

CarAssembly

Summary

This program analyzes assembly structure and writes various reports to the Info window. It shows how SNAP functions can be used to discover the parent-child relationships in an assembly.

For a discussion of assemblies concepts, including the code in this example, please see Chapter 11 of the SNAP Getting Started Guide.

User Interface

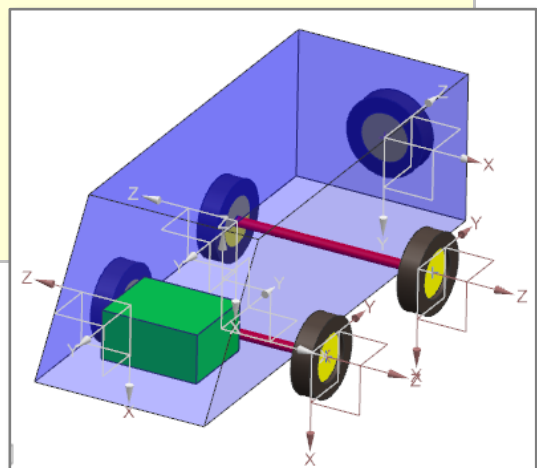
There is no user interface — you simply run the program and it writes out reports to the Info window. In order to get interesting output, you must have an assembly model as your work part when you run the program. A simple assembly called Car_Assembly.prt is provided as a sample.

Sample Output

The output below shows a small subset of the reports that are produced:

```
==== Children of the root node =====
Engine_Part.prt
Wheel_Part.prt
Axle_Assembly.prt
Axle_Assembly.prt
ENGINE ; Engine_Part.prt

==== Indented listing of descendents =====
[ROOT]
  FRONT_AXLE
    FRONT_LEFT_WHEEL
    FRONT_RIGHT_WHEEL
  REAR_AXLE
    REAR_LEFT_WHEEL
    REAR_RIGHT_WHEEL
  SPARE_WHEEL
  ENGINE
```



History

Created by George Allen, January 2013.