$$ tp \sim Gamma-Poisson(\lambda,\phi)\ \log(\lambda) = \alpha + \beta_{[t_num]} + \beta_{[c_num]}\ \alpha \sim Normal(0,1)\ \beta_{[t_num]} \sim Normal(0,1)\ \beta_{[c_num]} \sim Normal(0,1)\ \phi \sim Exponential(1) $$

$$ tp \sim Gamma-Poisson(\lambda,\phi)\ \log(\lambda) = \alpha_{[t_num]} + \beta_{[c_num]}\ \alpha_{[t_num]} \sim Normal(0,1)\ \beta_{[c_num]} \sim Normal(1,0.5)\ \phi \sim Exponential(1) $$