Appendix A Installing NCSA PolyView

Overview

This appendix gives instructions for installing NCSA PolyView.

Installing NCSA PolyView

NCSA PolyView is both an interactive and command-line driven program. For instance, you may choose different drawing options of an image from pop-up windows, but must specify parameters for program operations on the command-line. These parameters are executed like most UNIX commands. More complete details of NCSA PolyView's capabilities are included in Chapter's 1 and 2. You must install PolyView by placing its files in a directory and running a make. To do so, enter **make** at the prompt.

Make sure PolyView is present by entering the following at the prompt:

```
polyview
```

If the program is present, a complete list of the program's options appear on the screen as follows. Note that bracketed command-lines are optional.

```
ERROR:   -hdf is required.
usage:   polyview
         -hdf <string>
         [-palette <string>]
         [-ris8out <string>]
         [-group <string>]
         [-fly <string>]
         [-px <string>]
         [-py <string>]
         [-pz <string>]
         [-connect <string>]
         [-scalar <string>]
         [-from <float> <float> <float>]
         [-axes]
         [-box]
         [-constant]
         [-labels]
         [-points]
         [-lines]
         [-polygons]
         [-at_point]


where:   "hdf" the name of the HDF file to display
         "palette" the name of the palette file
         "ris8out" the name of the HDF RIS8 output file
```

```
          "group" the name of the group to search for data
          "fly" the name of the fly file to use as course
          "px" the name of the X-coordinate data set
          "py" the name of the Y-coordinate data set
          "pz" the name of the Z-coordinate data set
          "connect" the name of the connectivity data set
          "scalar" the name of the color data set
          "from" the coordinate triple for the viewpoint
          "axes" tells the renderer to draw coordinate axes
          "box" tells the renderer to draw bounding box
          "constant" sets the rendering method to CONSTANT (default
GOURAUD)
          "labels" toggles whether labels are drawn on the data
          "points" tells the renderer to draw data points on top  of
data
          "lines" tells the renderer to draw data as wireframe
          "polygons" tells the renderer to draw data as polygons
          "at_point" tells the renderer to draw a star at the AT
point
```

NOTE: If PolyView doesn't appear in your search path, change directories or modify your path variable appropriately. Consult your system administrator if you have problems installing the program.

You may obtain this complete list of options at any time by running the program without any of its arguments; i.e., **`polyview`.**

In the above list the entry, `ERROR: -hdf is required`, tells you that in later command-line entries, you must provide the HDF switch to indicate the file that contains the data you want to manipulate. (See this manual's Introduction for more information on HDF and its structure.)