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Subject: Some macro enhancements for TheIde  
Posted by [Zardos](#) on Fri, 06 Jul 2007 14:03:01 GMT  
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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 accomplish 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 stuff... 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

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