You can create the GLM template as follows:

```
proc template;
   define statgraph Stat.GLM.Graphics.Fit;
      dynamic _PREDLABEL _CONFLABEL _DEPLABEL _DEPNAME _INDLABEL
         _SHORTINDLABEL _OBSNUM _Y _XVAR _UCL _LCL _UCLM _LCLM _TITLE
         _Y_OBS _XVAR_OBS _PREDICTED _UCL_OBS _LCL_OBS _UCLM_OBS
         _LCLM_OBS _FREQ _WEIGHT _ID1 _ID2 _ID3 _ID4 _ID5;
      BeginGraph;
         entrytitle _TITLE " for " _DEPNAME;
         . . .
      EndGraph;
   end;
run;
```

The following steps add an MVAR and ENTRYFOOTNOTE statement to the template and run PROC GLM twice, once for each BY group:

```
%macro mygraph;
   proc glm data=__bydata;
      model weight = height;
      ods select fitplot;
%mend;

%modtmplt(by=sex, data=class, template=Stat.GLM.Graphics.Fit)
```

The results are displayed in Figure 4.19 and Figure 4.20. The **ModTmplt** macro requires you to provide a SAS macro called **MyGraph** that contains the SAS procedure that needs to be run. Notice that the BY and RUN statements are *not* specified in the **MyGraph** macro. The **ModTmplt** macro constructs and provides them. Also notice that you must use the DATA=__BYDATA option (the data set name begins with two underscores) with the procedure call in the **MyGraph** macro and specify the real input data set in the DATA= option of the **ModTmplt** macro. The **ModTmplt** macro constructs the __BYDATA data set with information from one BY group at a time. If you have more than one BY variable, specify the additional BY variables in the BY= option. You do not need to change anything if you have more BY groups.

You could display the BY group information in a title instead of a footnote as follows:

```
%modtmplt(by=sex, data=class, statement=entrytitle,
          template=Stat.GLM.Graphics.Fit)
```

The results of this step are not displayed. This step adds a second title line with the BY information. Other macro options are available. See Kuhfeld (2009) for more information and options. The macro displays the BY line in a footnote rather than in a title, because most graphs already have titles and few have footnotes. The BY line is less obtrusive in a footnote than it is in a title.

4.10 References

Kuhfeld, W. F. (2009), "Modifying ODS Statistical Graphics Templates in SAS 9.2," `http://support.sas.com/rnd/app/papers/modtmplt.pdf`.

Kuhfeld, Warren F. Statistical Graphics in SAS®: An Introduction to the Graph Template Language and the Statistical Graphics Procedures. Copyright © 2010, SAS Institute Inc., Cary, North Carolina, USA. ALL RIGHTS RESERVED.
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