15	-0.11	-0.09	-0.07	-0.02	3389	1.0
y_mean[790]	-0.26	6.2e-4	0.03	-0.32	-0.28	-0.26	-0.24	-0.2	2700	1.0
y_mean[791]	-0.47	4.2e-4	0.02	-0.51	-0.48	-0.47	-0.45	-0.42	2886	1.0
y_mean[792]	0.19	6.6e-4	0.04	0.11	0.16	0.19	0.22	0.27	3903	1.0
y_mean[793]	-0.61	5.4e-4	0.03	-0.67	-0.63	-0.61	-0.59	-0.55	3523	1.0
y_mean[794]	-0.04	3.9e-4	0.02	-0.08	-0.05	-0.04	-0.02	8.2e-3	3507	1.0
y_mean[795]	-0.14	6.3e-4	0.04	-0.21	-0.16	-0.14	-0.11	-0.06	3571	1.0
y_mean[796]	-0.24	7.5e-4	0.04	-0.31	-0.26	-0.24	-0.21	-0.16	2551	1.0
y_mean[797]	0.17	6.9e-4	0.04	0.1	0.15	0.17	0.19	0.24	2722	1.0
y_mean[798]	-0.54	3.9e-4	0.02	-0.59	-0.56	-0.54	-0.53	-0.5	3233	1.0
y_mean[799]	-0.76	6.1e-4	0.04	-0.83	-0.78	-0.76	-0.73	-0.68	3632	1.0
y_mean[800]	-0.01	4.4e-4	0.03	-0.07	-0.03	-0.01	3.9e-3	0.04	3878	1.0
y_mean[801]	-0.45	4.4e-4	0.02	-0.5	-0.47	-0.45	-0.44	-0.41	2948	1.0
y_mean[802]	0.03	4.7e-4	0.03	-0.02	0.01	0.03	0.05	0.09	3676	1.0

y_mean[803]	-0.77	6.8e-4	0.04	-0.85	-0.79	-0.77	-0.74	-0.69	3627	1.0
y_mean[804]	-0.5	4.6e-4	0.03	-0.56	-0.52	-0.5	-0.48	-0.45	3613	1.0
y_mean[805]	-0.1	7.2e-4	0.04	-0.18	-0.13	-0.1	-0.07	-0.02	3425	1.0
y_mean[806]	-0.65	6.5e-4	0.04	-0.72	-0.67	-0.65	-0.62	-0.57	3578	1.0
y_mean[807]	-0.04	4.6e-4	0.03	-0.1	-0.07	-0.04	-0.02	0.01	4247	1.0
y_mean[808]	-0.63	7.8e-4	0.04	-0.72	-0.66	-0.63	-0.6	-0.54	3301	1.0
y_mean[809]	-0.43	4.3e-4	0.02	-0.47	-0.44	-0.43	-0.41	-0.38	3078	1.0
y_mean[810]	-0.48	4.5e-4	0.03	-0.53	-0.5	-0.48	-0.46	-0.43	3478	1.0
y_mean[811]	-0.54	4.4e-4	0.03	-0.59	-0.56	-0.54	-0.52	-0.49	3464	1.0
y_mean[812]	-0.26	6.7e-4	0.04	-0.34	-0.29	-0.26	-0.23	-0.18	3515	1.0
y_mean[813]	0.2	3.9e-4	0.02	0.16	0.19	0.2	0.22	0.25	3826	1.0
y_mean[814]	-0.78	6.4e-4	0.04	-0.86	-0.8	-0.78	-0.75	-0.7	3736	1.0
y_mean[815]	-0.35	4.3e-4	0.02	-0.4	-0.37	-0.35	-0.34	-0.31	3006	1.0
y_mean[816]	-0.2	5.1e-4	0.03	-0.25	-0.22	-0.2	-0.18	-0.14	3090	1.0
y_mean[817]	-0.21	4.7e-4	0.03	-0.26	-0.22	-0.21	-0.19	-0.15	3229	1.0
y_mean[818]	-0.09	4.2e-4	0.02	-0.13	-0.1	-0.09	-0.07	-0.04	3107	1.0
y_mean[819]	0.46	4.7e-4	0.03	0.4	0.44	0.46	0.48	0.52	3806	1.0
y_mean[820]	0.03	4.6e-4	0.03	-0.03	8.3e-3	0.03	0.05	0.08	3714	1.0
y_mean[821]	-0.55	5.3e-4	0.03	-0.61	-0.57	-0.55	-0.53	-0.49	3510	1.0
y_mean[822]	-0.43	8.3e-4	0.04	-0.51	-0.46	-0.43	-0.4	-0.35	2497	1.0
y_mean[823]	-0.34	4.5e-4	0.03	-0.39	-0.36	-0.34	-0.32	-0.29	3325	1.0
y_mean[824]	-0.44	3.9e-4	0.02	-0.49	-0.46	-0.44	-0.43	-0.4	3468	1.0
y_mean[825]	0.68	5.8e-4	0.04	0.61	0.66	0.68	0.7	0.75	3633	1.0
y_mean[826]	-0.03	4.3e-4	0.03	-0.07	-0.04	-0.03	-8.7e-3	0.02	3363	1.0
y_mean[827]	-0.04	4.3e-4	0.03	-0.09	-0.06	-0.04	-0.03	6.1e-3	3570	1.0
y_mean[828]	-0.62	6.5e-4	0.04	-0.7	-0.65	-0.62	-0.6	-0.55	3494	1.0
y_mean[829]	-0.7	6.0e-4	0.04	-0.78	-0.73	-0.7	-0.68	-0.63	3768	1.0
y_mean[830]	-0.56	4.7e-4	0.03	-0.62	-0.58	-0.56	-0.55	-0.51	3377	1.0
y_mean[831]	-0.28	7.0e-4	0.04	-0.36	-0.3	-0.28	-0.25	-0.2	3516	1.0
y_mean[832]	-0.53	3.8e-4	0.02	-0.58	-0.55	-0.53	-0.52	-0.49	3072	1.0
y_mean[833]	-0.53	4.2e-4	0.02	-0.58	-0.55	-0.53	-0.52	-0.49	3084	1.0
y_mean[834]	0.02	4.6e-4	0.03	-0.04	2.7e-4	0.02	0.04	0.07	3611	1.0
y_mean[835]	0.64	4.8e-4	0.03	0.57	0.62	0.64	0.66	0.7	4319	1.0
y_mean[836]	-0.6	4.9e-4	0.03	-0.65	-0.62	-0.6	-0.58	-0.54	3478	1.0
y_mean[837]	-0.58	1.1e-3	0.07	-0.71	-0.63	-0.58	-0.54	-0.45	3380	1.0
y_mean[838]	-0.59	5.9e-4	0.04	-0.66	-0.61	-0.59	-0.57	-0.52	3604	1.0
y_mean[839]	-0.17	4.2e-4	0.02	-0.21	-0.18	-0.17	-0.15	-0.12	3154	1.0
y_mean[840]	-0.44	4.6e-4	0.03	-0.48	-0.45	-0.44	-0.42	-0.39	2977	1.0
y_mean[841]	-0.18	8.0e-4	0.04	-0.26	-0.21	-0.18	-0.15	-0.1	2526	1.0
y_mean[842]	-0.15	5.2e-4	0.03	-0.21	-0.17	-0.15	-0.13	-0.09	3430	1.0
y_mean[843]	4.23	1.8e-3	0.12	4.0	4.15	4.23	4.31	4.46	4077	1.0
y_mean[844]	0.41	5.3e-4	0.03	0.35	0.39	0.41	0.43	0.47	3603	1.0
y_mean[845]	-0.11	5.6e-4	0.03	-0.17	-0.13	-0.11	-0.09	-0.04	3282	1.0
y_mean[846]	0.55	4.4e-4	0.03	0.5	0.53	0.55	0.57	0.61	4142	1.0
y_mean[847]	1.05	6.3e-4	0.04	0.97	1.02	1.05	1.08	1.14	4924	1.0
y_mean[848]	0.38	5.4e-4	0.03	0.31	0.35	0.38	0.4	0.44	4073	1.0
y_mean[849]	-0.45	5.0e-4	0.03	-0.5	-0.46	-0.45	-0.43	-0.39	2683	1.0
y_mean[850]	-0.51	3.8e-4	0.02	-0.55	-0.53	-0.51	-0.5	-0.47	2923	1.0

y_mean[851]	3.55	3.3e-3	0.18	3.18	3.43	3.54	3.66	3.9	3044	1.0
y_mean[852]	-0.08	7.1e-4	0.04	-0.16	-0.11	-0.08	-0.05	2.0e-3	3375	1.0
y_mean[853]	-0.73	5.4e-4	0.03	-0.8	-0.76	-0.73	-0.71	-0.67	3735	1.0
y_mean[854]	-0.56	4.0e-4	0.02	-0.61	-0.58	-0.56	-0.55	-0.51	3285	1.0
y_mean[855]	-0.45	9.3e-4	0.05	-0.55	-0.49	-0.45	-0.42	-0.36	2732	1.0
y_mean[856]	0.37	8.1e-4	0.05	0.27	0.34	0.37	0.4	0.47	3777	1.0
y_mean[857]	0.04	8.7e-4	0.04	-0.04	0.01	0.04	0.07	0.13	2504	1.0
y_mean[858]	-0.63	6.2e-4	0.04	-0.71	-0.66	-0.64	-0.61	-0.56	3535	1.0
y_mean[859]	-0.02	3.7e-4	0.02	-0.06	-0.03	-0.02	-2.9e-3	0.03	3606	1.0
y_mean[860]	0.59	4.4e-4	0.03	0.54	0.58	0.59	0.61	0.65	4467	1.0
y_mean[861]	-0.02	3.6e-4	0.02	-0.06	-0.03	-0.02	-1.2e-4	0.03	3762	1.0
y_mean[862]	-0.45	4.5e-4	0.02	-0.5	-0.47	-0.45	-0.44	-0.41	2639	1.0
y_mean[863]	-0.13	4.8e-4	0.03	-0.18	-0.15	-0.13	-0.12	-0.08	2852	1.0
y_mean[864]	-0.63	8.5e-4	0.05	-0.73	-0.67	-0.63	-0.6	-0.54	3367	1.0
y_mean[865]	1.65	1.3e-3	0.09	1.47	1.59	1.65	1.71	1.82	4639	1.0
y_mean[866]	0.57	4.6e-4	0.03	0.51	0.55	0.57	0.59	0.63	4286	1.0
y_mean[867]	-0.49	4.0e-4	0.02	-0.53	-0.5	-0.49	-0.47	-0.44	2955	1.0
y_mean[868]	0.02	4.5e-4	0.03	-0.04	-1.6e-3	0.02	0.04	0.07	3729	1.0
y_mean[869]	1.56	9.6e-4	0.06	1.44	1.52	1.56	1.6	1.68	3909	1.0
y_mean[870]	-0.25	6.1e-4	0.04	-0.32	-0.27	-0.25	-0.22	-0.18	3528	1.0
y_mean[871]	-0.47	5.7e-4	0.03	-0.53	-0.49	-0.47	-0.45	-0.41	2978	1.0
y_mean[872]	0.67	5.6e-4	0.03	0.6	0.64	0.67	0.69	0.73	3696	1.0
y_mean[873]	-0.58	9.0e-4	0.05	-0.68	-0.62	-0.58	-0.55	-0.48	3237	1.0
y_mean[874]	0.99	9.2e-4	0.06	0.88	0.95	0.99	1.03	1.11	4392	1.0
y_mean[875]	1.5	6.9e-4	0.05	1.41	1.47	1.5	1.53	1.6	4563	1.0
y_mean[876]	-0.46	6.1e-4	0.03	-0.53	-0.48	-0.46	-0.44	-0.4	3007	1.0
y_mean[877]	-0.53	3.9e-4	0.02	-0.57	-0.54	-0.53	-0.51	-0.48	3154	1.0
y_mean[878]	-0.29	9.2e-4	0.05	-0.38	-0.32	-0.29	-0.26	-0.2	2524	1.0
y_mean[879]	-0.29	5.6e-4	0.03	-0.35	-0.31	-0.29	-0.27	-0.23	3299	1.0
y_mean[880]	0.13	5.7e-4	0.04	0.06	0.1	0.13	0.15	0.2	3886	1.0
y_mean[881]	-0.29	6.4e-4	0.04	-0.37	-0.32	-0.29	-0.27	-0.22	3381	1.0
y_mean[882]	-0.21	5.2e-4	0.03	-0.27	-0.23	-0.21	-0.19	-0.15	3090	1.0
y_mean[883]	2.36	9.3e-4	0.07	2.22	2.32	2.36	2.41	2.49	5482	1.0
y_mean[884]	-0.01	3.7e-4	0.02	-0.05	-0.03	-0.01	4.1e-3	0.03	3320	1.0
y_mean[885]	-0.48	4.5e-4	0.02	-0.52	-0.49	-0.48	-0.46	-0.43	2702	1.0
y_mean[886]	-0.39	5.4e-4	0.03	-0.45	-0.41	-0.39	-0.37	-0.33	2870	1.0
y_mean[887]	-0.73	5.5e-4	0.03	-0.8	-0.75	-0.73	-0.71	-0.66	3955	1.0
y_mean[888]	0.02	4.8e-4	0.03	-0.04	2.1e-3	0.02	0.04	0.08	3900	1.0
y_mean[889]	-0.44	5.2e-4	0.03	-0.5	-0.46	-0.44	-0.42	-0.38	3459	1.0
y_mean[890]	0.77	8.0e-4	0.05	0.67	0.73	0.77	0.8	0.86	3424	1.0
y_mean[891]	-0.57	6.8e-4	0.04	-0.65	-0.59	-0.57	-0.54	-0.49	3663	1.0
y_mean[892]	1.43	8.0e-4	0.05	1.33	1.39	1.43	1.47	1.53	4152	1.0
y_mean[893]	-0.41	5.2e-4	0.03	-0.46	-0.43	-0.41	-0.39	-0.36	2740	1.0
y_mean[894]	0.98	4.6e-4	0.03	0.93	0.96	0.98	1.0	1.04	3905	1.0
y_mean[895]	-0.13	4.1e-4	0.02	-0.18	-0.15	-0.13	-0.12	-0.09	3078	1.0
y_mean[896]	1.35	8.8e-4	0.06	1.23	1.31	1.35	1.38	1.46	4179	1.0
y_mean[897]	0.61	4.5e-4	0.03	0.55	0.59	0.61	0.63	0.67	4371	1.0
y_mean[898]	-0.5	4.0e-4	0.02	-0.54	-0.52	-0.5	-0.49	-0.46	2691	1.0

y_mean[899]	0.01	8.4e-4	0.04	-0.07	-0.02	0.01	0.04	0.1	2813	1.0
y_mean[900]	-0.53	3.8e-4	0.02	-0.57	-0.54	-0.53	-0.51	-0.48	3117	1.0
y_mean[901]	-0.43	5.7e-4	0.03	-0.49	-0.45	-0.43	-0.41	-0.37	2897	1.0
y_mean[902]	0.54	5.3e-4	0.04	0.46	0.51	0.54	0.56	0.61	5305	1.0
y_mean[903]	-0.6	5.7e-4	0.03	-0.67	-0.62	-0.6	-0.58	-0.53	3614	1.0
y_mean[904]	-0.1	4.1e-4	0.02	-0.14	-0.12	-0.1	-0.08	-0.05	3084	1.0
y_mean[905]	-0.6	4.9e-4	0.03	-0.66	-0.62	-0.6	-0.58	-0.54	3479	1.0
y_mean[906]	-0.27	5.8e-4	0.03	-0.34	-0.3	-0.27	-0.25	-0.21	3300	1.0
y_mean[907]	-0.61	6.9e-4	0.04	-0.69	-0.64	-0.61	-0.59	-0.53	3187	1.0
y_mean[908]	2.03	9.2e-4	0.06	1.9	1.99	2.03	2.07	2.16	4814	1.0
y_mean[909]	0.1	3.7e-4	0.02	0.06	0.09	0.1	0.12	0.15	3768	1.0
y_mean[910]	-0.6	9.6e-4	0.06	-0.71	-0.64	-0.6	-0.56	-0.49	3670	1.0
y_mean[911]	-0.18	4.5e-4	0.02	-0.23	-0.2	-0.18	-0.16	-0.13	3112	1.0
y_mean[912]	-0.02	4.3e-4	0.03	-0.07	-0.04	-0.02	-4.5e-3	0.03	3475	1.0
y_mean[913]	-0.2	6.7e-4	0.04	-0.27	-0.23	-0.2	-0.17	-0.13	3116	1.0
y_mean[914]	0.11	5.2e-4	0.03	0.05	0.09	0.11	0.13	0.16	3036	1.0
y_mean[915]	-0.2	8.5e-4	0.05	-0.29	-0.23	-0.2	-0.17	-0.11	2900	1.0
y_mean[916]	1.13	8.5e-4	0.06	1.02	1.09	1.13	1.17	1.24	4453	1.0
y_mean[917]	-0.74	5.9e-4	0.04	-0.81	-0.76	-0.74	-0.71	-0.67	3615	1.0
y_mean[918]	-0.19	4.6e-4	0.03	-0.24	-0.21	-0.19	-0.17	-0.14	3481	1.0
y_mean[919]	0.1	4.0e-4	0.02	0.06	0.09	0.1	0.12	0.15	3444	1.0
y_mean[920]	6.6e-3	4.5e-4	0.03	-0.05	-0.01	6.3e-3	0.02	0.06	3531	1.0
y_mean[921]	0.01	9.1e-4	0.05	-0.08	-0.02	0.01	0.04	0.11	2997	1.0
y_mean[922]	1.56	6.6e-4	0.04	1.47	1.53	1.56	1.59	1.65	4646	1.0
y_mean[923]	0.05	5.6e-4	0.03	-9.4e-3	0.03	0.05	0.07	0.11	3232	1.0
y_mean[924]	-0.25	6.1e-4	0.03	-0.32	-0.27	-0.25	-0.23	-0.18	3312	1.0
y_mean[925]	-0.29	6.6e-4	0.03	-0.36	-0.31	-0.29	-0.27	-0.22	2834	1.0
y_mean[926]	-0.46	4.4e-4	0.02	-0.51	-0.48	-0.46	-0.45	-0.42	2591	1.0
y_mean[927]	0.03	3.8e-4	0.02	-0.02	0.01	0.03	0.04	0.07	3571	1.0
y_mean[928]	0.78	5.8e-4	0.03	0.72	0.76	0.78	0.81	0.85	3517	1.0
y_mean[929]	-0.39	5.4e-4	0.03	-0.45	-0.41	-0.39	-0.37	-0.33	2855	1.0
y_mean[930]	1.29	8.6e-4	0.06	1.17	1.25	1.29	1.33	1.4	4541	1.0
y_mean[931]	-0.58	1.3e-3	0.08	-0.72	-0.63	-0.58	-0.52	-0.43	3443	1.0
y_mean[932]	0.3	5.4e-4	0.03	0.24	0.28	0.3	0.32	0.36	3701	1.0
y_mean[933]	2.12	6.9e-4	0.04	2.04	2.09	2.12	2.15	2.21	3854	1.0
y_mean[934]	1.19	7.7e-4	0.06	1.07	1.15	1.19	1.23	1.3	5992	1.0
y_mean[935]	4.03	2.1e-3	0.14	3.76	3.93	4.02	4.12	4.29	4282	1.0
y_mean[936]	-0.32	9.3e-4	0.05	-0.42	-0.35	-0.32	-0.28	-0.21	3236	1.0
y_mean[937]	-0.46	3.8e-4	0.02	-0.51	-0.48	-0.46	-0.45	-0.42	3580	1.0
y_mean[938]	1.02	5.1e-4	0.03	0.95	0.99	1.01	1.04	1.08	3893	1.0
y_mean[939]	-0.49	7.4e-4	0.04	-0.57	-0.52	-0.49	-0.46	-0.41	3030	1.0
y_mean[940]	0.03	4.5e-4	0.03	-0.02	0.01	0.03	0.05	0.08	3207	1.0
y_mean[941]	-0.49	1.1e-3	0.07	-0.62	-0.53	-0.49	-0.44	-0.35	3574	1.0
y_mean[942]	-0.26	4.6e-4	0.03	-0.32	-0.28	-0.26	-0.25	-0.21	3129	1.0
y_mean[943]	0.44	5.1e-4	0.03	0.38	0.42	0.44	0.46	0.5	3695	1.0
y_mean[944]	1.15	7.9e-4	0.05	1.04	1.11	1.15	1.18	1.25	4569	1.0
y_mean[945]	-0.39	3.3e-4	0.02	-0.43	-0.4	-0.39	-0.37	-0.35	3639	1.0
y_mean[946]	-0.38	5.7e-4	0.04	-0.45	-0.41	-0.38	-0.36	-0.31	3788	1.0

y_mean[947]	1.96	9.3e-4	0.06	1.84	1.91	1.96	1.99	2.07	4020	1.0
y_mean[948]	1.18	6.7e-4	0.05	1.09	1.15	1.18	1.21	1.27	4776	1.0
y_mean[949]	0.09	5.3e-4	0.03	0.02	0.07	0.09	0.11	0.15	3831	1.0
y_mean[950]	-0.12	5.5e-4	0.03	-0.19	-0.14	-0.12	-0.1	-0.06	3615	1.0
y_mean[951]	0.12	5.7e-4	0.04	0.06	0.1	0.12	0.15	0.19	3829	1.0
y_mean[952]	-0.02	5.0e-4	0.03	-0.09	-0.05	-0.02	-1.3e-3	0.04	4437	1.0
y_mean[953]	-0.45	5.1e-4	0.03	-0.51	-0.47	-0.45	-0.43	-0.4	3289	1.0
y_mean[954]	-0.56	4.1e-4	0.02	-0.6	-0.57	-0.56	-0.54	-0.51	3240	1.0
y_mean[955]	-0.75	6.3e-4	0.04	-0.82	-0.77	-0.75	-0.72	-0.67	3629	1.0
y_mean[956]	-0.55	4.5e-4	0.03	-0.6	-0.57	-0.55	-0.53	-0.5	3249	1.0
y_mean[957]	-0.57	5.2e-4	0.03	-0.63	-0.59	-0.57	-0.55	-0.51	3575	1.0
y_mean[958]	1.25	8.8e-4	0.06	1.13	1.21	1.25	1.29	1.36	4466	1.0
y_mean[959]	0.25	8.6e-4	0.05	0.15	0.21	0.25	0.28	0.34	3314	1.0
y_mean[960]	-0.33	3.9e-4	0.02	-0.37	-0.34	-0.33	-0.31	-0.28	3730	1.0
y_mean[961]	-0.45	4.6e-4	0.03	-0.5	-0.47	-0.45	-0.44	-0.4	3139	1.0
y_mean[962]	-0.7	7.8e-4	0.04	-0.79	-0.73	-0.7	-0.67	-0.62	3152	1.0
y_mean[963]	-0.36	4.3e-4	0.02	-0.41	-0.38	-0.36	-0.35	-0.32	3160	1.0
y_mean[964]	-0.27	6.6e-4	0.04	-0.35	-0.3	-0.27	-0.25	-0.2	3381	1.0
y_mean[965]	-0.47	6.3e-4	0.04	-0.54	-0.5	-0.47	-0.45	-0.41	3106	1.0
y_mean[966]	-0.43	4.5e-4	0.03	-0.48	-0.45	-0.43	-0.41	-0.38	3405	1.0
y_mean[967]	-0.18	4.3e-4	0.02	-0.22	-0.19	-0.18	-0.16	-0.13	3176	1.0
y_mean[968]	2.12	1.1e-3	0.08	1.97	2.07	2.12	2.18	2.28	4795	1.0
y_mean[969]	-0.68	5.9e-4	0.03	-0.75	-0.7	-0.68	-0.66	-0.61	3392	1.0
y_mean[970]	-0.18	6.4e-4	0.04	-0.25	-0.21	-0.18	-0.16	-0.12	2993	1.0
y_mean[971]	-0.49	4.3e-4	0.03	-0.54	-0.51	-0.49	-0.47	-0.44	3617	1.0
y_mean[972]	0.03	6.0e-4	0.03	-0.03	3.9e-3	0.03	0.05	0.09	2837	1.0
y_mean[973]	-0.68	7.0e-4	0.04	-0.76	-0.71	-0.68	-0.65	-0.6	3606	1.0
y_mean[974]	-0.59	5.5e-4	0.03	-0.65	-0.61	-0.59	-0.57	-0.52	3557	1.0
y_mean[975]	-0.23	5.0e-4	0.03	-0.28	-0.25	-0.23	-0.21	-0.18	3045	1.0
y_mean[976]	-0.39	6.0e-4	0.04	-0.46	-0.42	-0.39	-0.37	-0.32	3474	1.0
y_mean[977]	-0.42	5.0e-4	0.03	-0.47	-0.43	-0.42	-0.4	-0.36	2741	1.0
y_mean[978]	-0.1	4.2e-4	0.02	-0.14	-0.12	-0.1	-0.08	-0.05	2975	1.0
y_mean[979]	-0.15	4.2e-4	0.02	-0.19	-0.16	-0.15	-0.13	-0.1	3101	1.0
y_mean[980]	-0.35	4.0e-4	0.03	-0.4	-0.37	-0.35	-0.34	-0.3	4006	1.0
y_mean[981]	-0.51	4.1e-4	0.02	-0.56	-0.53	-0.51	-0.5	-0.47	2913	1.0
y_mean[982]	1.36	6.8e-4	0.04	1.27	1.33	1.36	1.39	1.45	4303	1.0
y_mean[983]	0.23	7.7e-4	0.05	0.14	0.2	0.23	0.27	0.33	4302	1.0
y_mean[984]	-0.38	3.9e-4	0.02	-0.43	-0.4	-0.39	-0.37	-0.34	3202	1.0
y_mean[985]	-0.76	6.0e-4	0.04	-0.83	-0.78	-0.76	-0.74	-0.69	3642	1.0
y_mean[986]	-7.3e-3	8.2e-4	0.04	-0.09	-0.04	-7.1e-3	0.02	0.08	2760	1.0
y_mean[987]	-0.09	3.5e-4	0.02	-0.13	-0.1	-0.09	-0.07	-0.04	4069	1.0
y_mean[988]	-0.39	5.4e-4	0.03	-0.44	-0.41	-0.39	-0.37	-0.33	2891	1.0
y_mean[989]	-0.03	4.3e-4	0.02	-0.08	-0.05	-0.03	-0.01	0.02	3340	1.0
y_mean[990]	4.39	2.0e-3	0.14	4.1	4.29	4.39	4.49	4.66	5238	1.0
y_mean[991]	-0.57	4.3e-4	0.02	-0.62	-0.59	-0.57	-0.56	-0.52	3405	1.0
y_mean[992]	-0.43	5.7e-4	0.03	-0.49	-0.46	-0.43	-0.41	-0.37	2916	1.0
y_mean[993]	-0.04	5.9e-4	0.04	-0.11	-0.06	-0.04	-0.01	0.03	3607	1.0
y_mean[994]	0.07	3.9e-4	0.02	0.03	0.06	0.07	0.09	0.12	3734	1.0

y_mean[995]	-0.56	4.6e-4	0.03	-0.61	-0.57	-0.56	-0.54	-0.5	3316	1.0
y_mean[996]	-0.73	5.3e-4	0.03	-0.79	-0.75	-0.73	-0.7	-0.66	3715	1.0
y_mean[997]	-0.4	5.1e-4	0.03	-0.46	-0.42	-0.4	-0.38	-0.35	2916	1.0
y_mean[998]	0.33	7.3e-4	0.04	0.26	0.31	0.33	0.36	0.41	2971	1.0
y_mean[999]	-0.51	4.3e-4	0.03	-0.56	-0.53	-0.51	-0.5	-0.46	3398	1.0
y_mean[1000]	-0.59	4.8e-4	0.03	-0.65	-0.61	-0.59	-0.58	-0.54	3472	1.0
y_mean[1001]	-0.41	5.6e-4	0.03	-0.47	-0.43	-0.41	-0.39	-0.35	3107	1.0
y_mean[1002]	-0.64	9.8e-4	0.06	-0.75	-0.68	-0.64	-0.6	-0.53	3369	1.0
y_mean[1003]	0.73	5.9e-4	0.04	0.65	0.7	0.73	0.75	0.8	4190	1.0
y_mean[1004]	0.9	8.1e-4	0.05	0.81	0.87	0.9	0.93	0.99	3082	1.0
y_mean[1005]	-0.49	4.0e-4	0.02	-0.54	-0.51	-0.49	-0.48	-0.45	2972	1.0
y_mean[1006]	0.61	6.4e-4	0.04	0.53	0.58	0.61	0.64	0.69	4111	1.0
y_mean[1007]	1.31	6.0e-4	0.04	1.23	1.28	1.31	1.34	1.39	4863	1.0
y_mean[1008]	-0.16	4.2e-4	0.02	-0.21	-0.18	-0.16	-0.14	-0.11	3139	1.0
y_mean[1009]	-0.24	5.8e-4	0.03	-0.3	-0.26	-0.24	-0.22	-0.18	2741	1.0
y_mean[1010]	-0.13	4.1e-4	0.02	-0.18	-0.15	-0.13	-0.12	-0.09	3207	1.0
y_mean[1011]	-0.38	3.2e-4	0.02	-0.41	-0.39	-0.38	-0.36	-0.34	3935	1.0
y_mean[1012]	-0.45	3.1e-4	0.02	-0.49	-0.46	-0.45	-0.43	-0.41	3743	1.0
y_mean[1013]	-0.79	6.7e-4	0.04	-0.87	-0.82	-0.79	-0.76	-0.71	3601	1.0
y_mean[1014]	0.09	5.3e-4	0.03	0.03	0.07	0.09	0.11	0.15	3669	1.0
y_mean[1015]	0.01	6.2e-4	0.04	-0.06	-9.8e-3	0.02	0.04	0.09	3510	1.0
y_mean[1016]	-0.16	5.4e-4	0.03	-0.22	-0.18	-0.16	-0.14	-0.1	3365	1.0
y_mean[1017]	-0.38	4.4e-4	0.03	-0.43	-0.39	-0.38	-0.36	-0.33	3284	1.0
y_mean[1018]	-0.42	4.0e-4	0.02	-0.46	-0.43	-0.42	-0.4	-0.38	3195	1.0
y_mean[1019]	-0.44	3.2e-4	0.02	-0.48	-0.46	-0.44	-0.43	-0.4	3773	1.0
y_mean[1020]	-0.11	4.1e-4	0.02	-0.16	-0.13	-0.11	-0.1	-0.07	3071	1.0
y_mean[1021]	0.49	4.5e-4	0.03	0.43	0.47	0.49	0.51	0.55	3955	1.0
y_mean[1022]	3.09	1.6e-3	0.11	2.88	3.02	3.09	3.16	3.3	4701	1.0
y_mean[1023]	-0.56	4.0e-4	0.02	-0.6	-0.57	-0.56	-0.54	-0.51	3272	1.0
y_mean[1024]	0.15	6.8e-4	0.04	0.08	0.12	0.15	0.17	0.22	2730	1.0
y_mean[1025]	-0.43	5.9e-4	0.03	-0.49	-0.45	-0.43	-0.41	-0.37	2974	1.0
y_mean[1026]	0.08	5.6e-4	0.03	0.02	0.06	0.08	0.1	0.14	2927	1.0
y_mean[1027]	-0.13	4.1e-4	0.02	-0.18	-0.15	-0.13	-0.12	-0.09	3153	1.0
y_mean[1028]	-0.1	6.7e-4	0.04	-0.17	-0.12	-0.1	-0.07	-0.02	3044	1.0
y_mean[1029]	-0.28	6.6e-4	0.04	-0.36	-0.31	-0.28	-0.26	-0.21	3397	1.0
y_mean[1030]	-0.52	4.8e-4	0.03	-0.57	-0.54	-0.52	-0.5	-0.46	3398	1.0
y_mean[1031]	-0.18	4.7e-4	0.03	-0.24	-0.2	-0.18	-0.16	-0.13	3703	1.0
y_mean[1032]	0.25	4.7e-4	0.03	0.19	0.23	0.25	0.27	0.31	4059	1.0
y_mean[1033]	0.28	6.5e-4	0.04	0.21	0.25	0.28	0.31	0.36	3750	1.0
y_mean[1034]	-0.7	7.1e-4	0.04	-0.78	-0.73	-0.7	-0.67	-0.62	3535	1.0
y_mean[1035]	-0.64	7.9e-4	0.04	-0.72	-0.67	-0.64	-0.61	-0.56	2921	1.0
y_mean[1036]	-0.12	4.1e-4	0.02	-0.16	-0.13	-0.12	-0.1	-0.07	3071	1.0
y_mean[1037]	-0.44	3.4e-4	0.02	-0.48	-0.45	-0.44	-0.43	-0.4	3491	1.0
y_mean[1038]	-0.48	5.9e-4	0.04	-0.54	-0.5	-0.47	-0.45	-0.41	3560	1.0
y_mean[1039]	5.4	2.3e-3	0.15	5.1	5.29	5.4	5.5	5.69	4438	1.0
y_mean[1040]	9.0e-3	4.5e-4	0.03	-0.04	-0.01	8.6e-3	0.03	0.06	3740	1.0
y_mean[1041]	-0.62	5.6e-4	0.03	-0.69	-0.64	-0.62	-0.6	-0.55	3508	1.0
y_mean[1042]	-0.19	4.5e-4	0.03	-0.24	-0.21	-0.19	-0.18	-0.14	3294	1.0

y_mean[1043]	0.12	3.7e-4	0.02	0.08	0.11	0.12	0.14	0.17	3736	1.0
y_mean[1044]	1.46	1.3e-3	0.07	1.32	1.41	1.46	1.51	1.61	3328	1.0
y_mean[1045]	-0.54	6.1e-4	0.04	-0.61	-0.57	-0.54	-0.52	-0.47	3505	1.0
y_mean[1046]	-0.46	3.3e-4	0.02	-0.5	-0.47	-0.46	-0.44	-0.42	3710	1.0
y_mean[1047]	-0.06	4.2e-4	0.02	-0.1	-0.07	-0.06	-0.04	-8.2e-3	3259	1.0
y_mean[1048]	0.59	8.9e-4	0.06	0.47	0.54	0.59	0.63	0.71	4878	1.0
y_mean[1049]	-0.22	8.7e-4	0.04	-0.31	-0.25	-0.22	-0.19	-0.14	2534	1.0
y_mean[1050]	-0.59	4.9e-4	0.03	-0.64	-0.61	-0.59	-0.57	-0.53	3471	1.0
y_mean[1051]	-0.52	3.8e-4	0.02	-0.56	-0.53	-0.52	-0.5	-0.48	3074	1.0
y_mean[1052]	1.06	1.0e-3	0.06	0.93	1.01	1.06	1.1	1.18	3840	1.0
y_mean[1053]	-0.65	6.2e-4	0.04	-0.72	-0.67	-0.65	-0.62	-0.58	3378	1.0
y_mean[1054]	1.38	6.4e-4	0.04	1.29	1.35	1.38	1.4	1.46	4402	1.0
y_mean[1055]	-0.45	4.4e-4	0.03	-0.5	-0.47	-0.45	-0.44	-0.4	3418	1.0
y_mean[1056]	-0.28	6.4e-4	0.03	-0.34	-0.3	-0.28	-0.26	-0.22	2619	1.0
y_mean[1057]	0.49	4.5e-4	0.03	0.43	0.47	0.49	0.51	0.55	3952	1.0
y_mean[1058]	1.33	6.3e-4	0.04	1.25	1.3	1.33	1.36	1.42	4610	1.0
y_mean[1059]	-0.09	4.6e-4	0.02	-0.14	-0.11	-0.09	-0.08	-0.05	2866	1.0
y_mean[1060]	-0.11	4.1e-4	0.02	-0.16	-0.13	-0.11	-0.1	-0.07	3338	1.0
y_mean[1061]	-0.52	3.8e-4	0.02	-0.56	-0.53	-0.52	-0.51	-0.48	2876	1.0
y_mean[1062]	-0.34	4.4e-4	0.02	-0.39	-0.36	-0.34	-0.33	-0.29	3100	1.0
y_mean[1063]	-0.48	3.0e-4	0.02	-0.51	-0.49	-0.48	-0.46	-0.44	3920	1.0
y_mean[1064]	-0.72	6.0e-4	0.04	-0.79	-0.74	-0.72	-0.7	-0.65	3586	1.0
y_mean[1065]	-0.51	3.9e-4	0.02	-0.55	-0.52	-0.51	-0.49	-0.47	3025	1.0
y_mean[1066]	-0.74	6.0e-4	0.04	-0.81	-0.76	-0.74	-0.71	-0.67	3618	1.0
y_mean[1067]	-0.56	4.5e-4	0.03	-0.62	-0.58	-0.56	-0.55	-0.51	3731	1.0
y_mean[1068]	-0.54	3.8e-4	0.02	-0.58	-0.55	-0.54	-0.52	-0.5	3106	1.0
y_mean[1069]	-0.18	7.7e-4	0.05	-0.27	-0.21	-0.18	-0.15	-0.09	3744	1.0
y_mean[1070]	-0.71	6.5e-4	0.04	-0.79	-0.74	-0.71	-0.68	-0.63	3843	1.0
y_mean[1071]	3.56	1.2e-3	0.08	3.41	3.51	3.56	3.61	3.71	4147	1.0
y_mean[1072]	-0.39	8.3e-4	0.04	-0.47	-0.42	-0.39	-0.36	-0.31	2421	1.0
y_mean[1073]	-0.46	5.8e-4	0.04	-0.53	-0.49	-0.46	-0.44	-0.39	3817	1.0
y_mean[1074]	-0.44	2.9e-4	0.02	-0.47	-0.45	-0.44	-0.42	-0.4	3895	1.0
y_mean[1075]	0.52	4.4e-4	0.03	0.46	0.5	0.52	0.54	0.57	4035	1.0
y_mean[1076]	-0.45	4.7e-4	0.02	-0.5	-0.46	-0.45	-0.43	-0.4	2594	1.0
y_mean[1077]	-0.07	4.6e-4	0.03	-0.13	-0.09	-0.07	-0.05	-0.01	4163	1.0
y_mean[1078]	0.74	8.2e-4	0.05	0.64	0.7	0.74	0.77	0.83	3534	1.0
y_mean[1079]	-0.06	4.2e-4	0.02	-0.11	-0.08	-0.06	-0.04	-0.01	3481	1.0
y_mean[1080]	-0.28	6.4e-4	0.03	-0.34	-0.3	-0.28	-0.26	-0.22	2669	1.0
y_mean[1081]	-0.58	8.6e-4	0.05	-0.68	-0.61	-0.58	-0.55	-0.49	3235	1.0
y_mean[1082]	-0.08	4.3e-4	0.02	-0.13	-0.1	-0.08	-0.06	-0.03	3036	1.0
y_mean[1083]	-0.68	6.6e-4	0.04	-0.76	-0.71	-0.68	-0.65	-0.6	3609	1.0
y_mean[1084]	0.32	6.4e-4	0.04	0.24	0.29	0.32	0.34	0.4	3969	1.0
y_mean[1085]	0.7	5.7e-4	0.04	0.63	0.67	0.7	0.72	0.77	3872	1.0
y_mean[1086]	-0.05	4.3e-4	0.02	-0.09	-0.06	-0.05	-0.03	2.9e-3	3265	1.0
y_mean[1087]	1.4	7.7e-4	0.05	1.3	1.37	1.4	1.43	1.49	3843	1.0
y_mean[1088]	0.64	4.7e-4	0.03	0.57	0.61	0.64	0.66	0.7	4261	1.0
y_mean[1089]	-0.1	4.2e-4	0.02	-0.14	-0.12	-0.1	-0.09	-0.06	3071	1.0
y_mean[1090]	-0.13	4.5e-4	0.03	-0.19	-0.15	-0.13	-0.11	-0.08	3846	1.0

y_mean[1091]	-0.15	7.1e-4	0.04	-0.22	-0.17	-0.15	-0.12	-0.07	2742	1.0
y_mean[1092]	-0.37	5.6e-4	0.03	-0.43	-0.39	-0.37	-0.35	-0.31	3033	1.0
y_mean[1093]	-0.7	5.0e-4	0.03	-0.76	-0.72	-0.7	-0.68	-0.64	3977	1.0
y_mean[1094]	-0.11	3.5e-4	0.02	-0.15	-0.12	-0.11	-0.09	-0.06	3947	1.0
y_mean[1095]	0.17	4.4e-4	0.03	0.12	0.15	0.17	0.18	0.22	3447	1.0
y_mean[1096]	0.25	5.9e-4	0.03	0.18	0.22	0.25	0.27	0.31	3136	1.0
y_mean[1097]	-0.06	8.1e-4	0.04	-0.14	-0.09	-0.06	-0.03	0.02	2672	1.0
y_mean[1098]	0.52	4.4e-4	0.03	0.47	0.5	0.52	0.54	0.58	4118	1.0
y_mean[1099]	-0.52	4.0e-4	0.02	-0.56	-0.54	-0.52	-0.51	-0.48	2962	1.0
y_mean[1100]	-0.4	5.3e-4	0.03	-0.46	-0.42	-0.4	-0.38	-0.35	3056	1.0
y_mean[1101]	-0.68	5.9e-4	0.04	-0.75	-0.7	-0.68	-0.65	-0.6	3758	1.0
y_mean[1102]	-0.51	5.6e-4	0.03	-0.58	-0.54	-0.51	-0.49	-0.45	3223	1.0
y_mean[1103]	-0.03	4.3e-4	0.03	-0.08	-0.05	-0.03	-0.01	0.02	3332	1.0
y_mean[1104]	-0.63	7.6e-4	0.04	-0.72	-0.66	-0.63	-0.6	-0.55	3317	1.0
y_mean[1105]	-0.06	4.2e-4	0.02	-0.11	-0.08	-0.06	-0.05	-0.02	3210	1.0
y_mean[1106]	-0.37	1.2e-3	0.06	-0.49	-0.41	-0.37	-0.33	-0.25	2486	1.0
y_mean[1107]	-0.21	4.6e-4	0.03	-0.26	-0.22	-0.21	-0.19	-0.15	3290	1.0
y_mean[1108]	1.47	7.7e-4	0.05	1.37	1.43	1.47	1.5	1.56	4112	1.0
y_mean[1109]	-0.19	5.2e-4	0.03	-0.24	-0.2	-0.19	-0.17	-0.13	3037	1.0
y_mean[1110]	-0.62	5.4e-4	0.03	-0.68	-0.64	-0.62	-0.59	-0.55	3504	1.0
y_mean[1111]	1.47	8.5e-4	0.05	1.37	1.44	1.47	1.51	1.57	3477	1.0
y_mean[1112]	0.86	1.3e-3	0.08	0.69	0.8	0.86	0.91	1.02	4424	1.0
y_mean[1113]	2.09	7.2e-4	0.05	1.99	2.06	2.09	2.13	2.19	5121	1.0
y_mean[1114]	-0.45	4.4e-4	0.02	-0.5	-0.47	-0.45	-0.44	-0.4	2962	1.0
y_mean[1115]	-0.45	6.5e-4	0.04	-0.52	-0.47	-0.45	-0.42	-0.38	3058	1.0
y_mean[1116]	-0.42	4.9e-4	0.03	-0.47	-0.44	-0.42	-0.4	-0.36	3017	1.0
y_mean[1117]	0.06	7.0e-4	0.05	-0.03	0.03	0.06	0.1	0.16	5177	1.0
y_mean[1118]	0.09	5.4e-4	0.03	0.02	0.07	0.09	0.11	0.15	3843	1.0
y_mean[1119]	-0.16	4.4e-4	0.03	-0.21	-0.18	-0.16	-0.15	-0.11	3515	1.0
y_mean[1120]	-0.28	7.7e-4	0.04	-0.36	-0.3	-0.28	-0.25	-0.19	3333	1.0
y_mean[1121]	0.1	6.3e-4	0.04	0.03	0.08	0.1	0.13	0.18	3437	1.0
y_mean[1122]	-0.67	1.1e-3	0.07	-0.8	-0.71	-0.67	-0.62	-0.54	3670	1.0
y_mean[1123]	0.58	7.1e-4	0.04	0.49	0.55	0.58	0.61	0.67	3772	1.0
y_mean[1124]	0.34	7.3e-4	0.04	0.26	0.31	0.34	0.37	0.42	2953	1.0
y_mean[1125]	-0.53	4.0e-4	0.02	-0.58	-0.55	-0.53	-0.52	-0.49	3054	1.0
y_mean[1126]	-0.73	5.7e-4	0.03	-0.8	-0.76	-0.73	-0.71	-0.67	3609	1.0
y_mean[1127]	0.39	5.0e-4	0.03	0.33	0.37	0.39	0.42	0.45	3988	1.0
y_mean[1128]	-0.47	3.7e-4	0.02	-0.52	-0.49	-0.47	-0.45	-0.43	3698	1.0
y_mean[1129]	-0.1	4.5e-4	0.03	-0.15	-0.12	-0.1	-0.08	-0.04	4007	1.0
y_mean[1130]	0.02	4.2e-4	0.03	-0.03	2.8e-3	0.02	0.04	0.07	3633	1.0
y_mean[1131]	-0.31	6.0e-4	0.03	-0.37	-0.33	-0.31	-0.29	-0.24	2724	1.0
y_mean[1132]	-0.08	4.6e-4	0.02	-0.12	-0.09	-0.08	-0.06	-0.03	2939	1.0
y_mean[1133]	-0.15	4.2e-4	0.02	-0.19	-0.16	-0.15	-0.13	-0.1	3140	1.0
y_mean[1134]	-0.49	4.0e-4	0.02	-0.53	-0.5	-0.49	-0.48	-0.45	2809	1.0
y_mean[1135]	0.63	4.8e-4	0.03	0.57	0.61	0.64	0.66	0.7	4369	1.0
y_mean[1136]	-0.43	4.6e-4	0.03	-0.49	-0.45	-0.43	-0.42	-0.38	3769	1.0
y_mean[1137]	-0.61	5.2e-4	0.03	-0.67	-0.63	-0.61	-0.59	-0.55	3496	1.0
y_mean[1138]	-0.07	4.9e-4	0.03	-0.12	-0.09	-0.07	-0.05	-0.01	3090	1.0

y_mean[1139]	-0.77	6.4e-4	0.04	-0.85	-0.8	-0.77	-0.75	-0.7	3626	1.0
y_mean[1140]	-0.08	3.3e-4	0.02	-0.12	-0.1	-0.08	-0.07	-0.04	3866	1.0
y_mean[1141]	1.24	6.1e-4	0.04	1.15	1.21	1.24	1.27	1.32	4974	1.0
y_mean[1142]	-0.45	4.5e-4	0.02	-0.49	-0.46	-0.45	-0.43	-0.4	2959	1.0
y_mean[1143]	-0.57	4.8e-4	0.03	-0.62	-0.59	-0.57	-0.55	-0.51	3419	1.0
y_mean[1144]	0.02	4.7e-4	0.03	-0.03	4.2e-3	0.02	0.04	0.08	3752	1.0
y_mean[1145]	-0.57	4.3e-4	0.03	-0.62	-0.59	-0.57	-0.56	-0.52	3700	1.0
y_mean[1146]	-0.67	6.7e-4	0.04	-0.74	-0.69	-0.67	-0.64	-0.59	3492	1.0
y_mean[1147]	-0.4	5.5e-4	0.03	-0.46	-0.42	-0.4	-0.38	-0.35	2844	1.0
y_mean[1148]	-0.33	5.9e-4	0.03	-0.4	-0.36	-0.33	-0.31	-0.27	3243	1.0
y_mean[1149]	0.41	5.4e-4	0.03	0.35	0.39	0.41	0.43	0.48	3587	1.0
y_mean[1150]	0.35	1.3e-3	0.08	0.2	0.3	0.35	0.4	0.5	3521	1.0
y_mean[1151]	-0.01	3.2e-4	0.02	-0.05	-0.03	-0.01	2.8e-6	0.03	3942	1.0
y_mean[1152]	-0.51	3.7e-4	0.02	-0.55	-0.52	-0.51	-0.49	-0.46	3748	1.0
y_mean[1153]	0.02	3.5e-4	0.02	-0.02	4.0e-3	0.02	0.03	0.06	3633	1.0
y_mean[1154]	-0.16	4.7e-4	0.03	-0.21	-0.18	-0.16	-0.14	-0.1	3614	1.0
y_mean[1155]	0.63	8.5e-4	0.06	0.52	0.59	0.63	0.67	0.74	4537	1.0
y_mean[1156]	0.14	3.7e-4	0.02	0.1	0.12	0.14	0.15	0.18	3839	1.0
y_mean[1157]	-0.57	6.2e-4	0.04	-0.64	-0.59	-0.57	-0.54	-0.49	3539	1.0
y_mean[1158]	0.11	6.4e-4	0.03	0.05	0.09	0.11	0.13	0.18	2814	1.0
y_mean[1159]	4.35	1.9e-3	0.14	4.08	4.25	4.35	4.44	4.61	5095	1.0
y_mean[1160]	-0.18	7.7e-4	0.04	-0.27	-0.22	-0.19	-0.16	-0.1	3244	1.0
y_mean[1161]	-0.7	6.0e-4	0.04	-0.77	-0.72	-0.7	-0.67	-0.63	3738	1.0
y_mean[1162]	0.23	8.3e-4	0.04	0.15	0.2	0.23	0.26	0.32	2628	1.0
y_mean[1163]	-0.65	7.0e-4	0.04	-0.73	-0.68	-0.65	-0.62	-0.57	3396	1.0
y_mean[1164]	-0.16	5.2e-4	0.03	-0.21	-0.18	-0.16	-0.14	-0.1	3277	1.0
y_mean[1165]	0.53	4.3e-4	0.03	0.47	0.51	0.53	0.54	0.58	4069	1.0
y_mean[1166]	-0.28	7.4e-4	0.04	-0.37	-0.31	-0.28	-0.25	-0.19	3486	1.0
y_mean[1167]	-0.15	4.3e-4	0.03	-0.2	-0.17	-0.15	-0.14	-0.1	3556	1.0
y_mean[1168]	-0.41	6.7e-4	0.04	-0.48	-0.44	-0.41	-0.39	-0.34	2805	1.0
y_mean[1169]	-0.51	4.6e-4	0.03	-0.56	-0.53	-0.52	-0.5	-0.47	3023	1.0
y_mean[1170]	-0.46	3.7e-4	0.02	-0.5	-0.48	-0.46	-0.45	-0.42	3442	1.0
y_mean[1171]	-0.31	7.3e-4	0.04	-0.39	-0.34	-0.31	-0.28	-0.23	3426	1.0
y_mean[1172]	0.14	6.0e-4	0.04	0.06	0.11	0.13	0.16	0.21	4259	1.0
y_mean[1173]	3.07	1.5e-3	0.1	2.88	3.0	3.07	3.13	3.26	4236	1.0
y_mean[1174]	-0.27	6.9e-4	0.04	-0.35	-0.3	-0.27	-0.25	-0.19	3505	1.0
y_mean[1175]	0.43	5.3e-4	0.03	0.37	0.41	0.43	0.46	0.5	4331	1.0
y_mean[1176]	-0.12	4.3e-4	0.02	-0.17	-0.14	-0.12	-0.11	-0.07	2915	1.0
y_mean[1177]	-0.72	5.3e-4	0.03	-0.79	-0.74	-0.72	-0.7	-0.66	3890	1.0
y_mean[1178]	-0.52	4.5e-4	0.02	-0.57	-0.53	-0.52	-0.5	-0.47	3020	1.0
y_mean[1179]	-0.4	5.0e-4	0.03	-0.46	-0.42	-0.4	-0.39	-0.35	3068	1.0
y_mean[1180]	-0.43	5.1e-4	0.03	-0.48	-0.45	-0.43	-0.41	-0.38	2686	1.0
y_mean[1181]	-0.36	4.4e-4	0.02	-0.41	-0.37	-0.36	-0.34	-0.31	2962	1.0
y_mean[1182]	-0.14	4.2e-4	0.02	-0.18	-0.15	-0.14	-0.12	-0.09	3084	1.0
y_mean[1183]	0.6	6.3e-4	0.04	0.52	0.57	0.6	0.62	0.67	3954	1.0
y_mean[1184]	-0.28	4.0e-4	0.02	-0.33	-0.3	-0.28	-0.27	-0.24	3521	1.0
y_mean[1185]	-0.47	4.2e-4	0.02	-0.51	-0.48	-0.47	-0.45	-0.42	2724	1.0
y_mean[1186]	-0.64	6.1e-4	0.04	-0.71	-0.66	-0.64	-0.62	-0.57	3372	1.0

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y_mean[1187]      1.96  1.9e-3  0.13   1.71   1.88   1.96   2.05   2.21  4214  1.0
y_mean[1188]      1.61  6.2e-4  0.04   1.52   1.58   1.61   1.64   1.69  5171  1.0
y_mean[1189]      0.39  8.9e-4  0.05   0.29   0.36   0.39   0.43    0.5  3739  1.0
y_mean[1190]     -0.54  4.8e-4  0.03   -0.6  -0.56  -0.54  -0.52  -0.49  3275  1.0
y_mean[1191]      0.58  4.5e-4  0.03   0.52   0.56   0.58    0.6   0.64  4247  1.0
y_mean[1192]     -0.23  6.5e-4  0.04  -0.31  -0.26  -0.23  -0.21  -0.16  3463  1.0
y_mean[1193]     -0.61  5.1e-4  0.03  -0.66  -0.63  -0.61  -0.59  -0.55  3492  1.0
y_mean[1194]     -0.09  9.0e-4  0.05  -0.19  -0.13  -0.09  -0.06 2.8e-3  3022  1.0
y_mean[1195]     -0.53  3.9e-4  0.02  -0.57  -0.54  -0.53  -0.52  -0.49  3027  1.0
y_mean[1196]      0.55  4.3e-4  0.03   0.49   0.53   0.55   0.57   0.61  4352  1.0
y_mean[1197]      -0.4  3.6e-4  0.02  -0.44  -0.41   -0.4  -0.39  -0.36  3325  1.0
y_mean[1198]     -0.48  4.1e-4  0.02  -0.52  -0.49  -0.48  -0.47  -0.44  2649  1.0
y_mean[1199]     -0.61  8.9e-4  0.05   -0.7  -0.64  -0.61  -0.58  -0.51  2838  1.0
y_mean[1200]      1.61  1.5e-3  0.11   1.41   1.54   1.61   1.68   1.82  4631  1.0
y_mean[1201]     -0.82  7.9e-4  0.05  -0.92  -0.85  -0.82  -0.79  -0.73  3506  1.0
y_mean[1202]     -0.07  4.7e-4  0.03  -0.12  -0.09  -0.07  -0.05  -0.02  3012  1.0
y_mean[1203]     -0.14  4.6e-4  0.03  -0.19  -0.16  -0.14  -0.12  -0.09  3614  1.0
y_mean[1204]      0.95  9.0e-4  0.06   0.83    0.9   0.95   0.98   1.06  4380  1.0
y_mean[1205]      0.13  3.8e-4  0.02   0.09   0.12   0.13   0.15   0.18  3626  1.0
y_mean[1206]     -0.17  4.8e-4  0.03  -0.22  -0.19  -0.17  -0.16  -0.12  2995  1.0
y_mean[1207]     -0.46  8.8e-4  0.05  -0.56  -0.49  -0.46  -0.43  -0.36  3246  1.0
y_mean[1208]     -0.44  5.0e-4  0.03  -0.49  -0.46  -0.44  -0.42  -0.39  2666  1.0
y_mean[1209]     -0.53  4.5e-4  0.02  -0.57  -0.54  -0.53  -0.51  -0.48  3074  1.0
y_mean[1210]      0.29  4.4e-4  0.03   0.23   0.27   0.29   0.31   0.34  3977  1.0
y_mean[1211]     -0.71  5.3e-4  0.03  -0.77  -0.73  -0.71  -0.68  -0.64  3651  1.0
y_mean[1212]     -0.48  3.9e-4  0.02  -0.52  -0.49  -0.48  -0.46  -0.43  3580  1.0
y_mean[1213]      -0.6  8.6e-4  0.05  -0.69  -0.63   -0.6  -0.56   -0.5  2809  1.0
y_mean[1214]     -0.26  6.7e-4  0.04  -0.34  -0.28  -0.26  -0.23  -0.18  3612  1.0
y_mean[1215]     -0.32  7.9e-4  0.04   -0.4  -0.35  -0.32  -0.29  -0.24  2550  1.0
y_mean[1216]     -0.53  4.1e-4  0.02  -0.57  -0.54  -0.53  -0.52  -0.49  3031  1.0
y_mean[1217]     -0.13  8.3e-4  0.05  -0.23  -0.16  -0.13  -0.09  -0.03  3873  1.0
y_mean[1218]      0.19  6.0e-4  0.03   0.13   0.17   0.19   0.21   0.26  3185  1.0
y_mean[1219]      1.12  8.5e-4  0.06   1.01   1.09   1.12   1.16   1.24  4482  1.0
y_mean[1220]      0.47  4.8e-4  0.03   0.41   0.45   0.47   0.49   0.53  4042  1.0
y_mean[1221]      0.65  7.7e-4  0.05   0.55   0.62   0.65   0.68   0.75  4539  1.0
y_mean[1222]     -0.16  4.2e-4  0.02   -0.2  -0.17  -0.16  -0.14  -0.11  3124  1.0
y_mean[1223]     -0.58  4.5e-4  0.03  -0.63   -0.6  -0.58  -0.56  -0.53  3442  1.0
y_mean[1224]     -0.37  5.3e-4  0.03  -0.43  -0.39  -0.37  -0.35  -0.31  3593  1.0
y_mean[1225]     -0.18  4.4e-4  0.02  -0.23   -0.2  -0.18  -0.16  -0.13  3117  1.0
y_mean[1226]      0.28  4.7e-4  0.03   0.22   0.26   0.28    0.3   0.34  4331  1.0
y_mean[1227]     -0.82  7.7e-4  0.05  -0.91  -0.85  -0.82  -0.79  -0.73  3522  1.0
y_mean[1228]     -0.38  4.4e-4  0.03  -0.44   -0.4  -0.38  -0.37  -0.33  3864  1.0
y_mean[1229]     -0.57  4.6e-4  0.03  -0.63  -0.59  -0.57  -0.55  -0.52  3499  1.0
y_mean[1230]     -0.73  5.4e-4  0.03  -0.79  -0.75  -0.73   -0.7  -0.66  3602  1.0
y_mean[1231]      1.24  6.2e-4  0.04   1.15   1.21   1.24   1.27   1.33  4888  1.0
y_mean[1232]      0.01  4.7e-4  0.03  -0.04 -5.0e-3  0.01   0.03   0.07  3684  1.0
y_mean[1233]      1.28  6.5e-4  0.04    1.2   1.26   1.28   1.31   1.36  3987  1.0
y_mean[1234]     -0.53  3.8e-4  0.02  -0.57  -0.55  -0.53  -0.52  -0.49  3034  1.0
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y_mean[1235]	-0.07	4.2e-4	0.02	-0.12	-0.09	-0.07	-0.06	-0.02	3463	1.0
y_mean[1236]	-0.08	4.4e-4	0.02	-0.12	-0.09	-0.08	-0.06	-0.03	2967	1.0
y_mean[1237]	-0.5	4.1e-4	0.02	-0.55	-0.52	-0.5	-0.49	-0.46	3166	1.0
y_mean[1238]	-0.45	6.8e-4	0.04	-0.52	-0.48	-0.45	-0.42	-0.38	3110	1.0
y_mean[1239]	0.6	7.6e-4	0.05	0.51	0.57	0.6	0.63	0.69	3627	1.0
y_mean[1240]	0.75	5.8e-4	0.04	0.67	0.72	0.75	0.77	0.82	4063	1.0
y_mean[1241]	0.66	5.4e-4	0.03	0.59	0.64	0.66	0.68	0.73	4115	1.0
y_mean[1242]	-0.13	4.2e-4	0.02	-0.17	-0.14	-0.13	-0.11	-0.08	2949	1.0
y_mean[1243]	0.15	6.3e-4	0.03	0.09	0.13	0.15	0.17	0.22	2803	1.0
y_mean[1244]	0.65	5.0e-4	0.03	0.58	0.63	0.65	0.67	0.71	4216	1.0
y_mean[1245]	-0.18	8.6e-4	0.05	-0.27	-0.21	-0.18	-0.15	-0.09	2873	1.0
y_mean[1246]	-0.37	3.8e-4	0.02	-0.41	-0.38	-0.37	-0.35	-0.32	3278	1.0
y_mean[1247]	-0.17	4.2e-4	0.02	-0.22	-0.18	-0.17	-0.15	-0.12	3531	1.0
y_mean[1248]	-0.56	4.1e-4	0.02	-0.6	-0.57	-0.56	-0.54	-0.51	3364	1.0
y_mean[1249]	-0.09	4.2e-4	0.02	-0.13	-0.1	-0.09	-0.07	-0.04	3107	1.0
y_mean[1250]	-0.27	6.0e-4	0.04	-0.34	-0.3	-0.27	-0.25	-0.2	3399	1.0
y_mean[1251]	-0.54	3.9e-4	0.02	-0.58	-0.55	-0.54	-0.52	-0.49	3236	1.0
y_mean[1252]	-0.49	3.9e-4	0.02	-0.54	-0.51	-0.49	-0.48	-0.45	2931	1.0
y_mean[1253]	-0.39	4.6e-4	0.02	-0.44	-0.41	-0.39	-0.37	-0.34	2936	1.0
y_mean[1254]	-0.69	8.6e-4	0.05	-0.78	-0.72	-0.69	-0.65	-0.58	3499	1.0
y_mean[1255]	0.17	3.8e-4	0.02	0.12	0.15	0.17	0.19	0.22	3823	1.0
y_mean[1256]	-0.05	4.2e-4	0.02	-0.1	-0.07	-0.05	-0.04	-5.3e-3	3229	1.0
y_mean[1257]	6.1e-3	4.5e-4	0.03	-0.05	-0.01	5.9e-3	0.02	0.06	3659	1.0
y_mean[1258]	0.13	4.0e-4	0.02	0.09	0.12	0.13	0.15	0.18	3707	1.0
y_mean[1259]	-0.66	1.1e-3	0.07	-0.79	-0.71	-0.66	-0.62	-0.53	3656	1.0
y_mean[1260]	-0.07	4.9e-4	0.03	-0.13	-0.09	-0.07	-0.06	-0.02	3056	1.0
y_mean[1261]	0.52	4.4e-4	0.03	0.46	0.5	0.52	0.54	0.58	4202	1.0
y_mean[1262]	0.57	4.3e-4	0.03	0.51	0.55	0.57	0.59	0.63	4497	1.0
y_mean[1263]	0.3	8.9e-4	0.05	0.2	0.27	0.3	0.34	0.41	3400	1.0
y_mean[1264]	-0.14	4.3e-4	0.02	-0.18	-0.15	-0.14	-0.12	-0.09	2922	1.0
y_mean[1265]	-0.16	7.1e-4	0.04	-0.24	-0.19	-0.16	-0.14	-0.09	2708	1.0
y_mean[1266]	2.37	1.1e-3	0.07	2.24	2.33	2.37	2.42	2.51	4167	1.0
y_mean[1267]	-0.44	4.6e-4	0.03	-0.49	-0.46	-0.44	-0.43	-0.39	3174	1.0
y_mean[1268]	-0.13	4.1e-4	0.02	-0.18	-0.15	-0.13	-0.12	-0.09	3195	1.0
y_mean[1269]	0.54	4.3e-4	0.03	0.48	0.52	0.54	0.56	0.59	4128	1.0
y_mean[1270]	-0.45	5.5e-4	0.03	-0.51	-0.47	-0.45	-0.43	-0.39	2968	1.0
y_mean[1271]	-0.48	3.8e-4	0.02	-0.53	-0.5	-0.49	-0.47	-0.44	3543	1.0
y_mean[1272]	0.29	8.0e-4	0.04	0.21	0.27	0.29	0.32	0.38	2756	1.0
y_mean[1273]	-0.27	6.0e-4	0.04	-0.34	-0.3	-0.27	-0.25	-0.2	3399	1.0
y_mean[1274]	-0.51	4.1e-4	0.02	-0.56	-0.53	-0.51	-0.5	-0.47	3236	1.0
y_mean[1275]	-0.58	7.0e-4	0.04	-0.66	-0.61	-0.58	-0.55	-0.49	3705	1.0
y_mean[1276]	-0.59	5.3e-4	0.03	-0.65	-0.61	-0.59	-0.57	-0.53	3535	1.0
y_mean[1277]	0.3	5.8e-4	0.03	0.24	0.28	0.3	0.33	0.37	3329	1.0
y_mean[1278]	-0.4	5.9e-4	0.04	-0.47	-0.43	-0.4	-0.37	-0.33	3949	1.0
y_mean[1279]	0.02	4.5e-4	0.03	-0.03	1.2e-3	0.02	0.04	0.07	3659	1.0
y_mean[1280]	-0.45	4.4e-4	0.02	-0.5	-0.47	-0.45	-0.44	-0.41	2798	1.0
y_mean[1281]	0.69	8.0e-4	0.05	0.6	0.66	0.69	0.72	0.78	3613	1.0
y_mean[1282]	-0.75	5.7e-4	0.03	-0.82	-0.77	-0.75	-0.73	-0.68	3652	1.0

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y_mean[1283]      1.44   9.2e-4   0.05    1.34   1.41    1.44   1.48    1.55   3421   1.0
y_mean[1284]     -0.47   5.4e-4   0.03   -0.53  -0.49   -0.47  -0.45   -0.42   2922   1.0
y_mean[1285]     -0.02   5.0e-4   0.03   -0.07  -0.04   -0.01 4.2e-3    0.04   3363   1.0
y_mean[1286]     -0.51   3.9e-4   0.02   -0.55  -0.52   -0.51  -0.49   -0.47   3025   1.0
y_mean[1287]     -0.35   3.8e-4   0.02   -0.39  -0.37   -0.35  -0.33    -0.3   3486   1.0
y_mean[1288]     -0.09   4.2e-4   0.02   -0.13   -0.1   -0.09  -0.07   -0.04   3080   1.0
y_mean[1289]     -0.45   4.4e-4   0.02   -0.49  -0.46   -0.45  -0.43    -0.4   2955   1.0
y_mean[1290]      0.46   4.9e-4   0.03     0.4   0.44    0.46   0.48    0.52   3964   1.0
y_mean[1291]     -0.28   7.8e-4   0.04   -0.36  -0.31   -0.28  -0.26   -0.21   2545   1.0
y_mean[1292]      0.15   5.1e-4   0.03     0.1   0.13    0.15   0.17    0.21   3131   1.0
y_mean[1293]       1.4   6.7e-4   0.04    1.32   1.38    1.41   1.43    1.49   4205   1.0
y_mean[1294]     -0.41   8.4e-4   0.05   -0.51  -0.44   -0.41  -0.38   -0.31   3557   1.0
y_mean[1295]      0.28   7.6e-4   0.05    0.19   0.25    0.28   0.31    0.37   3742   1.0
y_mean[1296]      -0.5   4.2e-4   0.02   -0.55  -0.52    -0.5  -0.48   -0.45   3243   1.0
y_mean[1297]     -0.12   4.1e-4   0.02   -0.17  -0.14   -0.12  -0.11   -0.08   3071   1.0
y_mean[1298]      -0.5   3.9e-4   0.02   -0.54  -0.51    -0.5  -0.48   -0.45   2967   1.0
y_mean[1299]      0.42   7.8e-4   0.04    0.34   0.39    0.42   0.45     0.5   2932   1.0
y_mean[1300]      0.55   5.8e-4   0.04    0.48   0.53    0.55   0.58    0.62   3997   1.0
y_mean[1301]     -0.36   5.6e-4   0.03   -0.43  -0.39   -0.36  -0.34    -0.3   3362   1.0
y_mean[1302]     -0.65   6.0e-4   0.04   -0.73  -0.68   -0.65  -0.63   -0.59   3414   1.0
y_mean[1303]      0.07   3.4e-4   0.02    0.03   0.06    0.07   0.09    0.12   4104   1.0
y_mean[1304]     -0.56   4.0e-4   0.02   -0.61  -0.58   -0.56  -0.55   -0.52   3319   1.0
y_mean[1305]      -0.2   5.7e-4   0.03   -0.27  -0.23    -0.2  -0.18   -0.14   3568   1.0
y_mean[1306]     -0.55   3.8e-4   0.02   -0.59  -0.56   -0.55  -0.53    -0.5   3175   1.0
y_mean[1307]     -0.07   5.0e-4   0.03   -0.13  -0.09   -0.07  -0.05   -0.02   3135   1.0
y_mean[1308]     -0.47   3.7e-4   0.02   -0.51  -0.48   -0.47  -0.45   -0.42   3717   1.0
y_mean[1309]     -0.17   6.8e-4   0.04   -0.25   -0.2   -0.17  -0.15    -0.1   2763   1.0
y_mean[1310]     -0.27   6.9e-4   0.03   -0.33  -0.29   -0.26  -0.24    -0.2   2551   1.0
y_mean[1311]       0.2   8.1e-4   0.05    0.11   0.17     0.2   0.23    0.29   3318   1.0
y_mean[1312]     -0.43   4.7e-4   0.03   -0.48  -0.45   -0.43  -0.41   -0.38   3032   1.0
y_mean[1313]     -0.47   4.4e-4   0.02   -0.51  -0.48   -0.47  -0.45   -0.42   2577   1.0
y_mean[1314]      0.43   5.2e-4   0.03    0.37   0.41    0.43   0.45    0.49   3660   1.0
y_mean[1315]      0.16   6.5e-4   0.05    0.07   0.13    0.16   0.19    0.25   4926   1.0
y_mean[1316]     -0.75   5.8e-4   0.04   -0.82  -0.77   -0.75  -0.72   -0.68   3634   1.0
y_mean[1317]      1.66   1.2e-3   0.08    1.51   1.61    1.66   1.71     1.8   4219   1.0
y_mean[1318]     -0.21   7.3e-4   0.05   -0.29  -0.24   -0.21  -0.18   -0.12   3807   1.0
y_mean[1319]     -0.48   9.9e-4   0.05   -0.58  -0.52   -0.48  -0.45   -0.38   2668   1.0
y_mean[1320]     -0.13   4.8e-4   0.03   -0.18  -0.14   -0.13  -0.11   -0.08   2838   1.0
y_mean[1321]     -0.31   5.3e-4   0.03   -0.37  -0.33   -0.31  -0.29   -0.26   2836   1.0
y_mean[1322]     -0.34   6.9e-4   0.04   -0.42  -0.37   -0.34  -0.31   -0.26   3565   1.0
y_mean[1323]       0.3   4.8e-4   0.03    0.25   0.28     0.3   0.32    0.36   3592   1.0
y_mean[1324]      -0.1   5.7e-4   0.03   -0.16  -0.12    -0.1  -0.07   -0.03   3296   1.0
y_mean[1325]     -0.44   5.0e-4   0.03   -0.49  -0.46   -0.44  -0.42   -0.38   3574   1.0
y_mean[1326]     -0.04   4.3e-4   0.02   -0.09  -0.06   -0.04  -0.03  4.6e-3   3246   1.0
y_mean[1327]      0.06   5.1e-4   0.03  5.1e-3   0.04    0.06   0.08    0.12   3107   1.0
y_mean[1328]     -0.73   5.4e-4   0.03    -0.8  -0.75   -0.73  -0.71   -0.66   3937   1.0
y_mean[1329]     -0.47   4.6e-4   0.03   -0.52  -0.49   -0.47  -0.46   -0.43   3170   1.0
y_mean[1330]      3.03   1.0e-3   0.07     2.9   2.98    3.03   3.08    3.17   4606   1.0
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y_mean[1331]	-0.56	3.9e-4	0.02	-0.6	-0.57	-0.56	-0.54	-0.51	3562	1.0
y_mean[1332]	-0.1	4.2e-4	0.02	-0.15	-0.12	-0.1	-0.09	-0.06	2992	1.0
y_mean[1333]	-0.39	4.6e-4	0.03	-0.44	-0.4	-0.39	-0.37	-0.33	3211	1.0
y_mean[1334]	-0.02	8.5e-4	0.05	-0.12	-0.06	-0.02	0.01	0.07	3541	1.0
y_mean[1335]	-0.62	9.9e-4	0.05	-0.72	-0.65	-0.62	-0.58	-0.51	2991	1.0
y_mean[1336]	-0.68	6.0e-4	0.04	-0.75	-0.71	-0.68	-0.66	-0.62	3444	1.0
y_mean[1337]	-0.49	4.2e-4	0.02	-0.54	-0.51	-0.49	-0.48	-0.45	2715	1.0
y_mean[1338]	0.02	6.0e-4	0.04	-0.06	-2.8e-3	0.02	0.05	0.11	4891	1.0
y_mean[1339]	0.36	7.1e-4	0.04	0.29	0.34	0.36	0.39	0.44	3027	1.0
y_mean[1340]	-0.5	4.6e-4	0.03	-0.55	-0.52	-0.5	-0.48	-0.44	3573	1.0
y_mean[1341]	-0.45	3.5e-4	0.02	-0.5	-0.47	-0.45	-0.44	-0.41	3999	1.0
y_mean[1342]	0.66	5.9e-4	0.04	0.58	0.63	0.66	0.68	0.73	4223	1.0
y_mean[1343]	-0.41	10.0e-4	0.06	-0.53	-0.45	-0.4	-0.36	-0.28	4017	1.0
y_mean[1344]	-0.17	7.5e-4	0.04	-0.24	-0.19	-0.17	-0.14	-0.09	2647	1.0
y_mean[1345]	-0.59	5.8e-4	0.03	-0.65	-0.61	-0.59	-0.56	-0.52	3598	1.0
y_mean[1346]	0.03	4.7e-4	0.03	-0.02	0.01	0.03	0.05	0.09	3693	1.0
y_mean[1347]	-0.8	7.3e-4	0.04	-0.89	-0.83	-0.8	-0.77	-0.71	3663	1.0
y_mean[1348]	2.93	1.2e-3	0.08	2.77	2.87	2.93	2.98	3.09	4466	1.0
y_mean[1349]	0.38	5.3e-4	0.03	0.32	0.36	0.38	0.41	0.45	3930	1.0
y_mean[1350]	-0.61	5.2e-4	0.03	-0.67	-0.63	-0.61	-0.59	-0.55	3496	1.0
y_mean[1351]	-0.73	6.3e-4	0.04	-0.81	-0.76	-0.73	-0.71	-0.66	3590	1.0
y_mean[1352]	-0.25	5.6e-4	0.03	-0.31	-0.27	-0.25	-0.22	-0.18	3302	1.0
y_mean[1353]	-0.59	4.6e-4	0.03	-0.64	-0.61	-0.59	-0.57	-0.53	3471	1.0
y_mean[1354]	-0.49	3.2e-4	0.02	-0.53	-0.51	-0.49	-0.48	-0.46	3924	1.0
y_mean[1355]	-0.45	4.4e-4	0.02	-0.5	-0.47	-0.45	-0.44	-0.41	2948	1.0
y_mean[1356]	0.19	3.9e-4	0.02	0.15	0.18	0.19	0.21	0.24	3902	1.0
y_mean[1357]	-0.14	4.5e-4	0.02	-0.19	-0.16	-0.14	-0.12	-0.09	2904	1.0
y_mean[1358]	0.65	6.4e-4	0.04	0.57	0.62	0.65	0.67	0.73	4052	1.0
y_mean[1359]	-0.45	2.9e-4	0.02	-0.48	-0.46	-0.45	-0.43	-0.41	3811	1.0
y_mean[1360]	0.34	5.8e-4	0.03	0.27	0.32	0.34	0.37	0.41	3652	1.0
y_mean[1361]	-0.76	5.8e-4	0.04	-0.83	-0.78	-0.76	-0.73	-0.69	3657	1.0
y_mean[1362]	-0.2	4.9e-4	0.03	-0.26	-0.22	-0.2	-0.18	-0.14	3610	1.0
y_mean[1363]	-0.59	5.0e-4	0.03	-0.65	-0.61	-0.59	-0.57	-0.53	3497	1.0
y_mean[1364]	-0.11	4.1e-4	0.02	-0.16	-0.13	-0.11	-0.1	-0.07	3072	1.0
y_mean[1365]	1.05	5.0e-4	0.03	0.99	1.03	1.05	1.07	1.11	3956	1.0
y_mean[1366]	0.49	4.6e-4	0.03	0.43	0.47	0.49	0.5	0.54	3978	1.0
y_mean[1367]	-0.78	6.9e-4	0.04	-0.87	-0.81	-0.78	-0.75	-0.7	3838	1.0
y_mean[1368]	0.53	7.5e-4	0.05	0.42	0.5	0.53	0.57	0.63	4877	1.0
y_mean[1369]	0.34	6.9e-4	0.04	0.26	0.31	0.34	0.36	0.42	3451	1.0
y_mean[1370]	-0.48	5.7e-4	0.03	-0.54	-0.5	-0.48	-0.46	-0.42	3005	1.0
y_mean[1371]	1.56	7.9e-4	0.05	1.46	1.52	1.56	1.59	1.65	4163	1.0
y_mean[1372]	0.49	5.4e-4	0.03	0.42	0.46	0.49	0.51	0.55	4001	1.0
y_mean[1373]	0.53	5.5e-4	0.03	0.47	0.51	0.53	0.56	0.6	3907	1.0
y_mean[1374]	-0.54	4.5e-4	0.03	-0.59	-0.56	-0.54	-0.52	-0.49	3193	1.0
y_mean[1375]	2.35	1.5e-3	0.1	2.16	2.28	2.35	2.41	2.54	4396	1.0
y_mean[1376]	-0.52	3.3e-4	0.02	-0.56	-0.54	-0.52	-0.51	-0.48	3875	1.0
y_mean[1377]	0.9	6.4e-4	0.04	0.82	0.87	0.9	0.92	0.97	3592	1.0
y_mean[1378]	-0.07	7.1e-4	0.04	-0.15	-0.1	-0.07	-0.05	1.6e-3	2861	1.0

y_mean[1379]	-0.54	6.3e-4	0.04	-0.62	-0.57	-0.54	-0.52	-0.47	3448	1.0
y_mean[1380]	-0.58	4.6e-4	0.03	-0.64	-0.6	-0.58	-0.57	-0.53	3474	1.0
y_mean[1381]	-0.42	5.3e-4	0.03	-0.49	-0.45	-0.43	-0.4	-0.36	3728	1.0
y_mean[1382]	1.21	7.2e-4	0.05	1.1	1.18	1.21	1.25	1.32	5790	1.0
y_mean[1383]	-0.07	3.6e-4	0.02	-0.12	-0.09	-0.07	-0.06	-0.03	4012	1.0
y_mean[1384]	-0.31	5.1e-4	0.03	-0.37	-0.33	-0.31	-0.29	-0.26	2899	1.0
y_mean[1385]	-0.73	6.8e-4	0.04	-0.81	-0.76	-0.73	-0.7	-0.65	3638	1.0
y_mean[1386]	-0.21	5.4e-4	0.03	-0.27	-0.23	-0.21	-0.19	-0.15	3047	1.0
y_mean[1387]	0.53	4.4e-4	0.03	0.48	0.51	0.53	0.55	0.58	4063	1.0
y_mean[1388]	-0.39	5.2e-4	0.03	-0.45	-0.41	-0.39	-0.37	-0.33	3229	1.0
y_mean[1389]	-0.38	8.5e-4	0.04	-0.46	-0.41	-0.38	-0.35	-0.3	2428	1.0
y_mean[1390]	-0.64	6.6e-4	0.04	-0.72	-0.67	-0.64	-0.62	-0.56	3552	1.0
y_mean[1391]	-0.56	5.7e-4	0.03	-0.63	-0.59	-0.56	-0.54	-0.5	3570	1.0
y_mean[1392]	-0.5	6.0e-4	0.04	-0.58	-0.53	-0.5	-0.48	-0.43	3693	1.0
y_mean[1393]	-0.28	6.4e-4	0.03	-0.34	-0.3	-0.28	-0.26	-0.21	2593	1.0
y_mean[1394]	0.57	4.3e-4	0.03	0.52	0.55	0.57	0.59	0.63	4309	1.0
y_mean[1395]	2.24	1.6e-3	0.11	2.01	2.17	2.24	2.32	2.47	5165	1.0
y_mean[1396]	0.41	5.3e-4	0.03	0.35	0.39	0.41	0.43	0.48	3609	1.0
y_mean[1397]	0.18	6.2e-4	0.03	0.12	0.16	0.18	0.2	0.25	2898	1.0
y_mean[1398]	-0.58	5.0e-4	0.03	-0.64	-0.6	-0.58	-0.56	-0.52	3485	1.0
y_mean[1399]	1.41	6.7e-4	0.04	1.32	1.38	1.41	1.44	1.5	4188	1.0
y_mean[1400]	-0.3	5.8e-4	0.03	-0.36	-0.32	-0.3	-0.28	-0.24	2802	1.0
y_mean[1401]	-0.56	5.2e-4	0.03	-0.62	-0.58	-0.56	-0.54	-0.5	3419	1.0
y_mean[1402]	0.53	4.6e-4	0.03	0.47	0.51	0.53	0.55	0.6	4796	1.0
y_mean[1403]	0.1	5.4e-4	0.03	0.04	0.08	0.1	0.12	0.17	3766	1.0
y_mean[1404]	-0.52	5.2e-4	0.03	-0.58	-0.54	-0.52	-0.5	-0.46	3688	1.0
y_mean[1405]	-0.5	3.9e-4	0.02	-0.54	-0.51	-0.5	-0.49	-0.46	2818	1.0
y_mean[1406]	2.09	1.4e-3	0.09	1.91	2.03	2.1	2.16	2.27	4347	1.0
y_mean[1407]	-0.4	5.2e-4	0.03	-0.46	-0.43	-0.41	-0.38	-0.34	3494	1.0
y_mean[1408]	-0.53	3.8e-4	0.02	-0.58	-0.55	-0.53	-0.52	-0.49	3165	1.0
y_mean[1409]	-0.63	6.9e-4	0.04	-0.7	-0.65	-0.62	-0.6	-0.55	3246	1.0
y_mean[1410]	-0.13	4.9e-4	0.03	-0.18	-0.15	-0.13	-0.11	-0.08	2865	1.0
y_mean[1411]	-0.47	5.3e-4	0.03	-0.52	-0.49	-0.47	-0.45	-0.41	2980	1.0
y_mean[1412]	-0.44	4.6e-4	0.03	-0.49	-0.45	-0.44	-0.42	-0.39	3071	1.0
y_mean[1413]	0.01	4.6e-4	0.03	-0.04	-4.7e-3	0.01	0.03	0.07	3567	1.0
y_mean[1414]	-0.32	5.2e-4	0.03	-0.37	-0.34	-0.32	-0.3	-0.26	2846	1.0
y_mean[1415]	1.03	9.8e-4	0.06	0.92	0.99	1.03	1.07	1.15	3740	1.0
y_mean[1416]	-0.28	7.1e-4	0.05	-0.37	-0.31	-0.28	-0.25	-0.19	4014	1.0
y_mean[1417]	1.5	8.2e-4	0.05	1.4	1.47	1.5	1.54	1.6	4035	1.0
y_mean[1418]	-0.41	4.6e-4	0.03	-0.46	-0.42	-0.41	-0.39	-0.36	2972	1.0
y_mean[1419]	-0.14	5.5e-4	0.03	-0.2	-0.16	-0.14	-0.12	-0.08	3469	1.0
y_mean[1420]	-0.3	7.2e-4	0.04	-0.38	-0.32	-0.3	-0.27	-0.21	3420	1.0
y_mean[1421]	-0.61	5.8e-4	0.03	-0.68	-0.63	-0.61	-0.59	-0.54	3471	1.0
y_mean[1422]	0.42	5.0e-4	0.03	0.36	0.4	0.42	0.44	0.48	3737	1.0
y_mean[1423]	-0.09	4.2e-4	0.02	-0.13	-0.1	-0.09	-0.07	-0.04	3028	1.0
y_mean[1424]	-0.53	3.8e-4	0.02	-0.57	-0.54	-0.53	-0.51	-0.49	2929	1.0
y_mean[1425]	-0.52	4.2e-4	0.02	-0.56	-0.53	-0.52	-0.5	-0.47	2958	1.0
y_mean[1426]	-0.21	6.2e-4	0.03	-0.27	-0.23	-0.21	-0.19	-0.14	2744	1.0

y_mean[1427]	-0.28	5.3e-4	0.03	-0.33	-0.3	-0.28	-0.26	-0.22	2908	1.0
y_mean[1428]	-0.18	7.6e-4	0.05	-0.27	-0.21	-0.18	-0.15	-0.09	3732	1.0
y_mean[1429]	1.87	7.4e-4	0.05	1.79	1.84	1.87	1.9	1.96	3830	1.0
y_mean[1430]	0.03	4.5e-4	0.03	-0.02	0.01	0.03	0.05	0.09	3539	1.0
y_mean[1431]	0.69	6.8e-4	0.04	0.61	0.67	0.7	0.72	0.78	3797	1.0
y_mean[1432]	-0.24	5.3e-4	0.03	-0.3	-0.27	-0.24	-0.22	-0.18	3360	1.0
y_mean[1433]	-0.45	4.4e-4	0.02	-0.49	-0.46	-0.45	-0.43	-0.4	2955	1.0
y_mean[1434]	0.41	6.1e-4	0.04	0.33	0.38	0.41	0.43	0.48	3668	1.0
y_mean[1435]	-0.24	5.4e-4	0.03	-0.3	-0.26	-0.24	-0.22	-0.17	3427	1.0
y_mean[1436]	-0.24	6.4e-4	0.03	-0.31	-0.26	-0.24	-0.22	-0.17	2767	1.0
y_mean[1437]	-0.82	7.9e-4	0.05	-0.92	-0.85	-0.82	-0.79	-0.73	3496	1.0
y_mean[1438]	-0.34	6.4e-4	0.04	-0.42	-0.36	-0.34	-0.31	-0.27	3564	1.0
y_mean[1439]	-0.26	5.7e-4	0.03	-0.33	-0.28	-0.26	-0.24	-0.2	3385	1.0
y_mean[1440]	-0.42	8.6e-4	0.05	-0.51	-0.46	-0.42	-0.39	-0.33	2996	1.0
y_mean[1441]	-0.24	5.2e-4	0.03	-0.3	-0.26	-0.24	-0.22	-0.18	3357	1.0
y_mean[1442]	-0.63	5.9e-4	0.04	-0.7	-0.65	-0.63	-0.61	-0.56	3514	1.0
y_mean[1443]	-0.19	4.7e-4	0.03	-0.25	-0.21	-0.19	-0.17	-0.14	3367	1.0
y_mean[1444]	-0.37	3.8e-4	0.02	-0.41	-0.38	-0.37	-0.35	-0.32	3270	1.0
y_mean[1445]	-0.38	5.3e-4	0.03	-0.44	-0.41	-0.39	-0.36	-0.32	3364	1.0
y_mean[1446]	-0.17	5.3e-4	0.03	-0.23	-0.19	-0.17	-0.15	-0.12	2993	1.0
y_mean[1447]	-0.27	6.1e-4	0.04	-0.34	-0.3	-0.27	-0.25	-0.2	3486	1.0
y_mean[1448]	0.59	5.2e-4	0.03	0.53	0.57	0.59	0.62	0.66	3952	1.0
y_mean[1449]	-0.72	5.7e-4	0.04	-0.79	-0.74	-0.72	-0.69	-0.64	3921	1.0
y_mean[1450]	-0.73	5.4e-4	0.03	-0.79	-0.75	-0.73	-0.7	-0.66	3920	1.0
y_mean[1451]	0.47	4.7e-4	0.03	0.41	0.45	0.47	0.49	0.53	4133	1.0
y_mean[1452]	-0.25	1.0e-3	0.05	-0.35	-0.28	-0.25	-0.21	-0.15	2518	1.0
y_mean[1453]	2.07	8.2e-4	0.06	1.95	2.03	2.07	2.11	2.18	5561	1.0
y_mean[1454]	2.35	1.4e-3	0.08	2.19	2.3	2.35	2.41	2.51	3385	1.0
y_mean[1455]	0.09	9.5e-4	0.05	-1.0e-3	0.06	0.09	0.13	0.19	2617	1.0
y_mean[1456]	-0.39	5.3e-4	0.03	-0.44	-0.41	-0.39	-0.37	-0.33	3248	1.0
y_mean[1457]	-0.11	6.0e-4	0.03	-0.17	-0.13	-0.11	-0.09	-0.04	3101	1.0
y_mean[1458]	-0.59	4.9e-4	0.03	-0.65	-0.61	-0.59	-0.58	-0.54	3475	1.0
y_mean[1459]	-0.08	5.8e-4	0.03	-0.15	-0.11	-0.08	-0.06	-0.02	3347	1.0
y_mean[1460]	2.74	1.3e-3	0.09	2.57	2.68	2.74	2.8	2.91	4323	1.0
y_mean[1461]	-0.64	7.3e-4	0.04	-0.72	-0.67	-0.64	-0.61	-0.56	3340	1.0
y_mean[1462]	-0.19	5.5e-4	0.03	-0.25	-0.21	-0.19	-0.17	-0.12	3604	1.0
y_mean[1463]	-0.4	2.9e-4	0.02	-0.43	-0.41	-0.4	-0.39	-0.36	3746	1.0
y_mean[1464]	-0.15	5.1e-4	0.03	-0.21	-0.17	-0.15	-0.13	-0.09	3499	1.0
y_mean[1465]	-0.36	4.5e-4	0.02	-0.41	-0.38	-0.36	-0.34	-0.31	2947	1.0
y_mean[1466]	0.71	7.3e-4	0.04	0.62	0.68	0.71	0.74	0.79	3703	1.0
y_mean[1467]	0.51	5.0e-4	0.04	0.44	0.49	0.51	0.54	0.59	5168	1.0
y_mean[1468]	0.12	5.6e-4	0.04	0.05	0.09	0.12	0.14	0.18	3904	1.0
y_mean[1469]	0.46	4.7e-4	0.03	0.41	0.44	0.46	0.48	0.52	3819	1.0
y_mean[1470]	0.88	1.2e-3	0.07	0.75	0.84	0.88	0.93	1.01	3116	1.0
y_mean[1471]	0.74	7.9e-4	0.05	0.64	0.7	0.74	0.77	0.83	3540	1.0
y_mean[1472]	-0.58	5.0e-4	0.03	-0.64	-0.6	-0.58	-0.56	-0.52	3521	1.0
y_mean[1473]	-0.61	1.2e-3	0.07	-0.76	-0.66	-0.61	-0.56	-0.46	3580	1.0
y_mean[1474]	-0.75	5.8e-4	0.04	-0.82	-0.78	-0.75	-0.73	-0.68	4006	1.0

y_mean[1475]	-0.05	6.2e-4	0.04	-0.13	-0.08	-0.05	-0.03	0.03	4373	1.0
y_mean[1476]	-0.56	4.6e-4	0.03	-0.61	-0.58	-0.56	-0.54	-0.51	3347	1.0
y_mean[1477]	-0.64	8.2e-4	0.05	-0.73	-0.67	-0.64	-0.61	-0.55	3398	1.0
y_mean[1478]	0.23	5.8e-4	0.03	0.17	0.2	0.23	0.25	0.29	3024	1.0
y_mean[1479]	1.07	7.8e-4	0.05	0.99	1.04	1.07	1.1	1.17	3416	1.0
y_mean[1480]	-0.51	3.8e-4	0.02	-0.55	-0.52	-0.51	-0.5	-0.47	2977	1.0
y_mean[1481]	-0.4	7.8e-4	0.04	-0.48	-0.43	-0.41	-0.38	-0.33	2571	1.0
y_mean[1482]	0.12	4.4e-4	0.03	0.07	0.1	0.12	0.14	0.18	4159	1.0
y_mean[1483]	0.64	7.7e-4	0.05	0.54	0.6	0.64	0.67	0.74	4451	1.0
y_mean[1484]	-0.03	3.5e-4	0.02	-0.07	-0.05	-0.03	-0.02	8.3e-3	3426	1.0
y_mean[1485]	1.6	5.8e-4	0.04	1.52	1.57	1.6	1.63	1.68	5178	1.0
y_mean[1486]	0.13	7.0e-4	0.04	0.04	0.1	0.13	0.15	0.21	3537	1.0
y_mean[1487]	-0.62	5.6e-4	0.03	-0.68	-0.64	-0.62	-0.6	-0.55	3532	1.0
y_mean[1488]	1.28	6.0e-4	0.04	1.2	1.25	1.28	1.31	1.37	5049	1.0
y_mean[1489]	0.2	4.4e-4	0.03	0.15	0.18	0.2	0.22	0.25	3875	1.0
y_mean[1490]	-0.11	6.3e-4	0.04	-0.18	-0.14	-0.11	-0.09	-0.05	3131	1.0
y_mean[1491]	-0.33	5.9e-4	0.03	-0.4	-0.35	-0.33	-0.31	-0.26	3406	1.0
y_mean[1492]	-0.63	6.9e-4	0.04	-0.71	-0.66	-0.63	-0.6	-0.55	3466	1.0
y_mean[1493]	-0.33	5.9e-4	0.03	-0.39	-0.35	-0.33	-0.3	-0.26	3127	1.0
y_mean[1494]	-0.06	7.0e-4	0.04	-0.14	-0.09	-0.06	-0.03	0.02	3580	1.0
y_mean[1495]	0.24	4.4e-4	0.03	0.19	0.23	0.24	0.26	0.3	4012	1.0
y_mean[1496]	-0.52	4.7e-4	0.03	-0.57	-0.54	-0.52	-0.5	-0.47	3074	1.0
y_mean[1497]	-0.34	3.6e-4	0.02	-0.38	-0.36	-0.34	-0.33	-0.3	3403	1.0
y_mean[1498]	-0.48	4.6e-4	0.03	-0.53	-0.49	-0.48	-0.46	-0.42	3255	1.0
y_mean[1499]	-0.09	6.3e-4	0.04	-0.16	-0.12	-0.09	-0.07	-0.02	3337	1.0
y_mean[1500]	-0.16	8.3e-4	0.04	-0.25	-0.19	-0.16	-0.13	-0.07	2724	1.0
y_mean[1501]	-0.15	6.2e-4	0.04	-0.22	-0.17	-0.15	-0.12	-0.07	3596	1.0
y_mean[1502]	2.42	1.3e-3	0.08	2.26	2.37	2.42	2.48	2.58	3986	1.0
y_mean[1503]	-0.42	7.4e-4	0.04	-0.5	-0.45	-0.42	-0.39	-0.34	3401	1.0
y_mean[1504]	-0.53	4.3e-4	0.02	-0.58	-0.55	-0.53	-0.52	-0.49	3113	1.0
y_mean[1505]	-0.75	5.8e-4	0.04	-0.82	-0.77	-0.75	-0.73	-0.68	3636	1.0
y_mean[1506]	-0.04	4.5e-4	0.03	-0.09	-0.06	-0.04	-0.03	7.2e-3	3146	1.0
y_mean[1507]	-0.68	6.0e-4	0.04	-0.75	-0.7	-0.68	-0.66	-0.61	3422	1.0
y_mean[1508]	-0.53	3.8e-4	0.02	-0.57	-0.54	-0.53	-0.51	-0.48	2978	1.0
y_mean[1509]	-0.53	3.9e-4	0.02	-0.57	-0.55	-0.53	-0.52	-0.49	3171	1.0
y_mean[1510]	2.31	1.2e-3	0.08	2.16	2.26	2.31	2.36	2.46	4249	1.0
y_mean[1511]	1.21	6.4e-4	0.04	1.13	1.18	1.21	1.24	1.3	4870	1.0
y_mean[1512]	0.14	6.0e-4	0.04	0.07	0.12	0.14	0.16	0.21	3467	1.0
y_mean[1513]	-0.54	3.9e-4	0.02	-0.58	-0.55	-0.54	-0.52	-0.49	3214	1.0
y_mean[1514]	0.27	8.4e-4	0.05	0.17	0.24	0.27	0.31	0.37	3738	1.0
y_mean[1515]	-0.53	6.1e-4	0.04	-0.59	-0.55	-0.52	-0.5	-0.46	3380	1.0
y_mean[1516]	-0.46	4.3e-4	0.03	-0.51	-0.47	-0.46	-0.44	-0.41	3616	1.0
y_mean[1517]	-0.34	4.6e-4	0.03	-0.39	-0.36	-0.34	-0.32	-0.29	3004	1.0
y_mean[1518]	1.73	9.2e-4	0.05	1.63	1.7	1.74	1.77	1.84	3520	1.0
y_mean[1519]	-0.41	5.0e-4	0.03	-0.46	-0.43	-0.41	-0.39	-0.36	3030	1.0
y_mean[1520]	0.45	4.8e-4	0.03	0.39	0.43	0.45	0.47	0.51	3777	1.0
y_mean[1521]	-0.68	5.9e-4	0.03	-0.75	-0.71	-0.68	-0.66	-0.61	3416	1.0
y_mean[1522]	-0.22	8.0e-4	0.04	-0.29	-0.24	-0.22	-0.19	-0.13	2499	1.0

y_mean[1523]	-0.06	4.3e-4	0.03	-0.11	-0.08	-0.06	-0.05	-0.01	3448	1.0
y_mean[1524]	-0.43	4.9e-4	0.03	-0.48	-0.45	-0.43	-0.41	-0.37	3339	1.0
y_mean[1525]	1.07	7.9e-4	0.05	0.99	1.04	1.07	1.1	1.16	3404	1.0
y_mean[1526]	0.75	4.2e-4	0.03	0.69	0.73	0.74	0.76	0.8	4121	1.0
y_mean[1527]	-0.31	6.3e-4	0.04	-0.38	-0.33	-0.31	-0.28	-0.23	3712	1.0
y_mean[1528]	-0.25	8.0e-4	0.04	-0.33	-0.27	-0.25	-0.22	-0.17	2452	1.0
y_mean[1529]	0.81	7.5e-4	0.05	0.72	0.78	0.81	0.84	0.91	4002	1.0
y_mean[1530]	-0.12	7.4e-4	0.04	-0.2	-0.15	-0.12	-0.1	-0.05	2850	1.0
y_mean[1531]	-0.54	5.3e-4	0.03	-0.6	-0.56	-0.54	-0.52	-0.48	3352	1.0
y_mean[1532]	-0.59	4.7e-4	0.03	-0.64	-0.61	-0.59	-0.57	-0.53	3447	1.0
y_mean[1533]	-0.72	5.6e-4	0.03	-0.78	-0.74	-0.72	-0.69	-0.65	3557	1.0
y_mean[1534]	-0.68	5.7e-4	0.03	-0.74	-0.7	-0.68	-0.66	-0.61	3552	1.0
y_mean[1535]	0.15	6.0e-4	0.04	0.07	0.12	0.15	0.17	0.23	4007	1.0
y_mean[1536]	0.4	8.1e-4	0.04	0.31	0.37	0.4	0.43	0.49	3006	1.0
y_mean[1537]	-0.11	4.2e-4	0.03	-0.16	-0.12	-0.11	-0.09	-0.06	3646	1.0
y_mean[1538]	-0.4	6.4e-4	0.03	-0.46	-0.42	-0.4	-0.37	-0.33	2794	1.0
y_mean[1539]	-0.12	6.1e-4	0.03	-0.18	-0.14	-0.12	-0.09	-0.05	3078	1.0
y_mean[1540]	1.35	1.1e-3	0.07	1.21	1.3	1.35	1.4	1.49	4073	1.0
y_mean[1541]	0.6	4.6e-4	0.03	0.55	0.58	0.6	0.62	0.66	4329	1.0
y_mean[1542]	-0.03	4.8e-4	0.03	-0.08	-0.05	-0.03	-9.1e-3	0.03	3513	1.0
y_mean[1543]	-0.27	7.0e-4	0.04	-0.35	-0.29	-0.27	-0.24	-0.19	3542	1.0
y_mean[1544]	-0.04	4.3e-4	0.02	-0.08	-0.05	-0.04	-0.02	0.01	3317	1.0
y_mean[1545]	0.85	6.5e-4	0.04	0.78	0.83	0.85	0.88	0.93	3579	1.0
y_mean[1546]	-0.49	5.6e-4	0.03	-0.55	-0.51	-0.49	-0.47	-0.43	3003	1.0
y_mean[1547]	-0.5	7.6e-4	0.04	-0.58	-0.53	-0.5	-0.47	-0.42	2681	1.0
y_mean[1548]	-0.44	5.4e-4	0.03	-0.51	-0.46	-0.44	-0.42	-0.38	3346	1.0
y_mean[1549]	-0.5	6.5e-4	0.04	-0.57	-0.52	-0.5	-0.47	-0.42	3228	1.0
y_mean[1550]	-8.2e-3	5.4e-4	0.03	-0.07	-0.03	-8.5e-3	0.01	0.06	3634	1.0
y_mean[1551]	0.05	4.9e-4	0.03	-0.01	0.03	0.05	0.07	0.11	3915	1.0
y_mean[1552]	-0.1	4.1e-4	0.02	-0.15	-0.12	-0.1	-0.08	-0.05	3413	1.0
y_mean[1553]	-0.36	8.3e-4	0.05	-0.45	-0.39	-0.36	-0.33	-0.27	3157	1.0
y_mean[1554]	-0.76	5.8e-4	0.04	-0.83	-0.78	-0.76	-0.74	-0.69	3713	1.0
y_mean[1555]	-0.65	6.6e-4	0.04	-0.72	-0.67	-0.65	-0.62	-0.57	3516	1.0
y_mean[1556]	0.26	6.1e-4	0.03	0.2	0.24	0.26	0.29	0.33	3097	1.0
y_mean[1557]	-0.45	4.5e-4	0.03	-0.5	-0.47	-0.45	-0.43	-0.4	3122	1.0
y_mean[1558]	-0.61	8.4e-4	0.05	-0.71	-0.65	-0.61	-0.58	-0.51	3627	1.0
y_mean[1559]	1.22	6.3e-4	0.04	1.13	1.19	1.22	1.25	1.31	4892	1.0
y_mean[1560]	0.08	5.4e-4	0.03	0.02	0.06	0.08	0.1	0.14	3333	1.0
y_mean[1561]	0.55	4.9e-4	0.04	0.48	0.53	0.55	0.57	0.62	5094	1.0
y_mean[1562]	-0.14	4.4e-4	0.03	-0.19	-0.15	-0.14	-0.12	-0.08	3828	1.0
y_mean[1563]	-0.43	4.7e-4	0.03	-0.48	-0.45	-0.43	-0.41	-0.38	3093	1.0
y_mean[1564]	0.49	4.6e-4	0.03	0.43	0.47	0.49	0.51	0.55	4132	1.0
y_mean[1565]	-0.24	6.1e-4	0.04	-0.31	-0.26	-0.24	-0.22	-0.17	3510	1.0
y_mean[1566]	-7.9e-3	4.5e-4	0.03	-0.06	-0.03	-8.2e-3	0.01	0.05	3916	1.0
y_mean[1567]	0.52	4.4e-4	0.03	0.47	0.5	0.52	0.54	0.58	4069	1.0
y_mean[1568]	-0.28	6.5e-4	0.04	-0.35	-0.3	-0.28	-0.25	-0.2	3468	1.0
y_mean[1569]	0.54	4.3e-4	0.03	0.49	0.52	0.54	0.56	0.6	4084	1.0
y_mean[1570]	-0.31	6.1e-4	0.03	-0.37	-0.33	-0.31	-0.28	-0.24	2734	1.0

y_mean[1571]	-0.54	3.8e-4	0.02	-0.58	-0.56	-0.54	-0.53	-0.5	3140	1.0
y_mean[1572]	-0.56	4.3e-4	0.02	-0.6	-0.57	-0.56	-0.54	-0.51	3272	1.0
y_mean[1573]	-0.45	1.0e-3	0.06	-0.56	-0.49	-0.45	-0.41	-0.34	3250	1.0
y_mean[1574]	1.1	7.8e-4	0.05	1.0	1.07	1.1	1.14	1.21	4455	1.0
y_mean[1575]	-0.17	4.6e-4	0.03	-0.23	-0.19	-0.17	-0.16	-0.12	3691	1.0
y_mean[1576]	-0.23	7.1e-4	0.04	-0.31	-0.26	-0.23	-0.21	-0.16	2758	1.0
y_mean[1577]	2.13	1.1e-3	0.08	1.98	2.07	2.13	2.18	2.28	5085	1.0
y_mean[1578]	-0.13	6.1e-4	0.03	-0.2	-0.15	-0.13	-0.11	-0.07	3024	1.0
y_mean[1579]	0.03	5.2e-4	0.03	-0.04	3.9e-3	0.03	0.05	0.1	4390	1.0
y_mean[1580]	-0.58	4.4e-4	0.03	-0.63	-0.6	-0.58	-0.56	-0.53	3419	1.0
y_mean[1581]	2.53	1.2e-3	0.08	2.37	2.48	2.53	2.58	2.68	4362	1.0
y_mean[1582]	-0.37	3.3e-4	0.02	-0.4	-0.38	-0.37	-0.35	-0.33	3529	1.0
y_mean[1583]	-0.72	5.3e-4	0.03	-0.78	-0.74	-0.72	-0.69	-0.65	3860	1.0
y_mean[1584]	2.12	1.1e-3	0.08	1.97	2.07	2.12	2.18	2.28	5159	1.0
y_mean[1585]	0.18	7.2e-4	0.04	0.09	0.15	0.18	0.21	0.26	3889	1.0
y_mean[1586]	-0.15	4.8e-4	0.03	-0.2	-0.17	-0.15	-0.14	-0.1	2926	1.0
y_mean[1587]	-0.04	4.3e-4	0.02	-0.09	-0.06	-0.04	-0.02	8.1e-3	3290	1.0
y_mean[1588]	1.55	8.5e-4	0.06	1.42	1.5	1.55	1.59	1.67	5416	1.0
y_mean[1589]	-0.55	4.1e-4	0.02	-0.6	-0.57	-0.55	-0.54	-0.51	3356	1.0
y_mean[1590]	0.08	4.7e-4	0.03	0.03	0.06	0.08	0.09	0.13	3174	1.0
y_mean[1591]	-0.66	1.1e-3	0.07	-0.79	-0.71	-0.66	-0.62	-0.53	3718	1.0
y_mean[1592]	-0.52	4.1e-4	0.02	-0.57	-0.54	-0.52	-0.51	-0.48	2991	1.0
y_mean[1593]	-0.55	3.9e-4	0.02	-0.59	-0.56	-0.55	-0.53	-0.5	3173	1.0
y_mean[1594]	-0.73	5.3e-4	0.03	-0.79	-0.75	-0.73	-0.71	-0.66	3796	1.0
y_mean[1595]	1.69	7.2e-4	0.05	1.59	1.65	1.69	1.72	1.78	4283	1.0
y_mean[1596]	0.07	4.9e-4	0.03	0.01	0.05	0.07	0.09	0.12	3197	1.0
y_mean[1597]	-0.61	5.2e-4	0.03	-0.67	-0.63	-0.61	-0.59	-0.55	3500	1.0
y_mean[1598]	-0.18	5.0e-4	0.03	-0.24	-0.2	-0.18	-0.16	-0.12	3277	1.0
y_mean[1599]	0.02	3.6e-4	0.02	-0.02	7.2e-3	0.02	0.04	0.06	3493	1.0
y_mean[1600]	-0.5	4.3e-4	0.02	-0.55	-0.51	-0.5	-0.48	-0.45	3294	1.0
y_mean[1601]	1.32	6.1e-4	0.04	1.24	1.29	1.32	1.35	1.4	4763	1.0
y_mean[1602]	0.77	7.7e-4	0.05	0.68	0.74	0.77	0.8	0.86	3474	1.0
y_mean[1603]	2.76	1.2e-3	0.08	2.61	2.71	2.76	2.81	2.91	4110	1.0
y_mean[1604]	0.4	6.6e-4	0.04	0.32	0.37	0.4	0.43	0.48	3948	1.0
y_mean[1605]	0.18	3.9e-4	0.02	0.13	0.16	0.18	0.2	0.23	3873	1.0
y_mean[1606]	-0.37	5.5e-4	0.03	-0.43	-0.39	-0.37	-0.35	-0.31	3462	1.0
y_mean[1607]	0.92	1.0e-3	0.06	0.8	0.88	0.92	0.96	1.05	3987	1.0
y_mean[1608]	0.15	3.7e-4	0.02	0.1	0.13	0.15	0.16	0.19	3727	1.0
y_mean[1609]	-0.44	9.3e-4	0.05	-0.54	-0.47	-0.44	-0.41	-0.34	2802	1.0
y_mean[1610]	0.7	9.2e-4	0.06	0.57	0.66	0.7	0.74	0.82	4847	1.0
y_mean[1611]	0.59	7.6e-4	0.04	0.5	0.56	0.59	0.62	0.68	3379	1.0
y_mean[1612]	-0.48	4.1e-4	0.02	-0.53	-0.5	-0.48	-0.47	-0.44	2964	1.0
y_mean[1613]	0.14	6.1e-4	0.04	0.07	0.11	0.14	0.16	0.21	3651	1.0
y_mean[1614]	-0.65	6.7e-4	0.04	-0.73	-0.68	-0.65	-0.63	-0.58	3403	1.0
y_mean[1615]	-0.42	2.0e-3	0.12	-0.65	-0.5	-0.42	-0.34	-0.18	3633	1.0
y_mean[1616]	-0.71	1.0e-3	0.06	-0.84	-0.76	-0.71	-0.67	-0.59	3865	1.0
y_mean[1617]	-0.77	6.3e-4	0.04	-0.85	-0.8	-0.78	-0.75	-0.7	3782	1.0
y_mean[1618]	-0.49	4.3e-4	0.02	-0.54	-0.5	-0.49	-0.47	-0.44	3273	1.0

y_mean[1619]	-0.03	4.1e-4	0.02	-0.08	-0.05	-0.03	-0.02	0.01	3467	1.0
y_mean[1620]	-0.3	6.0e-4	0.03	-0.36	-0.32	-0.3	-0.28	-0.24	2640	1.0
y_mean[1621]	-0.07	4.2e-4	0.02	-0.12	-0.09	-0.07	-0.06	-0.03	3253	1.0
y_mean[1622]	-0.05	4.6e-4	0.03	-0.11	-0.07	-0.05	-0.03	9.9e-3	4263	1.0
y_mean[1623]	7.68	3.9e-3	0.25	7.18	7.51	7.68	7.85	8.18	4333	1.0
y_mean[1624]	-0.16	4.4e-4	0.03	-0.22	-0.18	-0.16	-0.15	-0.11	3790	1.0
y_mean[1625]	-0.56	4.3e-4	0.02	-0.6	-0.57	-0.56	-0.54	-0.51	3259	1.0
y_mean[1626]	-0.33	8.4e-4	0.04	-0.41	-0.36	-0.33	-0.3	-0.25	2437	1.0
y_mean[1627]	-0.1	5.0e-4	0.03	-0.15	-0.12	-0.1	-0.08	-0.05	2902	1.0
y_mean[1628]	-0.07	4.2e-4	0.02	-0.12	-0.09	-0.07	-0.06	-0.03	3237	1.0
y_mean[1629]	-0.19	5.1e-4	0.03	-0.24	-0.2	-0.19	-0.17	-0.13	3033	1.0
y_mean[1630]	-0.31	6.2e-4	0.04	-0.38	-0.33	-0.31	-0.28	-0.23	3583	1.0
y_mean[1631]	-0.27	8.1e-4	0.05	-0.36	-0.3	-0.27	-0.23	-0.16	4132	1.0
y_mean[1632]	-0.53	3.8e-4	0.02	-0.58	-0.55	-0.53	-0.52	-0.49	3165	1.0
y_mean[1633]	0.67	6.4e-4	0.04	0.59	0.64	0.67	0.69	0.74	3918	1.0
y_mean[1634]	0.06	5.9e-4	0.03	-1.1e-3	0.04	0.06	0.08	0.12	2907	1.0
y_mean[1635]	-0.45	4.5e-4	0.02	-0.49	-0.46	-0.45	-0.43	-0.4	2959	1.0
y_mean[1636]	0.57	4.7e-4	0.03	0.51	0.55	0.57	0.59	0.64	4849	1.0
y_mean[1637]	-0.47	4.7e-4	0.02	-0.52	-0.49	-0.47	-0.45	-0.42	2719	1.0
y_mean[1638]	-0.09	4.2e-4	0.02	-0.13	-0.1	-0.09	-0.07	-0.04	3014	1.0
y_mean[1639]	-0.64	7.1e-4	0.04	-0.72	-0.67	-0.64	-0.62	-0.56	3349	1.0
y_mean[1640]	-0.45	3.3e-4	0.02	-0.49	-0.46	-0.45	-0.44	-0.41	3613	1.0
y_mean[1641]	-0.21	4.6e-4	0.03	-0.26	-0.23	-0.21	-0.19	-0.15	3373	1.0
y_mean[1642]	-0.51	3.9e-4	0.02	-0.55	-0.52	-0.51	-0.49	-0.47	3025	1.0
y_mean[1643]	-0.05	6.4e-4	0.04	-0.12	-0.08	-0.05	-0.03	0.02	3319	1.0
y_mean[1644]	-0.12	5.1e-4	0.03	-0.17	-0.14	-0.12	-0.1	-0.06	2895	1.0
y_mean[1645]	2.15	9.3e-4	0.06	2.03	2.11	2.15	2.19	2.27	4316	1.0
y_mean[1646]	-0.45	4.6e-4	0.03	-0.5	-0.47	-0.45	-0.43	-0.4	3318	1.0
y_mean[1647]	0.17	4.3e-4	0.03	0.12	0.15	0.17	0.19	0.22	3447	1.0
y_mean[1648]	-0.26	7.1e-4	0.04	-0.34	-0.29	-0.26	-0.23	-0.18	3467	1.0
y_mean[1649]	-0.12	4.6e-4	0.02	-0.16	-0.13	-0.12	-0.1	-0.07	2843	1.0
y_mean[1650]	-0.12	4.2e-4	0.02	-0.17	-0.14	-0.12	-0.11	-0.08	2989	1.0
y_mean[1651]	-0.39	4.5e-4	0.03	-0.44	-0.41	-0.39	-0.37	-0.34	3470	1.0
y_mean[1652]	0.25	6.0e-4	0.04	0.18	0.23	0.25	0.28	0.33	3935	1.0
y_mean[1653]	-0.45	6.8e-4	0.04	-0.52	-0.47	-0.45	-0.42	-0.37	3102	1.0
y_mean[1654]	0.29	9.0e-4	0.06	0.17	0.25	0.29	0.33	0.4	4515	1.0
y_mean[1655]	-0.47	5.8e-4	0.03	-0.53	-0.49	-0.47	-0.44	-0.4	2978	1.0
y_mean[1656]	0.04	7.4e-4	0.05	-0.06	5.2e-3	0.04	0.07	0.14	4433	1.0
y_mean[1657]	-0.35	3.5e-4	0.02	-0.39	-0.37	-0.35	-0.34	-0.31	3406	1.0
y_mean[1658]	0.02	5.9e-4	0.03	-0.05	-4.2e-3	0.02	0.04	0.09	3258	1.0
y_mean[1659]	-0.15	1.0e-3	0.06	-0.27	-0.19	-0.15	-0.11	-0.04	3509	1.0
y_mean[1660]	-0.5	7.1e-4	0.04	-0.58	-0.52	-0.5	-0.47	-0.42	3176	1.0
y_mean[1661]	0.15	6.9e-4	0.04	0.06	0.12	0.15	0.17	0.23	3763	1.0
y_mean[1662]	-0.41	6.8e-4	0.04	-0.49	-0.44	-0.41	-0.39	-0.34	3221	1.0
y_mean[1663]	-0.42	4.8e-4	0.03	-0.47	-0.44	-0.42	-0.41	-0.37	3006	1.0
y_mean[1664]	-0.52	5.8e-4	0.03	-0.59	-0.55	-0.52	-0.5	-0.46	3213	1.0
y_mean[1665]	-0.4	7.8e-4	0.05	-0.5	-0.44	-0.41	-0.37	-0.31	3562	1.0
y_mean[1666]	2.31	1.5e-3	0.1	2.12	2.24	2.31	2.38	2.5	4474	1.0

y_mean[1667]	-0.4	2.9e-4	0.02	-0.44	-0.41	-0.4	-0.39	-0.37	3999	1.0
y_mean[1668]	-0.56	4.1e-4	0.02	-0.61	-0.58	-0.56	-0.55	-0.52	3379	1.0
y_mean[1669]	-1.1e-3	4.7e-4	0.03	-0.06	-0.02	-6.0e-4	0.02	0.06	3687	1.0
y_mean[1670]	0.05	3.7e-4	0.02	2.5e-3	0.03	0.05	0.06	0.09	3536	1.0
y_mean[1671]	1.3	6.2e-4	0.04	1.22	1.28	1.3	1.33	1.39	4648	1.0
y_mean[1672]	0.22	8.4e-4	0.05	0.13	0.19	0.22	0.25	0.32	3280	1.0
y_mean[1673]	1.64	1.3e-3	0.09	1.47	1.58	1.63	1.69	1.8	4628	1.0
y_mean[1674]	-0.55	5.1e-4	0.03	-0.61	-0.57	-0.55	-0.53	-0.49	3562	1.0
y_mean[1675]	-0.56	4.1e-4	0.02	-0.61	-0.58	-0.56	-0.55	-0.51	3302	1.0
y_mean[1676]	1.38	6.5e-4	0.04	1.3	1.35	1.38	1.41	1.47	4347	1.0
y_mean[1677]	-0.55	3.9e-4	0.02	-0.6	-0.57	-0.55	-0.54	-0.51	3238	1.0
y_mean[1678]	-0.47	7.1e-4	0.04	-0.54	-0.49	-0.47	-0.44	-0.39	2718	1.0
y_mean[1679]	-0.42	4.9e-4	0.03	-0.47	-0.44	-0.42	-0.4	-0.36	3108	1.0
y_mean[1680]	-0.19	4.4e-4	0.02	-0.23	-0.2	-0.19	-0.17	-0.14	3192	1.0
y_mean[1681]	-0.63	8.7e-4	0.05	-0.73	-0.66	-0.63	-0.6	-0.53	3400	1.0
y_mean[1682]	-0.7	5.4e-4	0.03	-0.76	-0.72	-0.7	-0.68	-0.63	3532	1.0
y_mean[1683]	-0.69	7.3e-4	0.04	-0.76	-0.71	-0.69	-0.66	-0.61	3061	1.0
y_mean[1684]	0.36	5.9e-4	0.04	0.29	0.33	0.36	0.38	0.43	3559	1.0
y_mean[1685]	-0.43	4.7e-4	0.03	-0.48	-0.45	-0.43	-0.41	-0.38	3029	1.0
y_mean[1686]	-0.68	6.4e-4	0.04	-0.76	-0.71	-0.68	-0.66	-0.61	3494	1.0
y_mean[1687]	-0.52	3.8e-4	0.02	-0.56	-0.53	-0.52	-0.5	-0.48	3074	1.0
y_mean[1688]	-0.52	4.9e-4	0.03	-0.57	-0.54	-0.52	-0.5	-0.47	3140	1.0
y_mean[1689]	-0.05	3.3e-4	0.02	-0.09	-0.06	-0.05	-0.04	-9.1e-3	3899	1.0
y_mean[1690]	-0.53	3.9e-4	0.02	-0.58	-0.55	-0.53	-0.52	-0.49	3187	1.0
y_mean[1691]	0.21	4.5e-4	0.03	0.15	0.19	0.21	0.22	0.26	3767	1.0
y_mean[1692]	-0.53	3.9e-4	0.02	-0.58	-0.55	-0.53	-0.52	-0.49	3057	1.0
y_mean[1693]	-9.6e-3	3.3e-4	0.02	-0.05	-0.02	-9.4e-3	4.3e-3	0.03	3874	1.0
y_mean[1694]	-0.55	3.9e-4	0.02	-0.59	-0.56	-0.55	-0.53	-0.5	3173	1.0
y_mean[1695]	-0.37	5.8e-4	0.03	-0.44	-0.4	-0.37	-0.35	-0.31	3530	1.0
y_mean[1696]	-0.13	4.2e-4	0.02	-0.18	-0.15	-0.13	-0.12	-0.09	2985	1.0
y_mean[1697]	-0.28	6.5e-4	0.04	-0.36	-0.31	-0.28	-0.25	-0.2	3607	1.0
y_mean[1698]	-0.48	4.4e-4	0.03	-0.53	-0.49	-0.48	-0.46	-0.43	3321	1.0
y_mean[1699]	-0.52	6.2e-4	0.04	-0.59	-0.54	-0.52	-0.5	-0.45	3352	1.0
y_mean[1700]	-0.75	7.2e-4	0.04	-0.83	-0.78	-0.75	-0.72	-0.66	3594	1.0
y_mean[1701]	-0.09	6.6e-4	0.04	-0.17	-0.12	-0.09	-0.07	-0.02	3460	1.0
y_mean[1702]	-0.66	7.2e-4	0.04	-0.75	-0.69	-0.66	-0.63	-0.57	3499	1.0
y_mean[1703]	-0.25	5.5e-4	0.03	-0.31	-0.27	-0.25	-0.23	-0.19	3332	1.0
y_mean[1704]	-0.07	4.2e-4	0.02	-0.12	-0.09	-0.07	-0.06	-0.03	3150	1.0
y_mean[1705]	-0.47	3.2e-4	0.02	-0.51	-0.48	-0.47	-0.46	-0.43	3817	1.0
y_mean[1706]	1.66	9.4e-4	0.06	1.54	1.62	1.66	1.7	1.78	4316	1.0
y_mean[1707]	-0.05	4.5e-4	0.03	-0.1	-0.07	-0.05	-0.03	9.9e-3	4172	1.0
y_mean[1708]	0.08	4.6e-4	0.03	0.03	0.06	0.08	0.1	0.13	3224	1.0
y_mean[1709]	0.75	4.9e-4	0.04	0.69	0.73	0.75	0.78	0.82	5401	1.0
y_mean[1710]	-0.11	1.1e-3	0.06	-0.23	-0.15	-0.11	-0.07	4.8e-3	3218	1.0
y_mean[1711]	-0.71	5.8e-4	0.03	-0.77	-0.73	-0.71	-0.68	-0.64	3522	1.0
y_mean[1712]	-0.23	6.8e-4	0.03	-0.29	-0.25	-0.23	-0.2	-0.16	2653	1.0
y_mean[1713]	0.91	1.6e-3	0.09	0.74	0.85	0.91	0.97	1.08	3121	1.0
y_mean[1714]	-0.58	4.6e-4	0.03	-0.64	-0.6	-0.58	-0.57	-0.53	3431	1.0

y_mean[1715]	-0.49	4.2e-4	0.02	-0.53	-0.5	-0.49	-0.47	-0.45	2617	1.0
y_mean[1716]	-0.5	4.7e-4	0.03	-0.55	-0.51	-0.5	-0.48	-0.45	2912	1.0
y_mean[1717]	-0.3	4.9e-4	0.03	-0.35	-0.32	-0.3	-0.28	-0.25	2868	1.0
y_mean[1718]	0.1	5.4e-4	0.03	0.04	0.08	0.1	0.12	0.17	3733	1.0
y_mean[1719]	-0.39	4.4e-4	0.02	-0.44	-0.41	-0.39	-0.37	-0.34	2985	1.0
y_mean[1720]	0.8	8.5e-4	0.06	0.69	0.76	0.8	0.84	0.91	4534	1.0
y_mean[1721]	0.77	7.5e-4	0.04	0.68	0.74	0.77	0.8	0.85	3517	1.0
y_mean[1722]	1.04	9.3e-4	0.06	0.92	0.99	1.04	1.08	1.15	3829	1.0
y_mean[1723]	-0.38	3.1e-4	0.02	-0.42	-0.4	-0.38	-0.37	-0.35	3661	1.0
y_mean[1724]	-0.58	5.8e-4	0.03	-0.65	-0.6	-0.58	-0.55	-0.51	3541	1.0
y_mean[1725]	-0.47	8.5e-4	0.05	-0.56	-0.5	-0.46	-0.43	-0.37	3122	1.0
y_mean[1726]	-0.17	4.3e-4	0.02	-0.22	-0.19	-0.17	-0.16	-0.12	3180	1.0
y_mean[1727]	0.04	8.7e-4	0.04	-0.05	7.0e-3	0.04	0.07	0.12	2486	1.0
y_mean[1728]	-0.47	4.4e-4	0.02	-0.51	-0.49	-0.47	-0.46	-0.43	2590	1.0
y_mean[1729]	0.39	5.1e-4	0.03	0.33	0.37	0.39	0.41	0.45	3871	1.0
y_mean[1730]	-0.12	7.3e-4	0.04	-0.19	-0.14	-0.12	-0.09	-0.04	2770	1.0
y_mean[1731]	-0.45	4.5e-4	0.02	-0.5	-0.47	-0.45	-0.43	-0.4	3044	1.0
y_mean[1732]	-0.4	6.5e-4	0.04	-0.47	-0.42	-0.4	-0.37	-0.33	3303	1.0
y_mean[1733]	-0.01	5.9e-4	0.03	-0.08	-0.04	-0.01	7.7e-3	0.05	3062	1.0
y_mean[1734]	-0.71	6.0e-4	0.04	-0.78	-0.74	-0.71	-0.69	-0.64	3561	1.0
y_mean[1735]	-0.06	4.3e-4	0.02	-0.11	-0.08	-0.06	-0.04	-0.01	3129	1.0
y_mean[1736]	-0.32	7.6e-4	0.04	-0.41	-0.35	-0.32	-0.29	-0.23	3429	1.0
y_mean[1737]	0.65	4.4e-4	0.03	0.59	0.63	0.65	0.67	0.7	4358	1.0
y_mean[1738]	-0.31	9.2e-4	0.05	-0.4	-0.34	-0.31	-0.28	-0.22	2506	1.0
y_mean[1739]	3.37	1.1e-3	0.07	3.23	3.33	3.37	3.42	3.51	3939	1.0
y_mean[1740]	-0.65	7.2e-4	0.04	-0.74	-0.68	-0.65	-0.63	-0.57	3549	1.0
y_mean[1741]	-0.2	4.5e-4	0.03	-0.25	-0.22	-0.2	-0.18	-0.15	3295	1.0
y_mean[1742]	-0.21	4.7e-4	0.03	-0.27	-0.23	-0.21	-0.19	-0.16	3304	1.0
y_mean[1743]	-0.14	8.2e-4	0.04	-0.22	-0.16	-0.14	-0.11	-0.05	2678	1.0
y_mean[1744]	0.42	5.0e-4	0.03	0.36	0.4	0.42	0.44	0.49	3719	1.0
y_mean[1745]	0.78	8.7e-4	0.05	0.68	0.74	0.78	0.81	0.88	3375	1.0
y_mean[1746]	0.48	7.0e-4	0.05	0.38	0.45	0.48	0.52	0.58	5701	1.0
y_mean[1747]	-0.29	6.4e-4	0.04	-0.37	-0.32	-0.29	-0.27	-0.22	3389	1.0
y_mean[1748]	-0.53	5.5e-4	0.03	-0.59	-0.55	-0.53	-0.51	-0.47	3280	1.0
y_mean[1749]	1.92	7.0e-4	0.05	1.82	1.88	1.91	1.95	2.01	5047	1.0
y_mean[1750]	0.18	4.3e-4	0.03	0.13	0.16	0.18	0.19	0.23	3576	1.0
y_mean[1751]	-0.22	4.8e-4	0.03	-0.28	-0.24	-0.22	-0.2	-0.16	3362	1.0
y_mean[1752]	-0.11	4.3e-4	0.02	-0.15	-0.12	-0.11	-0.09	-0.06	2940	1.0
y_mean[1753]	0.11	3.9e-4	0.02	0.07	0.1	0.11	0.13	0.16	3568	1.0
y_mean[1754]	-0.53	4.9e-4	0.03	-0.59	-0.55	-0.53	-0.51	-0.47	3664	1.0
y_mean[1755]	0.56	4.3e-4	0.03	0.5	0.54	0.56	0.58	0.62	4395	1.0
y_mean[1756]	0.47	4.7e-4	0.03	0.41	0.45	0.47	0.49	0.53	4094	1.0
y_mean[1757]	-0.79	6.7e-4	0.04	-0.87	-0.82	-0.79	-0.76	-0.71	3641	1.0
y_mean[1758]	-0.48	5.4e-4	0.03	-0.54	-0.5	-0.48	-0.46	-0.42	3027	1.0
y_mean[1759]	-0.1	3.7e-4	0.02	-0.14	-0.12	-0.1	-0.09	-0.06	3296	1.0
y_mean[1760]	1.56	8.1e-4	0.05	1.45	1.52	1.56	1.59	1.67	4338	1.0
y_mean[1761]	-0.51	3.9e-4	0.02	-0.55	-0.53	-0.51	-0.5	-0.47	2777	1.0
y_mean[1762]	-0.4	6.3e-4	0.03	-0.47	-0.43	-0.4	-0.38	-0.34	2869	1.0

y_mean[1763]	-0.42	7.0e-4	0.04	-0.5	-0.45	-0.42	-0.39	-0.34	3219	1.0
y_mean[1764]	-0.07	5.2e-4	0.03	-0.13	-0.09	-0.07	-0.05	-0.01	3261	1.0
y_mean[1765]	-0.28	7.0e-4	0.04	-0.34	-0.3	-0.28	-0.25	-0.21	2527	1.0
y_mean[1766]	0.31	9.5e-4	0.06	0.19	0.27	0.31	0.35	0.43	4451	1.0
y_mean[1767]	-0.37	5.9e-4	0.03	-0.44	-0.39	-0.37	-0.35	-0.3	3275	1.0
y_mean[1768]	3.07	1.3e-3	0.09	2.9	3.01	3.07	3.13	3.24	4487	1.0
y_mean[1769]	-0.39	4.1e-4	0.02	-0.43	-0.4	-0.39	-0.37	-0.34	3104	1.0
y_mean[1770]	-0.22	6.0e-4	0.03	-0.28	-0.24	-0.22	-0.2	-0.15	2783	1.0
y_mean[1771]	-0.12	6.7e-4	0.04	-0.19	-0.15	-0.12	-0.1	-0.05	3128	1.0
y_mean[1772]	0.56	5.2e-4	0.04	0.5	0.54	0.56	0.59	0.63	4531	1.0
y_mean[1773]	-0.17	5.0e-4	0.03	-0.23	-0.19	-0.17	-0.15	-0.11	3706	1.0
y_mean[1774]	-0.54	3.8e-4	0.02	-0.59	-0.56	-0.54	-0.53	-0.5	3222	1.0
y_mean[1775]	0.19	5.2e-4	0.03	0.13	0.17	0.19	0.21	0.24	3319	1.0
y_mean[1776]	0.49	4.5e-4	0.03	0.43	0.47	0.49	0.51	0.55	3980	1.0
y_mean[1777]	-0.11	5.3e-4	0.03	-0.16	-0.13	-0.11	-0.09	-0.05	2982	1.0
y_mean[1778]	-0.74	5.6e-4	0.04	-0.81	-0.77	-0.74	-0.72	-0.68	3967	1.0
y_mean[1779]	0.02	4.6e-4	0.03	-0.04	-5.2e-4	0.02	0.04	0.07	3595	1.0
y_mean[1780]	-0.17	7.0e-4	0.04	-0.25	-0.2	-0.17	-0.15	-0.1	2644	1.0
y_mean[1781]	-0.09	6.2e-4	0.03	-0.15	-0.11	-0.09	-0.06	-0.02	3076	1.0
y_mean[1782]	-0.38	5.6e-4	0.03	-0.44	-0.4	-0.38	-0.36	-0.32	2926	1.0
y_mean[1783]	0.34	1.1e-3	0.07	0.2	0.29	0.34	0.39	0.48	4446	1.0
y_mean[1784]	0.66	5.9e-4	0.04	0.59	0.64	0.66	0.69	0.73	3574	1.0
y_mean[1785]	-0.31	5.7e-4	0.03	-0.37	-0.33	-0.31	-0.29	-0.26	2760	1.0
y_mean[1786]	0.65	5.6e-4	0.04	0.58	0.63	0.65	0.68	0.73	4269	1.0
y_mean[1787]	-0.51	8.0e-4	0.04	-0.59	-0.54	-0.51	-0.48	-0.42	2740	1.0
y_mean[1788]	0.19	6.0e-4	0.03	0.13	0.17	0.19	0.21	0.26	2970	1.0
y_mean[1789]	-0.73	1.0e-3	0.06	-0.86	-0.78	-0.73	-0.69	-0.61	3821	1.0
y_mean[1790]	-0.07	4.6e-4	0.03	-0.11	-0.08	-0.07	-0.05	-0.02	2999	1.0
y_mean[1791]	-4.3e-3	5.9e-4	0.03	-0.07	-0.03	-4.2e-3	0.02	0.06	3132	1.0
y_mean[1792]	-0.43	5.3e-4	0.03	-0.48	-0.45	-0.43	-0.41	-0.37	2743	1.0
y_mean[1793]	-0.66	6.4e-4	0.04	-0.74	-0.69	-0.66	-0.64	-0.59	3398	1.0
y_mean[1794]	0.68	5.3e-4	0.04	0.61	0.65	0.68	0.7	0.75	4429	1.0
y_mean[1795]	-0.46	4.4e-4	0.02	-0.51	-0.48	-0.46	-0.45	-0.42	2591	1.0
y_mean[1796]	-0.45	4.4e-4	0.02	-0.5	-0.47	-0.45	-0.44	-0.41	2948	1.0
y_mean[1797]	0.47	5.8e-4	0.04	0.4	0.44	0.47	0.5	0.55	4403	1.0
y_mean[1798]	-0.51	4.1e-4	0.02	-0.56	-0.53	-0.51	-0.5	-0.47	3206	1.0
y_mean[1799]	-0.53	3.8e-4	0.02	-0.57	-0.54	-0.53	-0.52	-0.49	2996	1.0
y_mean[1800]	-0.54	3.8e-4	0.02	-0.59	-0.56	-0.54	-0.53	-0.5	3201	1.0
ypred[1]	-0.04	9.8e-3	0.6	-1.21	-0.45	-0.04	0.36	1.14	3793	1.0
ypred[2]	0.62	9.0e-3	0.59	-0.54	0.22	0.62	1.01	1.81	4364	1.0
ypred[3]	0.27	9.4e-3	0.6	-0.94	-0.14	0.28	0.7	1.39	4094	1.0
ypred[4]	0.73	9.9e-3	0.59	-0.43	0.32	0.72	1.14	1.9	3607	1.0
ypred[5]	-0.2	9.1e-3	0.59	-1.38	-0.6	-0.2	0.2	0.96	4263	1.0
ypred[6]	-0.29	9.3e-3	0.59	-1.46	-0.69	-0.3	0.11	0.87	4022	1.0
ypred[7]	-0.38	0.01	0.59	-1.51	-0.78	-0.4	0.02	0.79	3430	1.0
ypred[8]	-0.75	9.3e-3	0.58	-1.86	-1.14	-0.76	-0.37	0.38	3860	1.0
ypred[9]	0.13	9.7e-3	0.59	-1.02	-0.25	0.13	0.53	1.29	3676	1.0
ypred[10]	2.09	9.9e-3	0.61	0.9	1.69	2.09	2.49	3.3	3713	1.0

ypred[11]	-0.04	9.6e-3	0.6	-1.2	-0.44	-0.04	0.37	1.15	3878	1.0
ypred[12]	2.45	9.5e-3	0.6	1.25	2.06	2.45	2.84	3.63	4037	1.0
ypred[13]	-0.7	9.6e-3	0.59	-1.87	-1.08	-0.69	-0.3	0.45	3774	1.0
ypred[14]	-0.29	9.3e-3	0.6	-1.46	-0.69	-0.28	0.11	0.89	4171	1.0
ypred[15]	-0.58	9.3e-3	0.59	-1.75	-0.97	-0.59	-0.19	0.58	3991	1.0
ypred[16]	-0.46	9.5e-3	0.6	-1.64	-0.86	-0.46	-0.06	0.71	4044	1.0
ypred[17]	2.67	9.2e-3	0.59	1.5	2.26	2.68	3.07	3.87	4164	1.0
ypred[18]	1.28	9.6e-3	0.6	0.09	0.89	1.29	1.69	2.44	3870	1.0
ypred[19]	-0.71	0.01	0.61	-1.92	-1.13	-0.69	-0.3	0.46	3455	1.0
ypred[20]	0.23	9.3e-3	0.59	-0.91	-0.17	0.22	0.64	1.38	4052	1.0
ypred[21]	0.5	9.6e-3	0.6	-0.7	0.1	0.51	0.9	1.68	3936	1.0
ypred[22]	-0.2	9.5e-3	0.59	-1.34	-0.6	-0.21	0.21	0.97	3849	1.0
ypred[23]	-0.55	9.6e-3	0.6	-1.75	-0.94	-0.55	-0.15	0.64	3948	1.0
ypred[24]	-0.3	0.01	0.6	-1.5	-0.7	-0.29	0.11	0.86	3605	1.0
ypred[25]	-0.53	9.4e-3	0.59	-1.7	-0.94	-0.51	-0.11	0.62	4002	1.0
ypred[26]	-0.53	0.01	0.61	-1.71	-0.95	-0.52	-0.12	0.71	3622	1.0
ypred[27]	-0.08	9.5e-3	0.6	-1.26	-0.49	-0.08	0.32	1.09	4035	1.0
ypred[28]	-0.39	9.1e-3	0.6	-1.56	-0.81	-0.39	0.01	0.77	4303	1.0
ypred[29]	-0.06	9.6e-3	0.6	-1.23	-0.46	-0.05	0.34	1.11	3904	1.0
ypred[30]	-0.56	9.7e-3	0.6	-1.74	-0.97	-0.57	-0.15	0.6	3862	1.0
ypred[31]	-0.48	9.4e-3	0.59	-1.68	-0.86	-0.48	-0.07	0.64	3938	1.0
ypred[32]	-0.57	9.6e-3	0.59	-1.72	-0.96	-0.57	-0.17	0.6	3723	1.0
ypred[33]	-0.28	9.5e-3	0.59	-1.42	-0.69	-0.28	0.12	0.86	3914	1.0
ypred[34]	-0.45	9.7e-3	0.6	-1.64	-0.85	-0.45	-0.04	0.7	3821	1.0
ypred[35]	-0.51	9.4e-3	0.6	-1.7	-0.9	-0.51	-0.11	0.66	4072	1.0
ypred[36]	-0.08	9.6e-3	0.61	-1.24	-0.48	-0.07	0.34	1.1	3965	1.0
ypred[37]	0.19	9.3e-3	0.59	-0.98	-0.21	0.18	0.59	1.34	4031	1.0
ypred[38]	-0.75	9.5e-3	0.6	-1.89	-1.15	-0.75	-0.34	0.42	3996	1.0
ypred[39]	-0.38	9.2e-3	0.6	-1.58	-0.77	-0.39	0.02	0.8	4234	1.0
ypred[40]	-0.59	9.2e-3	0.59	-1.76	-0.98	-0.6	-0.21	0.58	4057	1.0
ypred[41]	2.16	9.5e-3	0.6	1.01	1.75	2.17	2.55	3.35	4050	1.0
ypred[42]	-0.32	9.6e-3	0.61	-1.51	-0.74	-0.31	0.09	0.87	4006	1.0
ypred[43]	0.87	9.4e-3	0.59	-0.3	0.47	0.86	1.25	2.05	4027	1.0
ypred[44]	-0.33	9.6e-3	0.6	-1.5	-0.73	-0.33	0.07	0.86	3843	1.0
ypred[45]	1.45	9.6e-3	0.61	0.29	1.02	1.45	1.86	2.64	3974	1.0
ypred[46]	-0.4	9.7e-3	0.61	-1.58	-0.81	-0.41	0.02	0.81	4034	1.0
ypred[47]	0.85	9.3e-3	0.59	-0.31	0.44	0.84	1.25	2.01	4059	1.0
ypred[48]	-0.13	9.4e-3	0.6	-1.3	-0.52	-0.13	0.27	1.03	4010	1.0
ypred[49]	-0.79	9.5e-3	0.59	-1.95	-1.18	-0.79	-0.39	0.4	3862	1.0
ypred[50]	-0.39	9.7e-3	0.6	-1.56	-0.78	-0.38	0.01	0.79	3760	1.0
ypred[51]	-0.42	9.4e-3	0.6	-1.6	-0.82	-0.42	-6.2e-3	0.78	4125	1.0
ypred[52]	0.59	9.3e-3	0.59	-0.53	0.19	0.58	1.01	1.72	4028	1.0
ypred[53]	-0.05	9.0e-3	0.59	-1.2	-0.46	-0.05	0.36	1.11	4306	1.0
ypred[54]	-0.59	9.4e-3	0.59	-1.76	-0.98	-0.58	-0.19	0.55	3957	1.0
ypred[55]	-0.55	9.3e-3	0.58	-1.69	-0.94	-0.56	-0.17	0.61	3914	1.0
ypred[56]	-0.24	9.2e-3	0.59	-1.41	-0.64	-0.24	0.15	0.92	4093	1.0
ypred[57]	-0.4	9.4e-3	0.59	-1.57	-0.8	-0.4	-2.4e-3	0.77	3941	1.0
ypred[58]	-0.7	9.8e-3	0.6	-1.88	-1.11	-0.7	-0.29	0.46	3737	1.0

ypred[59]	-0.39	9.5e-3	0.59	-1.58	-0.77	-0.39	3.2e-3	0.77	3911	1.0
ypred[60]	-0.25	9.8e-3	0.59	-1.41	-0.67	-0.25	0.15	0.89	3600	1.0
ypred[61]	0.12	9.5e-3	0.6	-1.03	-0.3	0.12	0.54	1.3	4066	1.0
ypred[62]	-0.47	9.6e-3	0.59	-1.59	-0.87	-0.47	-0.08	0.66	3786	1.0
ypred[63]	-0.71	9.9e-3	0.6	-1.9	-1.12	-0.71	-0.3	0.46	3627	1.0
ypred[64]	-0.3	9.3e-3	0.6	-1.51	-0.71	-0.31	0.1	0.86	4080	1.0
ypred[65]	0.57	9.7e-3	0.58	-0.56	0.18	0.57	0.97	1.72	3654	1.0
ypred[66]	-0.53	9.3e-3	0.59	-1.7	-0.92	-0.53	-0.14	0.63	4010	1.0
ypred[67]	-0.47	9.2e-3	0.59	-1.66	-0.86	-0.47	-0.07	0.68	4165	1.0
ypred[68]	-0.29	9.7e-3	0.6	-1.46	-0.7	-0.29	0.12	0.9	3833	1.0
ypred[69]	-0.73	9.7e-3	0.6	-1.93	-1.14	-0.73	-0.31	0.46	3855	1.0
ypred[70]	0.09	9.3e-3	0.6	-1.06	-0.31	0.09	0.5	1.25	4113	1.0
ypred[71]	-0.15	9.7e-3	0.6	-1.34	-0.55	-0.15	0.26	1.02	3902	1.0
ypred[72]	-0.73	9.5e-3	0.59	-1.85	-1.14	-0.74	-0.33	0.45	3870	1.0
ypred[73]	-0.35	9.2e-3	0.59	-1.51	-0.74	-0.34	0.06	0.8	4092	1.0
ypred[74]	-0.53	9.6e-3	0.6	-1.7	-0.92	-0.53	-0.12	0.65	3818	1.0
ypred[75]	-0.55	9.6e-3	0.6	-1.72	-0.95	-0.57	-0.15	0.63	3826	1.0
ypred[76]	-0.54	9.2e-3	0.59	-1.67	-0.94	-0.55	-0.14	0.61	4070	1.0
ypred[77]	-0.18	9.4e-3	0.59	-1.37	-0.56	-0.17	0.22	0.97	3955	1.0
ypred[78]	-0.41	9.9e-3	0.6	-1.58	-0.83	-0.4	-6.7e-3	0.81	3743	1.0
ypred[79]	-0.49	0.01	0.59	-1.69	-0.89	-0.48	-0.09	0.69	3497	1.0
ypred[80]	-0.03	9.8e-3	0.61	-1.26	-0.45	-0.03	0.38	1.18	3948	1.0
ypred[81]	-0.13	9.7e-3	0.6	-1.32	-0.54	-0.13	0.28	1.03	3886	1.0
ypred[82]	-0.85	9.7e-3	0.6	-2.0	-1.25	-0.85	-0.46	0.34	3835	1.0
ypred[83]	-0.41	0.01	0.6	-1.56	-0.82	-0.41	4.7e-3	0.79	3431	1.0
ypred[84]	-0.73	9.5e-3	0.59	-1.88	-1.12	-0.73	-0.34	0.44	3835	1.0
ypred[85]	-0.42	9.8e-3	0.59	-1.57	-0.82	-0.41	-0.03	0.75	3647	1.0
ypred[86]	-0.61	9.4e-3	0.59	-1.8	-0.99	-0.62	-0.21	0.58	3945	1.0
ypred[87]	-0.37	9.1e-3	0.59	-1.53	-0.78	-0.38	0.04	0.81	4210	1.0
ypred[88]	-0.28	9.7e-3	0.6	-1.43	-0.69	-0.27	0.13	0.88	3924	1.0
ypred[89]	0.57	9.6e-3	0.6	-0.59	0.17	0.57	0.98	1.71	3805	1.0
ypred[90]	-0.24	9.5e-3	0.59	-1.42	-0.64	-0.24	0.16	0.9	3872	1.0
ypred[91]	0.02	9.2e-3	0.59	-1.15	-0.38	0.03	0.41	1.19	4158	1.0
ypred[92]	-0.1	0.01	0.6	-1.28	-0.51	-0.1	0.3	1.05	3444	1.0
ypred[93]	-0.63	0.01	0.59	-1.8	-1.03	-0.64	-0.23	0.53	3512	1.0
ypred[94]	1.27	9.4e-3	0.59	0.13	0.85	1.27	1.68	2.4	3899	1.0
ypred[95]	-0.27	9.6e-3	0.6	-1.43	-0.68	-0.26	0.14	0.93	3894	1.0
ypred[96]	-0.57	9.3e-3	0.6	-1.78	-0.98	-0.58	-0.16	0.57	4177	1.0
ypred[97]	0.49	9.7e-3	0.6	-0.67	0.08	0.48	0.9	1.67	3852	1.0
ypred[98]	-0.57	9.8e-3	0.6	-1.79	-0.96	-0.56	-0.15	0.61	3786	1.0
ypred[99]	-0.13	9.8e-3	0.6	-1.28	-0.54	-0.13	0.26	1.05	3694	1.0
ypred[100]	0.58	9.8e-3	0.6	-0.57	0.17	0.57	0.97	1.76	3742	1.0
ypred[101]	0.48	9.6e-3	0.6	-0.68	0.07	0.48	0.89	1.63	3877	1.0
ypred[102]	-0.63	9.9e-3	0.59	-1.79	-1.04	-0.63	-0.22	0.55	3579	1.0
ypred[103]	-0.58	9.7e-3	0.59	-1.75	-0.97	-0.58	-0.19	0.58	3646	1.0
ypred[104]	-0.5	9.4e-3	0.6	-1.65	-0.91	-0.5	-0.09	0.66	4104	1.0
ypred[105]	-0.4	9.5e-3	0.6	-1.56	-0.81	-0.4	-4.7e-3	0.76	3966	1.0
ypred[106]	-0.24	9.7e-3	0.6	-1.4	-0.65	-0.25	0.15	0.95	3803	1.0

ypred[107]	-0.17	9.1e-3	0.58	-1.31	-0.55	-0.16	0.22	0.97	4126	1.0
ypred[108]	-0.76	9.6e-3	0.59	-1.95	-1.16	-0.77	-0.36	0.41	3847	1.0
ypred[109]	0.59	9.3e-3	0.59	-0.62	0.19	0.6	0.98	1.73	4078	1.0
ypred[110]	-0.42	9.1e-3	0.6	-1.58	-0.82	-0.41	-6.6e-3	0.72	4270	1.0
ypred[111]	5.65	0.01	0.63	4.4	5.22	5.63	6.08	6.89	3883	1.0
ypred[112]	-0.08	9.3e-3	0.6	-1.24	-0.48	-0.07	0.32	1.09	4083	1.0
ypred[113]	-0.28	9.1e-3	0.6	-1.44	-0.69	-0.28	0.13	0.93	4324	1.0
ypred[114]	-0.74	9.5e-3	0.58	-1.89	-1.14	-0.73	-0.34	0.41	3750	1.0
ypred[115]	-0.56	9.4e-3	0.6	-1.75	-0.97	-0.56	-0.17	0.63	4037	1.0
ypred[116]	-0.55	9.6e-3	0.61	-1.73	-0.96	-0.56	-0.16	0.64	3988	1.0
ypred[117]	-0.4	9.6e-3	0.59	-1.53	-0.81	-0.4	-0.01	0.75	3770	1.0
ypred[118]	-0.56	9.6e-3	0.6	-1.75	-0.97	-0.57	-0.16	0.63	3924	1.0
ypred[119]	-0.6	9.7e-3	0.6	-1.78	-1.01	-0.59	-0.19	0.59	3814	1.0
ypred[120]	0.05	9.6e-3	0.6	-1.1	-0.37	0.06	0.46	1.21	3855	1.0
ypred[121]	0.51	9.5e-3	0.59	-0.66	0.11	0.49	0.91	1.7	3894	1.0
ypred[122]	-0.51	9.7e-3	0.61	-1.7	-0.92	-0.51	-0.09	0.67	3972	1.0
ypred[123]	-0.35	9.4e-3	0.6	-1.52	-0.75	-0.36	0.05	0.86	4014	1.0
ypred[124]	-0.75	9.9e-3	0.6	-1.93	-1.14	-0.75	-0.34	0.39	3711	1.0
ypred[125]	-0.58	9.7e-3	0.61	-1.77	-0.98	-0.58	-0.16	0.61	3932	1.0
ypred[126]	0.18	9.4e-3	0.6	-0.96	-0.23	0.17	0.58	1.36	4031	1.0
ypred[127]	-0.69	9.5e-3	0.61	-1.88	-1.09	-0.68	-0.27	0.54	4095	1.0
ypred[128]	-0.39	9.4e-3	0.59	-1.55	-0.8	-0.38	0.01	0.74	3969	1.0
ypred[129]	0.39	9.3e-3	0.59	-0.72	-6.8e-3	0.39	0.79	1.55	4048	1.0
ypred[130]	-0.12	9.3e-3	0.6	-1.3	-0.52	-0.12	0.27	1.07	4064	1.0
ypred[131]	-0.49	9.1e-3	0.59	-1.65	-0.9	-0.49	-0.09	0.69	4189	1.0
ypred[132]	1.4	9.3e-3	0.6	0.21	1.0	1.4	1.81	2.57	4209	1.0
ypred[133]	1.61	9.2e-3	0.59	0.43	1.21	1.62	2.02	2.72	4152	1.0
ypred[134]	0.07	9.5e-3	0.59	-1.1	-0.31	0.07	0.47	1.27	3926	1.0
ypred[135]	8.3e-3	9.3e-3	0.59	-1.12	-0.4	6.3e-3	0.4	1.16	3994	1.0
ypred[136]	-0.56	9.6e-3	0.6	-1.72	-0.98	-0.55	-0.16	0.61	3902	1.0
ypred[137]	-0.5	9.4e-3	0.6	-1.69	-0.9	-0.5	-0.08	0.66	3996	1.0
ypred[138]	0.16	9.5e-3	0.59	-1.02	-0.23	0.16	0.55	1.33	3873	1.0
ypred[139]	-0.58	9.2e-3	0.59	-1.77	-0.97	-0.58	-0.18	0.58	4169	1.0
ypred[140]	-0.45	0.01	0.6	-1.63	-0.84	-0.44	-0.05	0.73	3478	1.0
ypred[141]	-0.4	9.3e-3	0.6	-1.58	-0.8	-0.39	-0.01	0.79	4115	1.0
ypred[142]	-0.59	9.8e-3	0.6	-1.74	-0.99	-0.58	-0.2	0.58	3670	1.0
ypred[143]	-0.35	9.7e-3	0.6	-1.51	-0.77	-0.35	0.06	0.83	3904	1.0
ypred[144]	-0.57	9.3e-3	0.6	-1.73	-0.97	-0.58	-0.16	0.66	4169	1.0
ypred[145]	-0.58	10.0e-3	0.59	-1.73	-0.98	-0.59	-0.17	0.52	3526	1.0
ypred[146]	-0.79	0.01	0.6	-1.98	-1.19	-0.79	-0.41	0.42	3607	1.0
ypred[147]	-0.26	9.7e-3	0.6	-1.43	-0.67	-0.27	0.15	0.94	3816	1.0
ypred[148]	-0.44	9.2e-3	0.59	-1.61	-0.85	-0.45	-0.04	0.7	4113	1.0
ypred[149]	0.05	9.5e-3	0.6	-1.1	-0.36	0.06	0.46	1.26	4058	1.0
ypred[150]	0.49	9.5e-3	0.6	-0.69	0.09	0.49	0.89	1.65	3955	1.0
ypred[151]	-0.09	9.4e-3	0.6	-1.28	-0.51	-0.11	0.32	1.07	4067	1.0
ypred[152]	-0.02	9.5e-3	0.6	-1.22	-0.43	-0.02	0.39	1.13	4016	1.0
ypred[153]	-0.54	9.4e-3	0.59	-1.68	-0.93	-0.54	-0.14	0.66	3915	1.0
ypred[154]	-0.53	0.01	0.59	-1.71	-0.93	-0.54	-0.13	0.63	3461	1.0

ypred[155]	-0.3	9.7e-3	0.6	-1.46	-0.71	-0.3	0.11	0.87	3850	1.0
ypred[156]	-0.39	9.2e-3	0.58	-1.55	-0.78	-0.4	2.1e-3	0.77	4058	1.0
ypred[157]	-0.63	9.8e-3	0.6	-1.84	-1.03	-0.63	-0.23	0.56	3728	1.0
ypred[158]	-0.47	9.0e-3	0.59	-1.61	-0.87	-0.46	-0.07	0.68	4242	1.0
ypred[159]	0.03	9.1e-3	0.59	-1.13	-0.37	0.03	0.44	1.16	4209	1.0
ypred[160]	-0.43	9.3e-3	0.6	-1.59	-0.83	-0.42	-0.02	0.74	4099	1.0
ypred[161]	-0.08	9.3e-3	0.59	-1.26	-0.47	-0.06	0.33	1.04	4066	1.0
ypred[162]	-0.58	9.4e-3	0.6	-1.76	-0.98	-0.59	-0.19	0.61	4070	1.0
ypred[163]	-0.17	9.3e-3	0.6	-1.37	-0.57	-0.17	0.22	1.0	4100	1.0
ypred[164]	0.09	9.5e-3	0.59	-1.03	-0.32	0.09	0.47	1.28	3869	1.0
ypred[165]	-0.11	9.6e-3	0.6	-1.3	-0.5	-0.1	0.31	1.07	3937	1.0
ypred[166]	-0.45	9.6e-3	0.59	-1.61	-0.85	-0.45	-0.06	0.72	3795	1.0
ypred[167]	-0.35	9.7e-3	0.6	-1.51	-0.73	-0.34	0.04	0.82	3778	1.0
ypred[168]	0.55	9.3e-3	0.59	-0.62	0.15	0.53	0.96	1.7	4029	1.0
ypred[169]	2.44	9.5e-3	0.61	1.27	2.02	2.44	2.85	3.64	4087	1.0
ypred[170]	0.5	9.8e-3	0.61	-0.68	0.09	0.51	0.92	1.67	3836	1.0
ypred[171]	-0.35	9.5e-3	0.6	-1.52	-0.75	-0.35	0.06	0.83	3969	1.0
ypred[172]	1.38	9.2e-3	0.59	0.23	0.98	1.38	1.78	2.54	4209	1.0
ypred[173]	-0.71	9.7e-3	0.6	-1.86	-1.13	-0.72	-0.3	0.45	3854	1.0
ypred[174]	-0.42	9.6e-3	0.59	-1.6	-0.82	-0.42	-0.03	0.75	3803	1.0
ypred[175]	-0.09	9.3e-3	0.6	-1.31	-0.49	-0.07	0.32	1.07	4093	1.0
ypred[176]	-0.45	9.3e-3	0.6	-1.64	-0.86	-0.45	-0.06	0.75	4177	1.0
ypred[177]	-0.33	9.2e-3	0.59	-1.48	-0.73	-0.33	0.08	0.82	4142	1.0
ypred[178]	-0.49	9.7e-3	0.6	-1.67	-0.89	-0.49	-0.09	0.64	3768	1.0
ypred[179]	0.36	9.7e-3	0.6	-0.81	-0.05	0.38	0.77	1.53	3795	1.0
ypred[180]	-0.63	9.6e-3	0.6	-1.82	-1.03	-0.64	-0.22	0.58	3967	1.0
ypred[181]	-0.14	9.4e-3	0.6	-1.3	-0.55	-0.14	0.27	1.0	4024	1.0
ypred[182]	-0.28	9.2e-3	0.59	-1.43	-0.69	-0.29	0.12	0.92	4199	1.0
ypred[183]	-0.57	9.4e-3	0.6	-1.75	-0.98	-0.57	-0.18	0.6	4053	1.0
ypred[184]	-0.43	9.5e-3	0.6	-1.64	-0.83	-0.43	-0.01	0.74	4039	1.0
ypred[185]	-0.49	9.6e-3	0.59	-1.64	-0.88	-0.5	-0.1	0.67	3773	1.0
ypred[186]	3.08	9.7e-3	0.61	1.88	2.67	3.07	3.49	4.26	3998	1.0
ypred[187]	-0.55	9.5e-3	0.61	-1.73	-0.96	-0.54	-0.13	0.64	4055	1.0
ypred[188]	-0.59	9.2e-3	0.6	-1.78	-0.99	-0.59	-0.19	0.6	4247	1.0
ypred[189]	-0.11	9.6e-3	0.59	-1.27	-0.5	-0.11	0.29	1.03	3759	1.0
ypred[190]	-0.23	9.7e-3	0.6	-1.39	-0.63	-0.23	0.17	0.97	3803	1.0
ypred[191]	1.74	9.5e-3	0.6	0.57	1.35	1.74	2.14	2.91	3890	1.0
ypred[192]	-0.13	9.1e-3	0.59	-1.31	-0.53	-0.14	0.27	1.0	4164	1.0
ypred[193]	3.41	9.7e-3	0.61	2.19	3.01	3.39	3.81	4.61	3897	1.0
ypred[194]	-0.61	9.7e-3	0.61	-1.79	-1.03	-0.62	-0.2	0.61	3897	1.0
ypred[195]	-0.31	9.3e-3	0.59	-1.47	-0.7	-0.3	0.08	0.83	3963	1.0
ypred[196]	0.17	9.3e-3	0.59	-0.96	-0.24	0.17	0.56	1.31	3973	1.0
ypred[197]	-0.62	9.4e-3	0.59	-1.8	-1.01	-0.63	-0.22	0.55	3990	1.0
ypred[198]	-0.45	9.5e-3	0.6	-1.61	-0.85	-0.45	-0.03	0.68	3976	1.0
ypred[199]	-0.29	9.7e-3	0.6	-1.45	-0.69	-0.28	0.12	0.84	3758	1.0
ypred[200]	0.51	9.6e-3	0.6	-0.66	0.1	0.52	0.91	1.67	4007	1.0
y_predicted[1]	-0.03	1.4e-3	0.09	-0.21	-0.09	-0.04	0.02	0.14	4137	1.0
y_predicted[2]	0.62	4.9e-4	0.03	0.56	0.6	0.62	0.65	0.69	4482	1.0

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y_predicted[3]     0.27  9.4e-4   0.07   0.13   0.22   0.27   0.31    0.4  5452  1.0
y_predicted[4]     0.72  7.4e-4   0.04   0.63   0.69   0.72   0.75   0.81  3563  1.0
y_predicted[5]    -0.21  4.8e-4   0.03  -0.26  -0.22  -0.21  -0.19  -0.15  3527  1.0
y_predicted[6]    -0.28  6.6e-4   0.04  -0.35   -0.3  -0.28  -0.25   -0.2  3456  1.0
y_predicted[7]    -0.38  6.6e-4   0.04  -0.46   -0.4  -0.38  -0.35  -0.29  4085  1.0
y_predicted[8]    -0.73  6.0e-4   0.04   -0.8  -0.75  -0.73   -0.7  -0.66  3601  1.0
y_predicted[9]     0.14  6.3e-4   0.04   0.06   0.12   0.14   0.17   0.22  3976  1.0
y_predicted[10]    2.09  1.4e-3   0.09   1.92   2.03   2.09   2.15   2.26  4148  1.0
y_predicted[11]   -0.05  5.6e-4   0.03  -0.11  -0.07  -0.05  -0.03   0.01  3015  1.0
y_predicted[12]    2.47  1.2e-3   0.08   2.31   2.41   2.47   2.52   2.63  4612  1.0
y_predicted[13]    -0.7  5.6e-4   0.03  -0.77  -0.72   -0.7  -0.68  -0.63  3713  1.0
y_predicted[14]    -0.3  7.3e-4   0.04  -0.39  -0.33  -0.31  -0.28  -0.22  3340  1.0
y_predicted[15]   -0.59  4.6e-4   0.03  -0.64   -0.6  -0.59  -0.57  -0.53  3455  1.0
y_predicted[16]   -0.48  4.2e-4   0.02  -0.52  -0.49  -0.48  -0.46  -0.43  2619  1.0
y_predicted[17]    2.67  1.4e-3    0.1   2.47    2.6   2.67   2.73   2.86  4732  1.0
y_predicted[18]    1.28  7.0e-4   0.05   1.18   1.25   1.28   1.31   1.38  4821  1.0
y_predicted[19]   -0.72  5.3e-4   0.03  -0.78  -0.74  -0.72   -0.7  -0.66  3715  1.0
y_predicted[20]    0.22  5.9e-4   0.03   0.16    0.2   0.22   0.25   0.29  3402  1.0
y_predicted[21]    0.51  4.4e-4   0.03   0.45   0.49   0.51   0.53   0.57  4133  1.0
y_predicted[22]    -0.2  8.5e-4   0.04  -0.29  -0.23   -0.2  -0.17  -0.11  2713  1.0
y_predicted[23]   -0.55  5.4e-4   0.03  -0.61  -0.57  -0.55  -0.53  -0.49  3410  1.0
y_predicted[24]   -0.33  4.2e-4   0.03  -0.38  -0.34  -0.33  -0.31  -0.28  3537  1.0
y_predicted[25]   -0.53  4.5e-4   0.02  -0.58  -0.55  -0.53  -0.52  -0.48  3119  1.0
y_predicted[26]   -0.52  4.3e-4   0.02  -0.56  -0.53  -0.52   -0.5  -0.47  2964  1.0
y_predicted[27]   -0.09  4.4e-4   0.02  -0.14  -0.11  -0.09  -0.08  -0.05  2913  1.0
y_predicted[28]   -0.39  4.3e-4   0.03  -0.44   -0.4  -0.39  -0.37  -0.34  3414  1.0
y_predicted[29]   -0.05  4.3e-4   0.02   -0.1  -0.07  -0.05  -0.04 -5.4e-3 3127  1.0
y_predicted[30]   -0.56  4.4e-4   0.03  -0.61  -0.57  -0.56  -0.54  -0.51  3447  1.0
y_predicted[31]   -0.47  7.4e-4   0.04  -0.55   -0.5  -0.47  -0.44  -0.39  3198  1.0
y_predicted[32]   -0.55  6.2e-4   0.04  -0.63  -0.58  -0.55  -0.53  -0.48  3561  1.0
y_predicted[33]   -0.29  7.2e-4   0.04  -0.37  -0.32  -0.29  -0.26  -0.21  3420  1.0
y_predicted[34]   -0.43  6.1e-4   0.03  -0.49  -0.45  -0.43  -0.41  -0.36  3009  1.0
y_predicted[35]   -0.52  4.4e-4   0.03  -0.57  -0.54  -0.52   -0.5  -0.47  3498  1.0
y_predicted[36]   -0.09  4.6e-4   0.03  -0.15  -0.11   -0.1  -0.07  -0.04  4033  1.0
y_predicted[37]    0.18  5.8e-4   0.03   0.11   0.15   0.18    0.2   0.24  2951  1.0
y_predicted[38]   -0.74  5.5e-4   0.03  -0.81  -0.76  -0.74  -0.72  -0.68  3672  1.0
y_predicted[39]   -0.38  5.9e-4   0.03  -0.45  -0.41  -0.38  -0.36  -0.32  3062  1.0
y_predicted[40]   -0.57  8.1e-4   0.05  -0.66   -0.6  -0.56  -0.53  -0.47  3284  1.0
y_predicted[41]    2.16  9.4e-4   0.06   2.04   2.12   2.16   2.19   2.27  3929  1.0
y_predicted[42]   -0.31  4.5e-4   0.03  -0.36  -0.33  -0.31   -0.3  -0.26  3211  1.0
y_predicted[43]    0.86  9.5e-4   0.07   0.72   0.81   0.85    0.9   0.99  4885  1.0
y_predicted[44]   -0.33  6.1e-4   0.03   -0.4  -0.36  -0.33  -0.31  -0.27  3205  1.0
y_predicted[45]    1.45  7.3e-4   0.05   1.36   1.42   1.45   1.48   1.54  3980  1.0
y_predicted[46]   -0.38  9.1e-4   0.05  -0.48  -0.41  -0.38  -0.35  -0.28  3050  1.0
y_predicted[47]    0.84  8.8e-4   0.05   0.74   0.81   0.84   0.88   0.94  3546  1.0
y_predicted[48]   -0.12  4.2e-4   0.03  -0.17  -0.14  -0.12  -0.11  -0.07  3574  1.0
y_predicted[49]   -0.78  6.5e-4   0.04  -0.86  -0.81  -0.78  -0.76  -0.71  3623  1.0
y_predicted[50]    -0.4  5.2e-4   0.03  -0.45  -0.42   -0.4  -0.38  -0.34  2907  1.0
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y_predicted[51]	-0.4	9.3e-4	0.06	-0.52	-0.44	-0.4	-0.37	-0.29	3921	1.0
y_predicted[52]	0.6	4.5e-4	0.03	0.54	0.58	0.6	0.62	0.66	4510	1.0
y_predicted[53]	-0.06	4.2e-4	0.02	-0.11	-0.08	-0.06	-0.05	-0.01	3182	1.0
y_predicted[54]	-0.59	4.7e-4	0.03	-0.65	-0.61	-0.59	-0.57	-0.54	3466	1.0
y_predicted[55]	-0.55	4.3e-4	0.02	-0.59	-0.56	-0.55	-0.53	-0.5	3211	1.0
y_predicted[56]	-0.23	5.3e-4	0.03	-0.3	-0.26	-0.23	-0.21	-0.17	3266	1.0
y_predicted[57]	-0.41	3.2e-4	0.02	-0.44	-0.42	-0.41	-0.39	-0.37	3625	1.0
y_predicted[58]	-0.71	5.5e-4	0.03	-0.78	-0.73	-0.71	-0.69	-0.64	3801	1.0
y_predicted[59]	-0.39	6.8e-4	0.03	-0.45	-0.41	-0.39	-0.36	-0.32	2597	1.0
y_predicted[60]	-0.24	6.1e-4	0.03	-0.31	-0.27	-0.24	-0.22	-0.18	2833	1.0
y_predicted[61]	0.12	5.8e-4	0.04	0.05	0.09	0.12	0.14	0.19	3999	1.0
y_predicted[62]	-0.46	4.5e-4	0.02	-0.51	-0.48	-0.46	-0.45	-0.42	2581	1.0
y_predicted[63]	-0.73	6.3e-4	0.04	-0.8	-0.75	-0.73	-0.7	-0.65	3612	1.0
y_predicted[64]	-0.3	4.6e-4	0.03	-0.35	-0.32	-0.3	-0.28	-0.25	3031	1.0
y_predicted[65]	0.56	4.7e-4	0.03	0.5	0.54	0.56	0.58	0.63	4347	1.0
y_predicted[66]	-0.54	3.8e-4	0.02	-0.58	-0.55	-0.54	-0.52	-0.49	3166	1.0
y_predicted[67]	-0.47	4.2e-4	0.02	-0.52	-0.49	-0.47	-0.46	-0.43	2939	1.0
y_predicted[68]	-0.3	6.3e-4	0.04	-0.37	-0.32	-0.3	-0.27	-0.23	3393	1.0
y_predicted[69]	-0.72	5.9e-4	0.04	-0.79	-0.75	-0.72	-0.7	-0.65	3584	1.0
y_predicted[70]	0.08	6.4e-4	0.03	0.02	0.06	0.08	0.1	0.15	2816	1.0
y_predicted[71]	-0.16	4.2e-4	0.02	-0.2	-0.17	-0.16	-0.14	-0.11	3131	1.0
y_predicted[72]	-0.72	5.8e-4	0.04	-0.79	-0.75	-0.72	-0.7	-0.65	3793	1.0
y_predicted[73]	-0.35	8.6e-4	0.05	-0.44	-0.38	-0.35	-0.32	-0.26	2788	1.0
y_predicted[74]	-0.54	5.0e-4	0.03	-0.59	-0.56	-0.54	-0.52	-0.48	3267	1.0
y_predicted[75]	-0.53	7.7e-4	0.04	-0.61	-0.55	-0.53	-0.5	-0.45	2717	1.0
y_predicted[76]	-0.56	4.1e-4	0.02	-0.6	-0.57	-0.56	-0.54	-0.51	3258	1.0
y_predicted[77]	-0.19	4.4e-4	0.03	-0.23	-0.2	-0.19	-0.17	-0.14	3333	1.0
y_predicted[78]	-0.41	5.0e-4	0.03	-0.46	-0.43	-0.41	-0.39	-0.36	2903	1.0
y_predicted[79]	-0.49	4.0e-4	0.02	-0.53	-0.5	-0.49	-0.48	-0.45	2908	1.0
y_predicted[80]	-0.02	4.5e-4	0.03	-0.07	-0.04	-0.02	-3.8e-3	0.03	3320	1.0
y_predicted[81]	-0.15	4.6e-4	0.02	-0.19	-0.16	-0.15	-0.13	-0.1	2909	1.0
y_predicted[82]	-0.84	8.8e-4	0.05	-0.94	-0.87	-0.84	-0.81	-0.74	3444	1.0
y_predicted[83]	-0.41	5.2e-4	0.03	-0.47	-0.43	-0.41	-0.39	-0.36	2838	1.0
y_predicted[84]	-0.73	6.1e-4	0.04	-0.8	-0.75	-0.73	-0.7	-0.65	3604	1.0
y_predicted[85]	-0.42	2.8e-4	0.02	-0.45	-0.43	-0.42	-0.41	-0.39	3914	1.0
y_predicted[86]	-0.61	5.4e-4	0.03	-0.68	-0.64	-0.61	-0.59	-0.55	3513	1.0
y_predicted[87]	-0.37	5.5e-4	0.03	-0.43	-0.39	-0.37	-0.35	-0.31	3125	1.0
y_predicted[88]	-0.26	6.5e-4	0.04	-0.34	-0.29	-0.27	-0.24	-0.19	3369	1.0
y_predicted[89]	0.58	4.3e-4	0.03	0.52	0.56	0.58	0.6	0.64	4413	1.0
y_predicted[90]	-0.25	5.5e-4	0.03	-0.31	-0.27	-0.25	-0.23	-0.19	2940	1.0
y_predicted[91]	0.01	4.7e-4	0.03	-0.05	-7.4e-3	0.01	0.03	0.07	3710	1.0
y_predicted[92]	-0.09	4.2e-4	0.02	-0.14	-0.11	-0.09	-0.08	-0.05	3097	1.0
y_predicted[93]	-0.62	6.9e-4	0.04	-0.7	-0.65	-0.62	-0.6	-0.55	3250	1.0
y_predicted[94]	1.27	1.1e-3	0.07	1.14	1.22	1.27	1.32	1.4	4026	1.0
y_predicted[95]	-0.25	5.8e-4	0.03	-0.31	-0.27	-0.25	-0.23	-0.19	2773	1.0
y_predicted[96]	-0.57	4.3e-4	0.03	-0.62	-0.59	-0.57	-0.56	-0.52	3370	1.0
y_predicted[97]	0.48	4.6e-4	0.03	0.43	0.46	0.48	0.5	0.54	3939	1.0
y_predicted[98]	-0.58	4.4e-4	0.03	-0.63	-0.59	-0.58	-0.56	-0.53	3440	1.0

y_predicted[99]	-0.13	3.9e-4	0.02	-0.18	-0.15	-0.13	-0.11	-0.08	3762	1.0
y_predicted[100]	0.59	4.4e-4	0.03	0.53	0.57	0.59	0.61	0.65	4443	1.0
y_predicted[101]	0.46	4.7e-4	0.03	0.4	0.44	0.46	0.48	0.52	3824	1.0
y_predicted[102]	-0.62	5.7e-4	0.03	-0.69	-0.64	-0.62	-0.6	-0.55	3510	1.0
y_predicted[103]	-0.57	4.6e-4	0.03	-0.62	-0.59	-0.57	-0.55	-0.52	3379	1.0
y_predicted[104]	-0.5	5.1e-4	0.03	-0.56	-0.52	-0.5	-0.48	-0.44	3728	1.0
y_predicted[105]	-0.4	4.0e-4	0.02	-0.45	-0.42	-0.4	-0.38	-0.35	3507	1.0
y_predicted[106]	-0.24	5.2e-4	0.03	-0.3	-0.26	-0.24	-0.22	-0.18	3093	1.0
y_predicted[107]	-0.16	4.2e-4	0.02	-0.21	-0.18	-0.16	-0.15	-0.12	3170	1.0
y_predicted[108]	-0.76	1.0e-3	0.06	-0.88	-0.8	-0.76	-0.72	-0.63	3936	1.0
y_predicted[109]	0.59	4.9e-4	0.03	0.52	0.57	0.59	0.61	0.65	4423	1.0
y_predicted[110]	-0.41	5.7e-4	0.03	-0.47	-0.43	-0.41	-0.39	-0.35	2856	1.0
y_predicted[111]	5.64	3.6e-3	0.22	5.21	5.49	5.64	5.8	6.07	3801	1.0
y_predicted[112]	-0.09	5.7e-4	0.03	-0.15	-0.11	-0.09	-0.07	-0.03	3225	1.0
y_predicted[113]	-0.27	5.9e-4	0.03	-0.33	-0.29	-0.27	-0.25	-0.2	3394	1.0
y_predicted[114]	-0.73	5.6e-4	0.03	-0.8	-0.75	-0.73	-0.71	-0.66	3596	1.0
y_predicted[115]	-0.56	4.0e-4	0.02	-0.6	-0.57	-0.56	-0.54	-0.51	3332	1.0
y_predicted[116]	-0.56	4.8e-4	0.03	-0.62	-0.58	-0.56	-0.54	-0.5	3602	1.0
y_predicted[117]	-0.39	6.6e-4	0.04	-0.47	-0.41	-0.39	-0.36	-0.3	4063	1.0
y_predicted[118]	-0.57	4.2e-4	0.02	-0.62	-0.59	-0.57	-0.55	-0.52	3405	1.0
y_predicted[119]	-0.59	4.9e-4	0.03	-0.65	-0.61	-0.59	-0.57	-0.54	3507	1.0
y_predicted[120]	0.06	4.9e-4	0.03	-2.7e-3	0.04	0.06	0.08	0.11	3721	1.0
y_predicted[121]	0.5	7.5e-4	0.04	0.42	0.47	0.5	0.53	0.59	3389	1.0
y_predicted[122]	-0.5	3.1e-4	0.02	-0.54	-0.51	-0.5	-0.48	-0.46	3978	1.0
y_predicted[123]	-0.35	3.6e-4	0.02	-0.4	-0.37	-0.35	-0.34	-0.31	4059	1.0
y_predicted[124]	-0.75	5.6e-4	0.03	-0.82	-0.77	-0.75	-0.73	-0.68	3692	1.0
y_predicted[125]	-0.58	4.5e-4	0.03	-0.63	-0.6	-0.58	-0.56	-0.53	3410	1.0
y_predicted[126]	0.19	4.4e-4	0.03	0.14	0.17	0.19	0.2	0.24	3660	1.0
y_predicted[127]	-0.67	7.4e-4	0.04	-0.76	-0.71	-0.67	-0.64	-0.59	3634	1.0
y_predicted[128]	-0.38	4.5e-4	0.03	-0.44	-0.4	-0.38	-0.37	-0.33	3614	1.0
y_predicted[129]	0.4	6.2e-4	0.04	0.32	0.37	0.4	0.42	0.47	3859	1.0
y_predicted[130]	-0.12	4.1e-4	0.02	-0.16	-0.13	-0.12	-0.1	-0.07	3185	1.0
y_predicted[131]	-0.49	4.3e-4	0.02	-0.53	-0.5	-0.49	-0.47	-0.45	2716	1.0
y_predicted[132]	1.38	6.4e-4	0.04	1.3	1.35	1.38	1.41	1.47	4343	1.0
y_predicted[133]	1.6	1.0e-3	0.06	1.48	1.56	1.6	1.64	1.72	3808	1.0
y_predicted[134]	0.07	4.9e-4	0.03	0.02	0.05	0.07	0.09	0.13	3225	1.0
y_predicted[135]	0.01	4.7e-4	0.03	-0.04	-5.5e-3	0.01	0.03	0.07	3620	1.0
y_predicted[136]	-0.57	4.9e-4	0.03	-0.63	-0.59	-0.57	-0.55	-0.51	3436	1.0
y_predicted[137]	-0.5	4.2e-4	0.02	-0.54	-0.51	-0.5	-0.48	-0.45	2807	1.0
y_predicted[138]	0.14	6.2e-4	0.04	0.07	0.12	0.15	0.17	0.22	3953	1.0
y_predicted[139]	-0.57	5.1e-4	0.03	-0.63	-0.59	-0.57	-0.55	-0.51	3469	1.0
y_predicted[140]	-0.46	4.6e-4	0.03	-0.51	-0.48	-0.46	-0.44	-0.41	3591	1.0
y_predicted[141]	-0.4	5.1e-4	0.03	-0.45	-0.42	-0.4	-0.38	-0.34	3050	1.0
y_predicted[142]	-0.57	6.3e-4	0.04	-0.64	-0.59	-0.57	-0.54	-0.5	3303	1.0
y_predicted[143]	-0.35	4.5e-4	0.02	-0.4	-0.36	-0.35	-0.33	-0.3	2983	1.0
y_predicted[144]	-0.55	4.0e-4	0.02	-0.6	-0.57	-0.55	-0.54	-0.51	3209	1.0
y_predicted[145]	-0.59	4.8e-4	0.03	-0.64	-0.61	-0.59	-0.57	-0.53	3466	1.0
y_predicted[146]	-0.78	6.4e-4	0.04	-0.85	-0.8	-0.78	-0.75	-0.7	3630	1.0

y_predicted[147]	-0.26	6.3e-4	0.03	-0.33	-0.29	-0.26	-0.24	-0.2	2620	1.0
y_predicted[148]	-0.44	3.3e-4	0.02	-0.48	-0.45	-0.44	-0.43	-0.4	3699	1.0
y_predicted[149]	0.03	6.4e-4	0.03	-0.04	5.3e-3	0.03	0.05	0.1	2850	1.0
y_predicted[150]	0.48	4.6e-4	0.03	0.42	0.46	0.48	0.5	0.54	3904	1.0
y_predicted[151]	-0.1	4.4e-4	0.02	-0.14	-0.11	-0.1	-0.08	-0.05	2893	1.0
y_predicted[152]	-0.01	4.4e-4	0.03	-0.06	-0.03	-0.01	7.0e-3	0.04	3544	1.0
y_predicted[153]	-0.54	3.9e-4	0.02	-0.59	-0.56	-0.54	-0.53	-0.5	3262	1.0
y_predicted[154]	-0.53	3.8e-4	0.02	-0.57	-0.54	-0.53	-0.51	-0.48	3002	1.0
y_predicted[155]	-0.31	3.9e-4	0.02	-0.35	-0.32	-0.31	-0.29	-0.26	3525	1.0
y_predicted[156]	-0.39	8.7e-4	0.05	-0.48	-0.43	-0.39	-0.36	-0.31	2725	1.0
y_predicted[157]	-0.64	6.4e-4	0.04	-0.71	-0.67	-0.64	-0.62	-0.56	3517	1.0
y_predicted[158]	-0.48	4.1e-4	0.02	-0.52	-0.49	-0.48	-0.46	-0.44	2945	1.0
y_predicted[159]	0.04	5.0e-4	0.03	-8.7e-3	0.02	0.04	0.06	0.1	3122	1.0
y_predicted[160]	-0.43	4.8e-4	0.03	-0.48	-0.44	-0.43	-0.41	-0.38	2846	1.0
y_predicted[161]	-0.08	4.3e-4	0.02	-0.12	-0.1	-0.08	-0.06	-0.03	2991	1.0
y_predicted[162]	-0.59	5.0e-4	0.03	-0.65	-0.61	-0.59	-0.57	-0.53	3495	1.0
y_predicted[163]	-0.18	5.7e-4	0.04	-0.25	-0.2	-0.18	-0.15	-0.1	3971	1.0
y_predicted[164]	0.08	4.6e-4	0.03	0.03	0.06	0.08	0.1	0.13	3195	1.0
y_predicted[165]	-0.12	3.7e-4	0.02	-0.17	-0.14	-0.12	-0.11	-0.08	3800	1.0
y_predicted[166]	-0.46	4.4e-4	0.02	-0.51	-0.48	-0.47	-0.45	-0.42	3158	1.0
y_predicted[167]	-0.35	4.0e-4	0.02	-0.39	-0.36	-0.35	-0.33	-0.3	3164	1.0
y_predicted[168]	0.53	4.4e-4	0.03	0.47	0.51	0.53	0.55	0.58	4081	1.0
y_predicted[169]	2.44	1.3e-3	0.09	2.27	2.38	2.44	2.5	2.62	4463	1.0
y_predicted[170]	0.51	4.6e-4	0.03	0.45	0.49	0.51	0.53	0.57	4462	1.0
y_predicted[171]	-0.36	7.9e-4	0.05	-0.45	-0.39	-0.36	-0.32	-0.26	4119	1.0
y_predicted[172]	1.38	8.6e-4	0.06	1.26	1.34	1.38	1.42	1.5	4822	1.0
y_predicted[173]	-0.73	5.3e-4	0.03	-0.79	-0.75	-0.73	-0.71	-0.66	3921	1.0
y_predicted[174]	-0.42	2.9e-4	0.02	-0.46	-0.43	-0.42	-0.41	-0.39	3801	1.0
y_predicted[175]	-0.09	4.2e-4	0.02	-0.13	-0.1	-0.09	-0.07	-0.04	3062	1.0
y_predicted[176]	-0.44	1.9e-3	0.12	-0.67	-0.52	-0.44	-0.36	-0.21	3663	1.0
y_predicted[177]	-0.34	6.0e-4	0.04	-0.41	-0.37	-0.34	-0.32	-0.27	3703	1.0
y_predicted[178]	-0.49	7.6e-4	0.04	-0.57	-0.52	-0.49	-0.46	-0.4	3257	1.0
y_predicted[179]	0.37	6.9e-4	0.04	0.3	0.34	0.37	0.4	0.45	3038	1.0
y_predicted[180]	-0.62	5.8e-4	0.03	-0.69	-0.65	-0.62	-0.6	-0.55	3532	1.0
y_predicted[181]	-0.13	4.1e-4	0.02	-0.18	-0.15	-0.13	-0.12	-0.09	3078	1.0
y_predicted[182]	-0.27	5.8e-4	0.03	-0.33	-0.29	-0.27	-0.24	-0.2	3391	1.0
y_predicted[183]	-0.56	4.4e-4	0.03	-0.61	-0.58	-0.56	-0.54	-0.51	3458	1.0
y_predicted[184]	-0.43	3.4e-4	0.02	-0.47	-0.44	-0.43	-0.42	-0.39	3506	1.0
y_predicted[185]	-0.5	4.8e-4	0.03	-0.55	-0.52	-0.5	-0.48	-0.45	2935	1.0
y_predicted[186]	3.08	1.6e-3	0.11	2.87	3.0	3.08	3.15	3.29	4410	1.0
y_predicted[187]	-0.55	8.5e-4	0.05	-0.64	-0.58	-0.55	-0.52	-0.46	2825	1.0
y_predicted[188]	-0.59	6.5e-4	0.04	-0.67	-0.62	-0.59	-0.57	-0.51	3674	1.0
y_predicted[189]	-0.13	4.1e-4	0.02	-0.18	-0.15	-0.13	-0.12	-0.09	3078	1.0
y_predicted[190]	-0.24	4.5e-4	0.03	-0.29	-0.25	-0.24	-0.22	-0.19	3319	1.0
y_predicted[191]	1.74	1.1e-3	0.07	1.6	1.69	1.74	1.79	1.88	3869	1.0
y_predicted[192]	-0.12	6.5e-4	0.04	-0.19	-0.15	-0.12	-0.1	-0.05	3002	1.0
y_predicted[193]	3.41	2.2e-3	0.13	3.14	3.32	3.41	3.5	3.67	3638	1.0
y_predicted[194]	-0.6	5.0e-4	0.03	-0.66	-0.62	-0.6	-0.58	-0.54	3485	1.0

y_predicted[195]	-0.31	8.5e-4	0.05	-0.41	-0.34	-0.31	-0.28	-0.21	3412	1.0
y_predicted[196]	0.17	3.9e-4	0.02	0.13	0.16	0.17	0.19	0.22	3834	1.0
y_predicted[197]	-0.62	1.2e-3	0.07	-0.76	-0.67	-0.62	-0.57	-0.48	3535	1.0
y_predicted[198]	-0.45	7.7e-4	0.04	-0.54	-0.48	-0.45	-0.42	-0.37	3193	1.0
y_predicted[199]	-0.28	5.3e-4	0.03	-0.34	-0.3	-0.28	-0.27	-0.23	2792	1.0
y_predicted[200]	0.48	4.6e-4	0.03	0.43	0.47	0.48	0.5	0.54	3988	1.0
loglik_pred[1]	-0.87	8.3e-4	0.05	-0.97	-0.9	-0.87	-0.83	-0.77	3798	1.0
loglik_pred[2]	-0.49	4.5e-4	0.03	-0.55	-0.51	-0.49	-0.48	-0.44	3288	1.0
loglik_pred[3]	-2.08	2.5e-3	0.16	-2.41	-2.19	-2.08	-1.97	-1.78	3927	1.0
loglik_pred[4]	-0.6	6.8e-4	0.04	-0.68	-0.62	-0.6	-0.57	-0.52	3719	1.0
loglik_pred[5]	-0.68	6.0e-4	0.04	-0.76	-0.71	-0.68	-0.66	-0.61	3870	1.0
loglik_pred[6]	-0.41	2.5e-4	0.02	-0.44	-0.42	-0.41	-0.39	-0.37	4792	1.0
loglik_pred[7]	-0.46	3.0e-4	0.02	-0.5	-0.48	-0.46	-0.45	-0.43	4256	1.0
loglik_pred[8]	-1.74	1.3e-3	0.09	-1.92	-1.8	-1.74	-1.68	-1.58	4398	1.0
loglik_pred[9]	-0.4	2.5e-4	0.02	-0.44	-0.42	-0.4	-0.39	-0.37	4667	1.0
loglik_pred[10]	-0.44	4.0e-4	0.03	-0.49	-0.46	-0.44	-0.42	-0.4	3856	1.0
loglik_pred[11]	-0.46	3.5e-4	0.02	-0.5	-0.47	-0.46	-0.44	-0.42	3828	1.0
loglik_pred[12]	-0.4	2.5e-4	0.02	-0.44	-0.42	-0.4	-0.39	-0.37	4674	1.0
loglik_pred[13]	-0.54	5.7e-4	0.03	-0.61	-0.56	-0.53	-0.51	-0.47	3643	1.0
loglik_pred[14]	-0.73	5.9e-4	0.04	-0.8	-0.75	-0.73	-0.7	-0.65	4463	1.0
loglik_pred[15]	-0.49	4.0e-4	0.02	-0.54	-0.51	-0.49	-0.47	-0.45	3535	1.0
loglik_pred[16]	-0.73	7.0e-4	0.05	-0.82	-0.76	-0.73	-0.7	-0.64	4227	1.0
loglik_pred[17]	-0.56	4.7e-4	0.03	-0.61	-0.58	-0.56	-0.54	-0.51	3246	1.0
loglik_pred[18]	-1.73	1.7e-3	0.12	-1.98	-1.8	-1.73	-1.65	-1.5	5172	1.0
loglik_pred[19]	-0.44	1.1e-3	0.05	-0.58	-0.45	-0.42	-0.4	-0.38	2362	1.0
loglik_pred[20]	-0.63	1.2e-3	0.07	-0.78	-0.68	-0.63	-0.58	-0.51	3825	1.0
loglik_pred[21]	-0.91	9.4e-4	0.06	-1.02	-0.95	-0.91	-0.87	-0.81	3478	1.0
loglik_pred[22]	-0.96	2.4e-3	0.16	-1.32	-1.06	-0.95	-0.85	-0.68	4540	1.0
loglik_pred[23]	-0.53	3.9e-4	0.02	-0.58	-0.55	-0.53	-0.52	-0.49	3657	1.0
loglik_pred[24]	-0.69	6.0e-4	0.03	-0.77	-0.72	-0.69	-0.67	-0.63	3363	1.0
loglik_pred[25]	-3.1	2.3e-3	0.13	-3.37	-3.19	-3.1	-3.01	-2.84	3406	1.0
loglik_pred[26]	-0.41	2.5e-4	0.02	-0.44	-0.42	-0.41	-0.39	-0.37	4701	1.0
loglik_pred[27]	-0.47	5.4e-4	0.03	-0.53	-0.48	-0.47	-0.45	-0.42	2722	1.0
loglik_pred[28]	-0.46	4.3e-4	0.03	-0.52	-0.48	-0.46	-0.44	-0.41	4027	1.0
loglik_pred[29]	-0.41	2.5e-4	0.02	-0.44	-0.42	-0.41	-0.4	-0.37	4789	1.0
loglik_pred[30]	-0.74	9.1e-4	0.05	-0.85	-0.77	-0.74	-0.7	-0.64	3461	1.0
loglik_pred[31]	-1.0	1.2e-3	0.06	-1.14	-1.04	-1.0	-0.96	-0.89	2851	1.0
loglik_pred[32]	-0.4	2.4e-4	0.02	-0.43	-0.41	-0.4	-0.39	-0.37	4894	1.0
loglik_pred[33]	-0.73	7.4e-4	0.05	-0.83	-0.76	-0.73	-0.7	-0.64	4311	1.0
loglik_pred[34]	-0.62	4.8e-4	0.03	-0.68	-0.64	-0.62	-0.6	-0.57	3516	1.0
loglik_pred[35]	-0.67	1.1e-3	0.07	-0.82	-0.71	-0.66	-0.62	-0.54	4115	1.0
loglik_pred[36]	-0.4	2.4e-4	0.02	-0.43	-0.41	-0.4	-0.39	-0.37	4905	1.0
loglik_pred[37]	-0.44	4.2e-4	0.03	-0.5	-0.46	-0.44	-0.42	-0.39	4173	1.0
loglik_pred[38]	-0.69	6.3e-4	0.04	-0.77	-0.72	-0.69	-0.67	-0.63	3484	1.0
loglik_pred[39]	-0.54	4.2e-4	0.02	-0.59	-0.55	-0.54	-0.52	-0.49	3515	1.0
loglik_pred[40]	-1.0	8.2e-4	0.05	-1.1	-1.04	-1.0	-0.97	-0.91	3529	1.0
loglik_pred[41]	-0.5	6.9e-4	0.04	-0.6	-0.53	-0.5	-0.47	-0.42	4234	1.0
loglik_pred[42]	-0.44	3.4e-4	0.02	-0.48	-0.45	-0.44	-0.42	-0.4	4255	1.0

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loglik_pred[43]    -4.65   4.6e-3    0.3   -5.23   -4.85   -4.64   -4.44    -4.1   4222   1.0
loglik_pred[44]    -0.88   8.7e-4   0.05   -0.98   -0.91   -0.87   -0.84   -0.78   3689   1.0
loglik_pred[45]    -0.66   6.2e-4   0.04   -0.74   -0.69   -0.66   -0.63   -0.59   4375   1.0
loglik_pred[46]    -1.16   1.7e-3    0.1   -1.36   -1.22   -1.16   -1.09   -0.98   3112   1.0
loglik_pred[47]    -0.85   7.5e-4   0.04   -0.94   -0.88   -0.85   -0.82   -0.77   3492   1.0
loglik_pred[48]    -0.61   5.5e-4   0.03   -0.69   -0.64   -0.61   -0.59   -0.55   3591   1.0
loglik_pred[49]    -0.45   3.8e-4   0.02   -0.49   -0.46   -0.44   -0.43    -0.4   3864   1.0
loglik_pred[50]    -0.87   8.1e-4   0.05   -0.97    -0.9   -0.87   -0.84   -0.78   3322   1.0
loglik_pred[51]    -0.54   4.1e-4   0.03   -0.59   -0.56   -0.54   -0.52   -0.49   3777   1.0
loglik_pred[52]    -0.83   7.0e-4   0.04   -0.91   -0.85   -0.83    -0.8   -0.75   3186   1.0
loglik_pred[53]    -0.41   2.5e-4   0.02   -0.44   -0.42   -0.41    -0.4   -0.38   4600   1.0
loglik_pred[54]    -0.42   3.5e-4   0.02   -0.47   -0.44   -0.42   -0.41   -0.38   3884   1.0
loglik_pred[55]    -0.43   4.6e-4   0.03    -0.5   -0.45   -0.43   -0.41   -0.38   4055   1.0
loglik_pred[56]    -0.41   2.8e-4   0.02   -0.45   -0.43   -0.41    -0.4   -0.38   4468   1.0
loglik_pred[57]    -1.45   1.1e-3   0.07   -1.59    -1.5   -1.45    -1.4   -1.32   3646   1.0
loglik_pred[58]    -4.27     0.01   0.72   -5.76   -4.76   -4.23   -3.75   -2.96   3957   1.0
loglik_pred[59]    -0.41   2.7e-4   0.02   -0.45   -0.42   -0.41    -0.4   -0.38   4565   1.0
loglik_pred[60]    -0.43   3.1e-4   0.02   -0.47   -0.44   -0.43   -0.42   -0.39   4254   1.0
loglik_pred[61]    -0.41   2.6e-4   0.02   -0.45   -0.42   -0.41    -0.4   -0.37   4627   1.0
loglik_pred[62]    -0.78   8.5e-4   0.05   -0.87   -0.81   -0.77   -0.74   -0.69   3087   1.0
loglik_pred[63]    -0.54   5.2e-4   0.03    -0.6   -0.56   -0.53   -0.51   -0.48   3909   1.0
loglik_pred[64]    -0.49   3.7e-4   0.02   -0.53    -0.5   -0.48   -0.47   -0.44   4055   1.0
loglik_pred[65]     -0.4   2.4e-4   0.02   -0.44   -0.41    -0.4   -0.39   -0.37   4891   1.0
loglik_pred[66]    -0.64   8.6e-4   0.05   -0.74   -0.67   -0.64   -0.61   -0.55   2988   1.0
loglik_pred[67]    -0.45   4.3e-4   0.03   -0.51   -0.47   -0.45   -0.43    -0.4   3641   1.0
loglik_pred[68]    -0.77   6.3e-4   0.04   -0.85    -0.8   -0.77   -0.75   -0.71   3221   1.0
loglik_pred[69]    -0.53   3.7e-4   0.02   -0.58   -0.55   -0.53   -0.52   -0.49   3991   1.0
loglik_pred[70]    -0.77   9.5e-4   0.05   -0.88    -0.8   -0.77   -0.74   -0.68   2930   1.0
loglik_pred[71]    -1.22   1.4e-3   0.08   -1.37   -1.27   -1.22   -1.16   -1.07   3147   1.0
loglik_pred[72]    -0.41   2.9e-4   0.02   -0.44   -0.42   -0.41   -0.39   -0.37   3923   1.0
loglik_pred[73]    -0.45   3.6e-4   0.02    -0.5   -0.47   -0.45   -0.43   -0.41   4180   1.0
loglik_pred[74]    -0.42   2.5e-4   0.02   -0.45   -0.43   -0.42   -0.41   -0.38   4754   1.0
loglik_pred[75]    -1.06   1.6e-3   0.08   -1.22   -1.11   -1.06    -1.0   -0.91   2497   1.0
loglik_pred[76]     -0.4   2.4e-4   0.02   -0.44   -0.42    -0.4   -0.39   -0.37   4912   1.0
loglik_pred[77]    -0.71   7.7e-4   0.05    -0.8   -0.73    -0.7   -0.67   -0.62   3468   1.0
loglik_pred[78]    -0.61   4.0e-4   0.02   -0.66   -0.63   -0.61    -0.6   -0.57   3515   1.0
loglik_pred[79]    -0.45   3.6e-4   0.02    -0.5   -0.46   -0.45   -0.43    -0.4   4197   1.0
loglik_pred[80]    -0.41   2.7e-4   0.02   -0.45   -0.42   -0.41    -0.4   -0.38   4280   1.0
loglik_pred[81]    -0.57   4.4e-4   0.02   -0.62   -0.59   -0.57   -0.56   -0.53   3256   1.0
loglik_pred[82]    -4.47   3.5e-3   0.24   -4.95   -4.63   -4.47   -4.31   -4.02   4608   1.0
loglik_pred[83]    -0.54   6.3e-4   0.03   -0.61   -0.56   -0.54   -0.52   -0.48   2665   1.0
loglik_pred[84]    -0.42   2.8e-4   0.02   -0.45   -0.43   -0.42    -0.4   -0.38   4547   1.0
loglik_pred[85]    -0.41   2.5e-4   0.02   -0.44   -0.42   -0.41    -0.4   -0.38   4703   1.0
loglik_pred[86]    -0.68   4.5e-4   0.03   -0.74    -0.7   -0.68   -0.67   -0.63   3505   1.0
loglik_pred[87]    -0.67   5.4e-4   0.03   -0.74   -0.69   -0.67   -0.65   -0.61   3172   1.0
loglik_pred[88]    -0.42   2.9e-4   0.02   -0.46   -0.43   -0.42    -0.4   -0.38   4345   1.0
loglik_pred[89]    -0.43   3.1e-4   0.02   -0.47   -0.44   -0.43   -0.42   -0.39   3988   1.0
loglik_pred[90]    -0.43   2.8e-4   0.02   -0.46   -0.44   -0.43   -0.42   -0.39   4274   1.0
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loglik_pred[91]    -0.44  3.9e-4  0.02   -0.49   -0.45   -0.44   -0.42    -0.4  3627  1.0
loglik_pred[92]    -0.42  2.6e-4  0.02   -0.45   -0.43   -0.42   -0.41   -0.38  4522  1.0
loglik_pred[93]    -1.18  2.1e-3  0.12   -1.43   -1.26   -1.17   -1.09   -0.95  3426  1.0
loglik_pred[94]    -0.55  6.6e-4  0.04   -0.63   -0.58   -0.55   -0.52   -0.48  3356  1.0
loglik_pred[95]    -2.11  1.5e-3  0.09   -2.29   -2.17    -2.1   -2.04   -1.92  3769  1.0
loglik_pred[96]    -0.41  2.4e-4  0.02   -0.44   -0.42   -0.41    -0.4   -0.38  4829  1.0
loglik_pred[97]     -0.6  4.5e-4  0.03   -0.65   -0.62    -0.6   -0.58   -0.55  3367  1.0
loglik_pred[98]    -0.43  3.5e-4  0.02   -0.48   -0.45   -0.43   -0.42   -0.39  4185  1.0
loglik_pred[99]    -0.44  6.2e-4  0.04   -0.53   -0.46   -0.44   -0.42   -0.38  3587  1.0
loglik_pred[100]   -0.59  5.6e-4  0.03   -0.66   -0.61   -0.59   -0.56   -0.52  3804  1.0
loglik_pred[101]   -0.42  2.7e-4  0.02   -0.45   -0.43   -0.42    -0.4   -0.38  4357  1.0
loglik_pred[102]   -0.59  4.7e-4  0.03   -0.64   -0.61   -0.59   -0.57   -0.54  3523  1.0
loglik_pred[103]   -0.45  4.1e-4  0.03   -0.51   -0.47   -0.45   -0.44   -0.41  3995  1.0
loglik_pred[104]   -0.69  6.8e-4  0.04   -0.77   -0.71   -0.69   -0.66   -0.61  3556  1.0
loglik_pred[105]   -4.34  3.0e-3  0.19   -4.73   -4.47   -4.34   -4.21   -3.96  4180  1.0
loglik_pred[106]   -0.53  7.5e-4  0.04   -0.61   -0.56   -0.53    -0.5   -0.46  2725  1.0
loglik_pred[107]   -0.41  2.7e-4  0.02   -0.45   -0.42   -0.41    -0.4   -0.38  4705  1.0
loglik_pred[108]   -9.09  9.1e-3  0.53  -10.15   -9.46   -9.08   -8.73   -8.08  3433  1.0
loglik_pred[109]   -1.65  1.7e-3  0.09   -1.84   -1.71   -1.65   -1.59   -1.49  3017  1.0
loglik_pred[110]   -1.91  3.1e-3  0.22   -2.35   -2.06    -1.9   -1.76   -1.51  4875  1.0
loglik_pred[111]   -1.66  3.2e-3   0.2   -2.08   -1.79   -1.65   -1.52   -1.28  4037  1.0
loglik_pred[112]    -0.5  4.3e-4  0.03   -0.55   -0.51    -0.5   -0.48   -0.45  3562  1.0
loglik_pred[113]   -0.45  3.5e-4  0.02   -0.49   -0.46   -0.45   -0.43    -0.4  4273  1.0
loglik_pred[114]   -0.41  2.4e-4  0.02   -0.44   -0.42   -0.41   -0.39   -0.37  4856  1.0
loglik_pred[115]   -0.42  2.9e-4  0.02   -0.46   -0.43   -0.42   -0.41   -0.38  4220  1.0
loglik_pred[116]   -0.43  3.2e-4  0.02   -0.47   -0.44   -0.43   -0.42   -0.39  3973  1.0
loglik_pred[117]   -0.45  3.5e-4  0.02   -0.49   -0.46   -0.45   -0.43   -0.41  3661  1.0
loglik_pred[118]   -0.83  1.1e-3  0.07   -0.97   -0.87   -0.83   -0.78   -0.71  3609  1.0
loglik_pred[119]   -1.15  1.3e-3  0.08   -1.31   -1.21   -1.15    -1.1    -1.0  3678  1.0
loglik_pred[120]   -0.41  2.6e-4  0.02   -0.44   -0.42   -0.41    -0.4   -0.37  4612  1.0
loglik_pred[121]   -0.41  2.6e-4  0.02   -0.45   -0.42   -0.41    -0.4   -0.38  4627  1.0
loglik_pred[122]   -0.42  3.1e-4  0.02   -0.46   -0.43   -0.41    -0.4   -0.38  4244  1.0
loglik_pred[123]   -0.57  4.3e-4  0.03   -0.62   -0.58   -0.57   -0.55   -0.52  3652  1.0
loglik_pred[124]   -0.41  2.7e-4  0.02   -0.45   -0.42   -0.41    -0.4   -0.38  4493  1.0
loglik_pred[125]   -1.31  9.7e-4  0.06   -1.42   -1.35   -1.31   -1.27    -1.2  3433  1.0
loglik_pred[126]   -1.37  1.2e-3  0.07   -1.52   -1.42   -1.37   -1.33   -1.25  3496  1.0
loglik_pred[127]   -0.42  2.8e-4  0.02   -0.46   -0.44   -0.42   -0.41   -0.39  4253  1.0
loglik_pred[128]   -0.54  4.8e-4  0.03   -0.61   -0.56   -0.54   -0.52   -0.49  3894  1.0
loglik_pred[129]    -0.4  2.4e-4  0.02   -0.44   -0.41    -0.4   -0.39   -0.37  4866  1.0
loglik_pred[130]    -0.4  2.5e-4  0.02   -0.44   -0.41    -0.4   -0.39   -0.37  4567  1.0
loglik_pred[131]   -0.95  3.0e-3  0.18   -1.34   -1.06   -0.94   -0.83   -0.65  3402  1.0
loglik_pred[132]   -0.47  3.5e-4  0.02   -0.51   -0.48   -0.47   -0.45   -0.43  3835  1.0
loglik_pred[133]   -1.17  1.4e-3  0.08   -1.34   -1.22   -1.17   -1.11   -1.02  3223  1.0
loglik_pred[134]    -0.7  1.0e-3  0.07   -0.84   -0.74    -0.7   -0.65   -0.58  4003  1.0
loglik_pred[135]   -0.51  3.9e-4  0.02   -0.56   -0.52   -0.51   -0.49   -0.46  3564  1.0
loglik_pred[136]   -0.42  2.9e-4  0.02   -0.46   -0.44   -0.42   -0.41   -0.39  4366  1.0
loglik_pred[137]   -0.96  7.9e-4  0.05   -1.06   -0.99   -0.96   -0.93   -0.87  3418  1.0
loglik_pred[138]   -0.46  5.7e-4  0.04   -0.54   -0.48   -0.45   -0.43    -0.4  4239  1.0
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loglik_pred[139]   -0.55   4.4e-4   0.03   -0.61   -0.57   -0.55   -0.53   -0.49   4245   1.0
loglik_pred[140]   -0.41   2.8e-4   0.02   -0.44   -0.42   -0.41   -0.39   -0.37   4297   1.0
loglik_pred[141]   -0.44   3.4e-4   0.02   -0.49   -0.46   -0.44   -0.43   -0.4    4332   1.0
loglik_pred[142]   -0.49   4.9e-4   0.03   -0.56   -0.51   -0.49   -0.47   -0.44   3924   1.0
loglik_pred[143]   -0.41   2.4e-4   0.02   -0.44   -0.42   -0.41   -0.39   -0.37   4903   1.0
loglik_pred[144]   -0.46   3.4e-4   0.02   -0.5    -0.48   -0.46   -0.45   -0.42   3691   1.0
loglik_pred[145]   -0.41   2.5e-4   0.02   -0.44   -0.42   -0.41   -0.4    -0.37   4825   1.0
loglik_pred[146]   -0.41   2.7e-4   0.02   -0.45   -0.42   -0.41   -0.39   -0.37   4464   1.0
loglik_pred[147]   -0.41   2.6e-4   0.02   -0.45   -0.43   -0.41   -0.4    -0.38   4675   1.0
loglik_pred[148]   -0.45   3.4e-4   0.02   -0.49   -0.46   -0.45   -0.43   -0.41   3865   1.0
loglik_pred[149]   -0.59   5.5e-4   0.03   -0.66   -0.61   -0.59   -0.57   -0.53   3838   1.0
loglik_pred[150]   -0.62   4.8e-4   0.03   -0.67   -0.64   -0.62   -0.6    -0.57   3309   1.0
loglik_pred[151]   -0.44   3.5e-4   0.02   -0.49   -0.46   -0.44   -0.43   -0.4    3964   1.0
loglik_pred[152]   -0.57   4.7e-4   0.03   -0.63   -0.59   -0.57   -0.55   -0.52   3602   1.0
loglik_pred[153]   -0.87   6.9e-4   0.04   -0.95   -0.9    -0.87   -0.85   -0.8    3120   1.0
loglik_pred[154]   -1.28   9.4e-4   0.06   -1.38   -1.31   -1.28   -1.24   -1.17   3597   1.0
loglik_pred[155]   -0.98   7.9e-4   0.05   -1.07   -1.01   -0.98   -0.95   -0.89   3336   1.0
loglik_pred[156]   -0.76   6.8e-4   0.04   -0.85   -0.79   -0.76   -0.73   -0.69   3484   1.0
loglik_pred[157]   -0.46   3.1e-4   0.02   -0.5    -0.47   -0.46   -0.45   -0.42   3821   1.0
loglik_pred[158]   -0.45   3.9e-4   0.02   -0.5    -0.47   -0.45   -0.44   -0.41   3966   1.0
loglik_pred[159]   -0.63   6.8e-4   0.04   -0.7    -0.65   -0.62   -0.6    -0.55   3280   1.0
loglik_pred[160]   -0.42   2.5e-4   0.02   -0.45   -0.43   -0.42   -0.41   -0.38   4717   1.0
loglik_pred[161]   -0.43   2.9e-4   0.02   -0.47   -0.44   -0.43   -0.42   -0.4    4122   1.0
loglik_pred[162]   -0.82   9.5e-4   0.05   -0.93   -0.86   -0.82   -0.78   -0.72   3315   1.0
loglik_pred[163]   -0.87   7.1e-4   0.04   -0.95   -0.9    -0.87   -0.84   -0.79   3261   1.0
loglik_pred[164]   -3.33   2.7e-3   0.19   -3.7    -3.45   -3.32   -3.2    -2.97   4769   1.0
loglik_pred[165]   -0.41   2.5e-4   0.02   -0.45   -0.42   -0.41   -0.4    -0.38   4749   1.0
loglik_pred[166]   -0.45   3.3e-4   0.02   -0.5    -0.47   -0.45   -0.44   -0.42   3862   1.0
loglik_pred[167]   -0.42   2.8e-4   0.02   -0.46   -0.43   -0.42   -0.41   -0.39   4562   1.0
loglik_pred[168]   -0.45   7.5e-4   0.04   -0.56   -0.47   -0.44   -0.42   -0.39   3403   1.0
loglik_pred[169]   -0.58   4.2e-4   0.02   -0.63   -0.6    -0.58   -0.56   -0.54   3116   1.0
loglik_pred[170]   -0.55   4.1e-4   0.02   -0.6    -0.56   -0.55   -0.53   -0.5    3358   1.0
loglik_pred[171]   -0.41   3.0e-4   0.02   -0.45   -0.43   -0.41   -0.4    -0.38   4264   1.0
loglik_pred[172]   -6.26   4.3e-3   0.32   -6.89   -6.46   -6.25   -6.04   -5.64   5460   1.0
loglik_pred[173]   -0.45   4.4e-4   0.03   -0.51   -0.46   -0.44   -0.43   -0.4    4071   1.0
loglik_pred[174]   -0.63   6.9e-4   0.04   -0.71   -0.65   -0.62   -0.6    -0.55   3530   1.0
loglik_pred[175]   -0.54   5.0e-4   0.03   -0.6    -0.56   -0.54   -0.52   -0.48   3893   1.0
loglik_pred[176]   -1.47   1.1e-3   0.07   -1.61   -1.51   -1.47   -1.43   -1.34   3598   1.0
loglik_pred[177]   -0.61   4.3e-4   0.02   -0.66   -0.63   -0.61   -0.6    -0.57   3270   1.0
loglik_pred[178]   -0.4    2.4e-4   0.02   -0.44   -0.41   -0.4    -0.39   -0.37   4810   1.0
loglik_pred[179]   -0.44   3.1e-4   0.02   -0.48   -0.45   -0.44   -0.42   -0.4    3811   1.0
loglik_pred[180]   -1.19   1.3e-3   0.09   -1.36   -1.25   -1.2    -1.13   -1.03   4044   1.0
loglik_pred[181]   -0.97   1.0e-3   0.06   -1.09   -1.01   -0.96   -0.92   -0.85   3444   1.0
loglik_pred[182]   -0.4    2.5e-4   0.02   -0.44   -0.42   -0.4    -0.39   -0.37   4609   1.0
loglik_pred[183]   -5.99   3.6e-3   0.24   -6.45   -6.15   -5.98   -5.82   -5.53   4412   1.0
loglik_pred[184]   -0.99   8.6e-4   0.05   -1.09   -1.02   -0.99   -0.95   -0.89   3727   1.0
loglik_pred[185]   -1.32   8.6e-4   0.05   -1.42   -1.35   -1.31   -1.28   -1.21   3746   1.0
loglik_pred[186]   -0.68   7.3e-4   0.04   -0.77   -0.71   -0.68   -0.65   -0.6    3788   1.0
```

```
loglik_pred[187]   -0.44  3.4e-4   0.02  -0.49  -0.46  -0.44  -0.43    -0.4   4228   1.0
loglik_pred[188]   -0.41  2.6e-4   0.02  -0.44  -0.42  -0.41  -0.39   -0.37   4556   1.0
loglik_pred[189]   -0.45  3.7e-4   0.02   -0.5  -0.46  -0.45  -0.43    -0.4   3913   1.0
loglik_pred[190]   -1.12  9.1e-4   0.05  -1.23  -1.15  -1.11  -1.08   -1.01   3583   1.0
loglik_pred[191]   -0.82  1.5e-3   0.09  -1.01  -0.88  -0.81  -0.75   -0.65   3860   1.0
loglik_pred[192]   -0.41  2.8e-4   0.02  -0.46  -0.43  -0.41   -0.4   -0.38   5040   1.0
loglik_pred[193]   -0.41  2.6e-4   0.02  -0.44  -0.42  -0.41   -0.4   -0.38   4602   1.0
loglik_pred[194]   -0.68  5.2e-4   0.03  -0.74   -0.7  -0.67  -0.65   -0.62   3441   1.0
loglik_pred[195]   -0.51  3.7e-4   0.02  -0.55  -0.52  -0.51  -0.49   -0.46   4004   1.0
loglik_pred[196]   -0.43  5.0e-4   0.03  -0.51  -0.45  -0.42  -0.41   -0.38   4274   1.0
loglik_pred[197]   -0.97  8.1e-4   0.06  -1.08  -1.01  -0.97  -0.93   -0.87   4603   1.0
loglik_pred[198]   -0.76  6.7e-4   0.04  -0.83  -0.78  -0.75  -0.73   -0.69   2800   1.0
loglik_pred[199]   -0.66  6.2e-4   0.04  -0.74  -0.69  -0.66  -0.63   -0.58   4183   1.0
loglik_pred[200]   -0.41  2.6e-4   0.02  -0.45  -0.42  -0.41   -0.4   -0.38   4668   1.0
lp__                32.03    0.06   2.25  26.73  30.73  32.36  33.68   35.43   1639   1.0
```

```
Samples were drawn using NUTS at Sat Dec  8 00:37:17 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   3. Comparative Analysis of Model

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

Firsty, 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' val
         y_ax_linear = samples_linear['y_predicted'].mean(axis = 0) # Linear
         y_ax_poly = samples_poly['y_predicted'].mean(axis = 0)   # Polynomial

         # 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 a
predictionSamples = int(len(YTest_Scaled) * 0.3)
x_ax = np.arange(1, predictionSamples + 1, 1)

# Plot the predictions from both models versus the 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 P
plt.plot(x_ax, y_poly_unscaled[:predictionSamples], label = "Posterior Predictive Pri
plt.plot(x_ax, YTest_Unscaled[:predictionSamples], label = "Original Prices", marker
plt.legend(fontsize = 14)
plt.tick_params(labelsize = 12)
plt.title('Comparison of Predicted and Original House Prices', fontsize = 14, fontwei
plt.savefig(f"figures/priceCompare.jpg")
```
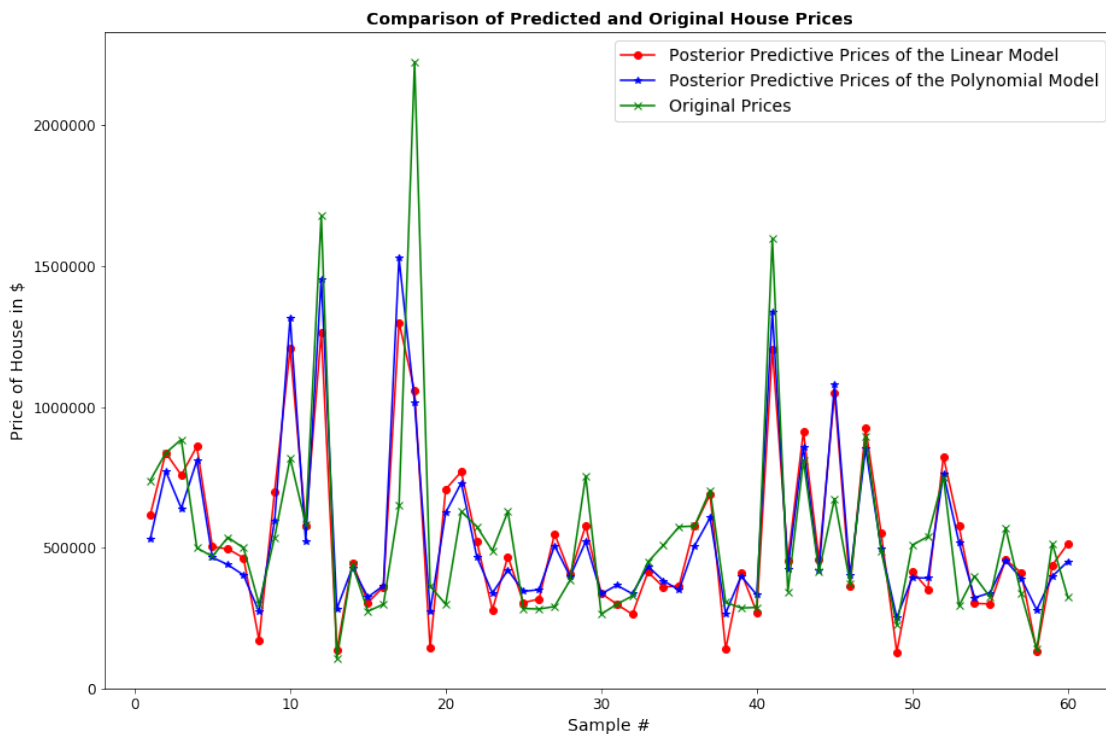

From the figure above, it can be observed that **polynomial** model made *price* predictions much closer to the original than the **linear** model. Although both models were able to adapt quite well to the sensitivity of the dataset, there were certain samples where both the models would seem to go wayward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

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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

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

RMS error of the Linear model:  1.781007323260178
RMS error of the Polynomial model:  1.7570609721068275
```

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. 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
         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: -174.99283071811473
Estimated effective number of parameters in the model:  0.684007525568262
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: -170.4180698811343
Estimated effective number of parameters in the model:  1.671914139234417
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 =
         plt.scatter(x_poly, ks_poly, label = "Pareto k Estimates Polynomial model", marker =
         plt.tick_params(labelsize = 13)
         plt.ylim((-0.5, 0.8))
         plt.title("Pareto k Estimates Comparative Analysis for Linear and Polynomial Regressi
         plt.legend(fontsize = 14)
         plt.savefig(f"figures/paretoKEstimates.jpg")
```

Pareto k Estimates Comparative Analysis for Linear and Polynomial Regression

— k = 0.7
● Pareto k Estimates Linear model
× Pareto k Estimates Polynomial model
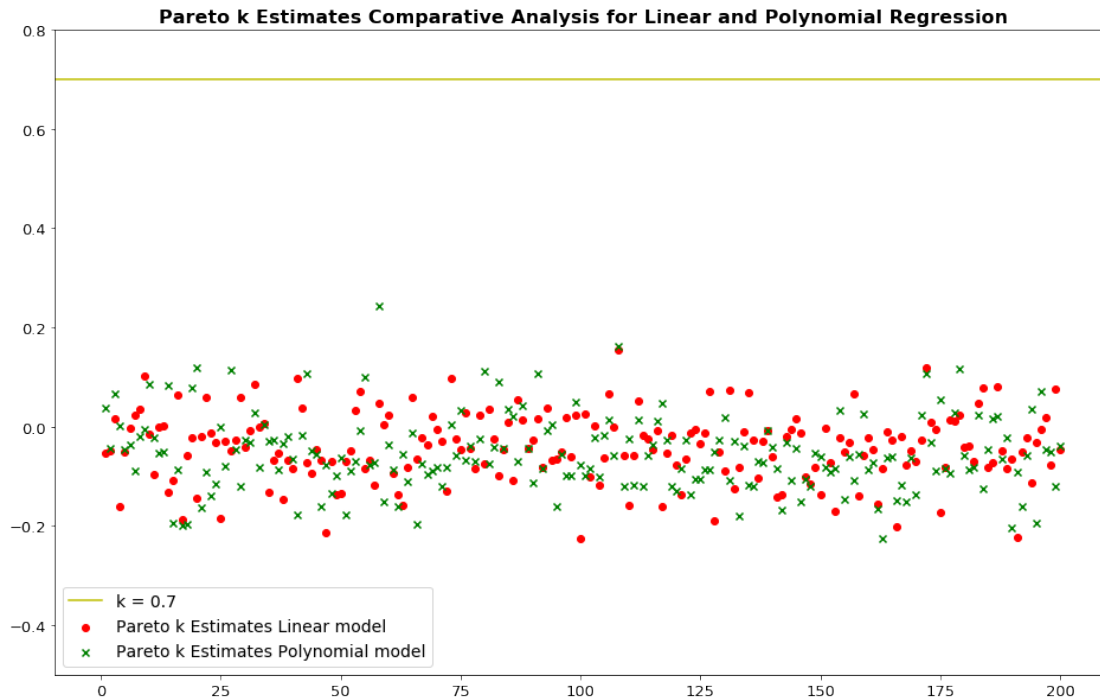
Results obtained from the PSIS-LOO CV (leave-one-out cross-validation) highlight two things:

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 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.