Dave's Development Blog
Software Development using Borland / Codegear / Embarcadero RAD Studio

Conditional Compilation of Open Tools API experts

By David | July 21, 2011   0 Comment

Ordinarily in conditional formatting you would write something like…

```
Procedure MyProc;

Begin
  DoSomething;
  {$IFDEF VER120}
  DonsomethingElse;
  {$ENDIF}
  DoSomethingAgain;
End;
```

However, if you want this piece of code to work with a particular version of Delphi and later version of Delphi then this will not work as these types of definitions are specific to a version of Delphi. You could use the conditional **IF** statement, but this is not supported by earlier version of Delphi.

My solution to this was the below include file.

```
(**

  An include unit to define compiler definitions for version of delphi. If the
  definition exists it means that that version of the compiler or high is
  available.

  @Version 1.0
  @Date    26 May 2010
  @Author  David Hoyle

**)
{$IFDEF VER90}
  {$DEFINE D0002}
{$ENDIF}
```

```
{$IFDEF VER93}
  {$DEFINE D0002}
{$ENDIF}

{$IFDEF VER100}
  {$DEFINE D0002}
  {$DEFINE D0003}
{$ENDIF}

{$IFDEF VER110}
  {$DEFINE D0002}
  {$DEFINE D0003}
{$ENDIF}

{$IFDEF VER120}
  {$DEFINE D0002}
  {$DEFINE D0003}
  {$DEFINE D0004}
{$ENDIF}

{$IFDEF VER125}
  {$DEFINE D0002}
  {$DEFINE D0003}
  {$DEFINE D0004}
{$ENDIF}

{$IFDEF VER130}
  {$DEFINE D0002}
  {$DEFINE D0003}
  {$DEFINE D0004}
  {$DEFINE D0005}
{$ENDIF}

{$IFDEF VER140}
  {$DEFINE D0002}
  {$DEFINE D0003}
  {$DEFINE D0004}
  {$DEFINE D0005}
  {$DEFINE D0006}
{$ENDIF}

{$IFDEF VER150}
  {$DEFINE D0002}
  {$DEFINE D0003}
  {$DEFINE D0004}
  {$DEFINE D0005}
  {$DEFINE D0006}
  {$DEFINE D0007}
{$ENDIF}

{$IFDEF VER160}
  {$DEFINE D0002}
  {$DEFINE D0003}
  {$DEFINE D0004}
```

```
    {$DEFINE D0005}
    {$DEFINE D0006}
    {$DEFINE D0007}
    {$DEFINE D0008}
  {$ENDIF}

  {$IFDEF VER170}
    {$DEFINE D0002}
    {$DEFINE D0003}
    {$DEFINE D0004}
    {$DEFINE D0005}
    {$DEFINE D0006}
    {$DEFINE D0007}
    {$DEFINE D0008}
    {$DEFINE D2005}
  {$ENDIF}

  {$IFDEF VER180}
    {$DEFINE D0002}
    {$DEFINE D0003}
    {$DEFINE D0004}
    {$DEFINE D0005}
    {$DEFINE D0006}
    {$DEFINE D0007}
    {$DEFINE D0008}
    {$DEFINE D2005}
    {$DEFINE D2006}
  {$ENDIF}

  {$IFDEF VER190}
    {$DEFINE D0002}
    {$DEFINE D0003}
    {$DEFINE D0004}
    {$DEFINE D0005}
    {$DEFINE D0006}
    {$DEFINE D0007}
    {$DEFINE D0008}
    {$DEFINE D2005}
    {$DEFINE D2006}
    {$DEFINE D2007}
  {$ENDIF}

  {$IFDEF VER200}
    {$DEFINE D0002}
    {$DEFINE D0003}
    {$DEFINE D0004}
    {$DEFINE D0005}
    {$DEFINE D0006}
    {$DEFINE D0007}
    {$DEFINE D0008}
    {$DEFINE D2005}
    {$DEFINE D2006}
    {$DEFINE D2007}
    {$DEFINE D2009}
  {$ENDIF}
```

```
{$IFDEF VER210}
  {$DEFINE D0002}
  {$DEFINE D0003}
  {$DEFINE D0004}
  {$DEFINE D0005}
  {$DEFINE D0006}
  {$DEFINE D0007}
  {$DEFINE D0008}
  {$DEFINE D2005}
  {$DEFINE D2006}
  {$DEFINE D2007}
  {$DEFINE D2009}
  {$DEFINE D2010}
{$ENDIF}
```

What this allows you to do is use conditional compilation against a Delphi version number and it also means that that piece of code will work with that version and all higher versions. For the above snipet of code would change to...

```
Procedure MyProc;

Begin
  DoSomething;
  {$IFDEF D0004}
  DonsomethingElse;
  {$ENDIF}
  DoSomethingAgain;
End;
```

... signifying that this will work in Delphi 4 and above.

To include this file (towards the top of your code) use the **{INC CompilerDefintions.inc}** statement.

For examples of how this can be used in the OTA have a look at the Integrated Testing Helper Wizard code.

regards
Dave.

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OTA , RAD Studio

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