TYPE 573: OUTPUT DEVICE FOR AVERAGE DAY OF EACH MONTH

General Description

This component creates the hourly profile for the average day of each simulated month and for two alternatives (inputs). The profiles are stored in a user defined output file, which is perhaps best viewed as a 2-D Area Chart in TRNSPREAD (the TRNSYS spreadsheet program) or Microsoft Excel.

Detailed Description

Type573 operates using a bin method. The value of its two inputs are placed in hourly bins (24 per day) for each month of the year. The end result is that sum of each input is known separately for each hourly period and for each month. For example, the sum of each input would be known for the time period between 1 and 2 PM for January, February, etc. At the very end of the simulation, the sums are divided by the number of days in their respective months so that an average hourly profile of each input can be generated for each month of the simulation.

To use this component to the fullest extent, first run the simulation. When the simulation is finished, right click on the icon for this component in the assembly panel window of the TRNSYS Simulation Studio and choose the menu option "Open in Spreadsheet". Using the mouse, highlight the spreadsheet cells from A1 to the last row containing data in column D (from A1 to D300 for example). Under the "Chart" menu in the spreadsheet program choose the "Chart Selection" option and a plot of the average day for each of the two alternatives will appear for each month of the simulation. Under the "Chart" menu in the spreadsheet program choose the "Chart Types" option and choose a 2-D Area Plot for the chart. You may now double-click on any of the plot items to change the attributes.

Example

Type573 is used in the following Simulation Studio example:
\trnsys16\TESS Models\Studio Projects\Utility Library\Utility_Misc.tpf