Xspread

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Xspread is a public domain spreadsheet program on the X window system similar to Lotus 1-2-3. At present Xspread is already useable and has no major defects except for a few bugs/deficiencies. My project as a part of the course work of the Software Engineering course, summer '94 is to make some improvements and enhancements to the existing software.

The following are some of the improvements I made.

- Ran lint on all the c programs to remove unreasonable constructs.
- Ability to change the foreground and the background colors of the spreadsheet window.
- Corrected the errors in plotting graphs when the size of the ranges do not match.
- Added colors to the graphs.
- Improved the efficiency of the matrix functions.
- Sort the table by rows or by columns in increasing or decreasing order and using label or value.
- Search a label or value in the entire table or in a specific range in Row major or Column major order .

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The demonstration includes the following steps.

- START
  - Start the spreadsheet with -fg and -bg options (foreground and background options respectively).
  - Go to main menu.
  - Select file menu and input file 'ex1'.
- COLOR
  - Go to main menu.
  - Select Color.
  - Give the foreground and background colors and press ESC key.
  - Map the window.
- GRAPH
  - Go to main menu.
  - Go to Graph menu and view the Gragh (I already set all the options like setting the ranges etc.. to draw a Stack Bar Graph in the file 'ex1' to save time).
  - Go to Type and change it to Bar graph and view it.
  - Go to Type and change it pie graph and view it.
  - Go to File menu and input file 'ex2' and view the graph. It has options set for a line graph.
  - Go to File menu and input file 'ex3' and view the graph. It has options set for a XY graph.
- SORT
  - Go to main menu.
  - Select the Sort menu.
  - By default the options will be set to increasing order and sort by value.
  - Select the Column/Row option.

- Select the column and input the column number.
- The given table is sorted by that column in increasing order and by value.
- To try for other types, Go to the Sort menu, select decreasing order, sort by label, and by row and input the row number.
- The table is sorted with the given options.

- SEARCH
  - Go to main menu.
  - Select the Search menu.
  - By default the options will be set to Entire table and in Column major order.
  - Enter the value and start the search by selecting Next or Previous.
  - Change the options to Row major and give a specific Range to search for a label and continue the search.