

Appendix D

Throughput Calculator Code

```
Private Sub Command1_Click()  
' Unload the form and quit  
Unload Me  
End Sub  
  
Private Sub Process_Click()  
Dim sum(50) As Long  
Dim res1 As Long  
' Read the requested folder (Default, Mod1, Mod2)  
upperfolder = fldr.Text  
' Clear and prepare the flex control  
flx.Clear  
With flx  
    .Cols = 2  
    .TextMatrix(0, 0) = "# of Nodes"  
    .TextMatrix(0, 1) = "Throughput Kbps"  
    .ColWidth(0) = 1200  
    .ColWidth(1) = 1700  
End With  
' Start sub folders scanning 5 - 12  
For x = 5 To 12  
    i = 0  
    result = 0  
' Open the stat file for reading  
Open App.Path & "\" & upperfolder & "\" & x & "\glomo.stat" For Input As #1  
' Read line by line
```

```

Do Until EOF(1)
Line Input #1, strBuff
' Filter the start time and end time values
nasir = Mid(strBuff, InStr(strBuff, "start =") + 7, 300)
cl1 = Left(nasir, InStr(nasir, "ns, end =") + 40)
cl = Left(cl1, InStr(cl1, "ns") - 1)
cfl = Mid(nasir, InStr(nasir, "ns, end =") + 9, 50)
cf = Left(cfl, InStr(cfl, "ns (clos") - 1)
' subtract the two time values
res1 = cf - cl
' Save the result in array
sum(i) = res1
res1 = 0
i = i + 1
Loop
' Close the stat file
Close #1
' Sum the subtract values
For j = 0 To i
result = result + sum(j)
Next j
' Load flex with the number of nodes and throughput
With flx
.AddItem ""
' Number of nodes
.TextMatrix(x - 4, 0) = x
' Throughput
.TextMatrix(x - 4, 1) = (81920 / (10 ^ -9 * result)) * 0.000976562
' Refresh the flex with the new row added
.Refresh
End With

```

Next x
End Sub