This code sizes CLT Panels, beams, girders, and columns for various bay sizes. There are two bay types that can be considered with in the code. Bay Type 1 is a system where beams span the ‘W’ length to girders which span the ‘L’ length to columns. Bay Type 2 is a system where the girders are dropped and the beams span the ‘W’ length directly to columns. The CLT panels span the ‘L’ length between beams for both bay types.

Steps to utilize code:

1. The user fills out an array of bays to be sized in an excel spreadsheet that is then read by the code. (Figure 2)
2. The user fills out the material properties, loading criteria and deflection limits to be considered. (Figure 3)
3. Run the code to produce a matrix of results parameters for each bay size input by the user. (Figure 4)
4. This matrix can then be utilized to visualize the results of all of bay parameters input by the user. (Figure 5) This is a separate code.

|  |  |
| --- | --- |
| A drawing of a cube  Description automatically generated | A drawing of a cube with lines and text  Description automatically generated |
| Bay Type 1 | Bay Type 2 |

Figure Typical Bay Types

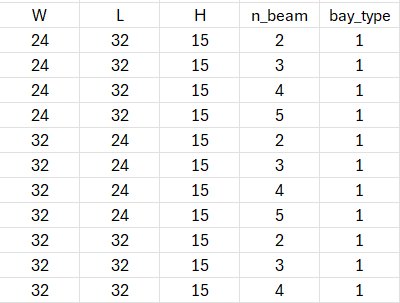


Figure Example Input Matrix

A screenshot of a computer program

Description automatically generated

Figure Design Criteria for Bay Sizing Procedure

A table with numbers and letters

Description automatically generated

Figure Results Table

A graph with dots and numbers

Description automatically generated

Figure Example of Potential Visualizations