

- **Chapter title:** Marginal Modeling of Intensive Longitudinal Data by Generalized Estimation Equation
- **Authors:** Joseph L. Schafer
- **Software Packages Used/covered in this Chapter:**
 - SAS
 - SPLUS
- **SAS programs accompanying chapter in Walls T.A. & Schafer, J.L. (2006) Models for Intensive Longitudinal Data.:**

```

/*Reading example data set*/

data chap2;

    infile 'c:\specify_path\chap1.txt';

    input id day sex choice control;

/*GEE with independence covariance*/

proc genmod data=chap2 descending order=data;

    title 'GEE with independence covariance';

    class id day sex;

    model control=choice day sex/d=normal link=identity;

    repeated subject=id/type=ind modelse;

run;

```

```
/*GEE with compound symmetry covariance*/  
  
proc genmod data=chap2 descending order=data;  
  
    title 'GEE with compound symmetry covariance';  
  
    class id day sex;  
  
    model control=choice day sex/d=normal link=identity;  
  
    repeated subject=id/type=cs modelse;  
  
run;  
  
/*GEE with autoregressive covariance*/  
  
proc genmod data=chap2 descending order=data;  
  
    title 'GEE with autoregressive covariance';  
  
    class id day sex;  
  
    model control=choice day sex/d=normal link=identity;  
  
    repeated subject=id/type=ar modelse;  
  
run;
```