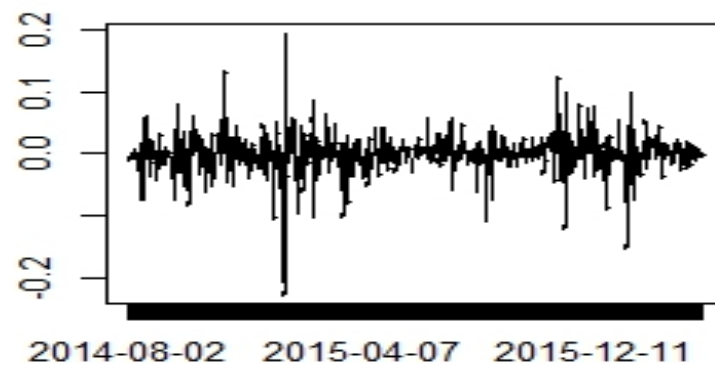
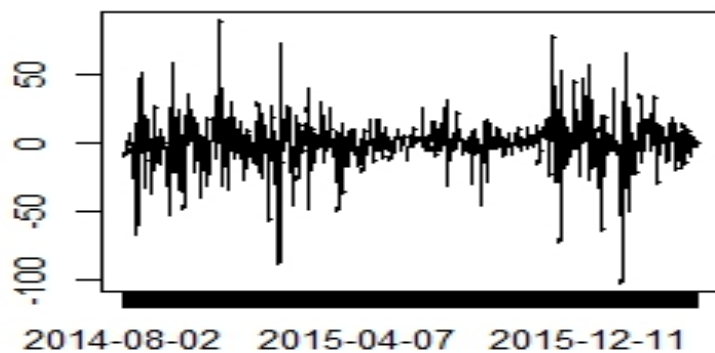
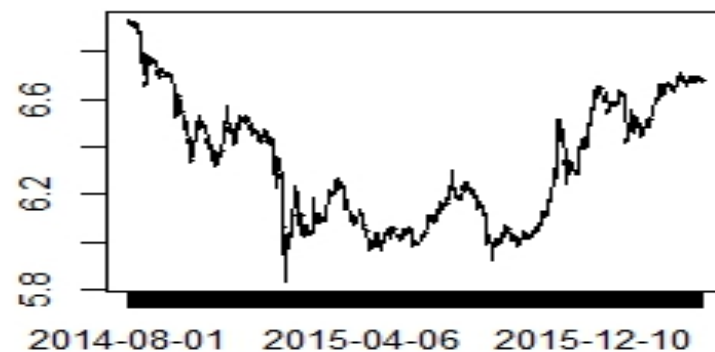
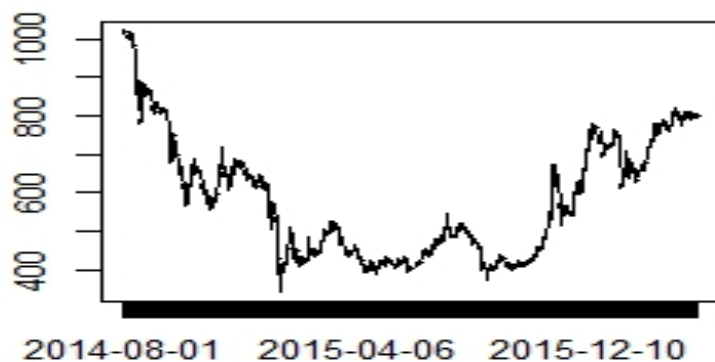


HOMework UNIT4

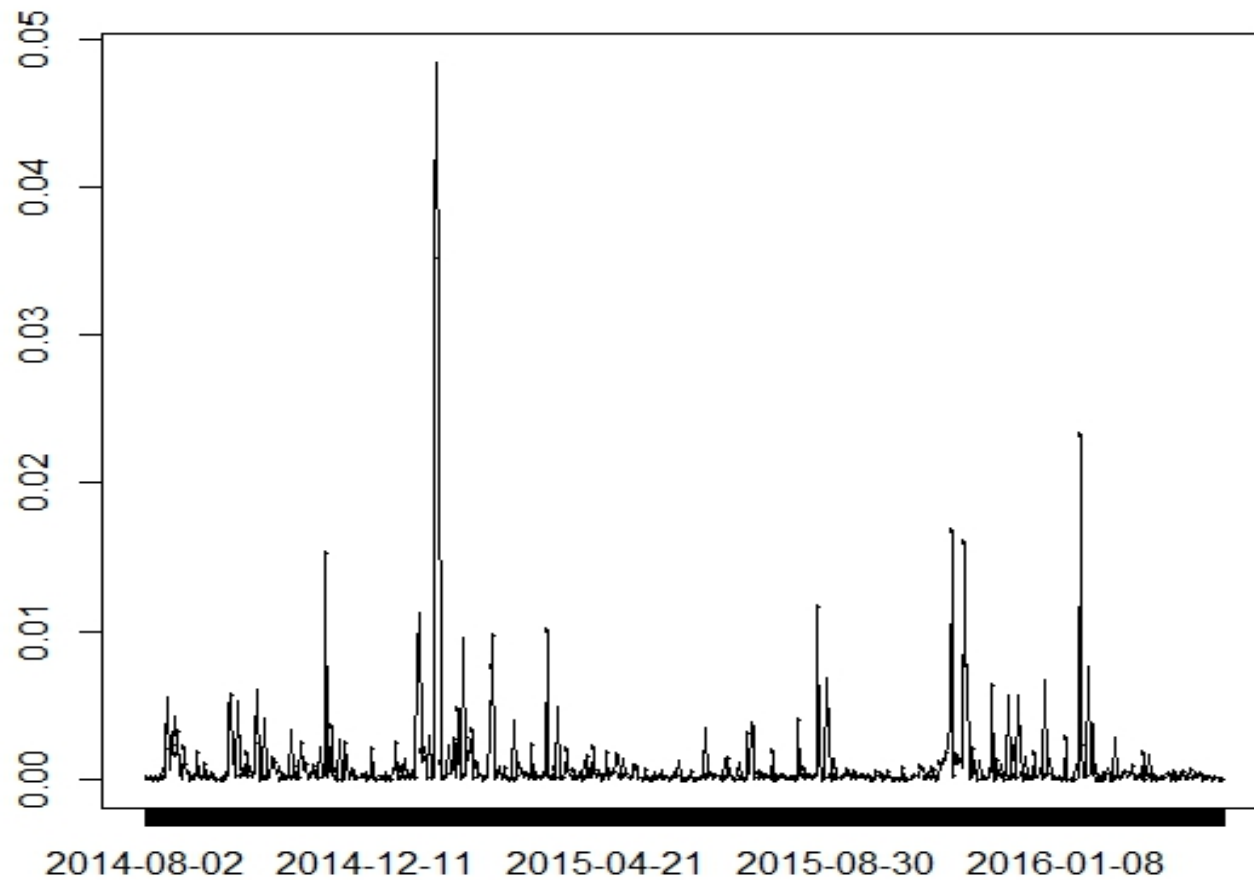
QUESTION 3

Reporter: Xiumei Wang

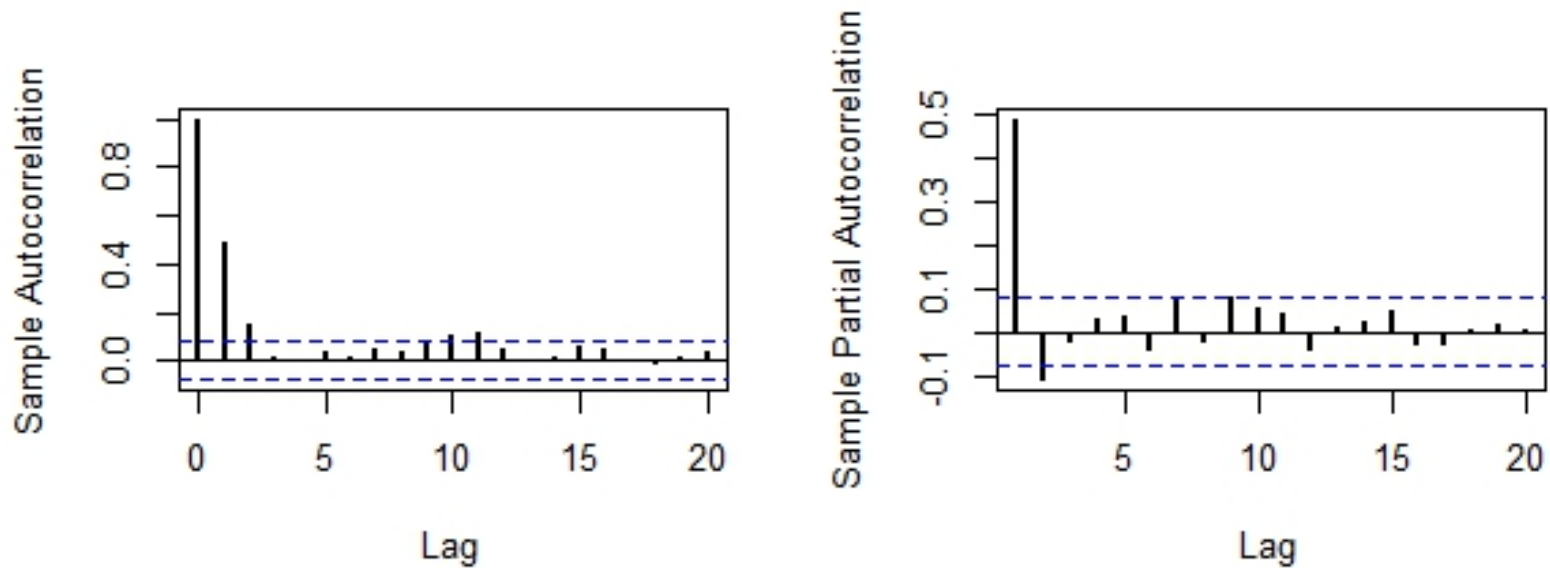
Instructor: Wolfgang Härdle



The difference of crix returns.

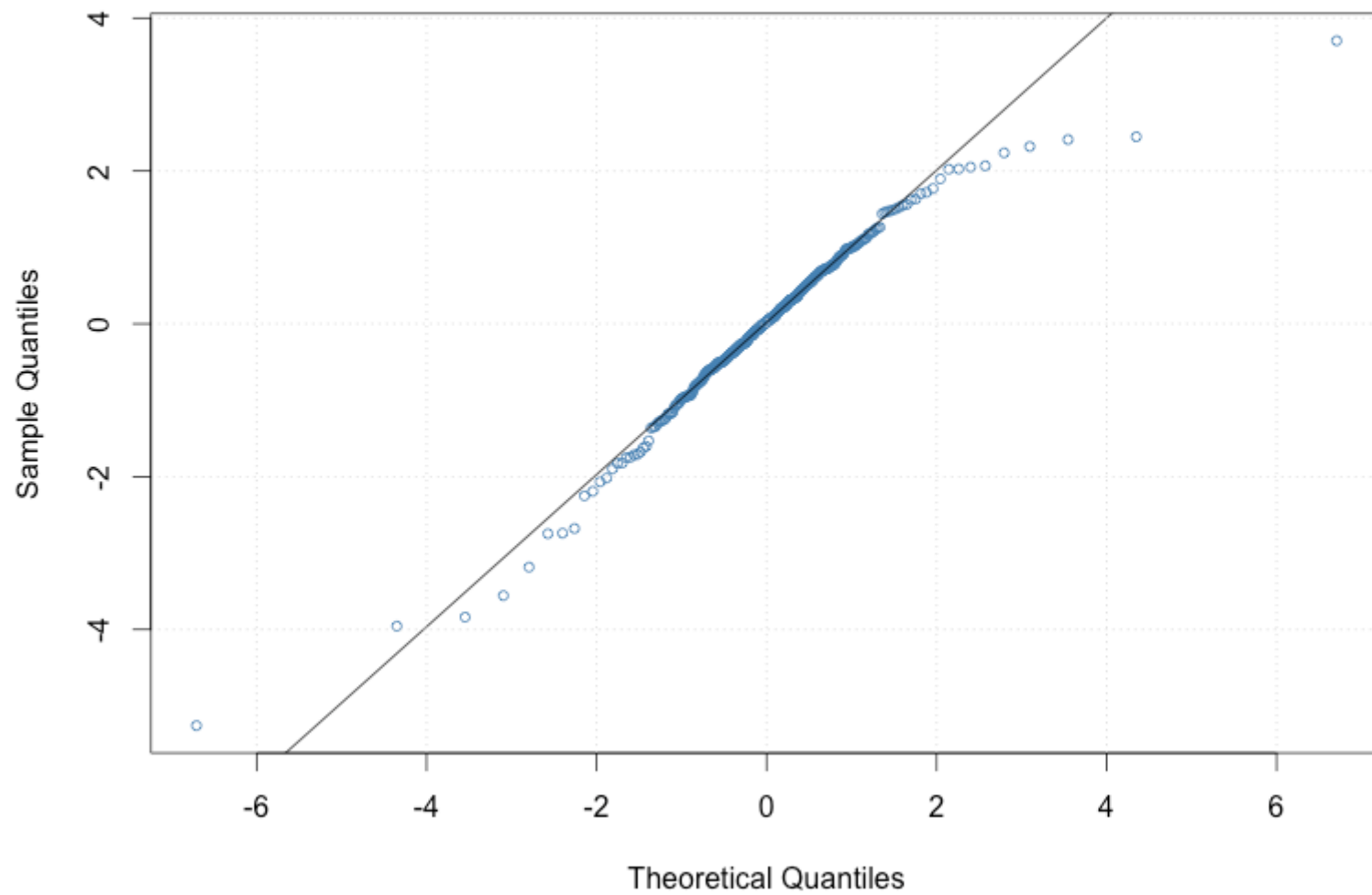


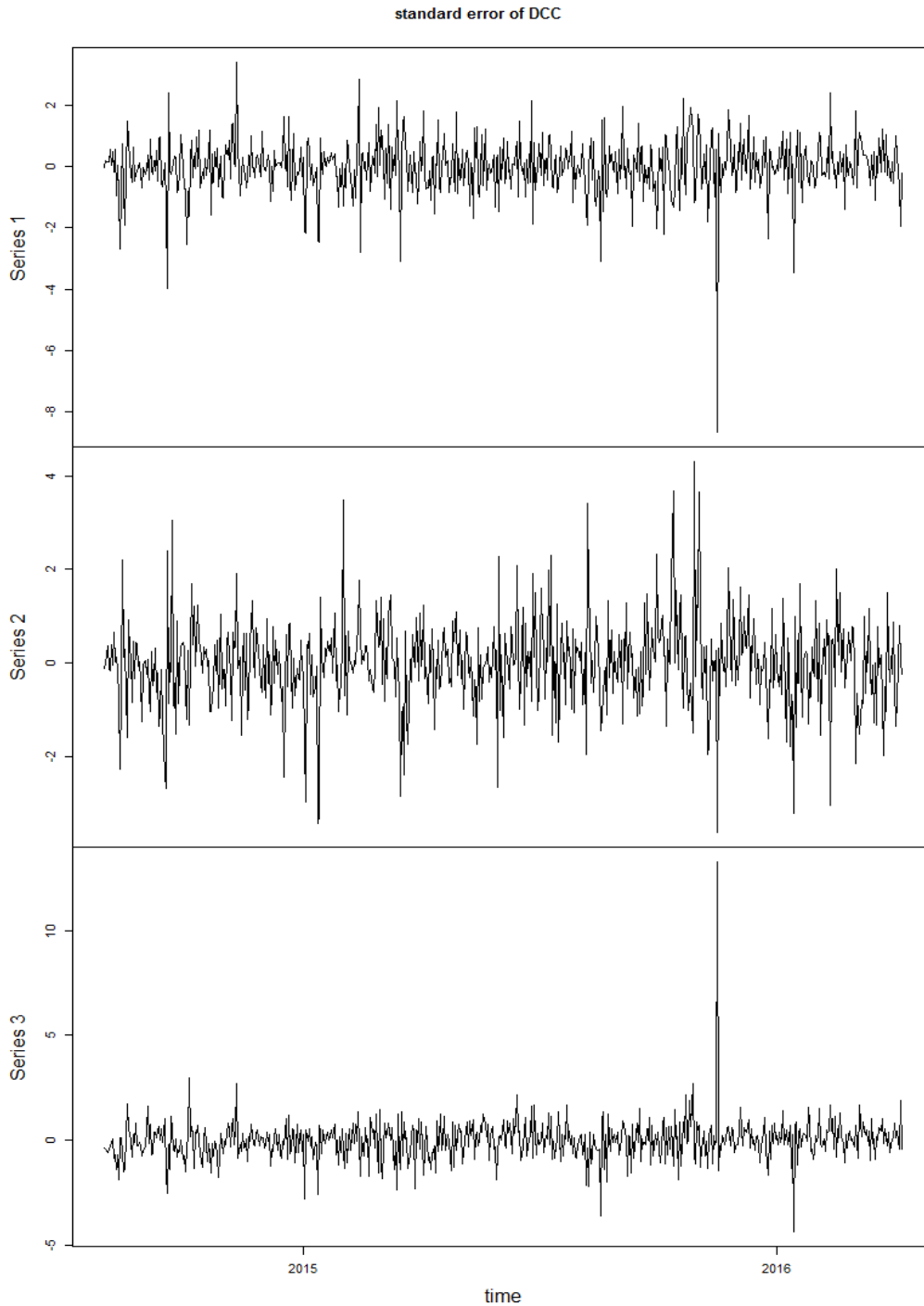
The squared ARIMA(2,0,2) residuals of CRIX returns.



The ACF and PACF of squared ARIMA(2,0,2) residuals from 01/08/2014 to 06/04/2016.

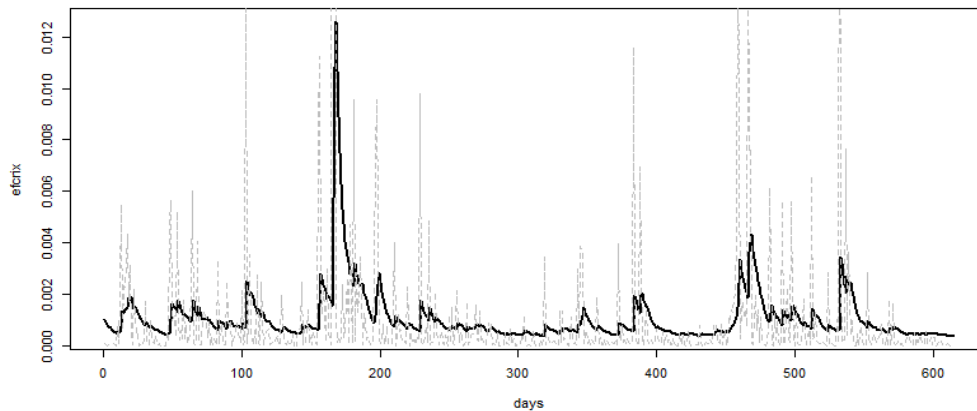
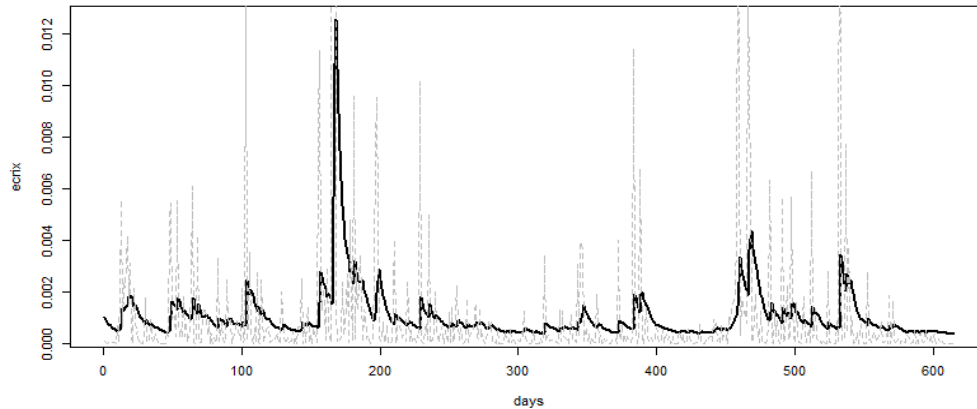
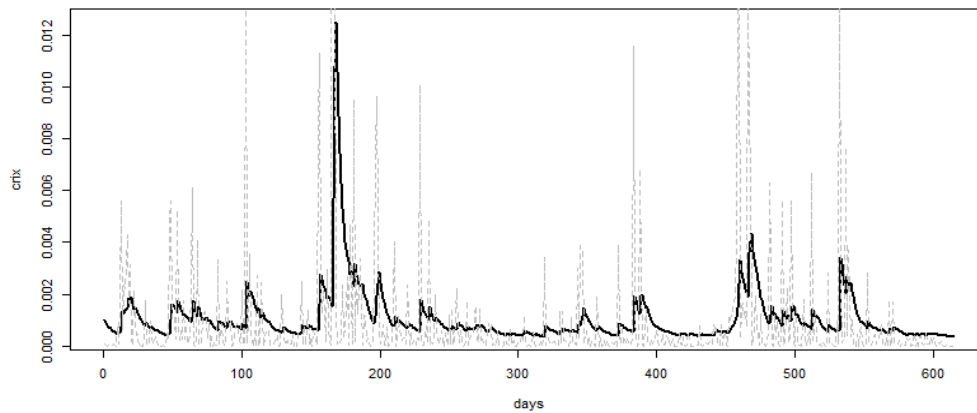
qstd - QQ Plot





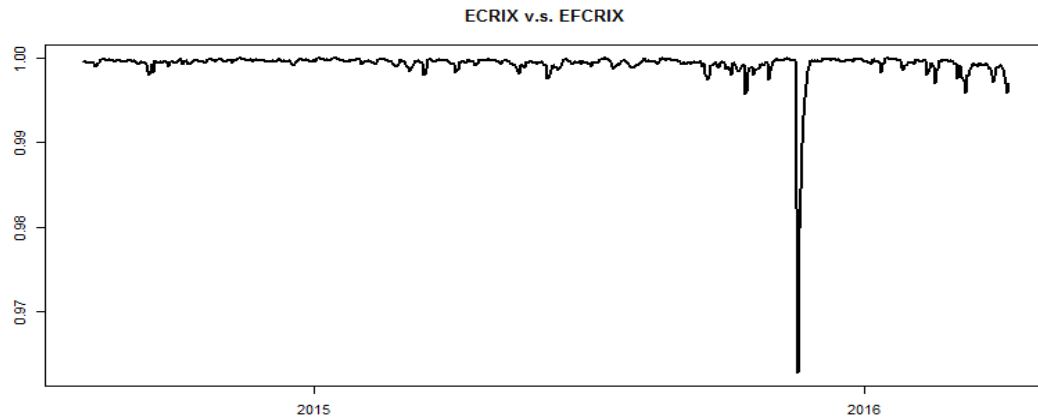
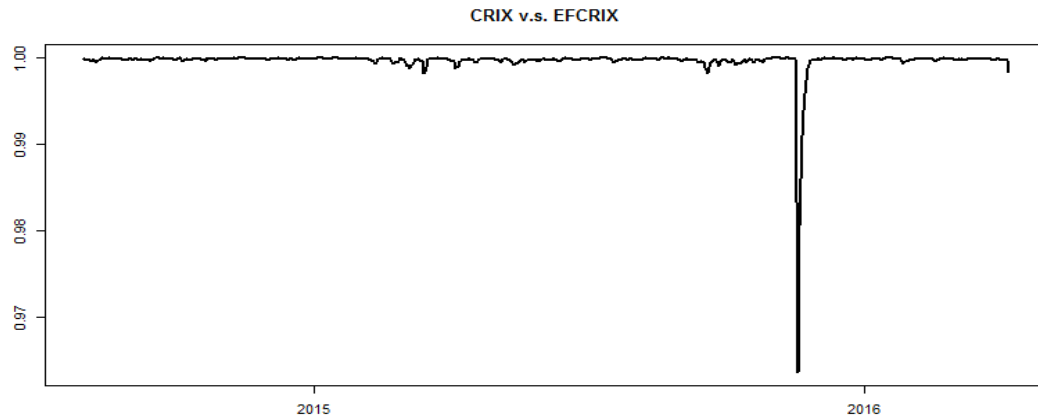
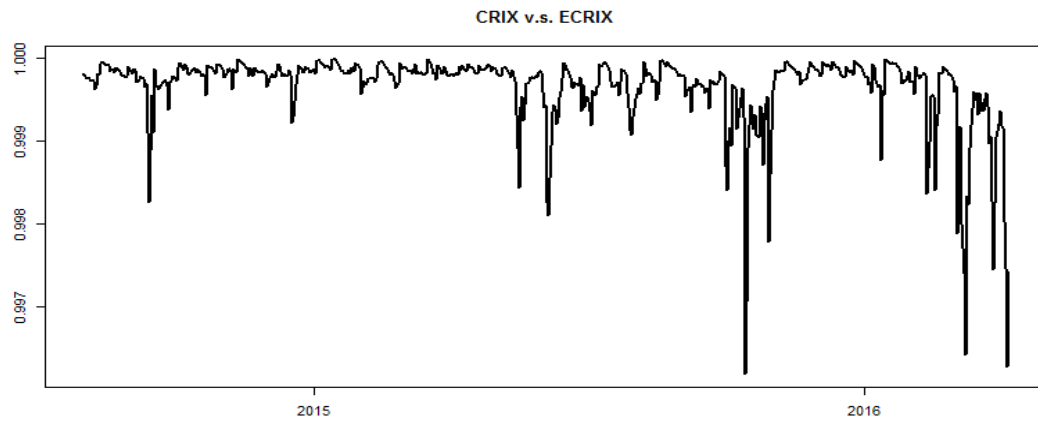
The standard error of
DCC-GARCH model.

CRIX(upper)
ECRIX (middle)
EFCRIX(lower)

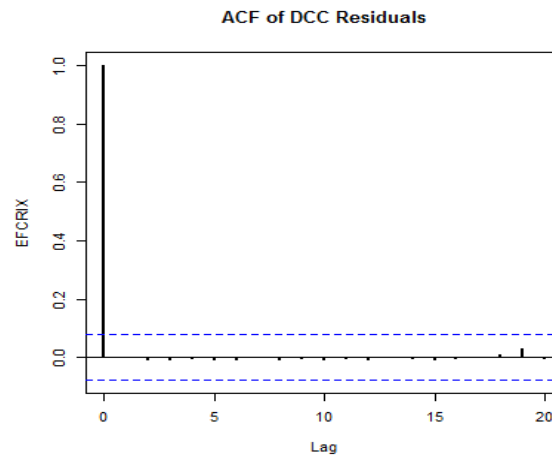
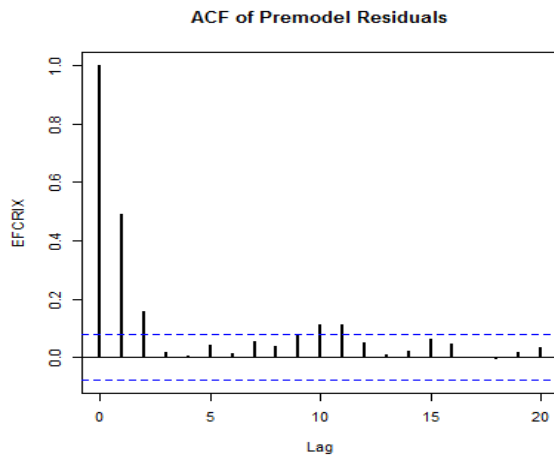
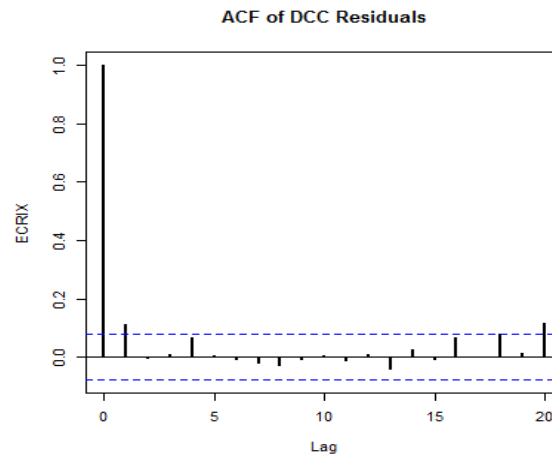
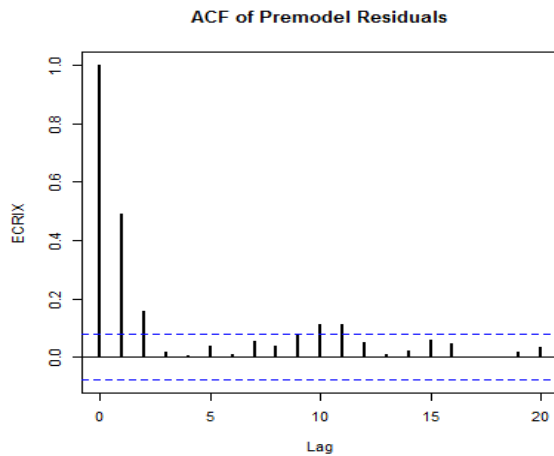
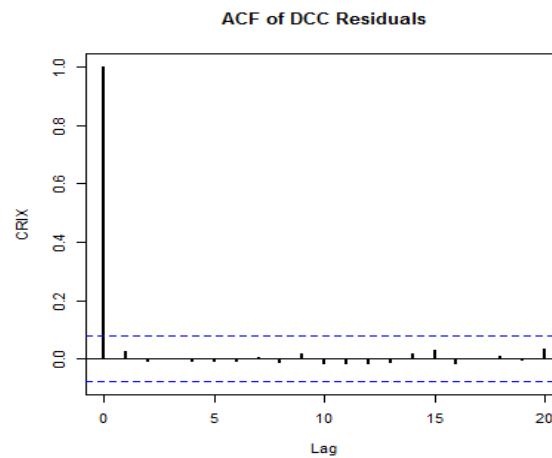
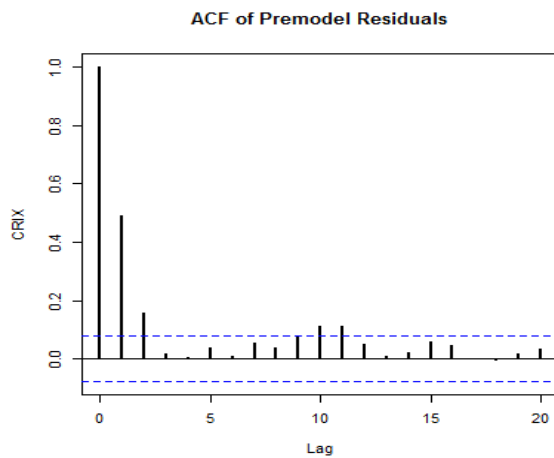


The estimated volatility (black) and realized volatility (grey) using DCC-GARCH model.

CRIX(upper)
ECRIX (middle)
EFCRIX(lower)

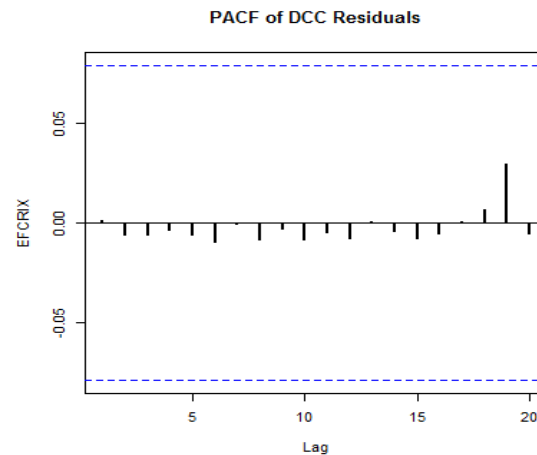
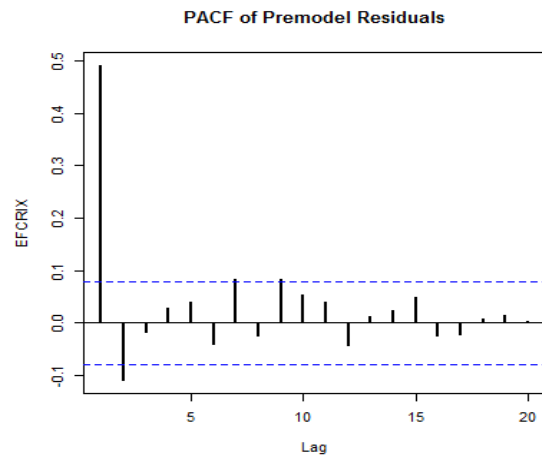
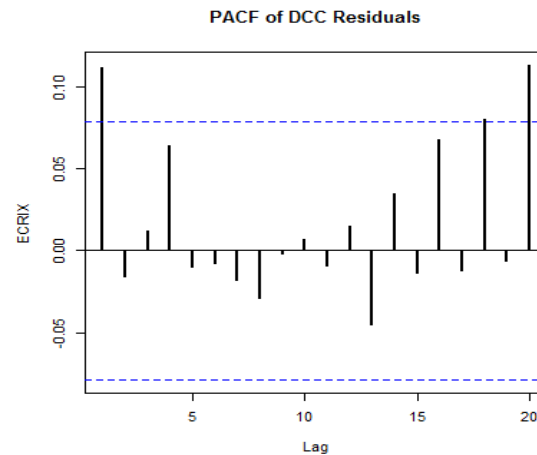
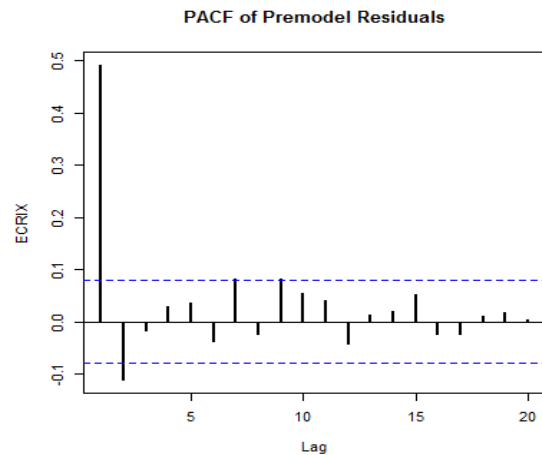
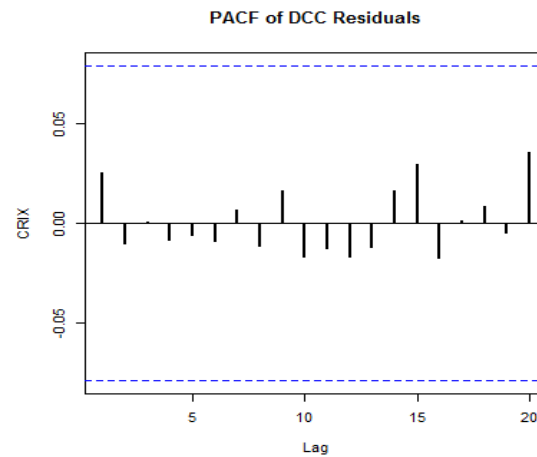
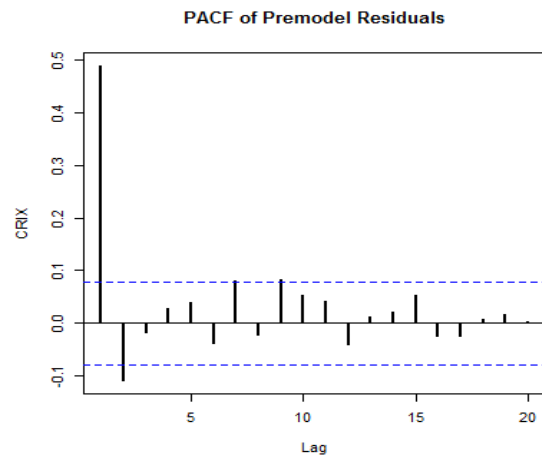


The dynamic autocorrelation between three CRIX indices: CRIX, ECRIX and EFCRIX estimated by DCC-GARCH model.



The comparison of
ACF between
premodel squared
residuals and DCC
squared residuals.

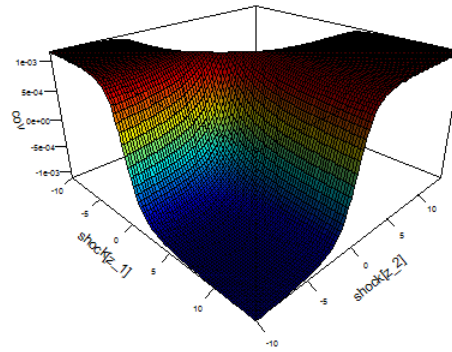
CRIX(upper)
ECRIX (middle)
EFCRIX(lower)



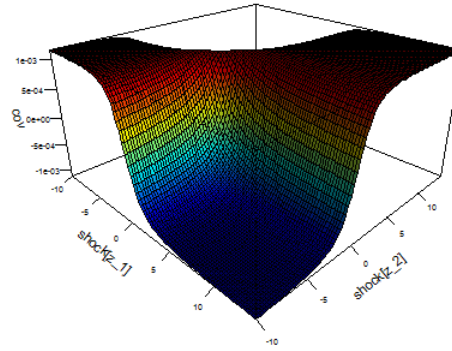
The comparison of
PACF between
premodel squared
residuals and DCC
squared residuals.

CRIX(upper)
ECRIX (middle)
EFCRIX(lower)

DCC News Impact Covariance Surface
cres-ecres



DCC News Impact Covariance Surface
cres-efores



DCC News Impact Covariance Surface
ecres-efores

