How do I list all the capacitors?

From OpenDSSWiki

Question

How do I get a list of all the capacitors in my circuit and the buses they are connected to?

Answer

There are many ways to do this. Here is some VBA code that I used in Excel to put the requested values in a spreadsheet. This uses one of the EPRI Test Circuits (http://electricdss.svn.sourceforge.net/viewvc/electricdss/EPRITestCircuits/).

```
Option Explicit

Public DSSObj As OpenDSSengine.DSS
Public DSSText As OpenDSSengine.Text

Public Sub LoadInCapLocations()

    Set DSSObj = New OpenDSSengine.DSS
    Set DSSText = DSSObj.Text

    If DSSObj.Start(0) Then

        DSSText.Command = "Compile [C:\Users\prdu001\OpenDSS\EPRITestCircuits\ckt24\master_ckt24.ds
        DSSObj.ActiveCircuit.Solution.Solve

        DSSObj.ActiveCircuit.SetActiveClass "Capacitor"

        Dim MyCap As Integer, iRow APs Integer
        Dim BusNameArray As Variant

        ActiveSheet.Cells(1, 1).Value = DSSObj.ActiveClass.ActiveClassName
        ActiveSheet.Cells(1, 2).Value = "Bus1"
        ActiveSheet.Cells(1, 3).Value = "Bus2"

        iRow = 2

        MyCap = DSSObj.ActiveClass.First
        Do While MyCap > 0
            ActiveSheet.Cells(iRow, 1).Value = DSSObj.ActiveClass.Name
            BusNameArray = DSSObj.ActiveCircuit.ActiveCktElement.BusNames  ' gets all bus names for
            ActiveSheet.Cells(iRow, 2).Value = BusNameArray(0)    ' Bus1
            ActiveSheet.Cells(iRow, 3).Value = BusNameArray(1)    ' Bus2
            iRow = iRow + 1
            MyCap = DSSObj.ActiveClass.Next
        Loop

    End If
```

```
    Set DSSObj = Nothing      ' Be a good citizen

End Sub
```

This produces the following result in the spreadsheet:

```
Capacitor        Bus1    Bus2
cap_g2100pl6500 n300521 n300521.0.0.0
cap_g2100fk7800 n292388 n292388.0.0.0
cap_g2101ae7400 n284062 n284062.0.0.0
```

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