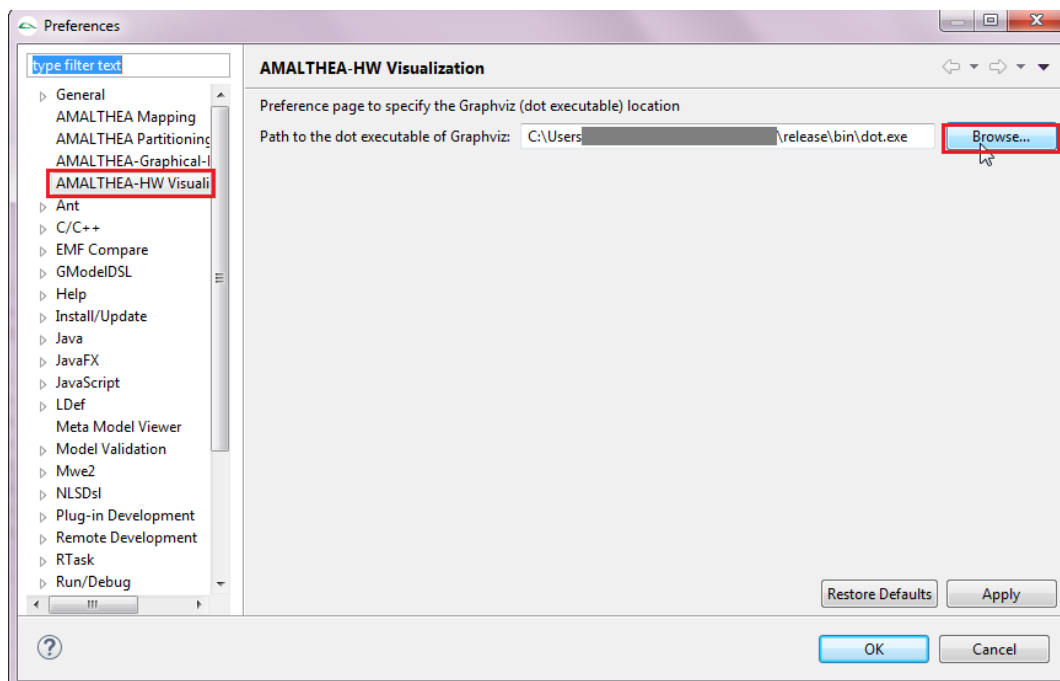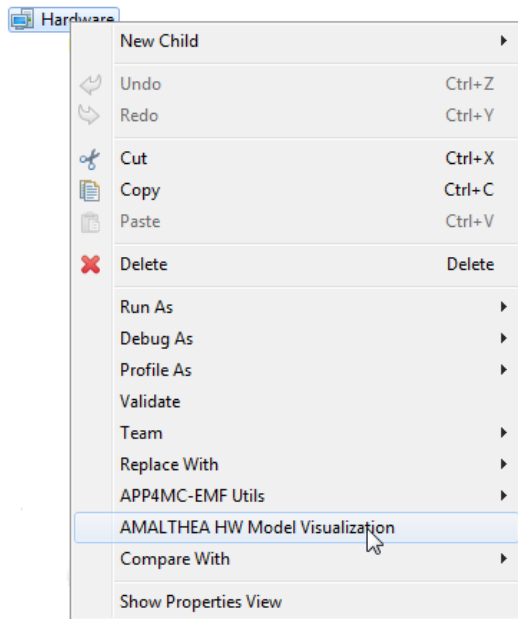# Amalthea Hardware Visualization Plugin

In the beta release is a small visualization plugin for the hardware model is included. The plugin is intended to create small block diagrams out of a specific hardware model.

To use the plugin graphviz is necessary. It's mandatory to set the path to the executable dot.exe in the graphviz *bin* folder. This can be done in Eclipse by navigating to Windows→Preferences afterwards the *AMALTHEA-HW Visualization* should appear on the left side like in the following figure. Set the path to the dot.exe and the visualization ca be used.

To create a svg file a complete Amalthea hardware model is necessary, that means that all names of structures and modules as well as all references have to be set. Afterwards the diagram can be created by simply right click the Amalthea *HWModel* and starting the hardware visualization.

Visualization example:

- Structures are represented as containers which include the different modules
  - ProcessingUnits (blue)
  - ConnectionHandlers (yellow)
  - Caches(light green)
  - Memories(green)
- *AccessElements* are represented as dashed directed lanes.
- *HWConnections* are represented as red lines.
- To increase the clearness *HwPorts*, *HwAccessPaths* and Domains are not displayed