I'm slowly making progress on a project I started recently (link), but I am having some doubts about how I should integrate some MATLAB code into VB.

The idea is this: I need to do partial differentiation to get some numbers, and here is the code:

Code:

Private Sub Button1\_Click()

Dim MatLab as Object

Dim Result as String

Dim var as String

Dim varVal as String

Dim Result as Integer

Set var = var1.Text + "," + var2.Text + "," + var3.Text + "," + var4.Text + "," + var5.Text + "," var6.Text

Set Val = Val1.Text + "," + Val2.Text + "," + Val3.Text + "," + Val4.Text + "," + Val5.Text + "," Val6.Text

Set MatLab = CreateObject("MatLab.Application")

MatLab.Execute ("syms " + var1.Text + " " + var2.Text + " " + var3.Text + " " + var4.Text + " " + var5.Text + " " + var6.Text)

MatLab.Execute ("f = " + equation.Text)

Result = MatLab.Execute ("subs(diff(f," + var1.Text + ")," + "[" + var + "],[" + Val + "])"

Res1.Text = Result

Result = MatLab.Execute ("subs(diff(f," + var2.Text + ")," + "[" + var + "],[" + Val + "])"

Res2.Text = Result

Result = MatLab.Execute ("subs(diff(f," + var3.Text + ")," + "[" + var + "],[" + Val + "])"

Res3.Text = Result

Result = MatLab.Execute ("subs(diff(f," + var4.Text + ")," + "[" + var + "],[" + Val + "])"

Res4.Text = Result

Result = MatLab.Execute ("subs(diff(f," + var5.Text + ")," + "[" + var + "],[" + Val + "])"

Res5.Text = Result

Result = MatLab.Execute ("subs(diff(f," + var6.Text + ")," + "[" + var + "],[" + Val + "])"

Res6.Text = Result

<http://archives.math.utk.edu/ICTCM/i/17/C024.html>

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Most of this code has been constructed/reverse engineered from other examples on the internet, and I believe it should work (I already have knowledge on how to use MATLAB, so I know that the MATLAB formulas would work).

However, my problem is I don't have MATLAB installed on my computer to access the Automation Server, which basically permits Visual Basic to access the MATLAB library to permit the code to work. And seeing how expensive the software is, I don't have the ease of just buying the software to check it.

But I was wondering about how to go about this; I am not so certain about how Visual Basic works when it references libraries from other programs. If I were to distribute the program from VB without having the MATLAB library, will the distributed application work if I were to provide the MATLAB Compiler Runtime (MCR) {acquired from an office colleague's copy of MATLAB}? Or do I need MATLAB installed on my computer to make the VB program work?

Thank you for your help!