#### Ch 8 - ARCH, GARCH Model

#### 2014/ZA Q1

Define the lag operator L as the application  $Lx_t = x_{t-1}$  for any series  $\{x_t\}_t$ . The component GARCH model can then be rewritten:

$$\sigma_{t+1}^2 = \nu_{t+1} + \alpha_{\sigma}(R_t^2 - L\nu_{t+1}) + \beta_{\sigma}(\sigma_t^2 - L\nu_{t+1})$$
  
 $= \alpha_{\sigma}R_t^2 + \beta_{\sigma}\sigma_t^2 + (1 - (\alpha_{\sigma} + \beta_{\sigma})L)\nu_{t+1}$   
 $\nu_{t+1} = \sigma^2 + \alpha_{\nu}(R_t^2 - \sigma_t^2) + \beta_{\nu}(\nu_t - \sigma^2)$   
 $= \sigma^2 + \alpha_{\nu}R_t^2 - \alpha\nu\sigma_t^2 + \beta_{\nu}L\nu_{t+1} - \beta_{\nu}\sigma^2.$ 

The long-run variance factor  $\nu_{k+1}$  can be written as:

$$\nu_{t+1} = \frac{1}{1 - \beta_{\nu}L} \left( (1 - \beta_{\nu})\sigma^2 + \alpha_{\nu}R_t^2 - \alpha_{\nu}\sigma_t^2 \right).$$

Replacing into the equation for  $\sigma_{l+1}^2$  one obtains:

$$\sigma_{t+1}^2 = \alpha_{\sigma}R_t^2 + \beta_{\sigma}\sigma_t^2 + \frac{(1 - (\alpha_{\sigma} + \beta_{\sigma})L}{1 - \beta_{\nu}L}[(1 - \beta_{\nu})\sigma^2 + \alpha_{\nu}R_t^2 - \alpha_{\nu}\sigma_t^2].$$

Multiplying both sides by  $1 - \beta_c L$  and simplifying we get:

$$\begin{split} \sigma_{t-1}^2 &= \beta_{\sigma} L \sigma_{t+1}^2 + (1 - \beta_{\sigma} L)(\alpha_{\sigma} R_t^2 + \beta_{\sigma} \sigma_t^2) \\ &+ (1 - (\alpha_{\sigma} + \beta_{\sigma}) L))((1 - \beta_{\sigma}) \sigma^2 + \alpha_{\sigma} R_1^2 - \alpha_{\sigma} \sigma_t^2) \\ &= \beta_{\sigma} \sigma_t^2 + \alpha_{\sigma} R_t^2 + \beta_{\sigma} \sigma_t^2 - \beta_{\nu} \alpha_{\sigma} R_{t-1}^2 - \beta_{\nu} \beta_{\sigma} \sigma_{t-1}^2 \\ &+ (1 - (\alpha_{\sigma} + \beta_{\sigma}))(1 - \beta_{\nu}) \sigma^2 + \alpha_{\nu} R_t^2) \\ &- (\alpha_{\sigma} + \beta_{\sigma}) \alpha_{\sigma} R_{t-1}^2 - \alpha_{\nu} \sigma_t^2 + (\alpha_{\sigma} + \beta_{\sigma}) \alpha_{\nu} \sigma_{t-1}^2 \\ &= (1 - (\alpha_{\sigma} + \beta_{\sigma}))(1 - \beta_{\nu}) \sigma^2 + (-\alpha_{\nu} + \beta_{\nu} + \beta_{\sigma}) \sigma_t^2 \\ &+ ((\alpha_{\sigma} + \beta_{\sigma}) \alpha_{\nu} - \beta_{\nu} \beta_{\sigma}) \sigma_t^2 + (\alpha_{\sigma} + \beta_{\sigma}) R_{t-1}^2. \end{split}$$

So the component GARCH model can be identified as a GARCH(2,2) model:

$$\sigma_{t+1}^2 = \omega + \alpha_1 R_t^2 + \alpha_2 R_{t-1}^2 + \beta_1 \sigma_t^2 - \beta_2 \sigma_{t-1}^2$$

writnesses:

$$\omega = (1 - (\alpha_{\sigma} + \beta_{\sigma}))(1 - \beta_{\nu})\sigma^{2}$$
  
 $\alpha_{1} = \alpha_{\sigma} + \alpha_{\nu}$   
 $\alpha_{2} = -(\alpha_{\sigma} + \beta_{\sigma})\alpha_{\nu} - \beta_{\nu}\alpha_{\sigma}$   
 $\beta_{1} = -\alpha_{\nu} + \beta_{\nu} + \beta_{\sigma}$   
 $\beta_{2} = (\alpha_{\sigma} + \beta_{\sigma})\alpha_{\nu} - \beta_{\sigma}\beta_{\sigma}$ .

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