

By default, all the columns in this file are the average values of the variable into consideration.

The description of the variable names is as follows:

subject: the number of the subject concerned (1 to 30)

activity: The activity into consideration

1: WALKING

2: WALKING\_UPSTAIRS

3: WALKING\_DOWNSTAIRS

4: SITTING

5: STANDING

6: LAYING

**Following are the variables in time domain (all numerical values between [-1 and 1]):**

tBodyAccmeanX, tBodyAccmeanY, tBodyAccmeanZ: separate means of body accelerations in X, Y and Z direction, respectively.

tBodyAccstdX, tBodyAccstdY, tBodyAccstdZ: separate means of standard deviations of body accelerations in X, Y and Z direction, respectively.

tGravityAccmeanX, tGravityAccmeanY, tGravityAccmeanZ: separate means of acceleration due to gravity in X, Y and Z direction, respectively.

tGravityAccstdX, tGravityAccstdY, tGravityAccstdZ: separate means of standard deviations of accelerations due to gravity in X, Y and Z direction, respectively.

tBodyAccJerkmeanX, tBodyAccJerkmeanY, tBodyAccJerkmeanZ: separate means of body jerks in X, Y and Z direction, respectively.

tBodyAccJerkstdX, tBodyAccJerkstdY, tBodyAccJerkstdZ: separate means of standard deviations of body jerks in X, Y and Z direction, respectively.

tBodyGyromeanX, tBodyGyromeanY, tBodyGyromeanZ: separate means of gyroscopic acceleration in X, Y and Z direction, respectively.

tBodyGyrostdX, tBodyGyrostdY, tBodyGyrostdZ: separate means of standard deviations of gyroscopic accelerations in X, Y and Z direction, respectively.

tBodyGyroJerkmeanX, tBodyGyroJerkmeanY, tBodyGyroJerkmeanZ: separate means of gyroscopic jerks in X, Y and Z direction, respectively.

tBodyGyroJerkstdX, tBodyGyroJerkstdY, tBodyGyroJerkstdZ: separate means of standard deviations of gyroscopic jerks in X, Y and Z direction, respectively.

tBodyAccMagmean: mean of the magnitude of total accelerations

tBodyAccMagstd: standard deviation of the magnitude of total accelerations

tGravityAccMagmean: mean of the magnitude of total accelerations

tGravityAccMagstd: standard deviation of the magnitude of total accelerations

tBodyAccJerkMagmean: mean of the magnitudes of total jerks

tBodyAccJerkMagstd: : standard deviation of the total jerk

tBodyGyroMagmean: mean of the magnitude of gyroscopic acceleration

tBodyGyroMagstd: standard deviation of the magnitude of gyroscopic acceleration

tBodyGyroJerkMagmean: mean of the magnitude of gyroscopic jerks

tBodyGyroJerkMagstd: standard deviation of the magnitude of gyroscopic jerks

**The following variables are in frequency domain:**

fBodyAccmeanX, fBodyAccmeanY, fBodyAccmeanZ: separate means of body accelerations in X, Y and Z direction, respectively.

fBodyAccstdX, fBodyAccstdY, fBodyAccstdZ: separate means of standard deviations of body accelerations in X, Y and Z direction, respectively.

fGravityAccmeanX, fGravityAccmeanY, fGravityAccmeanZ: separate means of acceleration due to gravity in X, Y and Z direction, respectively.

fGravityAccstdX, fGravityAccstdY, fGravityAccstdZ: separate means of standard deviations of accelerations due to gravity in X, Y and Z direction, respectively.

fBodyAccJerkmeanX, fBodyAccJerkmeanY, fBodyAccJerkmeanZ: separate means of body jerks in X, Y and Z direction, respectively.

fBodyAccJerkstdX, fBodyAccJerkstdY, fBodyAccJerkstdZ: separate means of standard deviations of body jerks in X, Y and Z direction, respectively.

fBodyGyromeanX, fBodyGyromeanY, fBodyGyromeanZ: separate means of gyroscopic acceleration in X, Y and Z direction, respectively.

fBodyGyrostdX, fBodyGyrostdY, fBodyGyrostdZ: separate means of standard deviations of gyroscopic accelerations in X, Y and Z direction, respectively.

fBodyGyroJerkmeanX, fBodyGyroJerkmeanY, fBodyGyroJerkmeanZ: separate means of gyroscopic jerks in X, Y and Z direction, respectively.

fBodyGyroJerkstdX, fBodyGyroJerkstdY, fBodyGyroJerkstdZ: separate means of standard deviations of gyroscopic jerks in X, Y and Z direction, respectively.

fBodyAccMagmean: mean of the magnitude of total accelerations

fBodyAccMagstd: standard deviation of the magnitude of total accelerations

fGravityAccMagmean: mean of the magnitude of total accelerations

fGravityAccMagstd: standard deviation of the magnitude of total accelerations

fBodyAccJerkMagmean: mean of the magnitudes of total jerks

fBodyAccJerkMagstd: : standard deviation of the total jerk

fBodyGyroMagmean: mean of the magnitude of gyroscopic acceleration

fBodyGyroMagstd: standard deviation of the magnitude of gyroscopic acceleration

fBodyGyroJerkMagmean: mean of the magnitude of gyroscopic jerks

fBodyGyroJerkMagstd: standard deviation of the magnitude of gyroscopic jerks