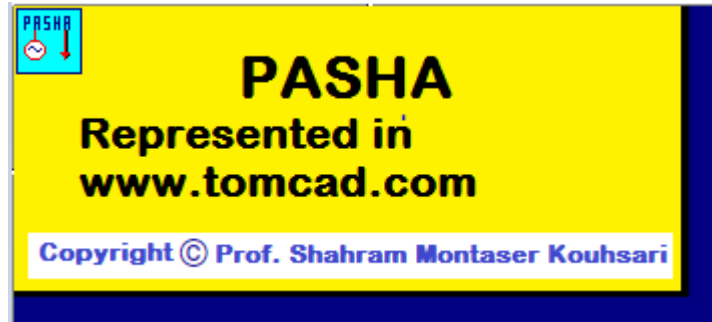




CHAPTER 20

Auxiliary Software

20.1 Introduction

When you are working with a simulator like PASHA, you probably wish to have three kinds of reports.

1) You might be interested in a report that let you to compare the alternative designs or to find out the efficiency of the power system operation strategy. PASHA [FULL LIST] options in various studies and PASHA graphical displays of the results provide a convenient way to accomplish such goals of the studies. Running the program in multitasking platforms like Microsoft Windows will make it possible to have two or more PASHA's simultaneously and compare the results of case studies in a very easy way.

2) You may sometimes find it useful to copy graphs from PASHA to other applications such as a word processor or spreadsheet program. Alternatively, you may want to copy graphs from other applications into PASHA. In particular, the commands Copy, Copy an area, Print, Create gif files, and Paste options from the local menu allow PASHA to communicate data, and graphs with other applications.

The available graphic screen can be easily copied to other programs. This allows you to add PASHA single-line diagrams and its associated results to your word processor documents or slide presentations. The simplest way to copy a shut of screen to another program is to use the Windows Clipboard. This is accomplished as follows:

- In PASHA , zoom and/or pan the display to the portion of the graphic diagram you would like to copy.
- Click on Edit menu.
- Select Copy to Clipboard menu item. This places a copy of the screen into the Window's clipboard.
- In the other program, use Paste or Paste Special to copy the contents of the clipboard into that program. The screen you saved is pasted into the program using the Metafile format.

3) You may wish to print or plot your results. PASHA does not directly provide this for you. Instead it prints the results in files and leaves to the other software to do the job of printing and plotting. These are called auxiliary software.

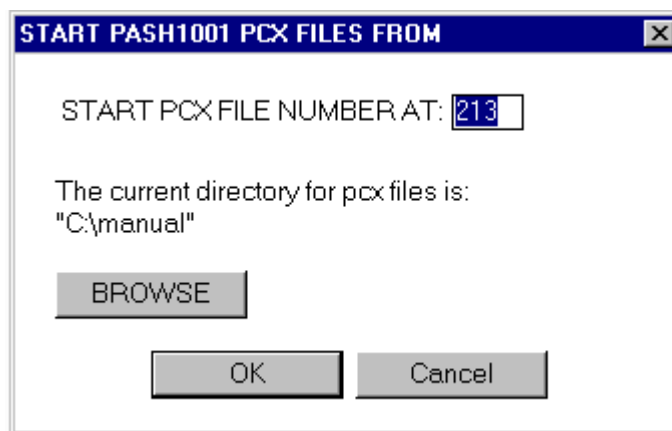
20.2 Printing results

Whenever you choose [PRINT] option in a course of PASH run, PASHA sends the results to a file named PRINTER.92 which saves the results in a text format. This file may be opened with any available text editor of the operating system you are using. You can then modify this file or print it by your text editor.

20.3 gif files

You can copy the screen graphs to gif files. This is achieved by pressing <F7> or selecting it from top platform dependent menus as described in chapter 2.

The following figure shows the gif options available. You may change the starting number and the folder the gif files will be copied to, by changing the appropriate options.



In the example shown the first gif file will be named: PASH1213 and the second one will be PASH1214 and so on. If the number is 1213, then the first file will be PASH2213. This means a thousand will be added to the specified number.

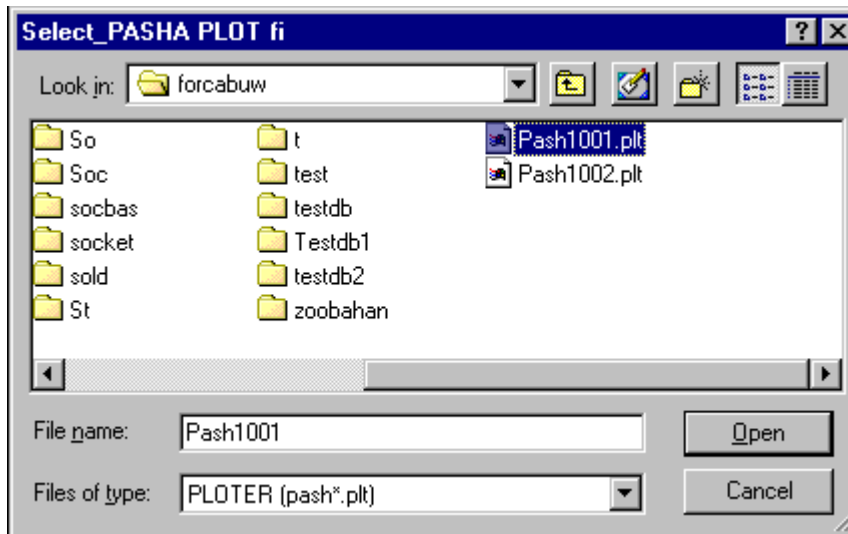
20.4 Plotting

Whenever you create a plot file while running PASHA, PASHA creates a file with the names of PASH1001.plt, PASH1002.plt and so in the specified writable directory. The whole single-line diagram (on the terminal screen or out of the terminal screen) with its associated results will be copied to these files. The files have an especial format that can just be read by PASHA PLOT software.

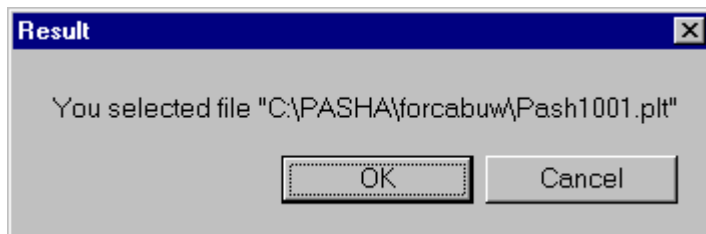
PASHA PLOT enables you to plot these files on a plotter or even in a printer with the help of other vendors' software.

20.4.1 Using PASHA PLOT

Find the PASHA PLOT file in the PASHA folder and click on the file to run it. This program does not need PASHA hardlock in order to run. The following figure shows the first menu will be appeared when you run PASHA PLOT:



The user must select one of PASHA plotting files. In the example shown, user has selected PASH1001.plt. The computer approve the user selection in the following menu:



After confirming the selection the main menus of PASHA PLOT will be appeared as shown in figure 20.1. The user may place the mouse cursor over the small box in front of each option and press any key or just a click to change that option. The following selection may be made;

PLOTTER SIZE

This is the size of plotting you wish to provide. A0, A1, A2, A3, A4, A5 and Ax may be selected. If you choose Ax the computer asks you to enter a coefficient. This coefficient and the size will be $A0 \times \text{Coefficient}$ you have entered.

PASHA PLOTTING (HPGL) TOM Ltd. TEHRAN IRAN

USE THE CURSOR TO SELECT AND CHANGE OPTIONS:

PLOTTER SIZE

A0

PORT

LPT1

BACK GROUND COLOR

BUSBAR COLOUR SELECTION ACCORDING TO VOLTAGE

TEXT

700KV

No. 1

400KV

No. 2

230KV

No. 6

132KV

No. 7

63KV

No. 8

33KV

No. 8

COLOR

20KV

No. 7

11KV

No. 2

6.6KV

No. 3

3.3KV

No. 3

1.0KV

No. 3

380V

No. 3

C:\PASHA\forcabuw

PLOT FILE NAME and TITLES

Pash1001

PASHA 2000 MANUAL FOR CHAPTER 13

PRINTER IS USED AS PLOTTER

CHARACTER DEFAULT SIZE

1

ASK FOR PEN DURING PLOTTING

PLOTTING TYPE, LARGE AS LARGE

RUN

TABLE

PART.

QUIT

COPYRIGHT (C) TOM InC 1988 TIME : 08:33:44 31/08/2001

Figure 20.1

PORT

This is the PORT the plotter is connected to. LPT1, COM1, or COM2 may be selected. If you set this option on CONS what will be gone to the port will be written on available computer console. These are HPGL codes will be generated to the plotter.

BACKGROUND COLOUR

Changes the background color. In Windows platforms this is black or white.

BUSBAR COLOUR SELECTION ACCORDING TO VOLTAGE

Selects the desired pen for each color of the drawing. Whenever you choose a plotting file the colors of the single-line diagram, which in PASHA are according to their busbar nominal voltage, will be filed in the upper window of the boxes available under this topics. The lower part shows the default pen has been selected to draw these colors in plotter. The user may change the pen number by clicking on these boxes.

The box with the **TEXT** name is for the color of the text. If it left on **COLOUR** the text of the drawings will be colored according to what has been come from PASHA. Otherwise a single pen will write the text which is under user control. You may change the pen number by clicking on this box.

PLOT FILE NAME and TITLE

Clicking on the box related to this option will ask the user to select his desired pasha plotting file. It shows a menu as described at the beginning of this section.

PRINTER IS USED AS PLOTTER

Some times you wish to plot a drawing on a printer. Doing this usually provides very good resolution of your graphics. Selecting this option will generate an HPGL file called PASHA.RES. You may then print this file by using any PRINT PLOT software, many of them are available in the market. We suggest PRINT PLOT.

CHARACTER DEFAULT SIZE

PASHA uses four character sizes in its drawings on the screen. These will be generated to the plotter too. However, this option allows you to select the smallest character size of the plotter.

ASK FOR PEN DURING PLOTTING / DO NOT ASK FOR PEN DURING PLOTTING

Old plotters use pen for plotting. You may choose this option to pause program when the pen is going to be changed by plotter. Therefore, you have time to change the pen.

PLOTTING TYPE LARGE AS LAGE / PLOTTING TYPE CIRCULAR

By default the largest size of the plotting area used for plotting. Therefore, the size of the Y axis to X axis will be according to the plotting area. This may cause the circles to be plotted as ellipses. Setting this option on circular automatically adjust the plotting area in such a way that the circle will be appeared as circle.

RUN

Starts plotting according to the options selected.

TABLE

A table will be generated to the map that is plotted. Figure 20.2 shows the default table. The user can set his own project configuration.

PART

This is used for partial plotting. Upon selecting this option computer shows the single-line diagram that is selected for plotting. This is shown in figure 20.3 for the example system. The user may drag a window by mouse around any part of the diagram and select **RETURN**. If the partial option is on, the plotter just plot the selected area.

An example is shown in figure 20.4 which the area selected is nominated with **T**.

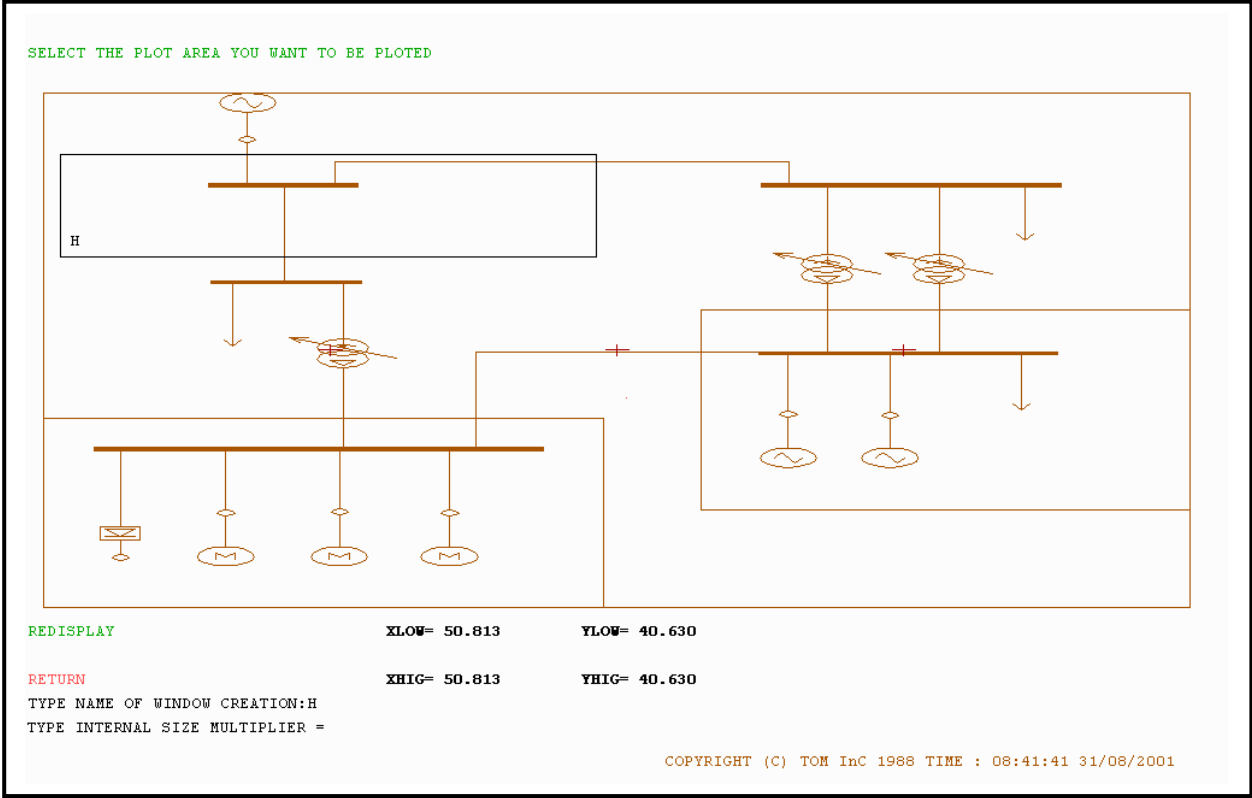


Figure 20.4

20.5 Summary

This chapter described the auxiliary software available for making most of the PASHA result files. Among them PAHA PLOT is a program allows the user to send their plotting of single-line diagram to the plotter.

The user may use many other software available in the market to do printing and plotting of their result files. Please contact with TOM Industrial Consultant.