Data Dictionary - Activity Measurements

The Activity Measurement .txt table provides average values of selected accelerometer and gyroscope measurements from a smartphone worn by 30 subjects performing six activities.

The table contains 68 variables described below.

Variable name	Description
activity	Activity carried out by the subject. Possible activities are: WALKING, WALKING_UPSTAIRS, WALKING_DOWNSTAIRS, SITTING, STANDING, LAYING.
subject	Subject ID. Values range from 1 to 30.
tBodyAcc.mean.X	Mean of the acceleration of the body in the X direction
tBodyAcc.mean.Y	as above but in the Y direction
tBodyAcc.mean.Z	as above but in the Z direction
tGravityAcc.mean.X	Mean of the acceleration of the phone in the X direction
tGravityAcc.mean.Y	as above but in the Y direction
tGravityAcc.mean.Z	as above but in the Z direction
tBodyAccJerk.mean.X	Mean of the acceleration of the body Jerk in the X direction
tBodyAccJerk.mean.Y	as above but in the Y direction
tBodyAccJerk.mean.Z	as above but in the Z direction
tBodyGyro.mean.X	Mean of the location of the body in the X direction
tBodyGyro.mean.Y	as above but in the Y direction
tBodyGyro.mean.Z	as above but in the Z direction
tBodyGyroJerk.mean.X	Mean of the location of the body Jerk in the X direction
tBodyGyroJerk.mean.Y	as above but in the Y direction
tBodyGyroJerk.mean.Z	as above but in the Z direction
tBodyAccMag.mean	Mean of the magnitude of the acceleration of the body (magnitude of the 3 dimensional signal)
tGravityAccMag.mean	Mean of the magnitude of the acceleration of the phone
tBodyAccJerkMag.mean	Mean of the magnitude of the acceleration of the body Jerk
tBodyGyroMag.mean	Mean of the magnitude of the location of the body
tBodyGyroJerkMag.mean	Mean of the magnitude of the location of the body Jerk
fBodyAcc.mean.X	"f" refers to frequency domain signals rather than time domain signals respresented by "t" above. The descriptions from above apply to these variables.
fBodyAcc.mean.Y	
fBodyAcc.mean.Z	
fBodyAccJerk.mean.X	
fBodyAccJerk.mean.Y	
fBodyAccJerk.mean.Z	
fBodyGyro.mean.X	
fBodyGyro.mean.Y	
fBodyGyro.mean.Z	
fBodyAccMag.mean	
fBodyBodyAccJerkMag.mean	
fBodyBodyGyroMag.mean	
fBodyBodyGyroJerkMag.mean	
tBodyAcc.std.X	Standard deviation of the acceleration of the body in the X direction
tBodyAcc.std.Y	as above but in the Y direction
tBodyAcc.std.Z	as above but in the Z direction

Variable name	Description
tGravityAcc.std.X	Standard deviation of the acceleration of the phone in the X direction
tGravityAcc.std.Y	as above but in the Y direction
tGravityAcc.std.Z	as above but in the Z direction
tBodyAccJerk.std.X	Standard deviation of the acceleration of the body Jerk in the X direction
tBodyAccJerk.std.Y	as above but in the Y direction
tBodyAccJerk.std.Z	as above but in the Z direction
tBodyGyro.std.X	Standard deviation of the location of the body in the X direction
tBodyGyro.std.Y	as above but in the Y direction
tBodyGyro.std.Z	as above but in the Z direction
tBodyGyroJerk.std.X	Standard deviation of the location of the body Jerk in the X direction
tBodyGyroJerk.std.Y	as above but in the Y direction
tBodyGyroJerk.std.Z	as above but in the Z direction
tBodyAccMag.std	Standard deviation of the magnitude of the acceleration of the body (magnitude of the 3 dimensional signal)
tGravityAccMag.std	Standard deviation of the magnitude of the acceleration of the phone
tBodyAccJerkMag.std	Standard deviation of the magnitude of the acceleration of the body Jerk
tBodyGyroMag.std	Standard deviation of the magnitude of the location of the body
tBodyGyroJerkMag.std	Standard deviation of the magnitude of the location of the body Jerk
fBodyAcc.std.X	"f" refers to frequency domain signals rather than time domain signals respresented by "t" above. The descriptions from above apply to these variables.
fBodyAcc.std.Y	
fBodyAcc.std.Z	
fBodyAccJerk.std.X	
fBodyAccJerk.std.Y	
fBodyAccJerk.std.Z	
fBodyGyro.std.X	
fBodyGyro.std.Y	
fBodyGyro.std.Z	
fBodyAccMag.std	
fBodyBodyAccJerkMag.std	
fBodyBodyGyroMag.std	
fBodyBodyGyroJerkMag.std	