Subject: Some macro enhancements for TheIde
Posted by Zardos on Fri, 06 Jul 2007 14:03:01 GMT
View Forum Message <> Reply to Message

Hello,

I needed some enhancements for Macros in TheIde, so I made some small changes in the upp source. May be you can consider introducing them into the repository, again...

1.) I wanted to run some external programs on a source file. For example a source beautifier like AStyle. This kind of macro should be always available and independent of the selected package. To accomplis this I changed:

In Ide.cpp the function void Ide::SyncUsc() to this code:

```
void Ide::SyncUsc()
{
 CleanUsc();
 ::Workspace wspc;
 static String scan[] = { main, ConfigFile("ide.aux") };
 for(int t = 0; t < (sizeof scan / sizeof scan[0]); t++) {
  wspc.Scan(scan[t]);
  int i;
  for(i = 0; i < wspc.GetCount(); i++) {
   const Package& p = wspc.GetPackage(i);
   for(int j = 0; j < p.file.GetCount(); j++) {
    String file = SourcePath(wspc[i], p.file[j]);
    if(ToLower(GetFileExt(file)) == ".usc")
     UscFile(file);
   }
  }
 }
 UscProcessDir(GetCommonDir());
 UscProcessDir(GetLocalDir());
 UscProcessDir(GetFileFolder(ConfigFile("x")));

}
```

Now, not only the current package is searched for macros - in addition the files in <ide-aux> are searched for macros, too.

The next step was to add 3 functions to "Ide::MacroEditor()":

SaveCurrentFile() : Save the current source file
ProjectDir() : Get the package directory. I need this for some other stufff... OOps PackageDir or PackagePath would be better I gues
FileName() : Get the current Name of the current file.

I changed Ide.h and added the following lines to:
struct Ide : public TopWindow, public WorkspaceWork, public IdeContext {

```
  void  MacroSaveCurrentFile(EscEscape& e);
  void  MacroProjectDir(EscEscape& e);
  void  MacroFileName(EscEscape& e);
```

and in Macro.cpp I added the following lines to:
EscValue Ide::MacroEditor()

```
 out.Escape("SaveCurrentFile()", THISBACK(MacroSaveCurrentFile));
 out.Escape("ProjectDir()", THISBACK(MacroProjectDir));
 out.Escape("FileName()", THISBACK(MacroFileName));
```

and these functions to Macro.cpp:

```
void Ide::MacroSaveCurrentFile(EscEscape& e)
{
 SaveFile();
}

void Ide::MacroProjectDir(EscEscape& e)
{
 e = GetFileFolder(PackagePathA(GetActivePackage()));
}

void Ide::MacroFileName(EscEscape& e)
{
 e = editfile;
}
```

As an example you can now add a macro file to <ide-aux> and call a beautifier like this from the macro menu:

```
macro "Beautify" Ctrl+Shift+B {
 ClearConsole();
 cout("Beautifying...");
 SaveCurrentFile();
 Execute("astyle.exe --style=java --indent=tab=4 --indent-cases --one-line=keep-blocks
--unpad=paren --pad=oper --break-blocks " + FileName());
}
```

- Ralf