Introduction

Eclox is a simple doxygen front-end plug-in for Eclipse. e² studio is an integrated development environment based on Eclipse, so that e² studio is possible to realize work with external tool using plugin of Eclipse. This document will describe how to install, perform configuration, and operate typical of eclox in e² studio.

Contents

1. Introduction ....................................................................................................................................... 2
2. Install eclox plugin ............................................................................................................................ 3
3. Configuration and usage ................................................................................................................... 4
4. Reference Information .................................................................................................................... 12
1. Introduction

1.1 e² studio with eclox

e² studio is an integrated development environment based on Eclipse, so that e² studio is possible to realize work with external tool using plugin of Eclipse. Eclox is perfect if you need to add complex code documentation to your projects by using the integrated development environment e² studio and the Doxygen multi-language documentation tool.

1.2 Environment

This document is described based on environment as the following:

- e² studio: 2.1.0.xx
- eclox: 0.8.0
- Doxygen: 1.4.7
- Graphviz: 1.0.0.0
- OS: Windows 7
2. **Install eclox plugin**

2.1 **Prerequisites installation**

This section describes how to install the bright eclox plug-in to \( e^2 \) studio. But at first, we need to prepare environments as below:

- \( e^2 \) studio is installed correctly
- Doxygen is installed correctly
- Graphviz is installed correctly

2.2 **Eclox installation instruction**

Eclox can be simply installed from within Eclipse using update manager. All what the user should do is just point update manager to the remote or local update-site. To install eclox:

1. Start \( e^2 \) studio and select menu item 'Help' > ‘Install New Software...’. The ‘Install’ wizard opens.

3. Select the ‘eclox’ item to install.
4. Click the 'Next >' button.
5. Accept terms of license agreement and click the 'Finish' button in order to start the download of selected features.
6. To apply installation changes and restart \( e^2 \) studio, click on the 'Yes' button.
3. Configuration and usage

3.1 Configuration

Once the plugin installed, you must ensure that the default PATH environment variable makes the doxygen binary reachable for the plugin. If not, you can update PATH to include directory containing the Doxygen binary, or you can tell Eclox where that binary is located on your system. To do this, open e2 studio's preference edition dialog window and go into the new ‘Doxygen’ section.
3.2 Usage

3.2.1 Workflow of code documentation process
Eclox is one of e² studio’s plugin. It aims to provide a slim and sleek integration of the code documentation process into e² studio by providing a high-level graphical user interface over doxygen.

![Workflow of code documentation process](image)

**Figure 1** Workflow of code documentation process

3.2.2 Create doxyfile
To create a new doxyfile:
1. Select menu items ‘New’ > ‘File’ > ‘Other…’. The ‘New’ dialog will be shown.
2. On the ‘New’ dialog, select ‘Other’ > ‘Doxyfile’
Integrated Development Environment e2 studioe2 studio with Doxygen and its bridge plug-in eclox

3. Press the ‘Next>’ button. The ‘New Doxygen Configuration’ dialog will be shown.
4. On the ‘New Doxygen Configuration’ dialog, select project and modify Doxyfile name.

![Doxygen Configuration Dialog]

5. Press the ‘Finish’ button. Doxyfile will be created successfully.

![Project Explorer with Sample and Sample.doxyfile]
3.2.3 Configure doxyfile

To configure doxyfile

1. On the ‘Project Explorer’ view, right click on the doxyfile > ‘Open’
2. Configure doxyfile and save file:
   - On the ‘Basic’ tab:
     To build code documentation we need to make some configurations as below:

   ![Image of doxyfile configuration]

1. [1]: Input project name. This is name of doxygen project that will be generated.
2. [2]: On the ‘Input directories’ field, select the ‘Add’ button to direct to folders or files which users want to generate code documentation.
3. [3]: On the ‘Output directory’ field, input path of output folder or select ‘Browse’ button to direct output folder.
4. [4]: Select programing language to optimize results.
5. [5]: Select output formats.
6. [6]: Doxygen can use the ‘dot’ tool from Graphviz to generate more advanced diagrams and graphs. Graphviz is an open source, cross-platform graph drawing toolkit and can be found at: www.graphviz.org/. If you want to generate diagram, select ‘Use dot tool from the GraphViz package to generate:’ (go to advance tab to configure dot tool path)
• On the ‘Advanced’ tab
  1. To generate diagram by dot tool from GraphViz, go to advance tab as below:
     • Select ‘Have DOT’ is ‘Yes’
     • Select ‘Dot path’ item, then specify the directory containing the GraphViz binary’.

• Select ‘Dot file directories’ item, then specify the directory containing the GraphViz’
2. Select ‘Extract All’ is ‘Yes’

3. Select ‘Generate Tree View’ is ‘Yes’
3.2.4 Generate code documentation

To generate code documentation:

1. On the ‘Project Explorer’ view, right click the doxyfile which you want to generate code documentation.

2. Select ‘Build Documentation’, and then wait for building successfully.

3. Output file will be generated.
4. Reference Information

4.1 Web Site

Eclox home page URL:
http://gna.org/eclox/

Doxygen home page URL:
http://www.doxygen.org/

Graphviz home page URL:
www.graphviz.org/
Website and Support <website and support,ws>

Renesas Electronics Website
http://www.renesas.com/

Inquiries
http://www.renesas.com/contact/

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   The state of the product is undefined at the moment when power is supplied.
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