# *Program Overview*

    This program has been described as the "Swiss Army Knife" of CAD Libraries. It is a tool to manage your libraries in a vendor neutral format, to generate the components and their entities in an efficient manner and a way to reformat the libraries to specific CAD / CAE tools as painlessly as possible. In addition the tool is designed to translate in from your existing CAD libraries and perform procedures on the components to verify the data they contain, and that they meet a specific standard.

    In order to accomplish all of these tasks, we have documented several different perspective flows in its usage. Review of these flows will give you a great idea of the capabilities of the tool.

    First we would like to introduce our main screen. From this screen you will manage your libraries, start the process of building your components, symbols and footprints, and clean the libraries you have imported. You will also find yourself exporting the data in your libraries from this screen.
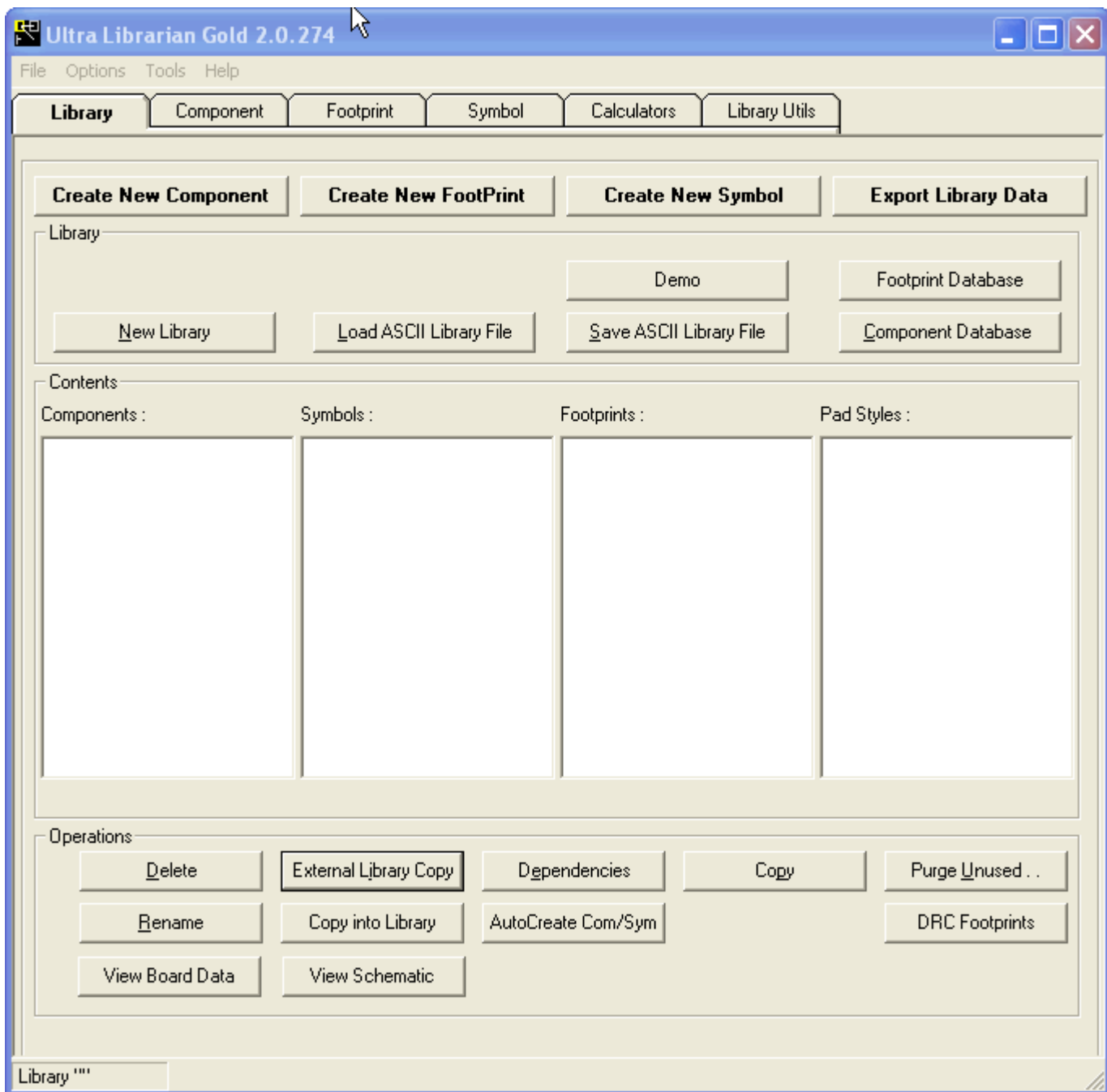
We divide the library information into 4 different types of data. The component information contains pointers to the appropriate footprints and symbols. It also contains gate and pin swap information, component attributes or properties, reference designator prefix information, and various other items. The footprint contains the graphics that will represent the component on the PCB file. This will include specific attributes that are related only to the footprint. The symbol, which will contain the schematic symbol for the component, along with schematic specific attributes or properties. The padstack section will contain a list of padstacks that are required by the component sin the library. These will contain a full description of the pad shapes and sizes for each layer of the component. The padstacks may be used over and over again by more than one part.

We understand that not all CAD/CAE tools are organized this way. However, as we convert each library to the targeted CAD/CAR tool, we will modify the structure to match the native tools structure. This arrangement is strictly for our internal use.