

```
Dim N_TP As Integer: Dim N_Tn As Integer
Dim N_FP As Integer: Dim N_FN As Integer
```

```
For ii = 1 To N
  If known_y(ii) = 1 And (y_hats(ii) - Cutoff) > 0 Then
    N_TP = N_TP + 1
  ElseIf known_y(ii) = 0 And (y_hats(ii) - Cutoff) <= 0 Then
    N_Tn = N_Tn + 1
  ElseIf known_y(ii) = 0 And (y_hats(ii) - Cutoff) > 0 Then
    N_FP = N_FP + 1
  ElseIf known_y(ii) = 1 And (y_hats(ii) - Cutoff) <= 0 Then
    N_FN = N_FN + 1
  End If
Next ii
```

```
Output(12, 1) = "": Output(12, 1) = "ActualResponse": Output(13, 1) = "Prediction"
Output(13, 2) = "Positive": Output(13, 3) = "Negative"
Output(14, 1) = "Positive": Output(15, 1) = "Negative"
Output(14, 2) = N_TP: Output(14, 3) = N_FP
Output(15, 2) = N_FN: Output(15, 3) = N_Tn
```

```
Output(17, 1) = "Accuracy": Output(17, 2) = (N_TP + N_Tn) / (N_TP + N_Tn + N_FP + N_FN)
Output(18, 1) = "ErrorRate": Output(18, 2) = 1 - Output(17, 2)
Output(19, 1) = "HitRate": Output(19, 2) = N_TP / (N_TP + N_FN)
Output(20, 1) = "TrueNegRate": Output(20, 2) = N_Tn / (N_Tn + N_FP)
Output(21, 1) = "FalsePos": Output(21, 2) = 1 - Output(20, 2)
```

```
Output(22, 1) = "Precision": If N_TP + N_FP = 0 Then Output(22, 2) = "Error" Else Output(22, 2)
= N_TP / (N_TP + N_FP)
Output(23, 1) = "NegPredVal": If N_Tn + N_FP = 0 Then Output(23, 2) = "Error" Else Output(23,
2) = N_Tn / (N_Tn + N_FN)
Output(24, 1) = "FalseDiscover": If N_FP + N_TP = 0 Then Output(24, 2) = "Error" Else Output(24,
2) = N_FP / (N_FP + N_TP)
```

```
For ii = 1 To M + 1
  Output(11, ii) = "xxxxx": Output(16, ii) = "xxxxx": Output(25, ii) = "xxxxx"
Next ii
```

```
For ii = 3 To M + 1
  Output(6, ii) = "": Output(7, ii) = "": Output(8, ii) = ""
  Output(9, ii) = "": Output(10, ii) = "": Output(12, ii) = ""
  Output(17, ii) = "": Output(18, ii) = "": Output(19, ii) = ""
  Output(20, ii) = "": Output(21, ii) = "": Output(22, ii) = ""
  Output(23, ii) = "": Output(24, ii) = ""
Next ii
```

```
For ii = 4 To M + 1
  Output(13, ii) = "": Output(14, ii) = "": Output(15, ii) = ""
Next ii
Logit = Output
```

```
End Function
```