Remedies:

1) Specification:

True: 
$$y = x + gXt + gZt + Gt$$

Est: 
$$y_{t} = \lambda + \beta X_{t} + u'_{t}$$

Autocorr.

2) 
$$AR(1)$$
 transform (Special GLS)

Cohrain - Dreutt procedure

 $y_{t} = f_{1} + f_{2} \times x_{t} + U_{t}$ 

Assumption:  $U_{t} = f_{U_{t-1}} + \varepsilon_{t}$ 
 $y_{t} = f_{1} + f_{2} \times x_{t} + U_{t}$ 
 $y_{t} = f_{1} + f_{2} \times x_{t} + \rho_{U_{t-1}} + \varepsilon_{t}$ 
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$$\delta_{u}^{2} = Van(\beta Ut - 1 + \epsilon_{t}) = \beta_{u}^{2} + \delta_{u}^{2} + \delta_{\varepsilon}^{2} + 2Cov[gut - 1, \epsilon_{t})$$

$$\delta_{u}^{2} = \frac{\delta_{\varepsilon}^{2}}{1 - \beta^{2}} \qquad (1 - \beta^{2}) \delta_{u}^{2} = \delta_{\varepsilon}^{2} = 0$$

3) MA (1) Transform:

$$\beta = (x^{1} \cdot x^{1} \cdot x)^{-1} \cdot x^{1} \cdot y \leftarrow GLS$$

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AR(1) in error term  $\xi_1 = \int_{\xi_1}^{\xi_2} \frac{1}{1-\xi_1} + \frac{1}{1-\xi_2}$   $Cov(\xi_1, \xi_2, k)$   $= \int_{\xi_1}^{\xi_2} \frac{1}{1-\xi_2} \cdot \frac{1}{1-\xi_2} \cdot \frac{1}{1-\xi_2}$ 

MA(1)

E<sub>1</sub>: 
$$M_{+} + pM_{+-1}$$
 $\Omega = \frac{6^{2}}{6^{2}}$ 
 $\frac{1}{6}$ 
 $\frac{1}{6}$ 

