

DTREG

Predictive Modeling Software

www.dtreg.com



Translating a Model to C Source Code

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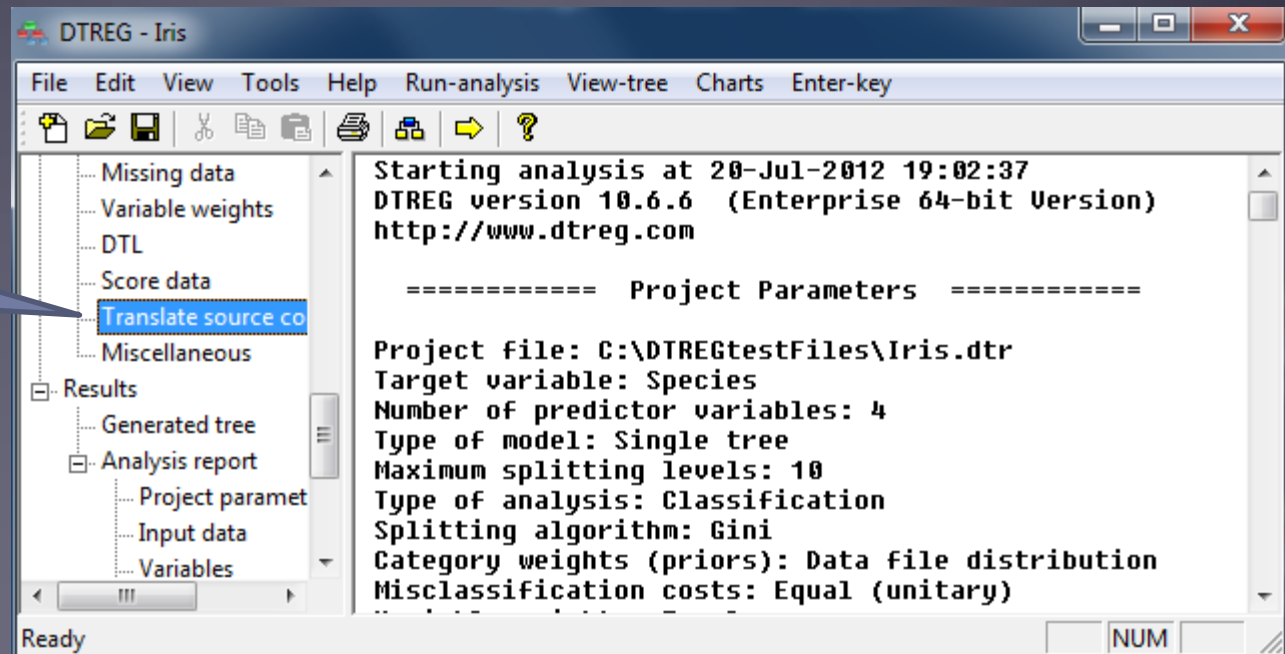
Introduction to Translating to C Code

- Once a model has been created, it can be converted to C source code that can be compiled and linked with applications.
- This process is known as “translating” the model.
- Standard C code is generated making it possible to compile the code with applications running on embedded microprocessors.
- All of the types of models that DTREG can generate can be translated to C code.

Starting the Translation Process

- First, train the model, then click “Translate source code” in the left panel.
- You also can open a previously-trained model.

Click “Translate source code”



Specifying Translation Parameters

Select type of code to generate

Optional prefix for global names

Extra line to insert at top of code

Name of source file to create

Options to control code generation

Click to begin translating

The Translate function generates source code that you can compile and include in an application program to score data records.

Type of code to generate

C C++ SAS

Prefix for global function and variable names in generated code

Extra line to insert at top of module (can be used for #include)

Output file where source code is to be written

C:\Test\Iris.c

Split large files into multiple files

Generate multiple source files

Maximum allowable file size (kb):

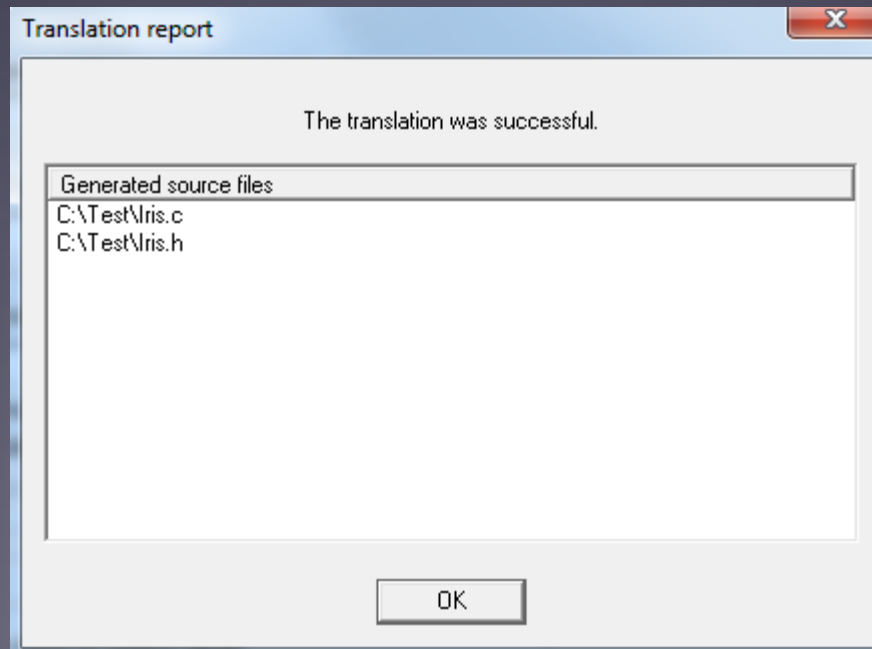
Options

Generate code to check for missing values

Add #include "stdafx.h" header line

Generate placeholder definitions for unused variables

Report Generated by Translate



Output File Generated by Translate

```
/*-----  
 * Call this routine to compute the predicted value.  
 */  
void ScoreRecord(void)  
{  
    /*  
     * Evaluate the tree.  
     */  
    if (Petal_length != Missing_Continuous) {  
        if (Petal_length < 2.45) {  
            strcpy(PredictedValue, "Setosa");  
            Prob_Setosa = 1.;  
            Prob_Versicolor = 0.;  
            Prob_Virginica = 0.;  
            return;  
        }  
        goto Node_3;  
    } else {  
        goto Node_3;  
    }  
  
Node_3:  
    if (Petal_width != Missing_Continuous) {  
        if (Petal_width < 1.75) goto Node_4;  
        strcpy(PredictedValue, "Virginica");  
    }  
}
```

End of Tutorial

- This completes the translate DTREG training tutorial