

SIMCAT v4.2
(CODI FONT)

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SIMCAT v4.2: SIMULADOR DE REFORMES IMPOSITIVES

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Attribute VB_Name = "ThisWorkbook"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PredeclaredId = True
Attribute VB_Exposed = True
Private Sub Workbook_Open()

Dim i1 As Integer, j1 As Integer, pantalla As Integer

Call COMUNS_0PANTALLA(1)

AVISSORTIR = False

If ALT_PANTALLA = 800 And AMP_PANTALLA = 600 Or ALT_PANTALLA = 960 And AMP_PANTALLA = 600 Or _
ALT_PANTALLA = 1024 And AMP_PANTALLA = 768 Or ALT_PANTALLA = 1152 And AMP_PANTALLA = 864 Or _
ALT_PANTALLA = 1280 And AMP_PANTALLA = 720 Or ALT_PANTALLA = 1280 And AMP_PANTALLA = 768 Or _
ALT_PANTALLA = 1280 And AMP_PANTALLA = 800 Or ALT_PANTALLA = 1360 And AMP_PANTALLA = 768 Then pantalla = 1

If ALT_PANTALLA = 1280 And AMP_PANTALLA = 960 Or ALT_PANTALLA = 1280 And AMP_PANTALLA = 1024 Or _
ALT_PANTALLA = 1440 And AMP_PANTALLA = 900 Or ALT_PANTALLA = 1600 And AMP_PANTALLA = 1200 Or _
ALT_PANTALLA = 1680 And AMP_PANTALLA = 1050 Or ALT_PANTALLA = 1920 And AMP_PANTALLA = 1080 Then pantalla = 2

If pantalla = 1 And XTEXT Then
MsgBox "La resoluci3 actual 3s " & ALT_PANTALLA & "x" & AMP_PANTALLA & " p3xels," & Chr(10) & _
"incompatible amb una configuraci3 PPP superior al 100%." & Chr(10) & _
"L'aplicaci3 es tancar3.", vbCritical, "SIMCAT v4.2"
AVISSORTIR = True
ThisWorkbook.Close
Exit Sub
End If

i1 = ThisWorkbook.Worksheets.Count
For j1 = 1 To i1
ThisWorkbook.Sheets(j1).Activate
ThisWorkbook.Windows.Application.ActiveWindow.Zoom = Int(XZOOM * IIf(XTEXT, 0.646, 1))

Next j1

OBRIR = 1
NOM_IRPF_DADES = ThisWorkbook.Path & "\DADES\IRPF"
NOM_IRPF_SIMUL = ThisWorkbook.Path & "\SIMUL\IRPF\"
NOM_IS_DADES = ThisWorkbook.Path & "\DADES\IS"
NOM_IS_SIMUL = ThisWorkbook.Path & "\SIMUL\IS\"
NOM_ID_DADES = ThisWorkbook.Path & "\DADES\ISD"
NOM_ID_SIMUL = ThisWorkbook.Path & "\SIMUL\ISD\"
NOM_IT_DADES = ThisWorkbook.Path & "\DADES\IT"
NOM_IT_SIMUL = ThisWorkbook.Path & "\SIMUL\ITPOAJDOS\"
NOM_IPPF_DADES = ThisWorkbook.Path & "\DADES\IPPF"
NOM_IPPF_SIMUL = ThisWorkbook.Path & "\SIMUL\IPPF\"
Call COMUNS_0CREAR(1)

End Sub

Private Sub Workbook_BeforeClose(Cancel As Boolean)

If Not AVISSORTIR Then Call COMUNS_0ESBORRAR(1)
Application.Quit

End Sub
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Attribute VB_Name = "Inicial"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PredeclaredId = True
Attribute VB_Exposed = False

Option Explicit
Dim height1 As Integer, left1 As Integer, top1 As Integer, width1 As Integer
Private Sub Aceptar_Click()

Dim i As Integer, i1 As Integer, i2 As Integer, i3 As Integer, i4 As Integer, i5 As Integer, _
    j1 As Integer, k1 As Integer, avis As Boolean, nom1 As String, nom2 As String, _
    resposta As VbMsgBoxResult

If (Comparacio1 Or Comparacio2 Or Comparacio3 Or Comparacio4 Or Comparacio5) Then

    i1 = 0
    k1 = 0
    ERR_LEC = False
    If Comparacio1 Then i = 1
    If Comparacio2 Then i = 2
    If Comparacio3 Then i = 3
    If Comparacio4 Then i = 4
    If Comparacio5 Then i = 5
    For j1 = ISIMULS(i) To 1 Step -1
        If ListBox61.Selected(j1 - 1) Then
            If i = 1 Then i1 = CIRPF(ISIMULS(i) - (j1 - 1))
            If i = 2 Then i1 = CIS(ISIMULS(i) - (j1 - 1))
            If i = 3 Then i1 = CID(ISIMULS(i) - (j1 - 1))
            If i = 4 Then i1 = CIT(ISIMULS(i) - (j1 - 1))
            If i = 5 Then i1 = CIPPF(ISIMULS(i) - (j1 - 1))
            k1 = k1 + 1
        End If
    Next j1
    If k1 = 0 Then
        COMPARA = 0
        ERR_LEC = True
        Me.Hide
        MsgBox "Ha de seleccionar una simulació de la 1a. llista.", vbCritical, _
            IIf(i = 1, TITOL_IRPF, IIf(i = 2, TITOL_IS, IIf(i = 3, TITOL_ID, IIf(i = 4, TITOL_IT,
TITOL_IPPF))))
        Exit Sub
    End If
    If k1 > 1 Then
        COMPARA = 0
        ERR_LEC = True
        Me.Hide
        MsgBox "Només pot seleccionar una simulació de la 1a. llista.", vbCritical, _
            IIf(i = 1, TITOL_IRPF, IIf(i = 2, TITOL_IS, IIf(i = 3, TITOL_ID, IIf(i = 4, TITOL_IT,
TITOL_IPPF))))
        For j1 = 1 To ISIMULS(i)
            ListBox61.Selected(j1 - 1) = False
            ListBox62.Selected(j1 - 1) = False
        Next j1
        Exit Sub
    End If

    i2 = 0
    k1 = 0
    For j1 = ISIMULS(i) To 1 Step -1
        If ListBox62.Selected(j1 - 1) Then
            If i = 1 Then i2 = CIRPF(ISIMULS(i) - (j1 - 1))
            If i = 2 Then i2 = CIS(ISIMULS(i) - (j1 - 1))
            If i = 3 Then i2 = CID(ISIMULS(i) - (j1 - 1))
            If i = 4 Then i2 = CIT(ISIMULS(i) - (j1 - 1))
            If i = 5 Then i2 = CIPPF(ISIMULS(i) - (j1 - 1))
            k1 = k1 + 1
        End If
    Next j1
    If k1 = 0 Then
        COMPARA = 0
        ERR_LEC = True
        Me.Hide
        MsgBox "Ha de seleccionar una simulació de la 2a. llista.", vbCritical, _
            IIf(i = 1, TITOL_IRPF, IIf(i = 2, TITOL_IS, IIf(i = 3, TITOL_ID, IIf(i = 4, TITOL_IT,
TITOL_IPPF))))
        Exit Sub
    End If
    If k1 > 1 Then
        COMPARA = 0
        ERR_LEC = True
        Me.Hide
        MsgBox "Només pot seleccionar una simulació de la 2a. llista.", vbCritical, _

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        IIf(i = 1, TITOL_IRPF, IIf(i = 2, TITOL_IS, IIf(i = 3, TITOL_ID, IIf(i = 4, TITOL_IT,
TITOL_IPPF))))
    For j1 = 1 To ISIMULS(i)
        ListBox61.Selected(j1 - 1) = False
        ListBox62.Selected(j1 - 1) = False
    Next j1
    Exit Sub
End If

If i1 = i2 Then
    COMPARA = 0
    ERR_LEC = True
    Me.Hide
    MsgBox "Ha de seleccionar una simulació de cada llista, però diferent.", vbCritical, _
        IIf(i = 1, TITOL_IRPF, IIf(i = 2, TITOL_IS, IIf(i = 3, TITOL_ID, IIf(i = 4, TITOL_IT,
TITOL_IPPF))))
    For j1 = 1 To ISIMULS(i)
        ListBox61.Selected(j1 - 1) = False
        ListBox62.Selected(j1 - 1) = False
    Next j1
    Exit Sub
End If

COMP(1) = i1
COMP(2) = i2
For j1 = 1 To ISIMULS(i)
    ListBox61.Selected(j1 - 1) = False
    ListBox62.Selected(j1 - 1) = False
Next j1
If i = 1 Then Comparacio1.Value = False
If i = 2 Then Comparacio2.Value = False
If i = 3 Then Comparacio3.Value = False
If i = 4 Then Comparacio4.Value = False
If i = 5 Then Comparacio5.Value = False
COMPARA = i
Unload Me

End If

If Consulta1 Or Consulta2 Or Consulta3 Or Consulta4 Or Consulta5 Then

    i1 = 0
    i2 = 0
    i3 = 0
    i4 = 0
    i5 = 0
    avis = False
    ERR_LEC = False
    If Consulta1 Then i = 1
    If Consulta2 Then i = 2
    If Consulta3 Then i = 3
    If Consulta4 Then i = 4
    If Consulta5 Then i = 5

    For j1 = ISIMULS(i) To 1 Step -1
        If ListBox71.Selected(j1 - 1) Then
            If i = 1 Then i1 = CIRPF(ISIMULS(i) - (j1 - 1))
            If i = 2 Then i1 = CIS(ISIMULS(i) - (j1 - 1))
            If i = 3 Then i1 = CID(ISIMULS(i) - (j1 - 1))
            If i = 4 Then i1 = CIT(ISIMULS(i) - (j1 - 1))
            If i = 5 Then i1 = CIPPF(ISIMULS(i) - (j1 - 1))
        End If
    Next j1
    If ISIMULS(i) > 1 Then
        For j1 = ISIMULS(i) To 1 Step -1
            If ListBox72.Selected(j1 - 1) Then
                If i = 1 Then i2 = CIRPF(ISIMULS(i) - (j1 - 1))
                If i = 2 Then i2 = CIS(ISIMULS(i) - (j1 - 1))
                If i = 3 Then i2 = CID(ISIMULS(i) - (j1 - 1))
                If i = 4 Then i2 = CIT(ISIMULS(i) - (j1 - 1))
                If i = 5 Then i2 = CIPPF(ISIMULS(i) - (j1 - 1))
            End If
        Next j1
    End If
    If ISIMULS(i) > 2 Then
        For j1 = ISIMULS(i) To 1 Step -1
            If ListBox73.Selected(j1 - 1) Then
                If i = 1 Then i3 = CIRPF(ISIMULS(i) - (j1 - 1))
                If i = 2 Then i3 = CIS(ISIMULS(i) - (j1 - 1))
                If i = 3 Then i3 = CID(ISIMULS(i) - (j1 - 1))
                If i = 4 Then i3 = CIT(ISIMULS(i) - (j1 - 1))
                If i = 5 Then i3 = CIPPF(ISIMULS(i) - (j1 - 1))
            End If
        Next j1
    End If

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        Exit For
    End If
Next j1
If ISIMULS(i) > 3 Then
    For j1 = ISIMULS(i) To 1 Step -1
        If ListBox74.Selected(j1 - 1) Then
            If i = 1 Then i4 = CIRPF(ISIMULS(i) - (j1 - 1))
            If i = 2 Then i4 = CIS(ISIMULS(i) - (j1 - 1))
            If i = 3 Then i4 = CID(ISIMULS(i) - (j1 - 1))
            If i = 4 Then i4 = CIT(ISIMULS(i) - (j1 - 1))
            If i = 5 Then i4 = CIPPF(ISIMULS(i) - (j1 - 1))
        End If
    Next j1
    For j1 = ISIMULS(i) To 1 Step -1
        If ListBox75.Selected(j1 - 1) Then
            If i = 1 Then i5 = CIRPF(ISIMULS(i) - (j1 - 1))
            If i = 2 Then i5 = CIS(ISIMULS(i) - (j1 - 1))
            If i = 3 Then i5 = CID(ISIMULS(i) - (j1 - 1))
            If i = 4 Then i5 = CIT(ISIMULS(i) - (j1 - 1))
            If i = 5 Then i5 = CIPPF(ISIMULS(i) - (j1 - 1))
        End If
    Next j1
End If
End If
End If
End If

If i1 = 0 And i2 = 0 And i3 = 0 And i4 = 0 And i5 = 0 Then
    RES = 0
    ERR_LEC = True
    Me.Hide
    MsgBox "Ha de seleccionar com a mínim una simulació per obtenir resultats.", vbCritical, _
        IIf(i = 1, TITOL_IRPF, IIf(i = 2, TITOL_IS, IIf(i = 3, TITOL_ID, IIf(i = 4, TITOL_IT,
TITOL_IPPF))))
    Exit Sub
End If
j1 = 0
If i1 <> 0 Then
    j1 = j1 + 1
If i2 <> 0 Then
    If i2 <> i1 Then j1 = j1 + 1 Else avis = True
If i3 <> 0 Then
    If i3 <> i2 And i3 <> i1 Then j1 = j1 + 1 Else avis = True
If i4 <> 0 Then
    If i4 <> i3 And i4 <> i2 And i4 <> i1 Then j1 = j1 + 1 Else avis = True
If i5 <> 0 Then
    If i5 <> i4 And i5 <> i3 And i5 <> i2 And i5 <> i1 Then j1 = j1 + 1 Else avis = True
    End If
End If
End If
End If
If avis Then
    ERR_LEC = True
    Me.Hide
    MsgBox "Alguna de les simulacions seleccionades està repetida.", vbCritical, _
        IIf(i = 1, TITOL_IRPF, IIf(i = 2, TITOL_IS, IIf(i = 3, TITOL_ID, IIf(i = 4, TITOL_IT,
TITOL_IPPF))))
    Exit Sub
Else
    ReDim IRESULTS(1 To j1)
    For j1 = 1 To UBound(IRESULTS)
        If j1 = 1 Then IRESULTS(j1) = i1
        If j1 = 2 Then IRESULTS(j1) = i2
        If j1 = 3 Then IRESULTS(j1) = i3
        If j1 = 4 Then IRESULTS(j1) = i4
        If j1 = 5 Then IRESULTS(j1) = i5
    Next j1
End If
RES = i
Unload Me

End If

If Gestio1 Or Gestio2 Or Gestio3 Or Gestio4 Or Gestio5 Then

    i1 = 0
    k1 = 0
    ERR_LEC = False
    If Gestio1 Then i = 1

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If Gestio2 Then i = 2
If Gestio3 Then i = 3
If Gestio4 Then i = 4
If Gestio5 Then i = 5
For j1 = ISIMULS(i) To 1 Step -1
    If ListBox61.Selected(j1 - 1) Then
        If i = 1 Then il = CIRPF(ISIMULS(i) - (j1 - 1))
        If i = 2 Then il = CIS(ISIMULS(i) - (j1 - 1))
        If i = 3 Then il = CID(ISIMULS(i) - (j1 - 1))
        If i = 4 Then il = CIT(ISIMULS(i) - (j1 - 1))
        If i = 5 Then il = CIPPF(ISIMULS(i) - (j1 - 1))
        k1 = k1 + 1
    End If
Next j1

If k1 = 0 Then
    ERR_LEC = True
    Me.Hide
    MsgBox "Ha de seleccionar alguna simulació per a esborrar.", vbCritical, _
        IIf(i = 1, TITOL_IRPF, IIf(i = 2, TITOL_IS, IIf(i = 3, TITOL_ID, IIf(i = 4, TITOL_IT,
TITOL_IPPF))))
    Exit Sub
End If
If k1 > 1 Then
    ERR_LEC = True
    Me.Hide
    MsgBox "Només pot seleccionar una simulació per a esborrar.", vbCritical, _
        IIf(i = 1, TITOL_IRPF, IIf(i = 2, TITOL_IS, IIf(i = 3, TITOL_ID, IIf(i = 4, TITOL_IT,
TITOL_IPPF))))
    For j1 = 1 To ISIMULS(i)
        ListBox61.Selected(j1 - 1) = False
    Next j1
    Exit Sub
End If

If i = 1 Then nom1 = NOM_IRPF_SIMUL & "S" & ANOIRPF & "_"
If i = 1 Then nom2 = NOM_IRPF_SIMUL & "GP" & ANOIRPF & "_"
If i = 2 Then nom1 = NOM_IS_SIMUL & "S" & ANOIS & "_"
If i = 2 Then nom2 = NOM_IS_SIMUL & "GP" & ANOIS & "_"
If i = 3 Then nom1 = NOM_ID_SIMUL & "S" & ANOID & "_"
If i = 3 Then nom2 = NOM_ID_SIMUL & "GP" & ANOID & "_"
If i = 4 Then nom1 = NOM_IT_SIMUL & "S" & ANOIT & "_"
If i = 4 Then nom2 = NOM_IT_SIMUL & "GP" & ANOIT & "_"
If i = 5 Then nom1 = NOM_IPPF_SIMUL & "S" & ANOIPPF & "_"
If i = 5 Then nom2 = NOM_IPPF_SIMUL & "GP" & ANOIPPF & "_"
For j1 = ISIMULS(i) To 1 Step -1
    ERR_LEC = False
    If ListBox61.Selected(j1 - 1) Then
        ERR_LEC = True
        Me.Hide
        If i = 1 Then il = CIRPF(ISIMULS(i) - (j1 - 1))
        If i = 2 Then il = CIS(ISIMULS(i) - (j1 - 1))
        If i = 3 Then il = CID(ISIMULS(i) - (j1 - 1))
        If i = 4 Then il = CIT(ISIMULS(i) - (j1 - 1))
        If i = 5 Then il = CIPPF(ISIMULS(i) - (j1 - 1))
        resposta = MsgBox("Vol eliminar la Simulació " & il & " ?", vbInformation + vbYesNo, _
            IIf(i = 1, TITOL_IRPF, IIf(i = 2, TITOL_IS, IIf(i = 3, TITOL_ID, _
            IIf(i = 4, TITOL_IT, TITOL_IPPF))))
        If resposta = vbYes Then
            Kill nom1 & Trim(Str(il)) & ".xlsx"
            If i <> 4 Then Kill nom2 & Trim(Str(il)) & ".dat"
        End If
        Call COMUNS_ONETEJA(IIf(i = 1, "IRPF(R)", IIf(i = 2, "IS(R)", IIf(i = 3, "ID(R)", _
            IIf(i = 4, "ITPOOSAJD(R)", "IPPF(R)"))))
        If i = 1 Then Call COMUNS_ONETEJA("IRPF(G-P)")
        If i = 2 Then Call COMUNS_ONETEJA("IS(G-P)")
        If i = 3 Then Call COMUNS_ONETEJA("ID(G-P)")
        If i = 5 Then Call COMUNS_ONETEJA("IPPF(G-P)")
        Call COMPTADOR1(i)
    End If
Next j1
For j1 = 1 To ISIMULS(i)
    ListBox61.Selected(j1 - 1) = False
Next j1
For Each CTL In Me.Controls
    If TypeName(CTL) = "OptionButton" Then
        If Left(CTL.Name, 1) <> "R" Then CTL.Enabled = False
        If Left(CTL.Name, 1) = "G" Then CTL.Value = False
        If Left(CTL.Name, 1) = "S" Then CTL.Caption = "Simulació"
    End If
Next CTL
With Me

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.Height = 145 * (IIf(XZOOM < 200 Or XTEXT, 1, 1.5))
.Top = topl - ((Me.Height - height1) / 2)
End With

End If

End Sub
Private Sub Cancelar_Click()

Dim i1 As Integer

If IMPOST(1) Then MultiPage1.Value = 0
If IMPOST(2) Then MultiPage1.Value = 1
If IMPOST(3) Then MultiPage1.Value = 2
If IMPOST(4) Then MultiPage1.Value = 3
If IMPOST(5) Then MultiPage1.Value = 4

For Each CTL In Me.Controls
    If TypeName(CTL) = "OptionButton" Then
        CTL.Value = False
        If Left(CTL.Name, 1) <> "R" Then CTL.Enabled = False
        If Left(CTL.Name, 1) = "S" Then CTL.Caption = "Simulación"
    End If
Next CTL
Frame6.Visible = False
Frame7.Visible = False

IMPOST(1) = False
IMPOST(2) = False
IMPOST(3) = False
IMPOST(4) = False
IMPOST(5) = False
COMPARA = 0
RES = 0
SIMUL = 0

For i1 = 1 To Application.max(ISIMULS(1), ISIMULS(2), ISIMULS(3), ISIMULS(4), ISIMULS(5))
    If ListBox61.Selected(i1 - 1) Then ListBox61.Selected(i1 - 1) = False
    If ListBox62.Selected(i1 - 1) Then ListBox62.Selected(i1 - 1) = False
    If ListBox71.Selected(i1 - 1) Then ListBox71.Selected(i1 - 1) = False
    If ListBox72.Selected(i1 - 1) Then ListBox72.Selected(i1 - 1) = False
    If ListBox73.Selected(i1 - 1) Then ListBox73.Selected(i1 - 1) = False
    If ListBox74.Selected(i1 - 1) Then ListBox74.Selected(i1 - 1) = False
    If ListBox75.Selected(i1 - 1) Then ListBox75.Selected(i1 - 1) = False
Next i1
For i1 = 1 To Application.max(AIRPF, AIS, AID, AIT, AIPPF)
    If ListBox_IRPF.Selected(i1 - 1) Then ListBox_IRPF.Selected(i1 - 1) = False
    If ListBox_IS.Selected(i1 - 1) Then ListBox_IS.Selected(i1 - 1) = False
    If ListBox_ID.Selected(i1 - 1) Then ListBox_ID.Selected(i1 - 1) = False
    If ListBox_IT.Selected(i1 - 1) Then ListBox_IT.Selected(i1 - 1) = False
    If ListBox_IPPF.Selected(i1 - 1) Then ListBox_IPPF.Selected(i1 - 1) = False
Next i1
ListBox72.Locked = True
ListBox73.Locked = True
ListBox74.Locked = True
ListBox75.Locked = True
With Me
    .Height = 145 * (IIf(XZOOM < 200 Or XTEXT, 1, 1.5))
    .Top = topl - ((Me.Height - height1) / 2)
End With

End Sub
Private Sub Comparaciol_Click()

Dim s() As String

If Comparaciol.Value Then
    For Each CTL In Me.Controls
        If TypeName(CTL) = "OptionButton" And CTL.Name <> "Comparaciol" Then CTL.Value = False
    Next CTL
    ERR_LEC = False
    Call COMPTADOR2("Comparacio", 1, s)
    With Me
        With .Frame6
            .Caption = "Comparar:"
            .Frame61.Left = 2
            .Frame62.Visible = True
            .Label6.Visible = True
            .ListBox61.List = s
            .ListBox61.TopIndex = ISIMULS(1)
            .ListBox62.List = s
            .ListBox62.TopIndex = ISIMULS(1)
            .Visible = True
        End With
    End With
End If

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End With
.Frame7.Visible = False
For Each CTL In .Frame7.Controls
    If TypeName(CTL) = "Frame" And CTL.Name <> "Frame71" Then CTL.Visible = False
Next CTL
.Height = 215 * (IIf(XZOOM < 200 Or XTEXT, 1, 1.5))
.Top = topl - ((.Height - height1) / 2)
End With
Call COMUNS_ONETEJA("IRPF(G-P)")
End If

End Sub
Private Sub Comparacio2_Click()

Dim s() As String

If Comparacio2.Value Then
    For Each CTL In Me.Controls
        If TypeName(CTL) = "OptionButton" And CTL.Name <> "Comparacio2" Then CTL.Value = False
    Next CTL
    ERR_LEC = False
    Call COMPTADOR2("Comparacio", 2, s)
    With Me
        With .Frame6
            .Caption = "Comparar:"
            .Frame61.Left = 2
            .Frame62.Visible = True
            .Label6.Visible = True
            .ListBox61.List = s
            .ListBox61.TopIndex = ISIMULS(2)
            .ListBox62.List = s
            .ListBox62.TopIndex = ISIMULS(2)
            .Visible = True
        End With
        .Frame7.Visible = False
        For Each CTL In .Frame7.Controls
            If TypeName(CTL) = "Frame" And CTL.Name <> "Frame71" Then CTL.Visible = False
        Next CTL
        .Height = 215 * (IIf(XZOOM < 200 Or XTEXT, 1, 1.5))
        .Top = topl - ((.Height - height1) / 2)
    End With
    Call COMUNS_ONETEJA("IS(G-P)")
End If

End Sub
Private Sub Comparacio3_Click()

Dim s() As String

If Comparacio3.Value Then
    For Each CTL In Me.Controls
        If TypeName(CTL) = "OptionButton" And CTL.Name <> "Comparacio3" Then CTL.Value = False
    Next CTL
    ERR_LEC = False
    Call COMPTADOR2("Comparacio", 3, s)
    With Me
        With .Frame6
            .Caption = "Comparar:"
            .Frame61.Left = 2
            .Frame62.Visible = True
            .Label6.Visible = True
            .ListBox61.List = s
            .ListBox61.TopIndex = ISIMULS(3)
            .ListBox62.List = s
            .ListBox62.TopIndex = ISIMULS(3)
            .Visible = True
        End With
        .Frame7.Visible = False
        For Each CTL In .Frame7.Controls
            If TypeName(CTL) = "Frame" And CTL.Name <> "Frame71" Then CTL.Visible = False
        Next CTL
        .Height = 215 * (IIf(XZOOM < 200 Or XTEXT, 1, 1.5))
        .Top = topl - ((.Height - height1) / 2)
    End With
    Call COMUNS_ONETEJA("ID(G-P)")
End If

End Sub
Private Sub Comparacio4_Click()

Dim s() As String

If Comparacio4.Value Then
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For Each CTL In Me.Controls
    If TypeName(CTL) = "OptionButton" And CTL.Name <> "Comparacio4" Then CTL.Value = False
Next CTL
ERR_LEC = False
Call COMPTADOR2("Comparacio", 4, s)
With Me
    With .Frame6
        .Caption = "Comparar:"
        .Frame61.Left = 2
        .Frame62.Visible = True
        .Label6.Visible = True
        .ListBox61.List = s
        .ListBox61.TopIndex = ISIMULS(4)
        .ListBox62.List = s
        .ListBox62.TopIndex = ISIMULS(4)
        .Visible = True
    End With
    .Frame7.Visible = False
For Each CTL In .Frame7.Controls
    If TypeName(CTL) = "Frame" And CTL.Name <> "Frame71" Then CTL.Visible = False
Next CTL
.Height = 215 * (IIf(XZOOM < 200 Or XTEXT, 1, 1.5))
.Top = top1 - ((.Height - height1) / 2)
End With
Call COMUNS_ONETEJA("ITPOOSAJD(G-P)")
End If

End Sub
Private Sub Comparacio5_Click()

Dim s() As String

If Comparacio5.Value Then
    For Each CTL In Me.Controls
        If TypeName(CTL) = "OptionButton" And CTL.Name <> "Comparacio5" Then CTL.Value = False
    Next CTL
    ERR_LEC = False
    Call COMPTADOR2("Comparacio", 5, s)
    With Me
        With .Frame6
            .Caption = "Comparar:"
            .Frame61.Left = 2
            .Frame62.Visible = True
            .Label6.Visible = True
            .ListBox61.List = s
            .ListBox61.TopIndex = ISIMULS(5)
            .ListBox62.List = s
            .ListBox62.TopIndex = ISIMULS(5)
            .Visible = True
        End With
        .Frame7.Visible = False
    For Each CTL In .Frame7.Controls
        If TypeName(CTL) = "Frame" And CTL.Name <> "Frame71" Then CTL.Visible = False
    Next CTL
    .Height = 215 * (IIf(XZOOM < 200 Or XTEXT, 1, 1.5))
    .Top = top1 - ((.Height - height1) / 2)
    End With
    Call COMUNS_ONETEJA("IPPF(G-P)")
End If

End Sub
Private Sub Consultal_Click()

Dim i1 As Integer, s() As String

If Consultal.Value Then
    For Each CTL In Me.Controls
        If TypeName(CTL) = "OptionButton" And CTL.Name <> "Consultal" Then CTL.Value = False
    Next CTL
    ERR_LEC = False
    For i1 = 1 To Application.max(ISIMULS(1), ISIMULS(2), ISIMULS(3), ISIMULS(4), ISIMULS(5))
        If ListBox61.Selected(i1 - 1) Then ListBox61.Selected(i1 - 1) = False
        If ListBox62.Selected(i1 - 1) Then ListBox62.Selected(i1 - 1) = False
    Next i1
    Call COMPTADOR2("Consulta", 1, s)
    With Me
        .Frame6.Visible = False
        With .Frame7
            .ListBox71.List = s
            .ListBox72.List = s
            .ListBox73.List = s
            .ListBox74.List = s
            .ListBox75.List = s
        End With
    End With
End With

```

```

.ListBox71.TopIndex = ISIMULS(1)
If ISIMULS(1) > 1 Then
    .Frame72.Visible = True
    .ListBox72.TopIndex = ISIMULS(1) - 2
    If ISIMULS(1) > 2 Then
        .Frame73.Visible = True
        .ListBox73.TopIndex = ISIMULS(1) - 3
        If ISIMULS(1) > 3 Then
            .Frame74.Visible = True
            .ListBox74.TopIndex = ISIMULS(1) - 4
            If ISIMULS(1) > 4 Then
                .Frame75.Visible = True
                .ListBox75.TopIndex = ISIMULS(1) - 5
            End If
        End If
    End If
End If
    .Visible = True
End With
.Height = 215 * (IIf(XZOOM < 200 Or XTEXT, 1, 1.5))
.Top = topl - ((.Height - height1) / 2)
End With
Call COMUNS_ONETEJA("IRPF(R)")
End If

End Sub
Private Sub Consulta2_Click()

Dim il As Integer, s() As String

If Consulta2.Value Then
    For Each CTL In Me.Controls
        If TypeName(CTL) = "OptionButton" And CTL.Name <> "Consulta2" Then CTL.Value = False
    Next CTL
    ERR_LEC = False
    For il = 1 To Application.max(ISIMULS(1), ISIMULS(2), ISIMULS(3), ISIMULS(4), ISIMULS(5))
        If ListBox61.Selected(il - 1) Then ListBox61.Selected(il - 1) = False
        If ListBox62.Selected(il - 1) Then ListBox62.Selected(il - 1) = False
    Next il
    Call COMPTADOR2("Consulta", 2, s)
    With Me
        .Frame6.Visible = False
        With .Frame7
            .ListBox71.List = s
            .ListBox72.List = s
            .ListBox73.List = s
            .ListBox74.List = s
            .ListBox75.List = s
            .ListBox71.TopIndex = ISIMULS(2)
            .ListBox71.Visible = True
            If ISIMULS(2) > 1 Then
                .Frame72.Visible = True
                .ListBox72.TopIndex = ISIMULS(2) - 2
                If ISIMULS(2) > 2 Then
                    .Frame73.Visible = True
                    .ListBox73.TopIndex = ISIMULS(2) - 3
                    If ISIMULS(2) > 3 Then
                        .Frame74.Visible = True
                        .ListBox74.TopIndex = ISIMULS(2) - 4
                        If ISIMULS(2) > 4 Then
                            .Frame75.Visible = True
                            .ListBox75.TopIndex = ISIMULS(2) - 5
                        End If
                    End If
                End If
            End If
        End With
        .Visible = True
    End With
    .Height = 215 * (IIf(XZOOM < 200 Or XTEXT, 1, 1.5))
    .Top = topl - ((.Height - height1) / 2)
End With
Call COMUNS_ONETEJA("IS(R)")
End If

End Sub
Private Sub Consulta3_Click()

Dim il As Integer, s() As String

If Consulta3.Value Then
    For Each CTL In Me.Controls
        If TypeName(CTL) = "OptionButton" And CTL.Name <> "Consulta3" Then CTL.Value = False
    Next CTL

```

```

ERR_LEC = False
For il = 1 To Application.max(ISIMULS(1), ISIMULS(2), ISIMULS(3), ISIMULS(4), ISIMULS(5))
    If ListBox61.Selected(il - 1) Then ListBox61.Selected(il - 1) = False
    If ListBox62.Selected(il - 1) Then ListBox62.Selected(il - 1) = False
Next il
Call COMPTADOR2("Consulta", 3, s)
With Me
    .Frame6.Visible = False
    With .Frame7
        .ListBox71.List = s
        .ListBox72.List = s
        .ListBox73.List = s
        .ListBox74.List = s
        .ListBox75.List = s
        .ListBox71.TopIndex = ISIMULS(3)
    If ISIMULS(3) > 1 Then
        .Frame72.Visible = True
        .ListBox72.TopIndex = ISIMULS(3) - 2
    If ISIMULS(3) > 2 Then
        .Frame73.Visible = True
        .ListBox73.TopIndex = ISIMULS(3) - 3
    If ISIMULS(3) > 3 Then
        .Frame74.Visible = True
        .ListBox74.TopIndex = ISIMULS(3) - 4
    If ISIMULS(3) > 4 Then
        .Frame75.Visible = True
        .ListBox75.TopIndex = ISIMULS(3) - 5
    End If
    End If
    End If
    .Visible = True
End With
.Height = 215 * (IIf(XZOOM < 200 Or XTEXT, 1, 1.5))
.Top = topl - ((.Height - height1) / 2)
End With
Call COMUNS_ONETEJA("ID(R)")
End If

End Sub
Private Sub Consulta4_Click()

Dim il As Integer, s() As String

If Consulta4.Value Then
For Each CTL In Me.Controls
    If TypeName(CTL) = "OptionButton" And CTL.Name <> "Consulta4" Then CTL.Value = False
Next CTL
ERR_LEC = False
For il = 1 To Application.max(ISIMULS(1), ISIMULS(2), ISIMULS(3), ISIMULS(4), ISIMULS(5))
    If ListBox61.Selected(il - 1) Then ListBox61.Selected(il - 1) = False
    If ListBox62.Selected(il - 1) Then ListBox62.Selected(il - 1) = False
Next il
Call COMPTADOR2("Consulta", 4, s)
With Me
    .Frame6.Visible = False
    With .Frame7
        .ListBox71.List = s
        .ListBox72.List = s
        .ListBox73.List = s
        .ListBox74.List = s
        .ListBox75.List = s
        .ListBox71.TopIndex = ISIMULS(4)
    If ISIMULS(4) > 1 Then
        .Frame72.Visible = True
        .ListBox72.TopIndex = ISIMULS(4) - 2
    If ISIMULS(4) > 2 Then
        .Frame73.Visible = True
        .ListBox73.TopIndex = ISIMULS(4) - 3
    If ISIMULS(4) > 3 Then
        .Frame74.Visible = True
        .ListBox74.TopIndex = ISIMULS(4) - 4
    If ISIMULS(4) > 4 Then
        .Frame75.Visible = True
        .ListBox75.TopIndex = ISIMULS(4) - 5
    End If
    End If
    End If
    .Visible = True
End With
.Height = 215 * (IIf(XZOOM < 200 Or XTEXT, 1, 1.5))
.Top = topl - ((.Height - height1) / 2)

```

```

End With
Call COMUNS_ONETEJA("ITPOOSAJD(R)")
End If

End Sub
Private Sub Consulta5_Click()

Dim il As Integer, s() As String

If Consulta5.Value Then
For Each CTL In Me.Controls
If TypeName(CTL) = "OptionButton" And CTL.Name <> "Consulta5" Then CTL.Value = False
Next CTL
ERR_LEC = False
For il = 1 To Application.max(ISIMULS(1), ISIMULS(2), ISIMULS(3), ISIMULS(4), ISIMULS(5))
If ListBox61.Selected(il - 1) Then ListBox61.Selected(il - 1) = False
If ListBox62.Selected(il - 1) Then ListBox62.Selected(il - 1) = False
Next il
Call COMPTADOR2("Consulta", 5, s)
With Me
.Frame6.Visible = False
With .Frame7
.ListBox71.List = s
.ListBox72.List = s
.ListBox73.List = s
.ListBox74.List = s
.ListBox75.List = s
.ListBox71.TopIndex = ISIMULS(5)
If ISIMULS(5) > 1 Then
.Frame72.Visible = True
.ListBox72.TopIndex = ISIMULS(5) - 2
If ISIMULS(5) > 2 Then
.Frame73.Visible = True
.ListBox73.TopIndex = ISIMULS(5) - 3
If ISIMULS(5) > 3 Then
.Frame74.Visible = True
.ListBox74.TopIndex = ISIMULS(5) - 4
If ISIMULS(5) > 4 Then
.Frame75.Visible = True
.ListBox75.TopIndex = ISIMULS(5) - 5
End If
End If
End If
End If
.Visible = True
End With
.Height = 215 * (IIf(XZOOM < 200 Or XTEXT, 1, 1.5))
.Top = topl - ((.Height - height1) / 2)
End With
Call COMUNS_ONETEJA("IPPF(R)")
End If

End Sub
Private Sub Gestio1_Click()

Dim s() As String

If Gestio1.Value Then
For Each CTL In Me.Controls
If TypeName(CTL) = "OptionButton" And CTL.Name <> "Gestio1" Then CTL.Value = False
Next CTL
ERR_LEC = False
Call COMPTADOR2("Gestio", 1, s)
With Me
With .Frame6
.Caption = "Eliminar:"
.Frame61.Left = 60
.Frame62.Visible = False
.Label6.Visible = False
.ListBox61.List = s
.ListBox61.TopIndex = ISIMULS(1)
.Visible = True
End With
.Frame7.Visible = False
For Each CTL In .Frame7.Controls
If TypeName(CTL) = "Frame" And CTL.Name <> "Frame71" Then CTL.Visible = False
Next CTL
.Height = 215 * (IIf(XZOOM < 200 Or XTEXT, 1, 1.5))
.Top = topl - ((.Height - height1) / 2)
End With
End If

End Sub

```

```

Private Sub Gestio2_Click()

Dim s() As String

If Gestio2.Value Then
  For Each CTL In Me.Controls
    If TypeName(CTL) = "OptionButton" And CTL.Name <> "Gestio2" Then CTL.Value = False
  Next CTL
  ERR_LEC = False
  Call COMPTADOR2("Gestio", 2, s)
  With Me
    With .Frame6
      .Caption = "Eliminar:"
      .Frame61.Left = 60
      .Frame62.Visible = False
      .Label6.Visible = False
      .ListBox61.List = s
      .ListBox61.TopIndex = ISIMULS(2)
      .Visible = True
    End With
    .Frame7.Visible = False
  For Each CTL In .Frame7.Controls
    If TypeName(CTL) = "Frame" And CTL.Name <> "Frame71" Then CTL.Visible = False
  Next CTL
  .Height = 215 * (IIf(XZOOM < 200 Or XTEXT, 1, 1.5))
  .Top = topl - ((.Height - height1) / 2)
End With
End If

End Sub
Private Sub Gestio3_Click()

Dim s() As String

If Gestio3.Value Then
  For Each CTL In Me.Controls
    If TypeName(CTL) = "OptionButton" And CTL.Name <> "Gestio3" Then CTL.Value = False
  Next CTL
  ERR_LEC = False
  Call COMPTADOR2("Gestio", 3, s)
  With Me
    With .Frame6
      .Caption = "Eliminar:"
      .Frame61.Left = 60
      .Frame62.Visible = False
      .Label6.Visible = False
      .ListBox61.List = s
      .ListBox61.TopIndex = ISIMULS(3)
      .Visible = True
    End With
    .Frame7.Visible = False
  For Each CTL In .Frame7.Controls
    If TypeName(CTL) = "Frame" And CTL.Name <> "Frame71" Then CTL.Visible = False
  Next CTL
  .Height = 215 * (IIf(XZOOM < 200 Or XTEXT, 1, 1.5))
  .Top = topl - ((.Height - height1) / 2)
End With
End If

End Sub
Private Sub Gestio4_Click()

Dim s() As String

If Gestio4.Value Then
  For Each CTL In Me.Controls
    If TypeName(CTL) = "OptionButton" And CTL.Name <> "Gestio4" Then CTL.Value = False
  Next CTL
  ERR_LEC = False
  Call COMPTADOR2("Gestio", 4, s)
  With Me
    With .Frame6
      .Caption = "Eliminar:"
      .Frame61.Left = 60
      .Frame62.Visible = False
      .Label6.Visible = False
      .ListBox61.List = s
      .ListBox61.TopIndex = ISIMULS(4)
      .Visible = True
    End With
    .Frame7.Visible = False
  For Each CTL In .Frame7.Controls
    If TypeName(CTL) = "Frame" And CTL.Name <> "Frame71" Then CTL.Visible = False

```

```

Next CTL
.Height = 215 * (IIf(XZOOM < 200 Or XTEXT, 1, 1.5))
.Top = top1 - ((.Height - height1) / 2)
End With
End If

End Sub
Private Sub Gestio5_Click()

Dim s() As String

If Gestio5.Value Then
For Each CTL In Me.Controls
If TypeName(CTL) = "OptionButton" And CTL.Name <> "Gestio5" Then CTL.Value = False
Next CTL
ERR_LEC = False
Call COMPTADOR2("Gestio", 5, s)
With Me
With .Frame6
.Caption = "Eliminar:"
.Frame61.Left = 60
.Frame62.Visible = False
.Label6.Visible = False
.ListBox61.List = s
.ListBox61.TopIndex = ISIMULS(5)
.Visible = True
End With
.Frame7.Visible = False
For Each CTL In .Frame7.Controls
If TypeName(CTL) = "Frame" And CTL.Name <> "Frame71" Then CTL.Visible = False
Next CTL
.Height = 215 * (IIf(XZOOM < 200 Or XTEXT, 1, 1.5))
.Top = top1 - ((.Height - height1) / 2)
End With
End If

End Sub
Private Sub Simulal_Click()

Dim il As Integer, nom1 As String, nom2 As String, resposta As VbMsgBoxResult

If Simulal.Value Then
For Each CTL In Me.Controls
If TypeName(CTL) = "OptionButton" Then CTL.Value = False
Next CTL
ERR_LEC = False
If ISIMULS(1) <> 0 Then
If CIRPF(ISIMULS(1)) = 100 Then
ERR_LEC = True
nom1 = NOM_IRPF_SIMUL & "S" & ANOIRPF & "_"
nom2 = NOM_IRPF_SIMUL & "GP" & ANOIRPF & "_"
Me.Hide
resposta = MsgBox("El comptador de simulacions ha arribat al seu límit (100). Si vol obtenir " &
vbCr & _
"més simulacions cal esborrar totes les que hi ha ara emmgegatzemades." & vbCr & vbCr
& _
"Vol eliminar totes les simulacions existents definitivament ?", vbInformation +
vbYesNo, TITOL_IRPF)
If resposta = vbYes Then
For il = 1 To ISIMULS(1)
If Dir(nom1 & Trim(Str(CIRPF(il))) & ".xlsx") Then Kill nom1 & Trim(Str(CIRPF(il))) & ".xlsx"
If Dir(nom2 & Trim(Str(CIRPF(il))) & ".dat") Then Kill nom2 & Trim(Str(CIRPF(il))) & ".dat"
Next il
Else
SIMUL = 0
Unload Me
Exit Sub
End If
End If
Call COMUNS_ONETEJA("IRPF(R)")
End If
SIMUL = 1
Unload Me
End If

End Sub
Private Sub Simula2_Click()

Dim il As Integer, nom1 As String, nom2 As String, resposta As VbMsgBoxResult

If Simula2.Value Then
For Each CTL In Me.Controls
If TypeName(CTL) = "OptionButton" Then CTL.Value = False

```

```

Next CTL
ERR_LEC = False
If ISIMULS(2) <> 0 Then
  If CIS(ISIMULS(2)) = 100 Then
    ERR_LEC = True
    nom1 = NOM_IS_SIMUL & "S" & ANOIS & "_"
    nom2 = NOM_IS_SIMUL & "GP" & ANOIS & "_"
    Me.Hide
    resposta = MsgBox("El comptador de simulacions ha arribat al seu límit (100). Si vol obtenir " &
vbCr & _
        "més simulacions cal esborrar totes les que hi ha ara emmeggatzemades." & vbCr & vbCr
& _
        "Vol eliminar totes les simulacions existents definitivament ?", vbInformation +
vbYesNo, TITOL_IS)
    If resposta = vbYes Then
      For il = 1 To ISIMULS(2)
        If Dir(nom1 & Trim(Str(CIS(il))) & ".xlsx") Then Kill nom1 & Trim(Str(CIS(il))) & ".xlsx"
        If Dir(nom2 & Trim(Str(CIS(il))) & ".dat") Then Kill nom2 & Trim(Str(CIS(il))) & ".dat"
      Next il
    Else
      SIMUL = 0
      Unload Me
      Exit Sub
    End If
  End If
  Call COMUNS_ONETEJA("IS(R)")
End If
SIMUL = 2
Unload Me
End If

End Sub
Private Sub Simula3_Click()

Dim il As Integer, nom1 As String, nom2 As String, resposta As VbMsgBoxResult

If Simula3.Value Then
  For Each CTL In Me.Controls
    If TypeName(CTL) = "OptionButton" Then CTL.Value = False
  Next CTL
  ERR_LEC = False
  If ISIMULS(3) <> 0 Then
    If CID(ISIMULS(3)) = 100 Then
      ERR_LEC = True
      nom1 = NOM_ID_SIMUL & "S" & ANOID & "_"
      nom2 = NOM_ID_SIMUL & "GP" & ANOID & "_"
      Me.Hide
      resposta = MsgBox("El comptador de simulacions ha arribat al seu límit (100). Si vol obtenir " &
vbCr & _
          "més simulacions cal esborrar totes les que hi ha ara emmeggatzemades." & vbCr & vbCr
& _
          "Vol eliminar totes les simulacions existents definitivament ?", vbInformation +
vbYesNo, TITOL_ID)
      If resposta = vbYes Then
        For il = 1 To ISIMULS(3)
          If Dir(nom1 & Trim(Str(CID(il))) & ".xlsx") Then Kill nom1 & Trim(Str(CID(il))) & ".xlsx"
          If Dir(nom2 & Trim(Str(CID(il))) & ".dat") Then Kill nom2 & Trim(Str(CID(il))) & ".dat"
        Next il
      Else
        SIMUL = 0
        Unload Me
        Exit Sub
      End If
    End If
    Call COMUNS_ONETEJA("ID(R)")
  End If
  SIMUL = 3
  Unload Me
End If

End Sub
Private Sub Simula4_Click()

Dim il As Integer, nom1 As String, nom2 As String, resposta As VbMsgBoxResult

If Simula4.Value Then
  For Each CTL In Me.Controls
    If TypeName(CTL) = "OptionButton" Then CTL.Value = False
  Next CTL
  ERR_LEC = False
  If ISIMULS(4) <> 0 Then
    If CIT(ISIMULS(4)) = 100 Then
      ERR_LEC = True

```

```

    nom1 = NOM_IT_SIMUL & "S" & ANOIT & "_"
    Me.Hide
    resposta = MsgBox("El comptador de simulacions ha arribat al seu límit (100). Si vol obtenir " &
vbCr & _
                "més simulacions cal esborrar totes les que hi ha ara emmmegatzemades." & vbCr & vbCr
& _
                "Vol eliminar totes les simulacions existents definitivament ?", vbInformation +
vbYesNo, TITOL_IT)
    If resposta = vbYes Then
        For il = 1 To ISIMULS(4)
            If Dir(nom1 & Trim(Str(CIT(il))) & ".xlsx") Then Kill nom1 & Trim(Str(CIT(il))) & ".xlsx"
        Next il
    Else
        SIMUL = 0
        Unload Me
        Exit Sub
    End If
End If
Call COMUNS_ONETEJA("ITPOOSAJD(R)")
End If
SIMUL = 4
Unload Me
End If

End Sub
Private Sub Simula5_Click()

Dim il As Integer, nom1 As String, nom2 As String, resposta As VbMsgBoxResult

If Simula5.Value Then
    For Each CTL In Me.Controls
        If TypeName(CTL) = "OptionButton" Then CTL.Value = False
    Next CTL
    ERR_LEC = False
    If ISIMULS(5) <> 0 Then
        If CIPPF(ISIMULS(5)) = 100 Then
            ERR_LEC = True
            nom1 = NOM_IPPF_SIMUL & "S" & ANOIPPF & "_"
            Me.Hide
            resposta = MsgBox("El comptador de simulacions ha arribat al seu límit (100). Si vol obtenir " &
vbCr & _
                    "més simulacions cal esborrar totes les que hi ha ara emmmegatzemades." & vbCr & vbCr
& _
                    "Vol eliminar totes les simulacions existents definitivament ?", vbInformation +
vbYesNo, TITOL_IPPF)
            If resposta = vbYes Then
                For il = 1 To ISIMULS(5)
                    If Dir(nom1 & Trim(Str(CIPPF(il))) & ".xlsx") Then Kill nom1 & Trim(Str(CIPPF(il))) & ".xlsx"
                    If Dir(nom2 & Trim(Str(CIPPF(il))) & ".dat") Then Kill nom2 & Trim(Str(CIPPF(il))) & ".dat"
                Next il
            Else
                SIMUL = 0
                Unload Me
                Exit Sub
            End If
        End If
        Call COMUNS_ONETEJA("IPPF(R)")
    End If
    SIMUL = 5
    Unload Me
End If

End Sub
Private Sub ListBox_IRPF_Click()

Dim il As Integer

For Each CTL In Me.Controls
    If TypeName(CTL) = "OptionButton" And Left(CTL.Name, 1) <> "R" Then
        CTL.Enabled = False
        CTL.Value = False
    End If
Next CTL
For il = 1 To Application.max(AIRPF, AIS, AID, AIT, AIPPF)
    ListBox_IS.Selected(il - 1) = False
    ListBox_ID.Selected(il - 1) = False
    ListBox_IT.Selected(il - 1) = False
    ListBox_IPPF.Selected(il - 1) = False
    If ListBox_IRPF.Selected(il - 1) = True Then
        ANOIRPF = ListBox_IRPF.Value
        Exit For
    End If
Next il

```

```

Call COMPTADOR1(1)
With Me
  With .Simula1
    .Caption = "Simulació (" & ISIMULS(1) & " emmagatzemad" & IIf(ISIMULS(1) = 1, "a)", "es)")
    .Enabled = True
  End With
  If ISIMULS(1) <> 0 Then
    If ISIMULS(1) > 1 Then .Comparacio1.Enabled = True
    .Consultal.Enabled = True
    .Gestio1.Enabled = True
  End If
  .Height = 145 * (IIf(XZOOM < 200 Or XTEXT, 1, 1.5))
  .Top = top1 - ((Me.Height - height1) / 2)
End With

End Sub
Private Sub ListBox_IS_Click()

Dim il As Integer

For Each CTL In Me.Controls
  If TypeName(CTL) = "OptionButton" And Left(CTL.Name, 1) <> "R" Then
    CTL.Enabled = False
    CTL.Value = False
  End If
Next CTL
For il = 1 To Application.max(AIRPF, AIS, AID, AIT, AIPPF)
  ListBox_IRPF.Selected(il - 1) = False
  ListBox_ID.Selected(il - 1) = False
  ListBox_IT.Selected(il - 1) = False
  ListBox_IPPF.Selected(il - 1) = False
  If ListBox_IS.Selected(il - 1) = True Then
    ANOIS = ListBox_IS.Value
  Exit For
  End If
Next il

Call COMPTADOR1(2)
With Me
  With .Simula2
    .Caption = "Simulació (" & ISIMULS(2) & " emmagatzemad" & IIf(ISIMULS(2) = 1, "a)", "es)")
    .Enabled = True
  End With
  If ISIMULS(2) <> 0 Then
    If ISIMULS(2) > 1 Then .Comparacio2.Enabled = True
    .Consulta2.Enabled = True
    .Gestio2.Enabled = True
  End If
  .Height = 145 * (IIf(XZOOM < 200 Or XTEXT, 1, 1.5))
  .Top = top1 - ((Me.Height - height1) / 2)
End With

End Sub
Private Sub ListBox_ID_Click()

Dim il As Integer

For Each CTL In Me.Controls
  If TypeName(CTL) = "OptionButton" And Left(CTL.Name, 1) <> "R" Then
    CTL.Enabled = False
    CTL.Value = False
  End If
Next CTL
For il = 1 To Application.max(AIRPF, AIS, AID, AIT, AIPPF)
  ListBox_IRPF.Selected(il - 1) = False
  ListBox_IS.Selected(il - 1) = False
  ListBox_IT.Selected(il - 1) = False
  ListBox_IPPF.Selected(il - 1) = False
  If ListBox_ID.Selected(il - 1) = True Then
    ANOID = ListBox_ID.Value
  Exit For
  End If
Next il

Call COMPTADOR1(3)
With Me
  With .Simula3
    .Caption = "Simulació (" & ISIMULS(3) & " emmagatzemad" & IIf(ISIMULS(3) = 1, "a)", "es)")
    .Enabled = True
  End With
  If ISIMULS(3) <> 0 Then
    If ISIMULS(3) > 1 Then .Comparacio3.Enabled = True

```

```

        .Consulta3.Enabled = True
        .Gestio3.Enabled = True
    End If
    .Height = 145 * (IIf(XZOOM < 200 Or XTEXT, 1, 1.5))
    .Top = topl - ((Me.Height - height1) / 2)
End With

End Sub
Private Sub ListBox_IT_Click()

Dim il As Integer

For Each CTL In Me.Controls
    If TypeName(CTL) = "OptionButton" And Left(CTL.Name, 1) <> "R" Then
        CTL.Enabled = False
        CTL.Value = False
    End If
Next CTL
For il = 1 To Application.max(AIRPF, AIS, AID, AIT, AIPPF)
    ListBox_IRPF.Selected(il - 1) = False
    ListBox_IS.Selected(il - 1) = False
    ListBox_ID.Selected(il - 1) = False
    ListBox_IPPF.Selected(il - 1) = False
    If ListBox_IT.Selected(il - 1) = True Then
        ANOIT = ListBox_IT.Value
        Exit For
    End If
Next il

Call COMPTADOR1(4)
With Me
    With .Simula4
        .Caption = "Simulació (" & ISIMULS(4) & " emmagatzemad" & IIf(ISIMULS(4) = 1, "a)", "es)")
        .Enabled = True
    End With
    If ISIMULS(4) <> 0 Then
        If ISIMULS(4) > 1 Then .Comparacio4.Enabled = True
        .Consulta4.Enabled = True
        .Gestio4.Enabled = True
    End If
    .Height = 145 * (IIf(XZOOM < 200 Or XTEXT, 1, 1.5))
    .Top = topl - ((Me.Height - height1) / 2)
End With

End Sub
Private Sub ListBox_IPPF_Click()

Dim il As Integer

For Each CTL In Me.Controls
    If TypeName(CTL) = "OptionButton" And Left(CTL.Name, 1) <> "R" Then
        CTL.Enabled = False
        CTL.Value = False
    End If
Next CTL
For il = 1 To Application.max(AIRPF, AIS, AID, AIT, AIPPF)
    ListBox_IRPF.Selected(il - 1) = False
    ListBox_IS.Selected(il - 1) = False
    ListBox_ID.Selected(il - 1) = False
    ListBox_IT.Selected(il - 1) = False
    If ListBox_IPPF.Selected(il - 1) = True Then
        ANOIPPF = ListBox_IPPF.Value
        Exit For
    End If
Next il

Call COMPTADOR1(5)
With Me
    With .Simula5
        .Caption = "Simulació (" & ISIMULS(5) & " emmagatzemad" & IIf(ISIMULS(5) = 1, "a)", "es)")
        .Enabled = True
    End With
    If ISIMULS(5) <> 0 Then
        If ISIMULS(5) > 1 Then .Comparacio5.Enabled = True
        .Consulta5.Enabled = True
        .Gestio5.Enabled = True
    End If
    .Height = 145 * (IIf(XZOOM < 200 Or XTEXT, 1, 1.5))
    .Top = topl - ((Me.Height - height1) / 2)
End With

End Sub
Private Sub ListBox71_Click()

```

```

Dim j1 As Integer

For j1 = 1 To ISIMULS(MultiPage1.Value + 1)
    If ListBox71.Selected(j1 - 1) Then
        ListBox72.Locked = False
        Exit For
    End If
Next j1

End Sub
Private Sub ListBox72_Click()

Dim j1 As Integer

For j1 = 1 To ISIMULS(MultiPage1.Value + 1)
    If ListBox72.Selected(j1 - 1) Then
        ListBox73.Locked = False
        Exit For
    End If
Next j1

End Sub
Private Sub ListBox73_Click()

Dim j1 As Integer

For j1 = 1 To ISIMULS(MultiPage1.Value + 1)
    If ListBox73.Selected(j1 - 1) Then
        ListBox74.Locked = False
        Exit For
    End If
Next j1

End Sub
Private Sub ListBox74_Click()

Dim j1 As Integer

For j1 = 1 To ISIMULS(MultiPage1.Value + 1)
    If ListBox74.Selected(j1 - 1) Then
        ListBox75.Locked = False
        Exit For
    End If
Next j1

End Sub
Private Sub MultiPage1_Change()

Dim i1 As Integer

With Me
    .Height = 145 * (IIf(XZOOM < 200 Or XTEXT, 1, 1.5))
    .Top = top1 - ((Me.Height - height1) / 2)
End With
For i1 = 0 To Application.max(ISIMULS(1), ISIMULS(2), ISIMULS(3), ISIMULS(4), ISIMULS(5))
    ListBox61.Selected(i1) = False
    ListBox62.Selected(i1) = False
Next i1
For Each CTL In Me.Controls
    If TypeName(CTL) = "OptionButton" And Left(CTL.Name, 1) <> "R" Then
        CTL.Enabled = False
        CTL.Value = False
    End If
Next CTL

For i1 = 1 To 5
    IMPOST(i1) = False
    If MultiPage1.Value = i1 - 1 Then
        If i1 = 1 Then
            IMPOST(1) = True
            Caption = "Impost sobre la Renda de les Persones Físiques (IRPF)"
            ListBox_IRPF.List = AIRPF
        ElseIf i1 = 2 Then
            IMPOST(2) = True
            Caption = "Impost sobre Successions (IS)"
            ListBox_IS.List = AIS
        ElseIf i1 = 3 Then
            IMPOST(3) = True
            Caption = "Impost sobre Donacions (ID)"
            ListBox_ID.List = AID
        ElseIf i1 = 4 Then
            IMPOST(4) = True

```

```

Caption = "Transmissions patrimonials. Operacions societàries. Actes jurídics (ITPOOSAJD)"
ListBox_IT.List = AIT
ElseIf i1 = 5 Then
IMPOST(5) = True
Caption = "Impost sobre el Patrimoni de les Persones Físiques (IPPF)"
ListBox_IPPF.List = AIPPF
End If
End If
Next il

End Sub
Private Sub UserForm_Activate()

height1 = Me.Height
left1 = Me.Left
top1 = Me.Top
width1 = Me.Width
Zoom = IIf(XZOOM < 200, 100, IIf(Not XTEXT, 150, 100))

End Sub
Private Sub UserForm_QueryClose(Cancel As Integer, CloseMode As Integer)

If CloseMode = 0 Then SORTIR = True
Unload Me

End Sub
Private Sub UserForm_Zoom(Percent As Integer)

Me.Width = Me.Width * Percent / 100
Me.Height = Me.Height * Percent / 100
Me.Left = left1 - ((Me.Width - width1) / 2)

End Sub
Private Sub COMPTADOR1(opcio As Integer)

Dim i1 As Integer, i2 As Integer, i3 As Integer, j1 As Integer, nom As String

If ISIMULS(opcio) <> 0 Then
For j1 = 1 To ISIMULS(opcio)
If ListBox61.Selected(j1 - 1) Then ListBox61.Selected(j1 - 1) = False
If ListBox62.Selected(j1 - 1) Then ListBox62.Selected(j1 - 1) = False
Next j1
End If

If opcio = 1 Then nom = NOM_IRPF_SIMUL & "S" & ANOIRPF & "_"
If opcio = 2 Then nom = NOM_IS_SIMUL & "S" & ANOIS & "_"
If opcio = 3 Then nom = NOM_ID_SIMUL & "S" & ANOID & "_"
If opcio = 4 Then nom = NOM_IT_SIMUL & "S" & ANOIT & "_"
If opcio = 5 Then nom = NOM_IPPF_SIMUL & "S" & ANOIPPF & "_"

ISIMULS(opcio) = 0
For il = 1 To 100
If Dir(nom & Trim(Str(il)) & ".xlsx") <> "" Then ISIMULS(opcio) = ISIMULS(opcio) + 1
Next il
If ISIMULS(opcio) <> 0 Then
If opcio = 1 Then ReDim CIRPF(1 To ISIMULS(opcio))
If opcio = 2 Then ReDim CIS(1 To ISIMULS(opcio))
If opcio = 3 Then ReDim CID(1 To ISIMULS(opcio))
If opcio = 4 Then ReDim CIT(1 To ISIMULS(opcio))
If opcio = 5 Then ReDim CIPPF(1 To ISIMULS(opcio))
i2 = 1
il = 1
TORNA:
If Dir(nom & Trim(Str(il)) & ".xlsx") <> "" Then
If opcio = 1 Then CIRPF(i2) = il
If opcio = 2 Then CIS(i2) = il
If opcio = 3 Then CID(i2) = il
If opcio = 4 Then CIT(i2) = il
If opcio = 5 Then CIPPF(i2) = il
i2 = i2 + 1
End If
il = il + 1
If il <= 100 Or i2 < ISIMULS(opcio) Then GoTo TORNA
Else
If opcio = 1 Then ReDim CIRPF(0)
If opcio = 2 Then ReDim CIS(0)
If opcio = 3 Then ReDim CID(0)
If opcio = 4 Then ReDim CIT(0)
If opcio = 5 Then ReDim CIPPF(0)
End If

End Sub
Private Sub COMPTADOR2(opcio1 As String, opcio2 As Integer, s)

```

```
Dim i1 As Integer, i2 As Integer, i3 As Integer, nom As String
ReDim s(1 To ISIMULS(opcio2))

If opcio1 <> "Consulta" Then
    If opcio2 = 1 Then nom = NOM_IRPF_SIMUL & "S" & ANOIRPF & "_"
    If opcio2 = 2 Then nom = NOM_IS_SIMUL & "S" & ANOIS & "_"
    If opcio2 = 3 Then nom = NOM_ID_SIMUL & "S" & ANOID & "_"
    If opcio2 = 4 Then nom = NOM_IT_SIMUL & "S" & ANOIT & "_"
    If opcio2 = 5 Then nom = NOM_IPPF_SIMUL & "S" & ANOIPPF & "_"
End If

i2 = 0
i1 = ISIMULS(opcio2)
TORNA:
If opcio2 = 1 Then i3 = CIRPF(i1)
If opcio2 = 2 Then i3 = CIS(i1)
If opcio2 = 3 Then i3 = CID(i1)
If opcio2 = 4 Then i3 = CIT(i1)
If opcio2 = 5 Then i3 = CIPPF(i1)

If opcio1 <> "Consulta" Then
    If Dir(nom & Trim(Str(i3)) & ".xlsx") <> "" Then
        i2 = i2 + 1
        s(i2) = "Simulació " & i3
    End If
Else
    i2 = i2 + 1
    s(i2) = Trim(Str(i3))
End If
i1 = i1 - 1
If i2 < ISIMULS(opcio2) Then GoTo TORNA

End Sub
```

```

Attribute VB_Name = "IPPF"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PredeclaredId = True
Attribute VB_Exposed = False

Option Explicit
Dim height1 As Integer, left1 As Integer, top1 As Integer, width1 As Integer
Private Sub Aceptar_Click()

Dim i1 As Integer

ERR_LEC = False

If MultiPage1.Value = 0 Then

    ReDim BENS_E(1 To 22)
    For Each CTL In Frame11.Controls
        For i1 = 1 To 22
            If CTL.Name = "CheckBox11" & i1 Then
                If CTL.Value Then BENS_E(i1) = 1
            End If
        Next i1
    Next CTL
    If WorksheetFunction.Sum(BENS_E) = 22 Then
        ERR_LEC = True
        Me.Hide
        MsgBox "Com a mínim algún bé o dret ha de ser no exempt.", vbCritical, TITOL_IPPF
        Exit Sub
    End If

    ReDim MINIMS_E(1 To 22)
    For Each CTL In Frame13.Controls
        For i1 = 1 To 22
            If CTL.Name = "TextBox13" & i1 Then
                If Not IsNumeric(CTL.Value) Or (Val(CTL.Value) < 0 Or Val(CTL.Value) > 750000) Then
                    ERR_LEC = True
                    Me.Hide
                    MsgBox "Error en el mínim exempt de l'epígraf: '" & LVAR(i1) & "'. No pot ser negatiu ni superior a 750000€.", vbCritical, TITOL_IPPF
                    Exit Sub
                Else
                    MINIMS_E(i1) = Val(Replace(CTL.Value, ",", "."))
                End If
            End If
        Next i1
    Next CTL

    .....
    'Guarda els paràmetres del primer quadre
    .....

    ReDim PARMS(37, 7)
    PARMS(0, 0) = "Paràmetres"
    PARMS(0, 1) = IPPF_ANYREF
    For i1 = 1 To 22
        If BENS_E(i1) = 1 Then PARMS(i1, 1) = "x"
        PARMS(i1, 2) = MINIMS_E(i1)
    Next i1

ElseIf MultiPage1.Value = 1 Then

    If Not IsNumeric(TextBox21.Value) Or (Val(TextBox21.Value) < 0) Then
        ERR_LEC = True
        Me.Hide
        MsgBox "Error en la reducció general per obligació personal.", vbCritical, TITOL_IPPF
        Exit Sub
    Else
        REDUCCIO(1) = Val(Replace(TextBox21.Value, ",", "."))           'Reducció Obligació personal general
    End If
    If Not IsNumeric(TextBox22.Value) Or (Val(TextBox22.Value) < 0) Then
        ERR_LEC = True
        Me.Hide
        MsgBox "Error en la reducció per a discapacitats per obligació personal.", vbCritical, TITOL_IPPF
        Exit Sub
    Else
        REDUCCIO(2) = Val(Replace(TextBox22.Value, ",", "."))           'Reducció Obligació personal discapacitats
    End If

    NTRAMS = Val(ListBox22.Value)           'Trams i tipus impositius
    ReDim TIPUS(1 To NTRAMS), T(1 To NTRAMS)
    For i1 = 1 To NTRAMS

```

```

For Each CTL In Frame222.Controls
  If il <> NTRAMS Then
    If CTL.Name = "TextBox222" & il & "2" Then
      If Not IsNumeric(CTL.Value) Or Val(CTL.Value) <= 0 Then
        ERR_LEC = True
        Me.Hide
        MsgBox "Error en el TRAM " & il & ".", vbCritical, TITOL_IPPF
        Exit Sub
      Else
        T(il) = Val(Replace(CTL.Value, ",", "."))
      End If
    End If
  End If
  If CTL.Name = "TextBox222" & il & "3" Then
    If Not IsNumeric(CTL.Value) Or (Val(CTL.Value) < 0 Or Val(CTL.Value) >= 100) Then
      ERR_LEC = True
      Me.Hide
      MsgBox "Error en el tipus impositiu del TRAM " & il & ".", vbCritical, TITOL_IPPF
      Exit Sub
    Else
      TIPUS(il) = Val(Replace(CTL.Value, ",", ".")) / 100
    End If
  End If
Next CTL
If il <> 1 Then
  If il <> NTRAMS Then
    If T(il) <= T(il - 1) Then
      ERR_LEC = True
      Me.Hide
      MsgBox "Error en el TRAM " & il & ".", vbCritical, TITOL_IPPF
      Exit Sub
    End If
  End If
  If TIPUS(il) < TIPUS(il - 1) Then
    ERR_LEC = True
    Me.Hide
    MsgBox "Error en el tipus impositiu del TRAM " & il & ".", vbCritical, TITOL_IPPF
    Exit Sub
  End If
End If
Next il

ReDim LIMITS(1 To 2)          'Connexió IRPF
If CheckBox23.Value Then
  CONNEXIO_IRPF = True
  LIMITS(1) = Val(ListBox231.Value) / 100
  LIMITS(2) = Val(ListBox232.Value) / 100
Else
  CONNEXIO_IRPF = False
End If

PROJ(1) = 1 + (ListBox241.Value / 100) 'Coeficients de projecció
PROJ(2) = 1 + (ListBox242.Value / 100)
PROJ(3) = 1 + (ListBox243.Value / 100)

.....
'Guarda els paràmetres del segon quadre
.....

PARMS(23, 1) = REDUCCIO(1)
PARMS(23, 2) = REDUCCIO(2)

PARMS(0, 2) = NTRAMS
For il = 1 To NTRAMS
  If il = 1 Then
    PARMS(23 + il, 1) = "0"
    PARMS(23 + il, 2) = IIf(il <> NTRAMS, T(il), "i més")
    PARMS(23 + il, 3) = TIPUS(il) + 0.0000000001
  ElseIf il < NTRAMS Then
    PARMS(23 + il, 1) = T(il - 1)
    PARMS(23 + il, 2) = T(il)
    PARMS(23 + il, 3) = TIPUS(il) + 0.0000000001
  Else
    PARMS(23 + il, 1) = T(il - 1)
    PARMS(23 + il, 2) = "i més"
    PARMS(23 + il, 3) = TIPUS(il) + 0.0000000001
  End If
Next il

PARMS(0, 3) = CONNEXIO_IRPF
PARMS(36, 1) = LIMITS(1) + 0.0000000001
PARMS(36, 2) = LIMITS(2) + 0.0000000001

```

```
PARMS(37, 1) = PROJ(1)
PARMS(37, 2) = PROJ(2)
PARMS(37, 3) = PROJ(3)

End If

Unload Me

End Sub
Private Sub Anterior_Click()

PAGINA = PAGINA - 1

MultiPage1.Value = PAGINA
Me.Caption = "SIMCAT-IPPF: Determinació dels béns i drets exempts i dels mínims exempts (Base de dades: " &
ANOIPPF & ")"

NetejaValors.Value = False
Llei.Value = False
SimulRef.Value = False

For Each CTL In Frame11.Controls
    If PARMS(CTL.TabIndex + 1, 1) = "x" Then CTL.Value = True Else CTL.Value = False
Next CTL
For Each CTL In Frame13.Controls
    CTL.Value = PARMS(CTL.TabIndex + 1, 2)
Next CTL

End Sub
Private Sub Cancelar_Click()

SORTIR = True
IMPOST(5) = True
Unload Me

End Sub
Private Sub CheckBox111_Click()

If CheckBox111.Value Then
    Label121.Enabled = False
    Label141.Enabled = False
    TextBox131.Enabled = False
    TextBox131.Value = "0"
Else
    Label121.Enabled = True
    Label141.Enabled = True
    TextBox131.Enabled = True
    TextBox131.Value = IPPF_ME(1)
End If

End Sub
Private Sub CheckBox112_Click()

If CheckBox112.Value Then
    Label122.Enabled = False
    Label142.Enabled = False
    TextBox132.Enabled = False
    TextBox132.Value = "0"
Else
    Label122.Enabled = True
    Label142.Enabled = True
    TextBox132.Enabled = True
    TextBox132.Value = "0"
End If

End Sub
Private Sub CheckBox113_Click()

If CheckBox113.Value Then
    Label123.Enabled = False
    Label143.Enabled = False
    TextBox133.Enabled = False
    TextBox133.Value = "0"
Else
    Label123.Enabled = True
    Label143.Enabled = True
    TextBox133.Enabled = True
    TextBox133.Value = "0"
End If

End Sub
Private Sub CheckBox114_Click()
```

```
If CheckBox114.Value Then
    Label1124.Enabled = False
    Label1144.Enabled = False
    TextBox134.Enabled = False
    TextBox134.Value = "0"
Else
    Label1124.Enabled = True
    Label1144.Enabled = True
    TextBox134.Enabled = True
    TextBox134.Value = "0"
End If

End Sub
Private Sub CheckBox115_Click()

If CheckBox115.Value Then
    Label1125.Enabled = False
    Label1145.Enabled = False
    TextBox135.Enabled = False
    TextBox135.Value = "0"
Else
    Label1125.Enabled = True
    Label1145.Enabled = True
    TextBox135.Enabled = True
    TextBox135.Value = "0"
End If

End Sub
Private Sub CheckBox116_Click()

If CheckBox116.Value Then
    Label1126.Enabled = False
    Label1146.Enabled = False
    TextBox136.Enabled = False
    TextBox136.Value = "0"
Else
    Label1126.Enabled = True
    Label1146.Enabled = True
    TextBox136.Enabled = True
    TextBox136.Value = "0"
End If

End Sub
Private Sub CheckBox117_Click()

If CheckBox117.Value Then
    Label1127.Enabled = False
    Label1147.Enabled = False
    TextBox137.Enabled = False
    TextBox137.Value = "0"
Else
    Label1127.Enabled = True
    Label1147.Enabled = True
    TextBox137.Enabled = True
    TextBox137.Value = "0"
End If

End Sub
Private Sub CheckBox118_Click()

If CheckBox118.Value Then
    Label1128.Enabled = False
    Label1148.Enabled = False
    TextBox138.Enabled = False
    TextBox138.Value = "0"
Else
    Label1128.Enabled = True
    Label1148.Enabled = True
    TextBox138.Enabled = True
    TextBox138.Value = "0"
End If

End Sub
Private Sub CheckBox119_Click()

If CheckBox119.Value Then
    Label1129.Enabled = False
    Label1149.Enabled = False
    TextBox139.Enabled = False
    TextBox139.Value = "0"
Else
    Label1129.Enabled = True
    Label1149.Enabled = True
```

```
        TextBox139.Enabled = True
        TextBox139.Value = "0"
    End If

End Sub
Private Sub CheckBox1110_Click()

    If CheckBox1110.Value Then
        Label11210.Enabled = False
        Label11410.Enabled = False
        TextBox1310.Enabled = False
        TextBox1310.Value = "0"
    Else
        Label11210.Enabled = True
        Label11410.Enabled = True
        TextBox1310.Enabled = True
        TextBox1310.Value = "0"
    End If

End Sub
Private Sub CheckBox1111_Click()

    If CheckBox1111.Value Then
        Label11211.Enabled = False
        Label11411.Enabled = False
        TextBox1311.Enabled = False
        TextBox1311.Value = "0"
    Else
        Label11211.Enabled = True
        Label11411.Enabled = True
        TextBox1311.Enabled = True
        TextBox1311.Value = "0"
    End If

End Sub
Private Sub CheckBox1112_Click()

    If CheckBox1112.Value Then
        Label11212.Enabled = False
        Label11412.Enabled = False
        TextBox1312.Enabled = False
        TextBox1312.Value = "0"
    Else
        Label11212.Enabled = True
        Label11412.Enabled = True
        TextBox1312.Enabled = True
        TextBox1312.Value = "0"
    End If

End Sub
Private Sub CheckBox1113_Click()

    If CheckBox1113.Value Then
        Label11213.Enabled = False
        Label11413.Enabled = False
        TextBox1313.Enabled = False
        TextBox1313.Value = "0"
    Else
        Label11213.Enabled = True
        Label11413.Enabled = True
        TextBox1313.Enabled = True
        TextBox1313.Value = "0"
    End If

End Sub
Private Sub CheckBox1114_Click()

    If CheckBox1114.Value Then
        Label11214.Enabled = False
        Label11414.Enabled = False
        TextBox1314.Enabled = False
        TextBox1314.Value = "0"
    Else
        Label11214.Enabled = True
        Label11414.Enabled = True
        TextBox1314.Enabled = True
        TextBox1314.Value = "0"
    End If

End Sub
Private Sub CheckBox1115_Click()

    If CheckBox1115.Value Then
```

```
Label1215.Enabled = False
Label1415.Enabled = False
TextBox1315.Enabled = False
TextBox1315.Value = "0"
Else
Label1215.Enabled = True
Label1415.Enabled = True
TextBox1315.Enabled = True
TextBox1315.Value = "0"
End If

End Sub
Private Sub CheckBox1116_Click()

If CheckBox1116.Value Then
Label1216.Enabled = False
Label1416.Enabled = False
TextBox1316.Enabled = False
TextBox1316.Value = "0"
Else
Label1216.Enabled = True
Label1416.Enabled = True
TextBox1316.Enabled = True
TextBox1316.Value = "0"
End If

End Sub
Private Sub CheckBox1117_Click()

If CheckBox1117.Value Then
Label1217.Enabled = False
Label1417.Enabled = False
TextBox1317.Enabled = False
TextBox1317.Value = "0"
Else
Label1217.Enabled = True
Label1417.Enabled = True
TextBox1317.Enabled = True
TextBox1317.Value = "0"
End If

End Sub
Private Sub CheckBox1118_Click()

If CheckBox1118.Value Then
Label1218.Enabled = False
Label1418.Enabled = False
TextBox1318.Enabled = False
TextBox1318.Value = "0"
Else
Label1218.Enabled = True
Label1418.Enabled = True
TextBox1318.Enabled = True
TextBox1318.Value = "0"
End If

End Sub
Private Sub CheckBox1119_Click()

If CheckBox1119.Value Then
Label1219.Enabled = False
Label1419.Enabled = False
TextBox1319.Enabled = False
TextBox1319.Value = "0"
Else
Label1219.Enabled = True
Label1419.Enabled = True
TextBox1319.Enabled = True
TextBox1319.Value = "0"
End If

End Sub
Private Sub CheckBox1120_Click()

If CheckBox1120.Value Then
Label1220.Enabled = False
Label1420.Enabled = False
TextBox1320.Enabled = False
TextBox1320.Value = "0"
Else
Label1220.Enabled = True
Label1420.Enabled = True
TextBox1320.Enabled = True
```

```
    TextBox1320.Value = "0"
End If

End Sub
Private Sub CheckBox1121_Click()

If CheckBox1121.Value Then
    Label11221.Enabled = False
    Label11421.Enabled = False
    TextBox1321.Enabled = False
    TextBox1321.Value = "0"
Else
    Label11221.Enabled = True
    Label11421.Enabled = True
    TextBox1321.Enabled = True
    TextBox1321.Value = "0"
End If

End Sub
Private Sub CheckBox1122_Click()

If CheckBox1122.Value Then
    Label11222.Enabled = False
    Label11422.Enabled = False
    TextBox1322.Enabled = False
    TextBox1322.Value = "0"
Else
    Label11222.Enabled = True
    Label11422.Enabled = True
    TextBox1322.Enabled = True
    TextBox1322.Value = "0"
End If

End Sub
Private Sub CheckBox23_Click()

If CheckBox23.Value Then
    Frame23.Height = 75
Else
    Frame23.Height = 30
    ListBox231.Selected(3) = True
    ListBox231.TopIndex = 3
    ListBox232.Selected(1) = True
    ListBox232.TopIndex = 1
End If

End Sub
Private Sub ListBox22_Click()

Dim il As Integer

NTRAMS = Val(ListBox22.Value)
For Each CTL In Frame221.Controls
    If CTL.TabIndex <= NTRAMS - 1 Then CTL.Enabled = True Else CTL.Enabled = False
Next CTL
For Each CTL In Frame222.Controls
    CTL.Enabled = False
    CTL.Value = ""
    For il = 0 To NTRAMS - 1
        If CTL.TabIndex = 3 * il + 1 Or CTL.TabIndex = 3 * il + 2 Then CTL.Enabled = True
    Next il
    If CTL.Name = "TextBox222" & NTRAMS & "2" Then
        CTL.Enabled = False
        CTL.Value = "En endavant"
    End If
Next CTL
For Each CTL In Frame223.Controls
    If CTL.TabIndex <= NTRAMS - 1 Then CTL.Enabled = True Else CTL.Enabled = False
Next CTL
TextBox22211.Value = "0"

End Sub
Private Sub ListBox_Simulref_Click()

Dim il As Integer, nsim As Integer, p(37, 9)

For il = 0 To ISIMULS(5) - 1
    If ListBox_SimulRef.Selected(il) = True Then
        nsim = ListBox_SimulRef.Value
        Exit For
    End If
Next il
```

```

Call COMUNS_1REFERENCIA_SIMULS("IPPF", nsim, p)

If MultiPage1.Value = 0 Then

For Each CTL In Frame11.Controls
    If p(CTL.TabIndex + 1, 1) = "x" Then CTL.Value = True Else CTL.Value = False
Next CTL
For Each CTL In Frame13.Controls
    CTL.Value = p(CTL.TabIndex + 1, 2)
Next CTL

ElseIf MultiPage1.Value = 1 Then

    TextBox21.Value = p(23, 1)
    TextBox22.Value = p(23, 2)

    ListBox22.Selected(12 - p(0, 2)) = True
    For Each CTL In Frame222.Controls
        For il = 1 To p(0, 2)
            If il <> p(0, 2) And CTL.Name = "TextBox222" & il & "2" Then CTL.Text = Round(p(23 + il, 2), 2)
            If CTL.Name = "TextBox222" & il & "3" Then CTL.Text = Format(p(23 + il, 3) * 100, "#0.000")
        Next il
    Next CTL

    If p(0, 3) Then
        CheckBox23.Value = True
        ListBox231.Selected(9 - Int(p(36, 1) * 10)) = True
        ListBox232.Selected(9 - Int(p(36, 2) * 10)) = True
    Else
        CheckBox23.Value = False
    End If
    ListBox241.Selected(150 - ((p(37, 1) - 1) * 1000)) = True
    ListBox242.Selected(150 - ((p(37, 2) - 1) * 1000)) = True
    ListBox243.Selected(150 - ((p(37, 3) - 1) * 1000)) = True

End If

End Sub
Private Sub Llei_Click()

Dim il As Integer

If MultiPage1.Value = 0 Then

    For Each CTL In Frame11.Controls
        If CTL.TabIndex = 3 Or CTL.TabIndex = 11 Or CTL.TabIndex = 12 Then
            CTL.Value = True
        Else
            CTL.Value = False
        End If
    Next CTL
    For Each CTL In Frame13.Controls
        CTL.Value = "0"
    Next CTL
    TextBox131.Value = IPPF_ME(1)

ElseIf MultiPage1.Value = 1 Then

    TextBox21.Value = IPPF_OP(1)
    TextBox22.Value = IPPF_OP(2)

    ListBox22.Selected(12 - IPPF_NTRAMS) = True
    For Each CTL In Frame222.Controls
        For il = 1 To IPPF_NTRAMS
            If il <> IPPF_NTRAMS And CTL.Name = "TextBox222" & il & "2" Then CTL.Text = IPPF_TRAMS(il)
            If CTL.Name = "TextBox222" & il & "3" Then CTL.Text = Format(IPPF_TIPUS(il) * 100, "#0.000")
        Next il
    Next CTL

    CheckBox23.Value = True
    ListBox231.Selected(3) = True
    ListBox232.Selected(1) = True

    ListBox241.Selected(150) = True
    ListBox242.Selected(150) = True
    ListBox243.Selected(150) = True

End If

End Sub
Private Sub MultiPage1_Layout(ByVal Index As Long)

If MultiPage1.Value = 0 Then

```

```
Aceptar.Left = 240
Anterior.Visible = False
Cancelar.Left = 288

ElseIf MultiPage1.Value = 1 Then

    Aceptar.Left = 263
    Anterior.Visible = True
    Cancelar.Left = 311

End If

End Sub
Private Sub NetejaValors_Click()

If MultiPage1.Value = 0 Then

    For Each CTL In Frame11.Controls
        CTL.Value = False
    Next CTL
    For Each CTL In Frame13.Controls
        CTL.Value = "0"
    Next CTL

ElseIf MultiPage1.Value = 1 Then

    TextBox21.Value = "0"
    TextBox22.Value = "0"
    ListBox22.Selected(11) = True
    TextBox22211.Value = "0"
    TextBox22212.Value = "En endavant"
    TextBox22213.Value = "1"
    CheckBox23.Value = False
    ListBox231.Selected(3) = True
    ListBox231.TopIndex = 3
    ListBox232.Selected(1) = True
    ListBox232.TopIndex = 1
    ListBox241.Selected(150) = True
    ListBox241.TopIndex = 150
    ListBox242.Selected(150) = True
    ListBox242.TopIndex = 150
    ListBox243.Selected(150) = True
    ListBox243.TopIndex = 150

End If

End Sub
Private Sub SimulRef_Change()

Dim i1 As Integer

If SimulRef Then
    Frame02.Width = 190
    For i1 = 0 To ISIMULS(5) - 1
        ListBox_SimulRef.Selected(i1) = False
    Next i1
Else
    Frame02.Width = 150
    ListBox_SimulRef.TopIndex = 0
End If

End Sub
Private Sub TextBox22212_Change()

If IsNumeric(TextBox22212.Value) Then TextBox22221.Value = TextBox22212.Value

End Sub
Private Sub TextBox22222_Change()

If IsNumeric(TextBox22222.Value) Then TextBox22231.Value = TextBox22222.Value

End Sub
Private Sub TextBox22232_Change()

If IsNumeric(TextBox22232.Value) Then TextBox22241.Value = TextBox22232.Value

End Sub
Private Sub TextBox22242_Change()

If IsNumeric(TextBox22242.Value) Then TextBox22251.Value = TextBox22242.Value

End Sub
Private Sub TextBox22252_Change()
```

```

If IsNumeric(TextBox22252.Value) Then TextBox22261.Value = TextBox22252.Value

End Sub
Private Sub TextBox22262_Change()

If IsNumeric(TextBox22262.Value) Then TextBox22271.Value = TextBox22262.Value

End Sub
Private Sub TextBox22272_Change()

If IsNumeric(TextBox22272.Value) Then TextBox22281.Value = TextBox22272.Value

End Sub
Private Sub TextBox22282_Change()

If IsNumeric(TextBox22282.Value) Then TextBox22291.Value = TextBox22282.Value

End Sub
Private Sub TextBox22292_Change()

If IsNumeric(TextBox22292.Value) Then TextBox222101.Value = TextBox22292.Value

End Sub
Private Sub TextBox222102_Change()

If IsNumeric(TextBox222102.Value) Then TextBox222111.Value = TextBox222102.Value

End Sub
Private Sub TextBox222112_Change()

If IsNumeric(TextBox222112.Value) Then TextBox222121.Value = TextBox222112.Value

End Sub
Private Sub UserForm_Activate()

height1 = Me.Height
left1 = Me.Left
top1 = Me.Top
width1 = Me.Width
Zoom = IIf(XZOOM < 200, 100, IIf(Not XTEXT, 150, 100))
If ISIMULS(5) <> 0 Then Frame02.Width = 150 Else Frame02.Width = 104

End Sub
Private Sub UserForm_QueryClose(Cancel As Integer, CloseMode As Integer)

If CloseMode = 0 Then SORTIR = True
Unload Me

End Sub
Private Sub UserForm_Zoom(Percent As Integer)

Me.Width = Me.Width * Percent / 100
Me.Height = Me.Height * Percent / 100
Me.Left = left1 - ((Me.Width - width1) / 2)
Me.Top = top1 - ((Me.Width - width1) / 2)

End Sub

```

```

Attribute VB_Name = "IRPF"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PredeclaredId = True
Attribute VB_Exposed = False

Option Explicit
Dim height1 As Integer, left1 As Integer, top1 As Integer, width1 As Integer
Private Sub Aceptar_Click()

Dim i1 As Integer, i2 As Integer, j1 As Integer, c(1 To 2) As Controls

ERR_LEC = False

If MultiPage1.Value = 0 Then

    ReDim MPF(11, 2)                                     'Mínims personals
    If CheckBox11.Value Then
        MPF(0, 0) = 1

        For Each CTL In Frame112.Controls
            For i1 = 1 To 11
                For j1 = 1 To 2
                    If CTL.Name = "TextBox112" & i1 & j1 Then
                        If Not IsNumeric(CTL.Value) Or Val(CTL.Value) < 0 Then
                            ERR_LEC = True
                            Me.Hide
                            MsgBox "Error en el MPF " & i1 & IIf(j1 = 1, "Estat", "Catalunya") & ".", vbCritical,
TITOL_IRPF
                                Exit Sub
                            Else
                                MPF(i1, j1) = Val(CTL.Value)
                            End If
                        End If
                    Next j1
                Next i1
            Next CTL
        For i1 = 1 To 11
            MPF(i1, 2) = MPF(i1, 1) + MPF(i1, 2)
            If MPF(i1, 1) / MPF(i1, 2) > 1.2 Or MPF(i1, 1) / MPF(i1, 2) < 0.8 Then
                ERR_LEC = True
                Me.Hide
                MsgBox "El MPF de Catalunya no pot ser ni superior ni inferior en un 20% del de l'Estat.",
vbCritical, TITOL_IRPF
                    Me.NetejaValors = True
                    Me.Llei = True
                Exit Sub
            End If
        Next i1
    End If

    ReDim RTC(2)                                         'Tributació conjunta
    If CheckBox12.Value Then
        RTC(0) = 1

        If Not IsNumeric(TextBox121.Value) Or Val(TextBox121.Value) < 0 Then
            ERR_LEC = True
            Me.Hide
            MsgBox "Error en la reducció per tributació conjunta (matrimoni o parella de fet)", vbCritical,
TITOL_IRPF
                Exit Sub
            Else
                RTC(1) = Val(TextBox121.Value)
            End If
        If Not IsNumeric(TextBox122.Value) Or Val(TextBox122.Value) < 0 Then
            ERR_LEC = True
            Me.Hide
            MsgBox "Error en la reducció per tributació conjunta (separació legal)", vbCritical, TITOL_IRPF
                Exit Sub
            Else
                RTC(2) = Val(TextBox122.Value)
            End If
        End If

    ReDim RT(4, 4)                                       'Reduccions Rendiments Treball personal
    If CheckBox13.Value Then
        RT(0, 0) = 1

        If (Not IsNumeric(TextBox13112.Value) Or Val(TextBox13112.Value) < 0) Or _
            (Not IsNumeric(TextBox13113.Value) Or Val(TextBox13113.Value) < 0) Or _
            (Not IsNumeric(TextBox13122.Value) Or Val(TextBox13122.Value) < 0) Or _
            (Not IsNumeric(TextBox13133.Value) Or Val(TextBox13133.Value) < 0) Then

```

```

ERR_LEC = True
Me.Hide
MsgBox "Algun import de la reducció per percepció del treball personal és incorrecte.", vbCritical,
TITOL_IRPF
Exit Sub
Else
If Val(TextBox13122.Value) < Val(TextBox13112.Value) Then
ERR_LEC = True
Me.Hide
MsgBox "En la reducció per percepció del treball personal, el límit màxim del 1er. tram " & _
"no pot ser superior al límit màxim del 2on. tram.", vbCritical, TITOL_IRPF
Exit Sub
End If
If Val(TextBox13113.Value) < Val(TextBox13133.Value) Then
ERR_LEC = True
Me.Hide
MsgBox "En la reducció per percepció del treball personal, la reducció de l'últim tram " & _
"no pot ser superior a la dels altres trams inferiors.", vbCritical, TITOL_IRPF
Exit Sub
End If
RT(1, 2) = Val(TextBox13112.Value)
RT(1, 3) = Val(TextBox13113.Value)
RT(2, 2) = Val(TextBox13122.Value)
RT(3, 3) = Val(TextBox13133.Value)
End If

If (Not IsNumeric(TextBox1321.Value) Or Val(TextBox1321.Value) < 0) Or _
(Not IsNumeric(TextBox1322.Value) Or Val(TextBox1322.Value) < 0) Then
ERR_LEC = True
Me.Hide
MsgBox "Error en la reducció per percepció del treball personal per a discapacitats.", vbCritical,
TITOL_IRPF
Exit Sub
Else
RT(4, 1) = Val(TextBox1321.Value)
RT(4, 2) = Val(TextBox1322.Value)
End If
If RT(4, 1) > RT(4, 2) Then
ERR_LEC = True
Me.Hide
MsgBox "Error en la reducció per percepció del treball personal per a discapacitats.", vbCritical,
TITOL_IRPF
Exit Sub
End If

End If

ReDim RPP(4) 'Reduccions Plans Pensions
If CheckBox14.Value Then
RPP(0) = 1

If (Not IsNumeric(TextBox141.Value) Or Val(TextBox141.Value) < 0) Or _
(Not IsNumeric(TextBox142.Value) Or Val(TextBox142.Value) < 0) Or _
(Not IsNumeric(TextBox143.Value) Or Val(TextBox143.Value) < 0) Or _
(Not IsNumeric(TextBox144.Value) Or Val(TextBox144.Value) < 0) Then
ERR_LEC = True
Me.Hide
MsgBox "Error en la reducció per plans de pensions.", vbCritical, TITOL_IRPF
Exit Sub
Else
RPP(1) = Val(TextBox141.Value)
RPP(2) = Val(TextBox142.Value)
RPP(3) = Val(TextBox143.Value)
RPP(4) = Val(TextBox144.Value)
End If

If RPP(1) > IRPF_RED_PP(1) Then
ERR_LEC = True
Me.Hide
MsgBox "En les aportacions a plans de pensions, el límit general " & _
"no pot ser superior a " & IRPF_RED_PP(1) & ".", vbCritical, TITOL_IRPF
Exit Sub
End If
If RPP(2) > IRPF_RED_PP(2) Then
ERR_LEC = True
Me.Hide
MsgBox "En les aportacions a plans de pensions, el límit per a declarants més grans de 50 anys " & _
"no pot ser superior a " & IRPF_RED_PP(2) & ".", vbCritical, TITOL_IRPF
Exit Sub
End If
If RPP(3) > IRPF_RED_PP(3) Then
ERR_LEC = True
Me.Hide

```

```

MsgBox "En les aportacions a plans de pensions, el límit per a cònjuges no pot ser superior a " & _
IRPF_RED_PP(3) & ".", vbCritical, TITOL_IRPF
Exit Sub
End If
If RPP(4) > IRPF_RED_PP(4) Then
ERR_LEC = True
Me.Hide
MsgBox "En les aportacions a plans de pensions, el límit per a discapacitats i esportistes professionals
" & _
"no pot ser superior a " & IRPF_RED_PP(4) & ".", vbCritical, TITOL_IRPF
Exit Sub
End If

End If

'.....
'Guarda els paràmetres del primer quadre a PARMS'
'.....

ReDim PARMS(53, 18)
PARMS(0, 0) = "Paràmetres"
PARMS(0, 1) = IRPF_ANYREF

PARMS(0, 2) = MPF(0, 0)
If MPF(0, 0) = 1 Then
For il = 1 To 11
PARMS(1, il) = MPF(il, 1)
PARMS(2, il) = MPF(il, 2)
Next il
End If

PARMS(0, 3) = RTC(0)
If RTC(0) = 1 Then
PARMS(3, 1) = RTC(1)
PARMS(3, 2) = RTC(2)
End If

PARMS(0, 4) = RT(0, 0)
If RT(0, 0) = 1 Then
PARMS(4, 1) = "0"
PARMS(4, 2) = RT(1, 2)
PARMS(4, 3) = RT(1, 3)
PARMS(5, 1) = PARMS(4, 2)
PARMS(5, 2) = RT(2, 2)
PARMS(5, 3) = PARMS(4, 3)
PARMS(6, 1) = PARMS(5, 2)
PARMS(6, 2) = "i més"
PARMS(6, 3) = RT(3, 3)
PARMS(7, 1) = RT(4, 1)
PARMS(7, 2) = RT(4, 2)
End If

PARMS(0, 5) = RPP(0)
If RPP(0) = 1 Then
PARMS(8, 1) = RPP(1)
PARMS(8, 2) = RPP(2)
PARMS(8, 3) = RPP(3)
PARMS(8, 4) = RPP(4)
End If

'.....
'ULL QUE AIXÒ S'ESCRIU ABANS D'ESCRIURE ELS ALTRES PARÀMETRES PERÒ VA AL FINAL
'.....

If TotsSi.Value Then DECL_NOMBRE = "TOTS" Else DECL_NOMBRE = "OBLIGATS"
PARMS(0, 17) = DECL_NOMBRE
PARMS(0, 18) = ANY_PROJ
For il = 1 To 5
PARMS(48 + il, 1) = PROJ(il)
Next il

ElseIf MultiPagel.Value = 1 Then 'Tarifa

Dim auxntrams As Integer
Set c(1) = Frame212.Controls
Set c(2) = Frame222.Controls

NTRAMSG(1) = ListBox21.Value
NTRAMSG(2) = ListBox22.Value
auxntrams = Application.max(NTRAMSG(1), NTRAMSG(2))
ReDim TIPUSG(1 To auxntrams, 1 To 2), T(1 To auxntrams, 1 To 2) 'Trams i tipus base general
For il = 1 To 2
For i2 = 1 To NTRAMSG(il)

```

```

For Each CTL In c(i1)
  If i2 <> NTRAMSG(i1) Then
    If CTL.Name = "TextBox2" & i1 & "2" & i2 & "2" Then
      If Not IsNumeric(CTL.Value) Or Val(CTL.Value) <= 0 Then
        ERR_LEC = True
        Me.Hide
        MsgBox "Error en el TRAM " & i2 & " de la base general " & _
          IIf(i1 = 1, "estatal", "autonòmica") & ".", vbCritical, TITOL_IRPF
        Exit Sub
      Else
        T(i2, i1) = Val(Replace(CTL.Value, ",", "."))
      End If
    End If
  End If
  If CTL.Name = "TextBox2" & i1 & "2" & i2 & "3" Then
    CTL.Value = Replace(CTL.Value, ",", ".")
    If Not IsNumeric(CTL.Value) Or (Val(CTL.Value) < 0 Or Val(CTL.Value) >= 100) Then
      ERR_LEC = True
      Me.Hide
      MsgBox "Error en el tipus impositiu del TRAM " & i2 & _
        " de la base general " & IIf(i1 = 1, "estatal", "autonòmica") & ".", vbCritical,
TITOL_IRPF
      Exit Sub
    Else
      TIPUSG(i2, i1) = Val(CTL.Value) / 100
    End If
  End If
Next CTL
If i2 <> 1 Then
  If i2 <> NTRAMSG(i1) Then
    If T(i2, i1) <= T(i2 - 1, i1) Then
      ERR_LEC = True
      Me.Hide
      MsgBox "Error en el TRAM " & i2 & " de la base general " & _
        IIf(i1 = 1, "estatal", "autonòmica") & ".", vbCritical, TITOL_IRPF
      Exit Sub
    End If
  End If
  If TIPUSG(i2, i1) < TIPUSG(i2 - 1, i1) Then
    ERR_LEC = True
    Me.Hide
    MsgBox "Error en el tipus impositiu del TRAM " & i2 & " de la base general " & _
      IIf(i1 = 1, "estatal", "autonòmica") & ".", vbCritical, TITOL_IRPF
    Exit Sub
  End If
End If
Next i2
Next i1

NTRAMSE = ListBox23.Value
ReDim TIPUSE(1 To NTRAMSE, 1 To 2), TE(1 To NTRAMSE, 1 To 2) 'Trams i tipus base general
For il = 1 To NTRAMSE
  For Each CTL In Frame232.Controls
    If il <> NTRAMSE Then
      If CTL.Name = "TextBox232" & il & "2" Then
        If Not IsNumeric(CTL.Value) Or Val(CTL.Value) <= 0 Then
          ERR_LEC = True
          Me.Hide
          MsgBox "Error en el TRAM " & il & " de la base de l'estalvi.", vbCritical, TITOL_IRPF
          Exit Sub
        Else
          TE(il, 1) = Val(Replace(CTL.Value, ",", "."))
        End If
      End If
    End If
  End If
  For i2 = 1 To 2
    If CTL.Name = "TextBox232" & il & IIf(i2 = 1, 3, 4) Then
      CTL.Value = Replace(CTL.Value, ",", ".")
      If Not IsNumeric(CTL.Value) Or (Val(CTL.Value) < 0 Or Val(CTL.Value) >= 100) Then
        ERR_LEC = True
        Me.Hide
        MsgBox "Error en el tipus " & IIf(i2 = 1, "estatal", "autonòmic") & _
          " del TRAM " & il & " de la base de l'estalvi.", vbCritical, TITOL_IRPF
        Exit Sub
      Else
        TIPUSE(il, i2) = Val(CTL.Value) / 100
      End If
    End If
  Next i2
Next CTL
If il <> 1 Then
  If il <> NTRAMSE Then
    If TE(il, 1) <= TE(il - 1, 1) Then

```

```

ERR_LEC = True
Me.Hide
MsgBox "Error en el TRAM " & i1 & " de la base de l'estalvi.", vbCritical, TITOL_IRPF
Exit Sub
End If
End If
For i2 = 1 To 2
If TIPUSE(i1, i2) < TIPUSE(i1 - 1, i2) Then
ERR_LEC = True
Me.Hide
MsgBox "Error en el tipus " & IIf(i2 = 1, "estatal", "autonòmic") & _
" del TRAM " & i1 & " de la base de l'estalvi.", vbCritical, TITOL_IRPF
Exit Sub
End If
Next i2
End If
TE(i1, 2) = TE(i1, 1)
Next i1

If Not IsNumeric(TextBox231.Value) Or (Val(TextBox231.Value) < 0 Or Val(TextBox231.Value) > 6000) Then
ERR_LEC = True
Me.Hide
MsgBox "Error en la reducció per dividendes de la base de l'estalvi: ha de ser positiva i inferior a 6.000
€.", vbCritical, TITOL_IRPF
Exit Sub
Else
RDIVE = Val(TextBox231.Value)
End If
If Not IsNumeric(TextBox232.Value) Or (Val(TextBox232.Value) < 0 Or Val(TextBox232.Value) > 9000) Then
ERR_LEC = True
Me.Hide
MsgBox "Error en el mínim exempt de la base de l'estalvi: ha de ser positiu i inferior a 9.000 €.",
vbCritical, TITOL_IRPF
Exit Sub
Else
MINIM_EXEMPTE = Val(TextBox232.Value)
End If

.....
'Guarda els paràmetres del segon quadre a PARMS'
.....

PARMS(0, 6) = NTRAMSG(1)
For i1 = 1 To NTRAMSG(1)
If i1 = 1 Then
PARMS(8 + i1, 1) = "0"
PARMS(8 + i1, 2) = IIf(i1 <> NTRAMSG(1), T(i1, 1), "i més")
PARMS(8 + i1, 3) = TIPUSG(i1, 1) + 0.0000000001
ElseIf i1 < NTRAMSG(1) Then
PARMS(8 + i1, 1) = T(i1 - 1, 1)
PARMS(8 + i1, 2) = T(i1, 1)
PARMS(8 + i1, 3) = TIPUSG(i1, 1) + 0.0000000001
Else
PARMS(8 + i1, 1) = T(i1 - 1, 1)
PARMS(8 + i1, 2) = "i més"
PARMS(8 + i1, 3) = TIPUSG(i1, 1) + 0.0000000001
End If
Next i1

PARMS(0, 7) = NTRAMSG(2)
For i1 = 1 To NTRAMSG(2)
If i1 = 1 Then
PARMS(8 + i1, 4) = "0"
PARMS(8 + i1, 5) = IIf(i1 <> NTRAMSG(2), T(i1, 2), "i més")
PARMS(8 + i1, 6) = TIPUSG(i1, 2) + 0.0000000001
ElseIf i1 < NTRAMSG(2) Then
PARMS(8 + i1, 4) = T(i1 - 1, 2)
PARMS(8 + i1, 5) = T(i1, 2)
PARMS(8 + i1, 6) = TIPUSG(i1, 2) + 0.0000000001
Else
PARMS(8 + i1, 4) = T(i1 - 1, 2)
PARMS(8 + i1, 5) = "i més"
PARMS(8 + i1, 6) = TIPUSG(i1, 2) + 0.0000000001
End If
Next i1

PARMS(0, 8) = NTRAMSE
For i1 = 1 To NTRAMSE
If i1 = 1 Then
PARMS(18 + i1, 1) = "0"
PARMS(18 + i1, 2) = IIf(i1 <> NTRAMSE, TE(i1, 1), "i més")
PARMS(18 + i1, 3) = TIPUSE(i1, 1) + 0.0000000001
PARMS(18 + i1, 4) = TIPUSE(i1, 2) + 0.0000000001

```

```

ElseIf i1 < NTRAMSE Then
  PARS(18 + i1, 1) = TE(i1 - 1, 1)
  PARS(18 + i1, 2) = TE(i1, 1)
  PARS(18 + i1, 3) = TIPUSE(i1, 1) + 0.0000000001
  PARS(18 + i1, 4) = TIPUSE(i1, 2) + 0.0000000001
Else
  PARS(18 + i1, 1) = TE(i1 - 1, 1)
  PARS(18 + i1, 2) = "i més"
  PARS(18 + i1, 3) = TIPUSE(i1, 1) + 0.0000000001
  PARS(18 + i1, 4) = TIPUSE(i1, 2) + 0.0000000001
End If
Next i1

PARS(25, 1) = RDIVE
PARS(25, 2) = MINIM_EXEMPT

ElseIf MultiPagel.Value = 2 Then 'Deduccions generals

  ReDim DED(UBound(IRPF_DED)), DEDV(1 To 4, 1 To 4)
  If CheckBox31.Value Then
    DED(0) = 1

    If CheckBox311.Value Then 'Habitatge habitual

      DED(1) = 1
      If Not IsNumeric(TextBox31211.Value) Or Val(TextBox31211.Value) < 0 Or Val(TextBox31211.Value) >
IRPF_DEDV(1, 1) Then
        ERR_LEC = True
        Me.Hide
        MsgBox "Error en la base màxima de la deducció estatal per habitatge habitual.", vbCritical,
TITOL_IRPF
        Exit Sub
      Else
        DEDV(1, 1) = Val(TextBox31211.Value)
      End If
      If Not IsNumeric(TextBox31212.Value) Or Val(TextBox31212.Value) < 0 Or Val(TextBox31212.Value) > 100
Then
        ERR_LEC = True
        Me.Hide
        MsgBox "Error en el % general de la deducció estatal per habitatge habitual.", vbCritical,
TITOL_IRPF
        Exit Sub
      Else
        DEDV(1, 2) = Val(Replace(TextBox31212.Value, ",", ".")) / 100
      End If
      If Not IsNumeric(TextBox31213.Value) Or Val(TextBox31213.Value) < 0 Or Val(TextBox31213.Value) > 100
Then
        ERR_LEC = True
        Me.Hide
        MsgBox "Error en el % general de la deducció autonòmica per habitatge habitual.", vbCritical,
TITOL_IRPF
        Exit Sub
      Else
        DEDV(1, 3) = Val(Replace(TextBox31213.Value, ",", ".")) / 100
      End If
      If Not IsNumeric(TextBox31214.Value) Or Val(TextBox31214.Value) < 0 Or Val(TextBox31214.Value) > 100
Then
        ERR_LEC = True
        Me.Hide
        MsgBox "Error en el % especial de la deducció autonòmica per habitatge habitual.", vbCritical,
TITOL_IRPF
        Exit Sub
      Else
        DEDV(1, 4) = Val(Replace(TextBox31214.Value, ",", ".")) / 100
      End If

      If Not IsNumeric(TextBox31221.Value) Or Val(TextBox31221.Value) < 0 Or Val(TextBox31221.Value) >
IRPF_DEDV(2, 1) Then
        ERR_LEC = True
        Me.Hide
        MsgBox "Error en la base màxima de la deducció estatal per habitatge habitual (discapacitats).",
vbCritical, TITOL_IRPF
        Exit Sub
      Else
        DEDV(2, 1) = Replace(TextBox31221.Value, ",", ".")
      End If
      If Not IsNumeric(TextBox31222.Value) Or Val(TextBox31222.Value) < 0 Or Val(TextBox31222.Value) > 100
Then
        ERR_LEC = True
        Me.Hide
        MsgBox "Error en el % de la deducció estatal per habitatge habitual (discapacitats).", vbCritical,
TITOL_IRPF
        Exit Sub

```

```

Else
    DEDV(2, 2) = Val(Replace(TextBox31222.Value, ",", ".")) / 100
End If
If Not IsNumeric(TextBox31223.Value) Or Val(TextBox31223.Value) < 0 Or Val(TextBox31213.Value) > 100
Then
    ERR_LEC = True
    Me.Hide
    MsgBox "Error en el % de la deducció autonòmica per habitatge habitual (discapacitats).",
vbCritical, TITOL_IRPF
    Exit Sub
Else
    DEDV(2, 3) = Val(Replace(TextBox31223.Value, ",", ".")) / 100
End If

If Not IsNumeric(TextBox3123.Value) Or Val(TextBox3123.Value) < 0 Then
    ERR_LEC = True
    Me.Hide
    MsgBox "Error en la base imposable màxima per optar a la deducció per lloguer de l'habitatge
habitual.", vbCritical, TITOL_IRPF
    Exit Sub
Else
    DEDV(3, 1) = Val(TextBox3123.Value)
End If
If Not IsNumeric(TextBox312312.Value) Or Val(TextBox312312.Value) < 0 Then
    ERR_LEC = True
    Me.Hide
    MsgBox "Error en el 1er. tram de la deducció per lloguer de l'habitatge habitual.", vbCritical,
TITOL_IRPF
    Exit Sub
Else
    DEDV(3, 2) = Val(TextBox312312.Value)
End If
If Not IsNumeric(TextBox312313.Value) Or Val(TextBox312313.Value) < 0 Or Val(TextBox312313.Value) > 100
Then
    ERR_LEC = True
    Me.Hide
    MsgBox "Error en el % de la deducció per lloguer de l'habitatge habitual.", vbCritical, TITOL_IRPF
    Exit Sub
Else
    DEDV(3, 3) = Val(Replace(TextBox312313.Value, ",", ".")) / 100
End If
If Not IsNumeric(TextBox312314.Value) Or Val(TextBox312314.Value) < 0 Then
    ERR_LEC = True
    Me.Hide
    MsgBox "Error en el límit màxim de la deducció per lloguer de l'habitatge habitual.", vbCritical,
TITOL_IRPF
    Exit Sub
Else
    DEDV(3, 4) = TextBox312314.Value
End If

If Not IsNumeric(TextBox3124.Value) Or Val(TextBox3124.Value) < 0 Then
    ERR_LEC = True
    Me.Hide
    MsgBox "Error en la base imposable màxima per optar a la deducció per obres a la vivenda habitual.",
vbCritical, TITOL_IRPF
    Exit Sub
Else
    DEDV(4, 1) = Val(TextBox3124.Value)
End If
If Not IsNumeric(TextBox312412.Value) Or Val(TextBox312412.Value) < 0 Then
    ERR_LEC = True
    Me.Hide
    MsgBox "Error en el 1er. tram de la deducció per obres a la vivenda habitual.", vbCritical,
TITOL_IRPF
    Exit Sub
Else
    DEDV(4, 2) = Val(TextBox312412.Value)
End If
If Not IsNumeric(TextBox312413.Value) Or Val(TextBox312413.Value) < 0 Or Val(TextBox312413.Value) > 100
Then
    ERR_LEC = True
    Me.Hide
    MsgBox "Error en el % de la deducció per obres a la vivenda habitual.", vbCritical, TITOL_IRPF
    Exit Sub
Else
    DEDV(4, 3) = Val(Replace(TextBox312413.Value, ",", ".")) / 100
End If
If Not IsNumeric(TextBox312414.Value) Or Val(TextBox312414.Value) < 0 Then
    ERR_LEC = True
    Me.Hide
    MsgBox "Error en el límit màxim de la deducció per obres a la vivenda habitual.", vbCritical,
TITOL_IRPF

```

```

Exit Sub
Else
  DEDV(4, 4) = TextBox312414.Value
End If

End If

If CheckBox312.Value Then DED(2) = 1      'Béns culturals
If CheckBox313.Value Then DED(3) = 1      'Donatius
If CheckBox314.Value Then DED(4) = 1      'Activitats econòmiques
If CheckBox315.Value Then DED(5) = 1      'Ceuta i Melilla
If CheckBox316.Value Then DED(6) = 1      'Comptes estalvi-empresa
End If

.....
'Guarda els paràmetres del tercer quadre a PARMS'
.....

PARMS(0, 9) = DED(0)
For il = 1 To 6
  PARMS(26, il) = DED(il)
Next il
For il = 1 To 4
  PARMS(27, il) = DEDV(1, il) + IIf(il <> 1, 0.0000000001, 0)
Next il
For il = 1 To 3
  PARMS(28, il) = DEDV(2, il) + IIf(il <> 1, 0.0000000001, 0)
Next il
For il = 1 To 4
  PARMS(29, il) = DEDV(3, il) + IIf(il = 3, 0.0000000001, 0)
Next il
For il = 1 To 4
  PARMS(30, il) = DEDV(4, il) + IIf(il = 3, 0.0000000001, 0)
Next il

ElseIf MultiPage1.Value = 3 Then      'Deduccions autonòmiques

NDEDA1 = UBound(IRPF_DEDA1, 1)
ReDim DEDA1(NDEDA1, 2)      'Deduccions autonòmiques ja contemplades
If CheckBox41.Value Then
  DEDA1(0, 0) = 1
  DEDA1(2, 1) = ListBox4121.Value / 100      'Foment llengua catalana
  DEDA1(2, 2) = ListBox4122.Value / 100
  DEDA1(3, 1) = ListBox4131.Value / 100      'Foment innovació científica
  DEDA1(3, 2) = ListBox4132.Value / 100
  DEDA1(4, 1) = ListBox4141.Value / 100      'Lloguer habitatge habitual
  DEDA1(5, 1) = ListBox4151.Value / 100      'Interessos estudis 3er cicle
  DEDA1(7, 1) = ListBox4171.Value / 100      'rehabilitació habitatge habitual
  DEDA1(8, 1) = ListBox4181.Value / 100      'Donacions millora medi ambient
  DEDA1(8, 2) = ListBox4182.Value / 100
  DEDA1(9, 1) = ListBox4191.Value / 100      'Inversió en empreses noves
  DEDA1(10, 1) = ListBox41101.Value / 100      'Inversió en accions mercat alternatiu borsari

If Not IsNumeric(TextBox4111.Value) Or Val(TextBox4111.Value) < 0 Then
  ERR_LEC = True
  Me.Hide
  MsgBox "Error en la deducció autonòmica per naixement o adopció.", vbCritical, TITOL_IRPF
  Exit Sub
Else
  DEDA1(1, 1) = Val(TextBox4111.Value) 'Naixement o adopció
End If
If Not IsNumeric(TextBox4142.Value) Or Val(TextBox4142.Value) < 0 Then
  ERR_LEC = True
  Me.Hide
  MsgBox "Error en la deducció autonòmica per lloguer de l'habitatge habitual.", vbCritical, TITOL_IRPF
  Exit Sub
Else
  DEDA1(4, 2) = Val(TextBox4142.Value) 'Lloguer habitatge habitual
End If
If Not IsNumeric(TextBox4161.Value) Or Val(TextBox4161.Value) < 0 Then
  ERR_LEC = True
  Me.Hide
  MsgBox "Error en la deducció autonòmica dels contribuents vidus/es.", vbCritical, TITOL_IRPF
  Exit Sub
Else
  DEDA1(6, 1) = Val(TextBox4161.Value) 'Contribuents vidus
End If
If Not IsNumeric(TextBox4172.Value) Or Val(TextBox4172.Value) < 0 Or Val(TextBox4172.Value) >
IRPF_DEDA1(7, 2) Then
  ERR_LEC = True
  Me.Hide
  MsgBox "Error en la deducció autonòmica per rehabilitació de l'habitatge habitual.", vbCritical,
TITOL_IRPF

```

```

Exit Sub
Else
  DEDA1(7, 2) = Val(TextBox4172.Value) 'Rehabilitació habitatge habitual
End If
If Not IsNumeric(TextBox4192.Value) Or Val(TextBox4192.Value) < 0 Then
  ERR_LEC = True
  Me.Hide
  MsgBox "Error en la deducció autonòmica per inversió en empreses noves.", vbCritical, TITOL_IRPF
Exit Sub
Else
  DEDA1(9, 2) = Val(TextBox4192.Value) 'Inversió en empreses noves
End If
If Not IsNumeric(TextBox41102.Value) Or Val(TextBox41102.Value) < 0 Then
  ERR_LEC = True
  Me.Hide
  MsgBox "Error en la deducció autonòmica per inversió en empreses noves.", vbCritical, TITOL_IRPF
Exit Sub
Else
  DEDA1(10, 2) = Val(TextBox41102.Value) 'Inversió en empreses noves
End If
End If

NDEDA2 = 0
For Each CTL In Frame42.Controls
  If TypeName(CTL) = "TextBox" Then NDEDA2 = NDEDA2 + 1
Next CTL
ReDim DEDA2(NDEDA2) 'Altres deduccions autonòmiques
If CheckBox42.Value Then
  DEDA2(0) = 1
  For il = 1 To NDEDA2 - 1
    For Each CTL In Frame42.Controls
      If CTL.Name = "TextBox42" & il Then
        If Not IsNumeric(CTL.Value) Or Val(CTL.Value) < 0 Then
          ERR_LEC = True
          Me.Hide
          MsgBox "Error en la deducció autonòmica " & il & ".", vbCritical, TITOL_IRPF
          Exit Sub
        Else
          DEDA2(il) = Val(CTL.Value)
        End If
      End If
    Next CTL
  Next il
  If Not IsNumeric(TextBox428.Value) Or (Val(TextBox428.Value) < 0 Or Val(TextBox428.Value) > 12000) Then
    ERR_LEC = True
    Me.Hide
    MsgBox "Error en l'import per a determinar la deducció en la quota autonòmica: ha de ser positiva i inferior a 12.000 €.", vbCritical, TITOL_IRPF
  Exit Sub
  Else
    DEDA2(8) = Val(TextBox428.Value)
  End If
  If DEDA2(8) = 0 Then DEDA2(8) = -1 'Instrucció per "evitar problemes"
End If

.....
'Guarda els paràmetres del quart quadre a PARMS'
.....

PARMS(0, 10) = DEDA1(0, 0)
For il = 1 To NDEDA1
  PARMS(30 + il, 1) = DEDA1(il, 1) + IIf(il <> 1 And il <> 6, 0.0000000001, 0)
  If il = 1 Or il = 5 Or il = 6 Then
    PARMS(30 + il, 2) = ""
  Else
    PARMS(30 + il, 2) = DEDA1(il, 2) + IIf(il = 2 Or il = 3 Or il = 8, 0.0000000001, 0)
  End If
Next il

PARMS(0, 11) = DEDA2(0)
For il = 1 To NDEDA2
  PARMS(40 + il, 1) = DEDA2(il)
Next il

End If

Unload Me

End Sub
Private Sub Anterior_Click()

Dim il As Integer

```

PAGINA = PAGINA - 1

MultiPagel.Value = PAGINA

NetejaValors.Value = False

Llei.Value = False

SimulRef.Value = False

If MultiPagel.Value = 0 Then

Me.Caption = "SIMCAT-IRPF: Míminims Personals i Familiars i Reduccions" & " (Base de dades: " & ANOIRPF & ")"

If PARMS(0, 2) = 1 Then CheckBox11.Value = True Else CheckBox11.Value = False

For il = 1 To 11

For Each CTL In Frame112.Controls

If CTL.TabIndex = 2 * (il - 1) Then CTL.Value = PARMS(1, il)

If CTL.TabIndex = 2 * (il - 1) + 1 Then CTL.Value = PARMS(2, il) - PARMS(1, il)

Next CTL

Next il

If PARMS(0, 3) = 1 Then CheckBox12.Value = True Else CheckBox12.Value = False

TextBox121.Value = PARMS(3, 1)

TextBox122.Value = PARMS(3, 2)

If PARMS(0, 4) = 1 Then CheckBox13.Value = True Else CheckBox13.Value = False

TextBox13112.Value = PARMS(4, 2)

TextBox13113.Value = PARMS(4, 3)

TextBox13122.Value = PARMS(5, 2)

TextBox13133.Value = PARMS(6, 3)

TextBox1321.Value = PARMS(7, 1)

TextBox1322.Value = PARMS(7, 2)

If PARMS(0, 5) = 1 Then CheckBox14.Value = True Else CheckBox14.Value = False

TextBox141.Value = PARMS(8, 1)

TextBox142.Value = PARMS(8, 2)

TextBox143.Value = PARMS(8, 3)

TextBox144.Value = PARMS(8, 4)

If PARMS(0, 17) = "TOTS" Then TotsSi.Value = True Else TotsNo.Value = True

ListBox_Proj.Selected(LBound(A_PROJ)) = True

For il = 0 To UBound(A_PROJ)

If PARMS(0, 18) = A_PROJ(il) Then

ListBox_Proj.Selected(il) = True

Exit For

End If

Next il

ElseIf MultiPagel.Value = 1 Then

Me.Caption = "SIMCAT-IRPF: Tarifa" & " (Base de dades: " & ANOIRPF & ")"

ListBox21.Selected(10 - PARMS(0, 6)) = True

For Each CTL In Frame212.Controls

For il = 1 To PARMS(0, 6)

If il <> PARMS(0, 6) And CTL.Name = "TextBox212" & il & "2" Then CTL.Text = PARMS(8 + il, 2)

If CTL.Name = "TextBox212" & il & "3" Then CTL.Text = Format(PARMS(8 + il, 3) * 100, "#0.00")

Next il

Next CTL

ListBox22.Selected(10 - PARMS(0, 7)) = True

For Each CTL In Frame222.Controls

For il = 1 To PARMS(0, 7)

If il <> PARMS(0, 7) And CTL.Name = "TextBox222" & il & "2" Then CTL.Text = PARMS(8 + il, 5)

If CTL.Name = "TextBox222" & il & "3" Then CTL.Text = Format(PARMS(8 + il, 6) * 100, "#0.00")

Next il

Next CTL

ListBox23.Selected(6 - PARMS(0, 8)) = True

For il = 1 To PARMS(0, 8)

For Each CTL In Frame232.Controls

If il <> PARMS(0, 8) And CTL.Name = "TextBox232" & il & "2" Then CTL.Text = PARMS(18 + il, 2)

If CTL.Name = "TextBox232" & il & "3" Then CTL.Text = Format(PARMS(18 + il, 3) * 100, "#0.00")

If CTL.Name = "TextBox232" & il & "4" Then CTL.Text = Format(PARMS(18 + il, 4) * 100, "#0.00")

Next CTL

Next il

TextBox231.Value = PARMS(25, 1)

TextBox232.Value = PARMS(25, 2)

ElseIf MultiPagel.Value = 2 Then

Me.Caption = "SIMCAT-IRPF: Deduccions Generals" & " (Base de dades: " & ANOIRPF & ")"

If PARMS(0, 9) = 1 Then CheckBox31.Value = True Else CheckBox31.Value = False

If PARMS(26, 1) = 1 Then CheckBox311.Value = True Else CheckBox311.Value = False

If PARMS(26, 2) = 1 Then CheckBox312.Value = True Else CheckBox312.Value = False

```
If PARMS(26, 3) = 1 Then CheckBox313.Value = True Else CheckBox313.Value = False
If PARMS(26, 4) = 1 Then CheckBox314.Value = True Else CheckBox314.Value = False
If PARMS(26, 5) = 1 Then CheckBox315.Value = True Else CheckBox315.Value = False
If PARMS(26, 6) = 1 Then CheckBox316.Value = True Else CheckBox316.Value = False
TextBox31211.Value = PARMS(27, 1)
TextBox31212.Value = Format(PARMS(27, 2) * 100, "#0.00")
TextBox31213.Value = Format(PARMS(27, 3) * 100, "#0.00")
TextBox31214.Value = Format(PARMS(27, 4) * 100, "#0.00")
TextBox31221.Value = PARMS(27, 1)
TextBox31222.Value = Format(PARMS(27, 2) * 100, "#0.00")
TextBox31223.Value = Format(PARMS(27, 3) * 100, "#0.00")
TextBox3123.Value = PARMS(29, 1)
TextBox312312.Value = PARMS(29, 2)
TextBox312313.Value = Format(PARMS(29, 3) * 100, "#0.00")
TextBox312314.Value = PARMS(29, 4)
TextBox3124.Value = PARMS(30, 1)
TextBox312412.Value = PARMS(30, 2)
TextBox312413.Value = Format(PARMS(30, 3) * 100, "#0.00")
TextBox312414.Value = PARMS(30, 4)

End If

End Sub
Private Sub Cancelar_Click()

SORTIR = True
IMPOST(1) = True
Unload Me

End Sub
Private Sub CheckBox11_Click()

If CheckBox11.Value Then
    Frame11.Enabled = True
    For Each CTL In Frame11.Controls
        CTL.Enabled = True
    Next CTL
Else
    Frame11.Enabled = False
    For Each CTL In Frame11.Controls
        CTL.Enabled = False
        If TypeName(CTL) = "TextBox" Then CTL.Value = "0"
    Next CTL
End If

End Sub
Private Sub CheckBox12_Click()

If CheckBox12.Value Then
    Frame12.Enabled = True
    For Each CTL In Frame12.Controls
        CTL.Enabled = True
    Next CTL
Else
    Frame12.Enabled = False
    For Each CTL In Frame12.Controls
        CTL.Enabled = False
        If TypeName(CTL) = "TextBox" Then CTL.Value = "0"
    Next CTL
End If

End Sub
Private Sub CheckBox13_Click()

If CheckBox13.Value Then
    Frame13.Enabled = True
    For Each CTL In Frame13.Controls
        CTL.Enabled = True
    Next CTL
    TextBox13111.Enabled = False
    TextBox13121.Enabled = False
    TextBox13123.Enabled = False
    TextBox13124.Enabled = False
    TextBox13131.Enabled = False
    TextBox13132.Enabled = False
Else
    Frame13.Enabled = False
    For Each CTL In Frame13.Controls
        CTL.Enabled = False
        If TypeName(CTL) = "TextBox" Then CTL.Value = "0"
    Next CTL
End If
```

```

End Sub
Private Sub CheckBox14_Click()

If CheckBox14.Value Then
    Frame14.Enabled = True
    For Each CTL In Frame14.Controls
        CTL.Enabled = True
    Next CTL
Else
    Frame14.Enabled = False
    For Each CTL In Frame14.Controls
        CTL.Enabled = False
        If TypeName(CTL) = "TextBox" Then CTL.Value = "0"
    Next CTL
End If

End Sub
Private Sub CheckBox31_Click()

If CheckBox31.Value Then
    Frame31.Enabled = True
    For Each CTL In Frame31.Controls
        If TypeName(CTL) = "CheckBox" Then
            CTL.Enabled = True
            CTL.Value = True
        End If
    Next CTL
Else
    Frame31.Enabled = False
    For Each CTL In Frame31.Controls
        CTL.Enabled = False
        If TypeName(CTL) = "CheckBox" Then CTL.Value = False
        If TypeName(CTL) = "TextBox" Then CTL.Value = "0"
    Next CTL
End If

End Sub
Private Sub CheckBox311_Click()

If CheckBox311.Value Then
    Frame312.Enabled = True
    For Each CTL In Frame312.Controls
        CTL.Enabled = True
    Next CTL
    '   TextBox31211.Enabled = False
    '   TextBox31221.Enabled = False
    '   TextBox3123.Enabled = False
    TextBox312311.Enabled = False
    TextBox312311.Value = "0"
    '   TextBox312314.Enabled = False
    TextBox312321.Enabled = False
    TextBox312322.Enabled = False
    TextBox312323.Enabled = False
    TextBox312324.Enabled = False
    TextBox312325.Enabled = False
    TextBox312411.Enabled = False
    TextBox312411.Value = "0"
    '   TextBox312414.Enabled = False
    TextBox312421.Enabled = False
    TextBox312422.Enabled = False
    TextBox312423.Enabled = False
    TextBox312424.Enabled = False
    TextBox312425.Enabled = False

Else
    Frame312.Enabled = False
    For Each CTL In Frame312.Controls
        CTL.Enabled = False
        If TypeName(CTL) = "TextBox" Then CTL.Value = "0"
    Next CTL
End If

End Sub
Private Sub CheckBox41_Click()

If CheckBox41 Then
    Frame41.Enabled = True
    For Each CTL In Frame41.Controls
        CTL.Enabled = True
    Next CTL
Else
    Frame41.Enabled = False
    For Each CTL In Frame41.Controls

```

```

        CTL.Enabled = False
        If TypeName(CTL) = "TextBox" Then CTL.Value = "0"
    Next CTL
End If

End Sub
Private Sub CheckBox42_Click()

Dim i1 As Integer, i2 As Integer

i1 = 0
If CheckBox42.Value Then
    Frame42.Enabled = True
    For Each CTL In Frame42.Controls
        If TypeName(CTL) = "TextBox" Then i1 = i1 + 1
        CTL.Enabled = True
    Next CTL
    For Each CTL In Frame42.Controls
        For i2 = 1 To i1
            If CTL.Name = "TextBox42" & i2 Then CTL.Value = IRPF_DEDA2(i2)
        Next i2
    Next CTL
Else
    Frame42.Enabled = False
    For Each CTL In Frame42.Controls
        CTL.Enabled = False
        If TypeName(CTL) = "TextBox" Then CTL.Value = "0"
    Next CTL
End If

End Sub
Private Sub ListBox_Simulref_Click()

Dim i1 As Integer, nsim As Integer, p(53, 18)

For i1 = 0 To ISIMULS(1) - 1
    If ListBox_SimulRef.Selected(i1) = True Then
        nsim = ListBox_SimulRef.Value
        Exit For
    End If
Next i1

Call COMUNS_1REFERENCIA_SIMULS("IRPF", nsim, p)

If MultiPage1.Value = 0 Then

    If p(0, 2) = 1 Then CheckBox11.Value = True Else CheckBox11.Value = False
    For i1 = 1 To 11
        For Each CTL In Frame112.Controls
            If CTL.TabIndex = 2 * (i1 - 1) Then CTL.Value = Round(p(1, i1) * DEFLACTOR, 2)
            If CTL.TabIndex = 2 * (i1 - 1) + 1 Then CTL.Value = Round((p(2, i1) - p(1, i1)) * DEFLACTOR, 2)
        Next CTL
    Next i1

    If p(0, 3) = 1 Then CheckBox12.Value = True Else CheckBox12.Value = False
    TextBox121.Value = p(3, 1)
    TextBox122.Value = p(3, 2)

    If p(0, 4) = 1 Then CheckBox13.Value = True Else CheckBox13.Value = False
    TextBox13112.Value = p(4, 2)
    TextBox13113.Value = p(4, 3)
    TextBox13122.Value = p(5, 2)
    TextBox13133.Value = p(6, 3)
    TextBox1321.Value = p(7, 1)
    TextBox1322.Value = p(7, 2)

    If p(0, 5) = 1 Then CheckBox14.Value = True Else CheckBox14.Value = False
    TextBox141.Value = p(8, 1)
    TextBox142.Value = p(8, 2)
    TextBox143.Value = p(8, 3)
    TextBox144.Value = p(8, 4)

    If p(0, 17) = "TOTS" Then TotsSi.Value = True Else TotsNo.Value = True

    ListBox_Proj.Selected(LBound(A_PROJ)) = True
    For i1 = 0 To UBound(A_PROJ)
        If p(0, 18) = A_PROJ(i1) Then
            ListBox_Proj.Selected(i1) = True
            Exit For
        End If
    Next i1

    ListBox051.Selected(150 - ((p(49, 1) - 1) * 1000)) = True

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ListBox052.Selected(150 - ((p(50, 1) - 1) * 1000)) = True
ListBox053.Selected(150 - ((p(51, 1) - 1) * 1000)) = True
ListBox054.Selected(150 - ((p(52, 1) - 1) * 1000)) = True
ListBox055.Selected(150 - ((p(53, 1) - 1) * 1000)) = True

ElseIf MultiPage1.Value = 1 Then

    ListBox21.Selected(10 - p(0, 6)) = True
    For Each CTL In Frame212.Controls
        For il = 1 To p(0, 6)
            If il <> p(0, 6) And CTL.Name = "TextBox212" & il & "2" Then CTL.Text = Round(p(8 + il, 2) *
DEFLACTOR, 2)
            If CTL.Name = "TextBox212" & il & "3" Then CTL.Text = Format(p(8 + il, 3) * 100, "#0.00")
        Next il
    Next CTL

    ListBox22.Selected(10 - p(0, 7)) = True
    For Each CTL In Frame222.Controls
        For il = 1 To p(0, 7)
            If il <> p(0, 7) And CTL.Name = "TextBox222" & il & "2" Then CTL.Text = Round(p(8 + il, 5) *
DEFLACTOR, 2)
            If CTL.Name = "TextBox222" & il & "3" Then CTL.Text = Format(p(8 + il, 6) * 100, "#0.00")
        Next il
    Next CTL

    ListBox23.Selected(6 - p(0, 8)) = True
    For il = 1 To p(0, 8)
        For Each CTL In Frame232.Controls
            If il <> p(0, 8) And CTL.Name = "TextBox232" & il & "2" Then CTL.Text = Round(p(18 + il, 2) *
DEFLACTOR, 2)
            If CTL.Name = "TextBox232" & il & "3" Then CTL.Text = Format(p(18 + il, 3) * 100, "#0.00")
            If CTL.Name = "TextBox232" & il & "4" Then CTL.Text = Format(p(18 + il, 4) * 100, "#0.00")
        Next CTL
    Next il

    TextBox231.Value = p(25, 1)
    TextBox232.Value = p(25, 2)

ElseIf MultiPage1.Value = 2 Then

    If p(0, 9) = 1 Then CheckBox31.Value = True Else CheckBox31.Value = False
    If p(26, 1) = 1 Then CheckBox311.Value = True Else CheckBox311.Value = False
    If p(26, 2) = 1 Then CheckBox312.Value = True Else CheckBox312.Value = False
    If p(26, 3) = 1 Then CheckBox313.Value = True Else CheckBox313.Value = False
    If p(26, 4) = 1 Then CheckBox314.Value = True Else CheckBox314.Value = False
    If p(26, 5) = 1 Then CheckBox315.Value = True Else CheckBox315.Value = False
    If p(26, 6) = 1 Then CheckBox316.Value = True Else CheckBox316.Value = False
    TextBox31211.Value = p(27, 1)
    TextBox31212.Value = Format(p(27, 2) * 100, "#0.00")
    TextBox31213.Value = Format(p(27, 3) * 100, "#0.00")
    TextBox31214.Value = Format(p(27, 4) * 100, "#0.00")
    TextBox31221.Value = p(28, 1)
    TextBox31222.Value = Format(p(28, 2) * 100, "#0.00")
    TextBox31223.Value = Format(p(28, 3) * 100, "#0.00")
    TextBox3123.Value = p(29, 1)
    TextBox312312.Value = p(29, 2)
    TextBox312313.Value = Format(p(29, 3) * 100, "#0.00")
    TextBox312314.Value = p(29, 4)
    TextBox3124.Value = p(30, 1)
    TextBox312412.Value = p(30, 2)
    TextBox312413.Value = Format(p(30, 3) * 100, "#0.00")
    TextBox312414.Value = p(30, 4)

ElseIf MultiPage1.Value = 3 Then

    If p(0, 10) = 1 Then CheckBox41.Value = True Else CheckBox41.Value = False
    TextBox4111.Value = p(31, 1)
    ListBox4121.Selected(40 - p(32, 1) * 100) = True:   ListBox4122.Selected(15 - p(32, 2) * 100) = True
    ListBox4131.Selected(40 - p(33, 1) * 100) = True:   ListBox4132.Selected(15 - p(33, 2) * 100) = True
    ListBox4141.Selected(40 - p(34, 1) * 100) = True:   TextBox4142.Value = p(34, 2)
    For il = 0 To 10
        If p(35, 1) * 10 = il Then
            ListBox4151.Selected(10 - il) = True
        Exit For
    End If
    Next il
    TextBox4161.Value = p(36, 1)
    For il = 0 To 10
        If p(37, 1) * 10 = 5 - (0.5 * il) Then
            ListBox4171.Selected(il) = True
        Exit For
    End If
    Next il

```

```

TextBox4172.Value = p(37, 2)
ListBox4181.Selected(40 - p(38, 1) * 100) = True:   ListBox4182.Selected(15 - p(38, 2) * 100) = True
ListBox4191.Selected(40 - p(39, 1) * 100) = True:   TextBox4192.Value = p(39, 2)
ListBox41101.Selected(40 - p(40, 1) * 100) = True:  TextBox41102.Value = p(40, 2)

If p(0, 11) = 1 Then CheckBox42.Value = True Else CheckBox42.Value = False
For il = 1 To UBound(IRPF_DEDA2)
  For Each CTL In Frame42.Controls
    If CTL.TabIndex = il - 1 Then CTL.Value = p(40 + il, 1)
  Next CTL
Next il

End If

End Sub
Private Sub ListBox_Proj_Click()

ANY_PROJ = ListBox_Proj.Value                                'Any a proyectar
If ANY_PROJ = ANOIRPF Then
  Frame05.Enabled = True
  For Each CTL In Frame05.Controls
    CTL.Enabled = True
  Next CTL
Else
  Frame05.Enabled = False
  For Each CTL In Frame05.Controls
    CTL.Enabled = False
    If TypeName(CTL) = "ListBox" Then CTL.Selected(150) = True
  Next CTL
End If

End Sub
Private Sub ListBox_Deflactor_Click()

Dim il As Integer

If MultiPage1.Value = 0 Then

  DEFLACTOR = 1 + Abs(ListBox_Deflactor.Value) / 100
  DEFLACTOR = IIf(ListBox_Deflactor.Value >= 0, DEFLACTOR, 1 / DEFLACTOR)
  If CheckBox11 Then
    For il = 1 To 11
      For Each CTL In Framel12.Controls
        If CTL.TabIndex = 2 * (il - 1) Then CTL.Value = Round(CTL.Value * DEFLACTOR, 2)
        If CTL.TabIndex = 2 * (il - 1) + 1 Then CTL.Value = Round(CTL.Value * DEFLACTOR, 2)
      Next CTL
    Next il
  End If
  If CheckBox13 Then
    TextBox13112.Value = Round(TextBox13112.Value * DEFLACTOR, 2)
    TextBox13113.Value = Round(TextBox13113.Value * DEFLACTOR, 2)
    TextBox13122.Value = Round(TextBox13122.Value * DEFLACTOR, 2)
    TextBox13133.Value = Round(TextBox13133.Value * DEFLACTOR, 2)
    TextBox1321.Value = Round(TextBox1321.Value * DEFLACTOR, 2)
    TextBox1322.Value = Round(TextBox1322.Value * DEFLACTOR, 2)
  End If

End If

End Sub
Private Sub ListBox051_Click()

Dim il As Integer

If MultiPage1.Value = 0 Then

  PROJ(1) = 1 + (ListBox051.Value / 100)

End If

End Sub
Private Sub ListBox052_Click()

Dim il As Integer

If MultiPage1.Value = 0 Then

  PROJ(2) = 1 + (ListBox052.Value / 100)

End If

End Sub
Private Sub ListBox053_Click()

```

```

Dim i1 As Integer

If MultiPage1.Value = 0 Then

    PROJ(3) = 1 + (ListBox053.Value / 100)

End If

End Sub
Private Sub ListBox054_Click()

Dim i1 As Integer

If MultiPage1.Value = 0 Then

    PROJ(4) = 1 + (ListBox054.Value / 100)

End If

End Sub
Private Sub ListBox055_Click()

Dim i1 As Integer

If MultiPage1.Value = 0 Then

    PROJ(5) = 1 + (ListBox055.Value / 100)

End If

End Sub
Private Sub ListBox21_Click()

Dim i1 As Integer

NTRAMSG(1) = ListBox21.Value
For Each CTL In Frame211.Controls
    If CTL.TabIndex <= NTRAMSG(1) - 1 Then CTL.Enabled = True Else CTL.Enabled = False
Next CTL
For Each CTL In Frame212.Controls
    CTL.Enabled = False
    CTL.Value = ""
    For i1 = 0 To NTRAMSG(1) - 1
        If CTL.TabIndex = 3 * i1 + 1 Or CTL.TabIndex = 3 * i1 + 2 Then CTL.Enabled = True
    Next i1
    If CTL.Name = "TextBox212" & NTRAMSG(1) & "2" Then
        CTL.Enabled = False
        CTL.Value = "i més"
    End If
Next CTL
For Each CTL In Frame213.Controls
    If CTL.TabIndex <= NTRAMSG(1) - 1 Then CTL.Enabled = True Else CTL.Enabled = False
Next CTL
TextBox21211.Value = "0"

End Sub
Private Sub ListBox22_Click()

Dim i1 As Integer

NTRAMSG(2) = ListBox22.Value
For Each CTL In Frame221.Controls
    If CTL.TabIndex <= NTRAMSG(2) - 1 Then CTL.Enabled = True Else CTL.Enabled = False
Next CTL
For Each CTL In Frame222.Controls
    CTL.Enabled = False
    CTL.Value = ""
    For i1 = 0 To NTRAMSG(2) - 1
        If CTL.TabIndex = 3 * i1 + 1 Or CTL.TabIndex = 3 * i1 + 2 Then CTL.Enabled = True
    Next i1
    If CTL.Name = "TextBox222" & NTRAMSG(2) & "2" Then
        CTL.Enabled = False
        CTL.Value = "i més"
    End If
Next CTL
For Each CTL In Frame223.Controls
    If CTL.TabIndex <= NTRAMSG(2) - 1 Then CTL.Enabled = True Else CTL.Enabled = False
Next CTL
TextBox22211.Value = "0"

End Sub
Private Sub ListBox23_Click()

```

```

Dim i1 As Integer

NTRAMSE = ListBox23.Value
For Each CTL In Frame231.Controls
    If CTL.TabIndex <= NTRAMSE - 1 Then CTL.Enabled = True Else CTL.Enabled = False
Next CTL
For Each CTL In Frame232.Controls
    CTL.Enabled = False
    CTL.Value = ""
    For i1 = 0 To NTRAMSE - 1
        If CTL.TabIndex = (4 * i1) + 1 Or CTL.TabIndex = (4 * i1) + 2 Or _
            CTL.TabIndex = (4 * i1) + 3 Then CTL.Enabled = True
    Next i1
    If CTL.Name = "TextBox232" & NTRAMSE & "2" Then
        CTL.Enabled = False
        CTL.Value = "i més"
    End If
Next CTL
For Each CTL In Frame233.Controls
    If CTL.TabIndex <= NTRAMSE - 1 Then CTL.Enabled = True Else CTL.Enabled = False
Next CTL
TextBox23211.Value = "0"

End Sub
Private Sub ListBox311_Click()

Dim per As Double

If CheckBox312 Then
    TextBox31212.Value = Format(15 * (1 - per), "#0.00")
    TextBox31213.Value = Format(15 * (per - 0.1), "#0.00")
    TextBox31214.Value = Format(15 * (per + 0.1), "#0.00")
    TextBox31222.Value = Format(20 * (1 - per), "#0.00")
    TextBox31223.Value = Format(20 * (per + 0.1), "#0.00")
End If

End Sub
Private Sub Llei_Click()

Dim i1 As Integer

If MultiPage1.Value = 0 Then

    CheckBox11.Value = True
    For i1 = 1 To 11
        For Each CTL In Framel12.Controls
            If CTL.TabIndex = 2 * (i1 - 1) Then CTL.Value = IRPF_MPF(i1, 1)
            If CTL.TabIndex = 2 * (i1 - 1) + 1 Then CTL.Value = IRPF_MPF(i1, 2)
        Next CTL
    Next i1

    CheckBox12.Value = True
    TextBox121.Value = IRPF_RED_RTC(1)
    TextBox122.Value = IRPF_RED_RTC(2)

    CheckBox13.Value = True
    TextBox13112.Value = IRPF_RED_RT(1, 1)
    TextBox13113.Value = IRPF_RED_RT(1, 2)
    TextBox13122.Value = IRPF_RED_RT(2, 1)
    TextBox13133.Value = IRPF_RED_RT(3, 2)
    TextBox1321.Value = IRPF_RED_RT(4, 1)
    TextBox1322.Value = IRPF_RED_RT(4, 2)

    CheckBox14.Value = True
    TextBox141.Value = IRPF_RED_PP(1)
    TextBox142.Value = IRPF_RED_PP(2)
    TextBox143.Value = IRPF_RED_PP(3)
    TextBox144.Value = IRPF_RED_PP(4)

    TotsSi.Value = True

    ListBox_Proj.Selected(UBound(A_PROJ)) = True

    ListBox_Deflactor.Selected(150) = True

    ListBox051.Selected(150) = True
    ListBox052.Selected(150) = True
    ListBox053.Selected(150) = True
    ListBox054.Selected(150) = True
    ListBox055.Selected(150) = True

ElseIf MultiPage1.Value = 1 Then

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```

ListBox21.Selected(10 - IRPF_NTRAMSG(1)) = True
For Each CTL In Frame212.Controls
    For il = 1 To IRPF_NTRAMSG(1)
        If il <> IRPF_NTRAMSG(1) And CTL.Name = "TextBox212" & il & "2" Then CTL.Text = Round(IRPF_TRAMSG(il,
1) * DEFLACTOR, 2)
        If CTL.Name = "TextBox212" & il & "3" Then CTL.Text = Format(IRPF_TIPUSG(il, 1) * 100, "#0.00")
    Next il
Next CTL

ListBox22.Selected(10 - IRPF_NTRAMSG(2)) = True
For Each CTL In Frame222.Controls
    For il = 1 To IRPF_NTRAMSG(2)
        If il <> IRPF_NTRAMSG(2) And CTL.Name = "TextBox222" & il & "2" Then CTL.Text = Round(IRPF_TRAMSG(il,
2) * DEFLACTOR, 2)
        If CTL.Name = "TextBox222" & il & "3" Then CTL.Text = Format(IRPF_TIPUSG(il, 2) * 100, "#0.00")
    Next il
Next CTL

ListBox23.Selected(6 - IRPF_NTRAMSE) = True
For il = 1 To IRPF_NTRAMSE
    For Each CTL In Frame232.Controls
        If il <> IRPF_NTRAMSE And CTL.Name = "TextBox232" & il & "2" Then CTL.Text = Round(IRPF_TRAMSE(il) *
DEFLACTOR, 2)
        If CTL.Name = "TextBox232" & il & "3" Then CTL.Text = Format(IRPF_TIPUSE(il, 1) * 100, "#0.00")
        If CTL.Name = "TextBox232" & il & "4" Then CTL.Text = Format(IRPF_TIPUSE(il, 2) * 100, "#0.00")
    Next CTL
Next il

TextBox231.Value = IRPF_RDIVE
TextBox232.Value = IRPF_EXEMPTE

ElseIf MultiPagel.Value = 2 Then

    CheckBox31.Value = True
    TextBox31211.Value = IRPF_DEDV(1, 1)
    TextBox31212.Value = Format(IRPF_DEDV(1, 2) * 100, "#0.00")
    TextBox31213.Value = Format(IRPF_DEDV(1, 3) * 100, "#0.00")
    TextBox31214.Value = Format(IRPF_DEDV(1, 4) * 100, "#0.00")
    TextBox31221.Value = IRPF_DEDV(2, 1)
    TextBox31222.Value = Format(IRPF_DEDV(2, 2) * 100, "#0.00")
    TextBox31223.Value = Format(IRPF_DEDV(2, 3) * 100, "#0.00")
    TextBox3123.Value = IRPF_DEDV(3, 1)
    TextBox312312.Value = IRPF_DEDV(3, 2)
    TextBox312313.Value = Format(IRPF_DEDV(3, 3) * 100, "#0.00")
    TextBox312314.Value = IRPF_DEDV(3, 4)
    TextBox3124.Value = IRPF_DEDV(4, 1)
    TextBox312412.Value = IRPF_DEDV(4, 2)
    TextBox312413.Value = Format(IRPF_DEDV(4, 3) * 100, "#0.00")
    TextBox312414.Value = IRPF_DEDV(4, 4)

ElseIf MultiPagel.Value = 3 Then

    CheckBox41.Value = True
    TextBox4111.Value = IRPF_DEDA1(1, 1)
    ListBox4121.Selected(40 - IRPF_DEDA1(2, 1) * 100) = True
    ListBox4122.Selected(15 - IRPF_DEDA1(2, 2) * 100) = True
    ListBox4131.Selected(40 - IRPF_DEDA1(3, 1) * 100) = True
    ListBox4132.Selected(15 - IRPF_DEDA1(3, 2) * 100) = True
    ListBox4141.Selected(40 - IRPF_DEDA1(4, 1) * 100) = True
    TextBox4142.Value = IRPF_DEDA1(4, 2)
    ListBox4151.Selected(0) = True
    TextBox4161.Value = IRPF_DEDA1(6, 1)
    ListBox4171.Selected(7) = True
    TextBox4172.Value = IRPF_DEDA1(7, 2)
    ListBox4181.Selected(40 - IRPF_DEDA1(8, 1) * 100) = True
    ListBox4182.Selected(15 - IRPF_DEDA1(8, 2) * 100) = True
    ListBox4191.Selected(40 - IRPF_DEDA1(9, 1) * 100) = True
    TextBox4192.Value = IRPF_DEDA1(9, 2)
    ListBox41101.Selected(40 - IRPF_DEDA1(10, 1) * 100) = True
    TextBox41102.Value = IRPF_DEDA1(10, 2)

End If

End Sub
Private Sub MultiPagel_Layout(ByVal Index As Long)

Dim il As Integer

If MultiPagel.Value = 0 Then
    Aceptar.Left = 222.5
    Anterior.Visible = False
    Cancelar.Left = 272.5

```

```
Frame01.Enabled = True
For Each CTL In Frame01.Controls
    CTL.Enabled = True
Next CTL
Frame03.Enabled = True
For Each CTL In Frame03.Controls
    CTL.Enabled = True
Next CTL
Frame04.Enabled = True
For Each CTL In Frame04.Controls
    CTL.Enabled = True
Next CTL
Else
For il = 0 To UBound(A_PROJ)
    If ANY_PROJ = A_PROJ(il) Then
        ListBox_Proj.Selected(il) = True
        Exit For
    End If
Next il
Aceptar.Left = 247.5
Anterior.Visible = True
Cancelar.Left = 297.5
Frame01.Enabled = False
If DECL_NOMBRE = "TOTS" Then TotsSi.Value = True Else TotsNo.Value = True
For Each CTL In Frame01.Controls
    CTL.Enabled = False
Next CTL
Frame03.Enabled = False
For Each CTL In Frame03.Controls
    CTL.Enabled = False
Next CTL
Frame04.Enabled = False
ListBox_Deflactor.Selected(150 - ((DEFLACTOR - 1) * 1000)) = True
For Each CTL In Frame04.Controls
    CTL.Enabled = False
Next CTL
Frame05.Enabled = False
For Each CTL In Frame05.Controls
    For il = 1 To 5
        If CTL.Name = "ListBox05" & il Then CTL.Selected(150 - ((PROJ(il) - 1) * 1000)) = True
    Next il
    CTL.Enabled = False
Next CTL
End If

End Sub
Private Sub NetejaValors_Click()

Dim il As Integer

If MultiPage1.Value = 0 Then

    CheckBox11.Value = False
    For il = 1 To 11
        For Each CTL In Framel12.Controls
            CTL.Value = "0"
        Next CTL
    Next il

    CheckBox12.Value = False
    TextBox121.Value = "0"
    TextBox122.Value = "0"

    CheckBox13.Value = False
    TextBox13112.Value = "0"
    TextBox13113.Value = "0"
    TextBox13122.Value = "0"
    TextBox13133.Value = "0"
    TextBox1321.Value = "0"
    TextBox1322.Value = "0"

    CheckBox14.Value = False
    TextBox141.Value = "0"
    TextBox142.Value = "0"
    TextBox143.Value = "0"
    TextBox144.Value = "0"

ElseIf MultiPage1.Value = 1 Then

    ListBox22.Selected(9) = True
    TextBox22213.Value = "12,00"

    TextBox231.Value = "0"
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```

TextBox232.Value = "0"

ElseIf MultiPage1.Value = 2 Then

    TextBox31211.Value = "0"
    TextBox31212.Value = "0"
    TextBox31213.Value = "0"
    TextBox31214.Value = "0"
    TextBox31221.Value = "0"
    TextBox31222.Value = "0"
    TextBox31223.Value = "0"
    TextBox3123.Value = "0"
    TextBox312312.Value = "0"
    TextBox312313.Value = "0"
    TextBox312314.Value = "0"
    TextBox3124.Value = "0"
    TextBox312412.Value = "0"
    TextBox312413.Value = "0"
    TextBox312414.Value = "0"

ElseIf MultiPage1.Value = 3 Then

    CheckBox41.Value = False
    ListBox4121.Selected(40) = True
    ListBox4122.Selected(15) = True
    ListBox4131.Selected(40) = True
    ListBox4132.Selected(15) = True
    ListBox4141.Selected(40) = True
    ListBox4151.Selected(10) = True
    ListBox4171.Selected(10) = True
    ListBox4181.Selected(40) = True
    ListBox4182.Selected(15) = True
    ListBox4191.Selected(40) = True
    ListBox41101.Selected(40) = True

End If

End Sub
Private Sub SimulRef_Change()

Dim i1 As Integer

If SimulRef Then
    Frame02.Width = 190
    For i1 = 0 To ISIMULS(1) - 1
        ListBox_SimulRef.Selected(i1) = False
    Next i1
Else
    Frame02.Width = 150
    ListBox_SimulRef.TopIndex = 0
End If

End Sub
Private Sub TextBox13112_Change()

If IsNumeric(TextBox13112.Value) Then
    TextBox13121.Value = TextBox13112.Value
    TextBox13124.Value = TextBox13112.Value
End If

End Sub
Private Sub TextBox13113_Change()

If IsNumeric(TextBox13113.Value) Then TextBox13123.Value = TextBox13113.Value

End Sub
Private Sub TextBox13122_Change()

If IsNumeric(TextBox13122.Value) Then TextBox13131.Value = TextBox13122.Value

End Sub
Private Sub TextBox21212_Change()

If IsNumeric(TextBox21212.Value) Then TextBox21221.Value = TextBox21212.Value

End Sub

Private Sub TextBox21222_Change()

If IsNumeric(TextBox21222.Value) Then TextBox21231.Value = TextBox21222.Value

End Sub
Private Sub TextBox21232_Change()

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```
If IsNumeric(TextBox21232.Value) Then TextBox21241.Value = TextBox21232.Value

End Sub
Private Sub TextBox21242_Change()

If IsNumeric(TextBox21242.Value) Then TextBox21251.Value = TextBox21242.Value

End Sub
Private Sub TextBox21252_Change()

If IsNumeric(TextBox21252.Value) Then TextBox21261.Value = TextBox21252.Value

End Sub
Private Sub TextBox21262_Change()

If IsNumeric(TextBox21262.Value) Then TextBox21271.Value = TextBox21262.Value

End Sub
Private Sub TextBox21272_Change()

If IsNumeric(TextBox21272.Value) Then TextBox21281.Value = TextBox21272.Value

End Sub
Private Sub TextBox21282_Change()

If IsNumeric(TextBox21282.Value) Then TextBox21291.Value = TextBox21282.Value

End Sub
Private Sub TextBox21292_Change()

If IsNumeric(TextBox21292.Value) Then TextBox212101.Value = TextBox21292.Value

End Sub
Private Sub TextBox22212_Change()

If IsNumeric(TextBox22212.Value) Then TextBox22221.Value = TextBox22212.Value

End Sub
Private Sub TextBox22222_Change()

If IsNumeric(TextBox22222.Value) Then TextBox22231.Value = TextBox22222.Value

End Sub
Private Sub TextBox22232_Change()

If IsNumeric(TextBox22232.Value) Then TextBox22241.Value = TextBox22232.Value

End Sub
Private Sub TextBox22242_Change()

If IsNumeric(TextBox22242.Value) Then TextBox22251.Value = TextBox22242.Value

End Sub
Private Sub TextBox22252_Change()

If IsNumeric(TextBox22252.Value) Then TextBox22261.Value = TextBox22252.Value

End Sub
Private Sub TextBox22262_Change()

If IsNumeric(TextBox22262.Value) Then TextBox22271.Value = TextBox22262.Value

End Sub
Private Sub TextBox22272_Change()

If IsNumeric(TextBox22272.Value) Then TextBox22281.Value = TextBox22272.Value

End Sub
Private Sub TextBox22282_Change()

If IsNumeric(TextBox22282.Value) Then TextBox22291.Value = TextBox22282.Value

End Sub
Private Sub TextBox22292_Change()

If IsNumeric(TextBox22292.Value) Then TextBox222101.Value = TextBox22292.Value

End Sub
Private Sub TextBox23212_Change()

If IsNumeric(TextBox23212.Value) Then TextBox23221.Value = TextBox23212.Value
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End Sub
Private Sub TextBox23222_Change()

If IsNumeric(TextBox23222.Value) Then TextBox23231.Value = TextBox23222.Value

End Sub
Private Sub TextBox23232_Change()

If IsNumeric(TextBox23232.Value) Then TextBox23241.Value = TextBox23232.Value

End Sub
Private Sub TextBox23242_Change()

If IsNumeric(TextBox23242.Value) Then TextBox23251.Value = TextBox23242.Value

End Sub
Private Sub TextBox23252_Change()

If IsNumeric(TextBox23252.Value) Then TextBox23261.Value = TextBox23252.Value

End Sub
Private Sub TextBox3123_Change()

If IsNumeric(TextBox3123.Value) Then
    TextBox312322.Value = TextBox3123.Value
End If

End Sub
Private Sub TextBox312312_Change()

If IsNumeric(TextBox312312.Value) Then
    TextBox312321.Value = TextBox312312.Value
    TextBox312325.Value = TextBox312312.Value
End If

End Sub
Private Sub TextBox312313_Change()

If IsNumeric(TextBox312313.Value) Then
    TextBox312323.Value = TextBox312313.Value
End If

End Sub
Private Sub TextBox312314_Change()

If IsNumeric(TextBox312314.Value) Then
    TextBox312324.Value = TextBox312314.Value
End If

End Sub
Private Sub TextBox3124_Change()

If IsNumeric(TextBox3124.Value) Then
    TextBox312422.Value = TextBox3124.Value
End If

End Sub
Private Sub TextBox312412_Change()

If IsNumeric(TextBox312412.Value) Then
    TextBox312421.Value = TextBox312412.Value
    TextBox312425.Value = TextBox312412.Value
End If

End Sub
Private Sub TextBox312413_Change()

If IsNumeric(TextBox312413.Value) Then
    TextBox312423.Value = TextBox312413.Value
End If

End Sub
Private Sub TextBox312414_Change()

If IsNumeric(TextBox312414.Value) Then
    TextBox312424.Value = TextBox312414.Value
End If

End Sub
Private Sub UserForm_Activate()

height1 = Me.Height
left1 = Me.Left

```

```
top1 = Me.Top
width1 = Me.Width
Zoom = IIf(XZOOM < 200, 100, IIf(Not XTEXT, 150, 100))
If ISIMULS(1) <> 0 Then Frame02.Width = 150 Else Frame02.Width = 104

End Sub
Private Sub UserForm_QueryClose(Cancel As Integer, CloseMode As Integer)

If CloseMode = 0 Then SORTIR = True
Unload Me

End Sub
Private Sub UserForm_Zoom(Percent As Integer)

Me.Width = Me.Width * Percent / 100
Me.Height = Me.Height * Percent / 100
Me.Left = left1 - ((Me.Width - width1) / 2)
Me.Top = top1 - ((Me.Width - width1) / 2)

End Sub
```

```

Attribute VB_Name = "IS1"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PredeclaredId = True
Attribute VB_Exposed = False

Option Explicit
Dim height1 As Integer, left1 As Integer, top1 As Integer, width1 As Integer
Private Sub Aceptar_Click()

Dim i1 As Integer, j1 As Integer
ERR_LEC = False

If MultiPage1.Value = 0 Then

ReDim R_PARENT(1 To 7, 1 To 4) 'Reducció parentiu
For Each CTL In Frame11.Controls
For i1 = 1 To 7
If CTL.Name = "TextBox11" & i1 & "1" Then
If Not IsNumeric(CTL.Value) Or Val(CTL.Value) < 0 Then
ERR_LEC = True
Me.Hide
MsgBox "Error en la reducció per parentiu.", vbCritical, TITOL_IS
Exit Sub
Else
R_PARENT(i1, 1) = Val(Replace(CTL.Value, ",", "."))
End If
End If
Next i1
Next CTL
If Not IsNumeric(TextBox1112.Value) Or Val(TextBox1112.Value) < 0 Then
ERR_LEC = True
Me.Hide
MsgBox "Error en la reducció per parentiu.", vbCritical, TITOL_IS
Exit Sub
Else
R_PARENT(1, 2) = Val(Replace(TextBox1112.Value, ",", "."))
End If
R_PARENT(1, 3) = ListBox111.Value
R_PARENT(1, 4) = ListBox112.Value

ReDim R_PARENT_AD(1 To 5) 'Reducció parentiu adicional
For i1 = 1 To 5
For Each CTL In Frame12.Controls
If CTL.Name = "TextBox12" & i1 Then
If Not IsNumeric(CTL.Value) Or Val(CTL.Value) < 0 Then
ERR_LEC = True
Me.Hide
MsgBox "Error en la reducció de parentiu adicional " & i1 & ".", vbCritical, TITOL_IS
Exit Sub
Else
R_PARENT_AD(i1) = Val(Replace(CTL.Value, ",", "."))
End If
End If
Next CTL
Next i1

ReDim R_DISCAP(1 To 2) 'Reducció discapacitat
For i1 = 1 To 2
For Each CTL In Frame13.Controls
If CTL.Name = "TextBox13" & i1 Then
If Not IsNumeric(CTL.Value) Or Val(CTL.Value) < 0 Then
ERR_LEC = True
Me.Hide
MsgBox "Error en la reducció per discapacitat.", vbCritical, TITOL_IS
Exit Sub
Else
R_DISCAP(i1) = Val(Replace(CTL.Value, ",", "."))
End If
End If
Next CTL
Next i1
If R_DISCAP(1) > R_DISCAP(2) Then
ERR_LEC = True
Me.Hide
MsgBox "Error en la reducció per discapacitat.", vbCritical, TITOL_IS
Exit Sub
End If

ReDim R_EDATGR(1 To 2) 'Reducció edat
R_EDATGR(1) = ListBox131.Value
If Not IsNumeric(TextBox1311.Value) Or Val(TextBox1311.Value) < 0 Then
ERR_LEC = True

```

```

Me.Hide
MsgBox "Error en la reducció per edat.", vbCritical, TITOL_IS
Exit Sub
Else
R_EDATGR(2) = Val(Replace(TextBox1311.Value, ",", "."))
End If

ReDim R_ASSEGU(1 To 2) 'Reducció assegurança
R_ASSEGU(1) = Val(ListBox141.Value) / 100
If Not IsNumeric(TextBox141.Value) Or Val(TextBox141.Value) < 0 Then
ERR_LEC = True
Me.Hide
MsgBox "Error en la reducció per assegurança de vida.", vbCritical, TITOL_IS
Exit Sub
Else
R_ASSEGU(2) = Val(Replace(TextBox141.Value, ",", "."))
End If

ReDim R_HABITA(1 To 2) 'Reducció habitatge
R_HABITA(1) = Val(ListBox142.Value) / 100
If Not IsNumeric(TextBox142.Value) Or Val(TextBox142.Value) < 0 Then
ERR_LEC = True
Me.Hide
MsgBox "Error en la reducció per vivenda habitual.", vbCritical, TITOL_IS
Exit Sub
Else
R_HABITA(2) = Val(Replace(TextBox142.Value, ",", "."))
End If

ReDim R_EMPRES(1 To 2) 'Reducció empresa familiar
R_EMPRES(1) = Val(ListBox143.Value) / 100
If Not IsNumeric(TextBox143.Value) Or Val(TextBox143.Value) < 0 Then
ERR_LEC = True
Me.Hide
MsgBox "Error en la reducció per empresa familiar.", vbCritical, TITOL_IS
Exit Sub
Else
R_EMPRES(2) = Val(Replace(TextBox143.Value, ",", "."))
End If

ReDim R_PARTIC(1 To 2) 'Reducció participacions empresarials
R_PARTIC(1) = Val(ListBox144.Value) / 100
If Not IsNumeric(TextBox144.Value) Or Val(TextBox144.Value) < 0 Then
ERR_LEC = True
Me.Hide
MsgBox "Error en la reducció per participacions empresarials.", vbCritical, TITOL_IS
Exit Sub
Else
R_PARTIC(2) = Val(Replace(TextBox144.Value, ",", "."))
End If

ReDim R_BENSCU(1 To 2) 'Reducció inversió béns culturals
R_BENSCU(1) = Val(ListBox145.Value) / 100
If Not IsNumeric(TextBox145.Value) Or Val(TextBox145.Value) < 0 Then
ERR_LEC = True
Me.Hide
MsgBox "Error en la reducció per inversió béns culturals.", vbCritical, TITOL_IS
Exit Sub
Else
R_BENSCU(2) = Val(Replace(TextBox145.Value, ",", "."))
End If

ReDim R_FINQUE(1 To 2) 'Reducció adquisició finques rústiques
R_FINQUE(1) = Val(ListBox146.Value) / 100
If Not IsNumeric(TextBox146.Value) Or Val(TextBox146.Value) < 0 Then
ERR_LEC = True
Me.Hide
MsgBox "Error en la reducció per adquisició finques rústiques.", vbCritical, TITOL_IS
Exit Sub
Else
R_FINQUE(2) = Val(Replace(TextBox146.Value, ",", "."))
End If

ReDim PARMS(47, 10) 'Guarda els paràmetres del primer quadre a PARMS'
PARMS(0, 0) = "Paràmetres"
PARMS(0, 1) = IS_ANYREF

For i1 = 1 To 7
PARMS(1, i1) = R_PARENT(i1, 1)
Next i1
PARMS(1, 8) = R_PARENT(1, 2)
PARMS(1, 9) = R_PARENT(1, 3)
PARMS(1, 10) = R_PARENT(1, 4)

```

```

For i1 = 1 To 5
    PARS(2, i1) = R_PARENT_AD(i1)
Next i1

PARS(3, 1) = R_DISCAP(1)
PARS(3, 2) = R_DISCAP(2)

PARS(4, 1) = R_EDATGR(1)
PARS(4, 2) = R_EDATGR(2)

PARS(5, 1) = R_ASSEGU(1) + Iif(R_ASSEGU(1) <> 0, 0.0000000001, 0)
PARS(5, 2) = R_ASSEGU(2)
PARS(6, 1) = R_HABITA(1) + Iif(R_HABITA(1) <> 0, 0.0000000001, 0)
PARS(6, 2) = R_HABITA(2)
PARS(7, 1) = R_EMPRES(1) + Iif(R_EMPRES(1) <> 0, 0.0000000001, 0)
PARS(7, 2) = R_EMPRES(2)
PARS(8, 1) = R_PARTIC(1) + Iif(R_PARTIC(1) <> 0, 0.0000000001, 0)
PARS(8, 2) = R_PARTIC(2)
PARS(9, 1) = R_BENSCU(1) + Iif(R_BENSCU(1) <> 0, 0.0000000001, 0)
PARS(9, 2) = R_BENSCU(2)
PARS(10, 1) = R_FINQUE(1) + Iif(R_FINQUE(1) <> 0, 0.0000000001, 0)
PARS(10, 2) = R_FINQUE(2)

ElseIf MultiPagel.Value = 1 Then

    ReDim COEF(1 To 4, 1 To 4)
    For i1 = 1 To 4
        If i1 <> 2 Then
            For j1 = 1 To 4
                For Each CTL In Frame21.Controls
                    If CTL.Name = "TextBox21" & i1 & j1 Then
                        If Not IsNumeric(CTL.Value) Or Val(CTL.Value) <= 0 Then
                            ERR_LEC = True
                            Me.Hide
                            MsgBox "Error en el coeficient multiplicador" & i1 & "," & j1 & ".", vbCritical,
TITOL_IS
                                Exit Sub
                            Else
                                COEF(i1, j1) = Val(Replace(CTL.Value, ",", "."))
                            End If
                        End If
                    Next CTL
                Next j1
            End If
            For j1 = 1 To 4
                COEF(2, j1) = COEF(1, j1)
            Next j1
        Next i1

        NTRAMS12 = ListBox22.Value      'Trams i tipus grups 1 i 2
        ReDim TIPUS12(1 To NTRAMS12), T12(1 To NTRAMS12)
        For i1 = 1 To NTRAMS12
            For Each CTL In Frame222.Controls
                If i1 <> NTRAMS12 Then
                    If CTL.Name = "TextBox222" & i1 & "2" Then
                        If Not IsNumeric(CTL.Value) Or Val(CTL.Value) <= 0 Then
                            ERR_LEC = True
                            Me.Hide
                            MsgBox "Error en el TRAM " & i1 & " del grup parentiu 1 i 2.", vbCritical, TITOL_IS
                            Exit Sub
                        Else
                            T12(i1) = Val(Replace(CTL.Value, ",", "."))
                        End If
                    End If
                End If
                If CTL.Name = "TextBox222" & i1 & "3" Then
                    If Not IsNumeric(CTL.Value) Or (Val(CTL.Value) < 0 Or Val(CTL.Value) >= 100) Then
                        ERR_LEC = True
                        Me.Hide
                        MsgBox "Error en el tipus impositiu del TRAM " & i1 & " del grup parentiu 1 i 2.", vbCritical,
TITOL_IS
                            Exit Sub
                        Else
                            TIPUS12(i1) = Val(Replace(CTL.Value, ",", ".")) / 100
                        End If
                    End If
                Next CTL
            If i1 <> 1 Then
                If i1 <> NTRAMS12 Then
                    If T12(i1) <= T12(i1 - 1) Then
                        ERR_LEC = True
                        Me.Hide
                    End If
                End If
            End If
        Next CTL
    End If

```

```

        MsgBox "Error en el TRAM " & il & " del grup parentiu 1 i 2.", vbCritical, TITOL_IS
        Exit Sub
    End If
End If
If TIPUS12(il) < TIPUS12(il - 1) Then
    ERR_LEC = True
    Me.Hide
    MsgBox "Error en el tipus impositiu del TRAM " & il & " del grup parentiu 1 i 2.", vbCritical,
TITOL_IS
    Exit Sub
End If
End If
Next il

NTRAMS34 = ListBox23.Value      'Trams i tipus grups 3 i 4
ReDim TIPUS34(1 To NTRAMS34), T34(1 To NTRAMS34)
For il = 1 To NTRAMS34
    For Each CTL In Frame232.Controls
        If il <> NTRAMS34 Then
            If CTL.Name = "TextBox232" & il & "2" Then
                If Not IsNumeric(CTL.Value) Or Val(CTL.Value) <= 0 Then
                    ERR_LEC = True
                    Me.Hide
                    MsgBox "Error en el TRAM " & il & " del grup parentiu 3 i 4.", vbCritical, TITOL_IS
                    Exit Sub
                Else
                    T34(il) = Val(Replace(CTL.Value, ",", "."))
                End If
            End If
        End If
        If CTL.Name = "TextBox232" & il & "3" Then
            If Not IsNumeric(CTL.Value) Or (Val(CTL.Value) < 0 Or Val(CTL.Value) >= 100) Then
                ERR_LEC = True
                Me.Hide
                MsgBox "Error en el tipus impositiu del TRAM " & il & " del grup parentiu 3 i 4.", vbCritical,
TITOL_IS
                Exit Sub
            Else
                TIPUS34(il) = Val(Replace(CTL.Value, ",", ".")) / 100
            End If
        End If
    Next CTL
    If il <> 1 Then
        If il <> NTRAMS34 Then
            If T34(il) <= T34(il - 1) Then
                ERR_LEC = True
                Me.Hide
                MsgBox "Error en el TRAM " & il & " del grup parentiu 3 i 4.", vbCritical, TITOL_IS
                Exit Sub
            End If
        End If
        If TIPUS34(il) < TIPUS34(il - 1) Then
            ERR_LEC = True
            Me.Hide
            MsgBox "Error en el tipus impositiu del TRAM " & il & " del grup parentiu 3 i 4.", vbCritical,
TITOL_IS
            Exit Sub
        End If
    End If
End If
Next il

PARMS(0, 2) = NTRAMS12          'Guarda els paràmetres del segon quadre a PARMS'
PARMS(0, 3) = NTRAMS34

For il = 1 To 4
    For j1 = 1 To 4
        PARMS(10 + il, j1) = COEF(il, j1)
    Next j1
Next il

For il = 1 To NTRAMS12
    If il = 1 Then
        PARMS(14 + il, 1) = "0"
        PARMS(14 + il, 2) = IIf(il <> NTRAMS12, T12(il), "i més")
        PARMS(14 + il, 3) = TIPUS12(il) + 0.0000000001
    ElseIf il < NTRAMS12 Then
        PARMS(14 + il, 1) = T12(il - 1)
        PARMS(14 + il, 2) = T12(il)
        PARMS(14 + il, 3) = TIPUS12(il) + 0.0000000001
    Else
        PARMS(14 + il, 1) = T12(il - 1)
        PARMS(14 + il, 2) = "i més"
        PARMS(14 + il, 3) = TIPUS12(il) + 0.0000000001
    End If
Next il

```

```

End If
Next i1

For i1 = 1 To NTRAMS34
  If i1 = 1 Then
    PARMS(14 + i1, 5) = "0"
    PARMS(14 + i1, 6) = IIf(i1 <> NTRAMS34, T34(i1), "i més")
    PARMS(14 + i1, 7) = TIPUS34(i1) + 0.0000000001
  ElseIf i1 < NTRAMS34 Then
    PARMS(14 + i1, 5) = T34(i1 - 1)
    PARMS(14 + i1, 6) = T34(i1)
    PARMS(14 + i1, 7) = TIPUS34(i1) + 0.0000000001
  Else
    PARMS(14 + i1, 5) = T34(i1 - 1)
    PARMS(14 + i1, 6) = "i més"
    PARMS(14 + i1, 7) = TIPUS34(i1) + 0.0000000001
  End If
Next i1

ElseIf MultiPagel.Value = 2 Then

  ReDim BONIF(1 To 17, 1 To 2)
  BONIF(1, 1) = Val(ListBox3011.Value) / 100: BONIF(1, 2) = Val(ListBox3012.Value) / 100
  BONIF(2, 1) = Val(ListBox3021.Value) / 100: BONIF(2, 2) = Val(ListBox3022.Value) / 100
  BONIF(3, 1) = Val(ListBox3031.Value) / 100: BONIF(3, 2) = Val(ListBox3032.Value) / 100
  BONIF(4, 1) = Val(ListBox3041.Value) / 100: BONIF(4, 2) = Val(ListBox3042.Value) / 100
  BONIF(5, 1) = Val(ListBox305.Value) / 100
  BONIF(6, 1) = Val(ListBox306.Value) / 100
  BONIF(7, 1) = Val(ListBox307.Value) / 100
  BONIF(8, 1) = Val(ListBox308.Value) / 100
  BONIF(9, 1) = Val(ListBox309.Value) / 100
  BONIF(10, 1) = Val(ListBox310.Value) / 100
  BONIF(11, 1) = Val(ListBox311.Value) / 100
  BONIF(12, 1) = Val(ListBox312.Value) / 100
  BONIF(13, 1) = Val(ListBox313.Value) / 100
  BONIF(14, 1) = Val(ListBox314.Value) / 100
  BONIF(15, 1) = Val(ListBox315.Value) / 100
  BONIF(16, 1) = Val(ListBox316.Value) / 100
  BONIF(17, 1) = Val(ListBox317.Value) / 100

  For i1 = 1 To 17
    'Guarda els paràmetres del tercer quadre a PARMS'
    PARMS(30 + i1, 1) = BONIF(i1, 1)
    If i1 < 5 Then PARMS(30 + i1, 2) = BONIF(i1, 2)
  Next i1

End If

Unload Me

End Sub
Private Sub Anterior_Click()

Dim i1 As Integer, j1 As Integer

PAGINA = PAGINA - 1

MultiPagel.Value = PAGINA

NetejaValors.Value = False
Llei.Value = False
SimulRef.Value = False

If MultiPagel.Value = 0 Then

  Me.Caption = "SIMCAT-IS: Reduccions" & " (Base de dades: " & ANOIS & " )"

  For Each CTL In Framel1.Controls
    For i1 = 1 To 7
      If CTL.Name = "TextBox11" & i1 & "1" Then CTL.Text = Format(PARMS(1, i1), "#0")
    Next i1
  Next CTL
  TextBox1112.Text = Format(PARMS(1, 8), "#0")
  ListBox111.Selected(20 - PARMS(1, 9)) = True
  ListBox112.Selected(20 - PARMS(1, 10)) = True

  For Each CTL In Framel2.Controls
    For i1 = 1 To 5
      If CTL.Name = "TextBox12" & i1 Then CTL.Text = Format(PARMS(2, i1), "#0")
    Next i1
  Next CTL

  TextBox131.Text = Format(PARMS(3, 1), "#0")
  TextBox132.Text = Format(PARMS(3, 2), "#0")

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```

If PARMS(4, 1) <> 0 Then ListBox131.Selected(100 - PARMS(4, 1)) = True Else ListBox131.Selected(51) = True
TextBox1311.Text = Format(PARMS(4, 2), "#0")

For Each CTL In Frame14.Controls
  For il = 1 To 6
    If CTL.Name = "ListBox14" & il Then CTL.Selected(100 - (PARMS(4 + il, 1) * 100)) = True
    If CTL.Name = "TextBox14" & il Then CTL.Text = Format(PARMS(4 + il, 2), "#0")
  Next il
Next CTL

ElseIf MultiPagel.Value = 1 Then

  Me.Caption = "SIMCAT-IS: Coeficients multiplicadors i tarifa (Base de dades: " & ANOIS & ")"

  For Each CTL In Frame21.Controls
    For il = 1 To 4
      If il <> 2 Then
        For j1 = 1 To 4
          If CTL.Name = "TextBox21" & il & j1 Then CTL.Text = Format(PARMS(10 + il, j1), "0.0000")
        Next j1
      End If
    Next il
  Next CTL

  ListBox22.Selected(16 - PARMS(0, 2)) = True
  For Each CTL In Frame222.Controls
    For il = 1 To PARMS(0, 2)
      If il <> PARMS(0, 2) And CTL.Name = "TextBox222" & il & "2" Then CTL.Text = PARMS(14 + il, 2)
      If CTL.Name = "TextBox222" & il & "3" Then CTL.Text = Format(PARMS(14 + il, 3) * 100, "#0.00")
    Next il
  Next CTL
  ListBox23.Selected(16 - PARMS(0, 3)) = True
  For Each CTL In Frame232.Controls
    For il = 1 To PARMS(0, 3)
      If il <> PARMS(0, 3) And CTL.Name = "TextBox232" & il & "2" Then CTL.Text = PARMS(14 + il, 6)
      If CTL.Name = "TextBox232" & il & "3" Then CTL.Text = Format(PARMS(14 + il, 7) * 100, "#0.00")
    Next il
  Next CTL

End If

End Sub
Private Sub Cancelar_Click()

SORTIR = True
IMPOST(2) = True
Unload Me

End Sub
Private Sub ListBox22_Click()

Dim il As Integer

NTRAMS12 = ListBox22.Value
For Each CTL In Frame221.Controls
  If CTL.TabIndex <= NTRAMS12 - 1 Then CTL.Enabled = True Else CTL.Enabled = False
Next CTL
For Each CTL In Frame222.Controls
  CTL.Enabled = False
  CTL.Value = ""
  For il = 0 To NTRAMS12 - 1
    If CTL.TabIndex = 3 * il + 1 Or CTL.TabIndex = 3 * il + 2 Then CTL.Enabled = True
  Next il
  If CTL.Name = "TextBox222" & NTRAMS12 & "2" Then
    CTL.Enabled = False
    CTL.Value = "i més"
  End If
Next CTL
For Each CTL In Frame223.Controls
  If CTL.TabIndex <= NTRAMS12 - 1 Then CTL.Enabled = True Else CTL.Enabled = False
Next CTL
TextBox22211.Value = "0"

End Sub
Private Sub ListBox23_Click()

Dim il As Integer

NTRAMS34 = ListBox23.Value
For Each CTL In Frame231.Controls
  If CTL.TabIndex <= NTRAMS34 - 1 Then CTL.Enabled = True Else CTL.Enabled = False
Next CTL
For Each CTL In Frame232.Controls

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CTL.Enabled = False
CTL.Value = ""
For i1 = 0 To NTRAMS34 - 1
    If CTL.TabIndex = 3 * i1 + 1 Or CTL.TabIndex = 3 * i1 + 2 Then CTL.Enabled = True
Next i1
If CTL.Name = "TextBox232" & NTRAMS34 & "2" Then
    CTL.Enabled = False
    CTL.Value = "i més"
End If
Next CTL
For Each CTL In Frame233.Controls
    If CTL.TabIndex <= NTRAMS34 - 1 Then CTL.Enabled = True Else CTL.Enabled = False
Next CTL
TextBox23211.Value = "0"

End Sub
Private Sub Llei_Click()

Dim i1 As Integer, j1 As Integer

If MultiPage1.Value = 0 Then

    TextBox1111.Value = IS_R_PARENT(1, 1)
    TextBox1112.Value = IS_R_PARENT(1, 2)
    ListBox111.Selected(20 - IS_R_PARENT(1, 3)) = True
    ListBox112.Selected(20 - IS_R_PARENT(1, 4)) = True
    TextBox1121.Value = IS_R_PARENT(2, 1)
    TextBox1131.Value = IS_R_PARENT(3, 1)
    TextBox1141.Value = IS_R_PARENT(4, 1)
    TextBox1151.Value = IS_R_PARENT(5, 1)
    TextBox1161.Value = IS_R_PARENT(6, 1)
    TextBox1171.Value = IS_R_PARENT(7, 1)

    TextBox121.Value = IS_R_PARENT_AD(1)
    TextBox122.Value = IS_R_PARENT_AD(2)
    TextBox123.Value = IS_R_PARENT_AD(3)
    TextBox124.Value = IS_R_PARENT_AD(4)
    TextBox125.Value = IS_R_PARENT_AD(5)

    TextBox131.Value = IS_R_DISCAP(1)
    TextBox132.Value = IS_R_DISCAP(2)
    ListBox131.Selected(100 - IS_R_EDATGR(1)) = True
    TextBox1311.Value = IS_R_EDATGR(2)

    ListBox141.Selected(100 - (IS_R_ASSEGU(1) * 100)) = True
    TextBox141.Value = IS_R_ASSEGU(2)
    ListBox142.Selected(100 - (IS_R_HABITA(1) * 100)) = True
    TextBox142.Value = IS_R_HABITA(2)
    ListBox143.Selected(100 - (IS_R_EMPRES(1) * 100)) = True
    TextBox143.Value = IS_R_EMPRES(2)
    ListBox144.Selected(100 - (IS_R_PARTIC(1) * 100)) = True
    TextBox144.Value = IS_R_PARTIC(2)
    ListBox145.Selected(100 - (IS_R_BENSCU(1) * 100)) = True
    TextBox145.Value = IS_R_BENSCU(2)
    ListBox146.Selected(100 - (IS_R_FINQUE(1) * 100)) = True
    TextBox146.Value = IS_R_FINQUE(2)

ElseIf MultiPage1.Value = 1 Then

    For Each CTL In Frame21.Controls
        For i1 = 1 To 4
            If i1 <> 2 Then
                For j1 = 1 To 4
                    If CTL.Name = "TextBox21" & i1 & j1 Then CTL.Text = Format(IS_COEF(i1, j1), "0.0000")
                Next j1
            End If
        Next i1
    Next CTL

    ListBox22.Selected(16 - IS_NTRAMS) = True
    For Each CTL In Frame222.Controls
        For i1 = 1 To IS_NTRAMS
            If i1 <> IS_NTRAMS And CTL.Name = "TextBox222" & i1 & "2" Then CTL.Text = IS_TRAMS(i1)
            If CTL.Name = "TextBox222" & i1 & "3" Then CTL.Text = Format(IS_TIPUS(i1) * 100, "#0.00")
        Next i1
    Next CTL
    ListBox23.Selected(16 - IS_NTRAMS) = True
    For Each CTL In Frame232.Controls
        For i1 = 1 To IS_NTRAMS
            If i1 <> IS_NTRAMS And CTL.Name = "TextBox232" & i1 & "2" Then CTL.Text = IS_TRAMS(i1)
            If CTL.Name = "TextBox232" & i1 & "3" Then CTL.Text = Format(IS_TIPUS(i1) * 100, "#0.00")
        Next i1
    Next CTL

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ElseIf MultiPage1.Value = 2 Then
    For Each CTL In Frame3.Controls
        If TypeName(CTL) = "ListBox" Then
            If Left(CTL.Name, 9) = "ListBox30" Then
                CTL.Selected(100 - IS_BONIF(1)) = True
            Else
                CTL.Selected(100 - IS_BONIF(2)) = True
            End If
        End If
    Next CTL

End If

End Sub
Private Sub ListBox_Simulref_Click()

Dim il As Integer, j1 As Integer, nsim As Integer, p(47, 10)

For il = 0 To ISIMULS(2) - 1
    If ListBox_SimulRef.Selected(il) = True Then
        nsim = ListBox_SimulRef.Value
        Exit For
    End If
Next il

Call COMUNS_1REFERENCIA_SIMULS("IS", nsim, p)

If MultiPage1.Value = 0 Then

    For j1 = 1 To 7
        For Each CTL In Frame11.Controls
            If CTL.Name = "TextBox11" & j1 & "1" Then CTL.Value = Format(p(1, j1), "#0")
        Next CTL
    Next j1
    TextBox1112.Value = Format(p(1, 8), "#0")
    ListBox111.Selected(20 - p(1, 9)) = True
    ListBox112.Selected(20 - p(1, 10)) = True

    For j1 = 1 To 5
        For Each CTL In Frame12.Controls
            If CTL.Name = "TextBox12" & j1 Then CTL.Value = p(2, j1)
        Next CTL
    Next j1
    TextBox131.Value = p(3, 1)
    TextBox132.Value = p(3, 2)
    ListBox131.Selected(IIf(p(4, 1) <> 0, 100 - p(4, 1), 51)) = True
    TextBox1311.Value = p(4, 2)

    ListBox141.Selected(100 - Format(p(5, 1) * 100, "#0")) = True
    TextBox141.Value = p(5, 2)
    ListBox142.Selected(100 - Format(p(6, 1) * 100, "#0")) = True
    TextBox142.Value = p(6, 2)
    ListBox143.Selected(100 - Format(p(7, 1) * 100, "#0")) = True
    TextBox143.Value = p(7, 2)
    ListBox144.Selected(100 - Format(p(8, 1) * 100, "#0")) = True
    TextBox144.Value = p(8, 2)
    ListBox145.Selected(100 - Format(p(9, 1) * 100, "#0")) = True
    TextBox145.Value = p(9, 2)
    ListBox146.Selected(100 - Format(p(10, 1) * 100, "#0")) = True
    TextBox146.Value = p(10, 2)

ElseIf MultiPage1.Value = 1 Then

    For Each CTL In Frame21.Controls
        For il = 1 To 4
            If il <> 2 Then
                For j1 = 1 To 4
                    If CTL.Name = "TextBox21" & il & j1 Then CTL.Value = Format(p(10 + il, j1), "0.0000")
                Next j1
            End If
        Next il
    Next CTL

    ListBox22.Selected(16 - p(0, 2)) = True
    For Each CTL In Frame222.Controls
        For il = 1 To p(0, 2)
            If il <> p(0, 2) And CTL.Name = "TextBox222" & il & "2" Then CTL.Text = p(14 + il, 2)
            If CTL.Name = "TextBox222" & il & "3" Then CTL.Text = Format(p(14 + il, 3) * 100, "#0.00")
        Next il
    Next CTL
    ListBox23.Selected(16 - p(0, 3)) = True

```

```

For Each CTL In Frame232.Controls
    For il = 1 To p(0, 3)
        If il <> p(0, 3) And CTL.Name = "TextBox232" & il & "2" Then CTL.Text = p(14 + il, 6)
        If CTL.Name = "TextBox232" & il & "3" Then CTL.Text = Format(p(14 + il, 7) * 100, "#0.00")
    Next il
Next CTL

ElseIf MultiPagel.Value = 2 Then

    ListBox3011.Selected(100 - p(31, 1) * 100) = True: ListBox3012.Selected(100 - p(31, 2) * 100) = True
    ListBox3021.Selected(100 - p(32, 1) * 100) = True: ListBox3022.Selected(100 - p(32, 2) * 100) = True
    ListBox3031.Selected(100 - p(33, 1) * 100) = True: ListBox3032.Selected(100 - p(33, 2) * 100) = True
    ListBox3041.Selected(100 - p(34, 1) * 100) = True: ListBox3042.Selected(100 - p(34, 2) * 100) = True
    ListBox305.Selected(100 - p(35, 1) * 100) = True
    ListBox306.Selected(100 - p(36, 1) * 100) = True
    ListBox307.Selected(100 - p(37, 1) * 100) = True
    ListBox308.Selected(100 - p(38, 1) * 100) = True
    ListBox309.Selected(100 - p(39, 1) * 100) = True
    ListBox310.Selected(100 - p(40, 1) * 100) = True
    ListBox311.Selected(100 - p(41, 1) * 100) = True
    ListBox312.Selected(100 - p(42, 1) * 100) = True
    ListBox313.Selected(100 - p(43, 1) * 100) = True
    ListBox314.Selected(100 - p(44, 1) * 100) = True
    ListBox315.Selected(100 - p(45, 1) * 100) = True
    ListBox316.Selected(100 - p(46, 1) * 100) = True
    ListBox317.Selected(100 - p(47, 1) * 100) = True

End If

End Sub
Private Sub MultiPagel_Layout(ByVal Index As Long)

If MultiPagel.Value = 0 Then
    Aceptar.Left = 223
    Anterior.Visible = False
    Cancelar.Left = 273
Else
    Aceptar.Left = 248
    Anterior.Visible = True
    Cancelar.Left = 298
End If

End Sub
Private Sub NetejaValors_Click()

Dim il As Integer, j1 As Integer

If MultiPagel.Value = 0 Then

    For Each CTL In MultiPagel(0).Controls
        If TypeName(CTL) = "TextBox" Then CTL.Value = 0
    Next CTL

    ListBox111.Selected(20) = True
    ListBox112.Selected(20) = True

    ListBox131.Selected(51) = True

    ListBox141.Selected(100) = True
    ListBox142.Selected(100) = True
    ListBox143.Selected(100) = True
    ListBox144.Selected(100) = True
    ListBox145.Selected(100) = True
    ListBox146.Selected(100) = True

ElseIf MultiPagel.Value = 1 Then

    For Each CTL In Frame21.Controls
        For il = 1 To 4
            If il <> 2 Then
                For j1 = 1 To 4
                    If CTL.Name = "TextBox21" & il & j1 Then CTL.Text = "0.0000"
                Next j1
            End If
        Next il
    Next CTL
    ListBox22.Selected(15) = True
    ListBox23.Selected(15) = True
    TextBox22213.Text = 14
    TextBox23213.Text = 14

ElseIf MultiPagel.Value = 2 Then

```

```
For Each CTL In Frame3.Controls
    If TypeName(CTL) = "ListBox" Then CTL.Selected(100) = True
Next CTL

End If

End Sub
Private Sub SimulRef_Change()

Dim i1 As Integer

If SimulRef Then
    Frame02.Width = 190
    For i1 = 0 To ISIMULS(2) - 1
        ListBox_SimulRef.Selected(i1) = False
    Next i1
Else
    Frame02.Width = 150
    ListBox_SimulRef.TopIndex = 0
End If

End Sub
Private Sub TextBox22212_Change()

If IsNumeric(TextBox22212.Value) Then TextBox22221.Value = TextBox22212.Value

End Sub
Private Sub TextBox22222_Change()

If IsNumeric(TextBox22222.Value) Then TextBox22231.Value = TextBox22222.Value

End Sub
Private Sub TextBox22232_Change()

If IsNumeric(TextBox22232.Value) Then TextBox22241.Value = TextBox22232.Value

End Sub
Private Sub TextBox22242_Change()

If IsNumeric(TextBox22242.Value) Then TextBox22251.Value = TextBox22242.Value

End Sub
Private Sub TextBox22252_Change()

If IsNumeric(TextBox22252.Value) Then TextBox22261.Value = TextBox22252.Value

End Sub
Private Sub TextBox22262_Change()

If IsNumeric(TextBox22262.Value) Then TextBox22271.Value = TextBox22262.Value

End Sub
Private Sub TextBox22272_Change()

If IsNumeric(TextBox22272.Value) Then TextBox22281.Value = TextBox22272.Value

End Sub
Private Sub TextBox22282_Change()

If IsNumeric(TextBox22282.Value) Then TextBox22291.Value = TextBox22282.Value

End Sub
Private Sub TextBox22292_Change()

If IsNumeric(TextBox22292.Value) Then TextBox222101.Value = TextBox22292.Value

End Sub
Private Sub TextBox222102_Change()

If IsNumeric(TextBox222102.Value) Then TextBox222111.Value = TextBox222102.Value

End Sub
Private Sub TextBox222112_Change()

If IsNumeric(TextBox222112.Value) Then TextBox222121.Value = TextBox222112.Value

End Sub
Private Sub TextBox222122_Change()

If IsNumeric(TextBox222122.Value) Then TextBox222131.Value = TextBox222122.Value

End Sub
Private Sub TextBox222132_Change()
```

```
If IsNumeric(TextBox222132.Value) Then TextBox222141.Value = TextBox222132.Value

End Sub
Private Sub TextBox222142_Change()

If IsNumeric(TextBox222142.Value) Then TextBox222151.Value = TextBox222142.Value

End Sub
Private Sub TextBox222152_Change()

If IsNumeric(TextBox222152.Value) Then TextBox222161.Value = TextBox222152.Value

End Sub
Private Sub TextBox23212_Change()

If IsNumeric(TextBox23212.Value) Then TextBox23221.Value = TextBox23212.Value

End Sub
Private Sub TextBox23222_Change()

If IsNumeric(TextBox23222.Value) Then TextBox23231.Value = TextBox23222.Value

End Sub
Private Sub TextBox23232_Change()

If IsNumeric(TextBox23232.Value) Then TextBox23241.Value = TextBox23232.Value

End Sub
Private Sub TextBox23242_Change()

If IsNumeric(TextBox23242.Value) Then TextBox23251.Value = TextBox23242.Value

End Sub
Private Sub TextBox23252_Change()

If IsNumeric(TextBox23252.Value) Then TextBox23261.Value = TextBox23252.Value

End Sub
Private Sub TextBox23262_Change()

If IsNumeric(TextBox23262.Value) Then TextBox23271.Value = TextBox23262.Value

End Sub
Private Sub TextBox23272_Change()

If IsNumeric(TextBox23272.Value) Then TextBox23281.Value = TextBox23272.Value

End Sub
Private Sub TextBox23282_Change()

If IsNumeric(TextBox23282.Value) Then TextBox23291.Value = TextBox23282.Value

End Sub
Private Sub TextBox23292_Change()

If IsNumeric(TextBox23292.Value) Then TextBox232101.Value = TextBox23292.Value

End Sub
Private Sub TextBox232102_Change()

If IsNumeric(TextBox232102.Value) Then TextBox232111.Value = TextBox232102.Value

End Sub
Private Sub TextBox232112_Change()

If IsNumeric(TextBox232112.Value) Then TextBox232121.Value = TextBox232112.Value

End Sub
Private Sub TextBox232122_Change()

If IsNumeric(TextBox232122.Value) Then TextBox232131.Value = TextBox232122.Value

End Sub
Private Sub TextBox232132_Change()

If IsNumeric(TextBox232132.Value) Then TextBox232141.Value = TextBox232132.Value

End Sub
Private Sub TextBox232142_Change()

If IsNumeric(TextBox232142.Value) Then TextBox232151.Value = TextBox232142.Value
```

```
End Sub
Private Sub TextBox232152_Change()

If IsNumeric(TextBox232152.Value) Then TextBox232161.Value = TextBox232152.Value

End Sub
Private Sub UserForm_Activate()

height1 = Me.Height
left1 = Me.Left
top1 = Me.Top
width1 = Me.Width
Zoom = IIf(XZOOM < 200, 100, IIf(Not XTEXT, 150, 100))
If ISIMULS(2) <> 0 Then Frame02.Width = 150 Else Frame02.Width = 104

End Sub
Private Sub UserForm_QueryClose(Cancel As Integer, CloseMode As Integer)

If CloseMode = 0 Then SORTIR = True
Unload Me

End Sub
Private Sub UserForm_Zoom(Percent As Integer)

Me.Width = Me.Width * Percent / 100
Me.Height = Me.Height * Percent / 100
Me.Left = left1 - ((Me.Width - width1) / 2)
Me.Top = top1 - ((Me.Width - width1) / 2)

End Sub
```

```

Attribute VB_Name = "IS2"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PredeclaredId = True
Attribute VB_Exposed = False

Option Explicit
Dim height1 As Integer, left1 As Integer, top1 As Integer, width1 As Integer
Private Sub Aceptar_Click()

Dim i1 As Integer, j1 As Integer
ERR_LEC = False

If MultiPage1.Value = 0 Then

    ReDim R_BASE(1 To 6, 1 To 4)           'Reduccions a la base
    R_BASE(1, 1) = ListBox11.Value / 100 'Activitat empresarial
    R_BASE(2, 1) = ListBox12.Value / 100 'Participacions entitats
    R_BASE(3, 1) = ListBox13.Value / 100 'Patrimoni cultural

    R_BASE(5, 1) = ListBox15.Value / 100 'Altres(3)
    If Not IsNumeric(TextBox151.Value) Or Val(TextBox151.Value) < 0 Then
        ERR_LEC = True
        Me.Hide
        MsgBox "Error en el límit general de la reducció Altres(3).", vbCritical, TITOL_ID
        Exit Sub
    Else
        R_BASE(5, 2) = Val(Replace(TextBox151.Value, ",", "."))
    End If
    If Not IsNumeric(TextBox152.Value) Or Val(TextBox152.Value) < 0 Then
        ERR_LEC = True
        Me.Hide
        MsgBox "Error en el límit (discapacitats) de la reducció Altres(3).", vbCritical, TITOL_ID
        Exit Sub
    Else
        R_BASE(5, 3) = Val(Replace(TextBox152.Value, ",", "."))
    End If

    R_BASE(6, 1) = ListBox16.Value / 100 'Altres(4)
    If Not IsNumeric(TextBox161.Value) Or Val(TextBox161.Value) < 0 Then
        ERR_LEC = True
        Me.Hide
        MsgBox "Error en el límit general de la reducció Altres(4).", vbCritical, TITOL_ID
        Exit Sub
    Else
        R_BASE(6, 2) = Val(Replace(TextBox161.Value, ",", "."))
    End If
    If Not IsNumeric(TextBox162.Value) Or Val(TextBox162.Value) < 0 Then
        ERR_LEC = True
        Me.Hide
        MsgBox "Error en el límit (discapacitats) de la reducció Altres(4).", vbCritical, TITOL_ID
        Exit Sub
    Else
        R_BASE(6, 3) = Val(Replace(TextBox162.Value, ",", "."))
    End If
    R_BASE(6, 4) = ListBox161.Value

    ReDim PARMS(18, 6)           'Guarda els paràmetres del primer quadre a PARMS'
    PARMS(0, 0) = "Paràmetres"
    PARMS(0, 1) = ID_ANYREF
    For i1 = 1 To 6
        If i1 <> 4 Then
            PARMS(i1, 1) = R_BASE(i1, 1)
        End If
    Next i1
    For i1 = 5 To 6
        For j1 = 2 To IIf(i1 = 5, 3, 4)
            PARMS(i1, j1) = R_BASE(i1, j1)
        Next j1
    Next i1

ElseIf MultiPage1.Value = 1 Then

    ReDim COEF(1 To 4)
    For i1 = 1 To 4
        If i1 <> 2 Then
            For Each CTL In Frame21.Controls
                If CTL.Name = "TextBox21" & i1 Then
                    If Not IsNumeric(CTL.Value) Or Val(CTL.Value) <= 0 Then
                        ERR_LEC = True
                        Me.Hide
                        MsgBox "Error en el coeficient multiplicador" & i1 & ".", vbCritical, TITOL_ID
                    End If
                End If
            Next CTL
        End If
    Next i1

```

```

        Exit Sub
    Else
        COEF(il) = Val(Replace(CTL.Value, ",", "."))
    End If
End If
Next CTL
End If
Next il
COEF(2) = COEF(1)

NTRAMS12 = ListBox22.Value      'Trams i tipus grups 1 i 2
ReDim TIPUS12(1 To NTRAMS12), T12(1 To NTRAMS12)
For il = 1 To NTRAMS12
    For Each CTL In Frame222.Controls
        If il <> NTRAMS12 Then
            If CTL.Name = "TextBox222" & il & "2" Then
                If Not IsNumeric(CTL.Value) Or Val(CTL.Value) <= 0 Then
                    ERR_LEC = True
                    Me.Hide
                    MsgBox "Error en el TRAM " & il & " de la tarifa dels Grups 1 i 2.", vbCritical, TITOL_ID
                    Exit Sub
                Else
                    T12(il) = Val(Replace(CTL.Value, ",", "."))
                End If
            End If
        End If
        If CTL.Name = "TextBox222" & il & "3" Then
            If Not IsNumeric(CTL.Value) Or (Val(CTL.Value) < 0 Or Val(CTL.Value) >= 100) Then
                ERR_LEC = True
                Me.Hide
                MsgBox "Error en el tipus impositiu del TRAM " & il & " dels Grups 1 i 2.", vbCritical,
TITOL_ID
            Exit Sub
        Else
            TIPUS12(il) = Val(Replace(CTL.Value, ",", ".")) / 100
        End If
    End If
Next CTL
If il <> 1 Then
    If il <> NTRAMS12 Then
        If T12(il) <= T12(il - 1) Then
            ERR_LEC = True
            Me.Hide
            MsgBox "Error en el TRAM " & il & " de la tarifa dels Grups 1 i 2.", vbCritical, TITOL_ID
            Exit Sub
        End If
    End If
    If TIPUS12(il) < TIPUS12(il - 1) Then
        ERR_LEC = True
        Me.Hide
        MsgBox "Error en el tipus impositiu del TRAM " & il & " dels Grups 1 i 2.", vbCritical, TITOL_ID
        Exit Sub
    End If
End If
Next il

NTRAMS34 = ListBox23.Value      'Trams i tipus grups 3 i 4
ReDim TIPUS34(1 To NTRAMS34), T34(1 To NTRAMS34)
For il = 1 To NTRAMS34
    For Each CTL In Frame232.Controls
        If il <> NTRAMS34 Then
            If CTL.Name = "TextBox232" & il & "2" Then
                If Not IsNumeric(CTL.Value) Or Val(CTL.Value) <= 0 Then
                    ERR_LEC = True
                    Me.Hide
                    MsgBox "Error en el TRAM " & il & " de la tarifa dels Grups 3 i 4.", vbCritical, TITOL_ID
                    Exit Sub
                Else
                    T34(il) = Val(Replace(CTL.Value, ",", "."))
                End If
            End If
        End If
        If CTL.Name = "TextBox232" & il & "3" Then
            If Not IsNumeric(CTL.Value) Or (Val(CTL.Value) < 0 Or Val(CTL.Value) >= 100) Then
                ERR_LEC = True
                Me.Hide
                MsgBox "Error en el tipus impositiu del TRAM " & il & " del Grups 3 i 4.", vbCritical, TITOL_ID
                Exit Sub
            Else
                TIPUS34(il) = Val(Replace(CTL.Value, ",", ".")) / 100
            End If
        End If
    End If
Next CTL

```

```

If il <> 1 Then
  If il <> NTRAMS34 Then
    If T34(il) <= T34(il - 1) Then
      ERR_LEC = True
      Me.Hide
      MsgBox "Error en el TRAM " & il & " de la tarifa dels Grups 3 i 4.", vbCritical, TITOL_ID
      Exit Sub
    End If
  End If
  If TIPUS34(il) < TIPUS34(il - 1) Then
    ERR_LEC = True
    Me.Hide
    MsgBox "Error en el tipus impositiu del TRAM " & il & " dels Grups 3 i 4.", vbCritical, TITOL_ID
    Exit Sub
  End If
End If
Next il

ReDim BONIF(1 To 4)
BONIF(1) = Val(ListBox241.Value) / 100
BONIF(2) = Val(ListBox241.Value) / 100
BONIF(3) = Val(ListBox243.Value) / 100
BONIF(4) = Val(ListBox244.Value) / 100

PARMS(0, 2) = NTRAMS12          'Guarda els paràmetres del segon quadre a PARMS'
PARMS(0, 3) = NTRAMS34

For j1 = 1 To 4
  PARMS(7, j1) = COEF(j1)
Next j1

For il = 1 To NTRAMS12
  If il = 1 Then
    PARMS(7 + il, 1) = "0"
    PARMS(7 + il, 2) = IIf(il <> NTRAMS12, T12(il), "i més")
    PARMS(7 + il, 3) = TIPUS12(il) + 0.0000000001
  ElseIf il < NTRAMS12 Then
    PARMS(7 + il, 1) = T12(il - 1)
    PARMS(7 + il, 2) = T12(il)
    PARMS(7 + il, 3) = TIPUS12(il) + 0.0000000001
  Else
    PARMS(7 + il, 1) = T12(il - 1)
    PARMS(7 + il, 2) = "i més"
    PARMS(7 + il, 3) = TIPUS12(il) + 0.0000000001
  End If
Next il

For il = 1 To NTRAMS34
  If il = 1 Then
    PARMS(7 + il, 4) = "0"
    PARMS(7 + il, 5) = IIf(il <> NTRAMS34, T34(il), "i més")
    PARMS(7 + il, 6) = TIPUS34(il) + 0.0000000001
  ElseIf il < NTRAMS34 Then
    PARMS(7 + il, 4) = T34(il - 1)
    PARMS(7 + il, 5) = T34(il)
    PARMS(7 + il, 6) = TIPUS34(il) + 0.0000000001
  Else
    PARMS(7 + il, 4) = T34(il - 1)
    PARMS(7 + il, 5) = "i més"
    PARMS(7 + il, 6) = TIPUS34(il) + 0.0000000001
  End If
Next il

For j1 = 1 To 4
  PARMS(18, j1) = BONIF(j1)
Next j1

End If

Unload Me

End Sub
Private Sub Anterior_Click()

Dim il As Integer, j1 As Integer

PAGINA = PAGINA - 1

MultiPagel.Value = PAGINA
Me.Caption = "SIMCAT-ID: Reduccions a la Base Imposable" & " (Base de dades: " & ANOID & " )"
NetejaValors.Value = False
SimulRef.Value = False

```

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```
ListBox11.Selected(100 - PARS(1, 1) * 100) = True
ListBox12.Selected(100 - PARS(2, 1) * 100) = True
ListBox13.Selected(100 - PARS(3, 1) * 100) = True
ListBox15.Selected(100 - PARS(5, 1) * 100) = True
TextBox151.Value = PARS(5, 2)
TextBox152.Value = PARS(5, 3)
ListBox16.Selected(100 - PARS(6, 1) * 100) = True
TextBox161.Value = PARS(6, 2)
TextBox162.Value = PARS(6, 3)
ListBox161.Selected(40 - PARS(6, 4)) = True

End Sub
Private Sub Cancelar_Click()

SORTIR = True
IMPOST(3) = True
Unload Me

End Sub
Private Sub ListBox22_Click()

Dim il As Integer

NTRAMS12 = ListBox22.Value
For Each CTL In Frame231.Controls
    If CTL.TabIndex <= NTRAMS12 - 1 Then CTL.Enabled = True Else CTL.Enabled = False
Next CTL
For Each CTL In Frame222.Controls
    CTL.Enabled = False
    CTL.Value = ""
    For il = 0 To NTRAMS12 - 1
        If CTL.TabIndex = 3 * il + 1 Or CTL.TabIndex = 3 * il + 2 Then CTL.Enabled = True
    Next il
    If CTL.Name = "TextBox222" & NTRAMS12 & "2" Then
        CTL.Enabled = False
        CTL.Value = "i més"
    End If
Next CTL
For Each CTL In Frame223.Controls
    If CTL.TabIndex <= NTRAMS12 - 1 Then CTL.Enabled = True Else CTL.Enabled = False
Next CTL
TextBox22211.Value = "0"

End Sub
Private Sub ListBox23_Click()

Dim il As Integer

NTRAMS34 = ListBox23.Value
For Each CTL In Frame231.Controls
    If CTL.TabIndex <= NTRAMS34 - 1 Then CTL.Enabled = True Else CTL.Enabled = False
Next CTL
For Each CTL In Frame232.Controls
    CTL.Enabled = False
    CTL.Value = ""
    For il = 0 To NTRAMS34 - 1
        If CTL.TabIndex = 3 * il + 1 Or CTL.TabIndex = 3 * il + 2 Then CTL.Enabled = True
    Next il
    If CTL.Name = "TextBox232" & NTRAMS34 & "2" Then
        CTL.Enabled = False
        CTL.Value = "i més"
    End If
Next CTL
For Each CTL In Frame233.Controls
    If CTL.TabIndex <= NTRAMS34 - 1 Then CTL.Enabled = True Else CTL.Enabled = False
Next CTL
TextBox23211.Value = "0"

End Sub
Private Sub Llei_Click()

Dim il As Integer, j1 As Integer

If MultiPage1.Value = 0 Then

    ListBox11.Selected(100 - (ID_R_BASE(1, 1) * 100)) = True
    ListBox12.Selected(100 - (ID_R_BASE(2, 1) * 100)) = True
    ListBox13.Selected(100 - (ID_R_BASE(3, 1) * 100)) = True
    ListBox15.Selected(100 - (ID_R_BASE(5, 1) * 100)) = True
    TextBox151.Value = ID_R_BASE(5, 2)
    TextBox152.Value = ID_R_BASE(5, 3)
    ListBox16.Selected(100 - (ID_R_BASE(6, 1) * 100)) = True
    TextBox161.Value = ID_R_BASE(6, 2)
```

```

    TextBox162.Value = ID_R_BASE(6, 3)
    ListBox161.Selected(40 - ID_R_BASE(6, 4)) = True

ElseIf MultiPage1.Value = 1 Then

    TextBox211.Text = Format(ID_COEF(1), "0.0000")
    TextBox213.Text = Format(ID_COEF(3), "0.0000")
    TextBox214.Text = Format(ID_COEF(4), "0.0000")

    ListBox22.Selected(10 - ID_NTRAMS12) = True
    For Each CTL In Frame222.Controls
        For il = 1 To ID_NTRAMS12
            If il <> ID_NTRAMS12 And CTL.Name = "TextBox222" & il & "2" Then CTL.Text = ID_TRAMS12(il)
            If CTL.Name = "TextBox222" & il & "3" Then CTL.Text = Format(ID_TIPUS12(il) * 100, "#0.00")
        Next il
    Next CTL
    ListBox23.Selected(10 - ID_NTRAMS34) = True
    For Each CTL In Frame232.Controls
        For il = 1 To ID_NTRAMS34
            If il <> ID_NTRAMS34 And CTL.Name = "TextBox232" & il & "2" Then CTL.Text = ID_TRAMS34(il)
            If CTL.Name = "TextBox232" & il & "3" Then CTL.Text = Format(ID_TIPUS34(il) * 100, "#0.00")
        Next il
    Next CTL

    ListBox241.Selected(100) = True
    ListBox243.Selected(100) = True
    ListBox244.Selected(100) = True

End If

End Sub
Private Sub ListBox_Simulref_Click()

Dim il As Integer, j1 As Integer, nsim As Integer, p(22, 6)

For il = 0 To ISIMULS(3) - 1
    If ListBox_SimulRef.Selected(il) = True Then
        nsim = ListBox_SimulRef.Value
        Exit For
    End If
Next il

Call COMUNS_IREFERENCIA_SIMULS("ID", nsim, p)

If MultiPage1.Value = 0 Then

    ListBox11.Selected(100 - p(1, 1) * 100) = True
    ListBox12.Selected(100 - p(2, 1) * 100) = True
    ListBox13.Selected(100 - p(3, 1) * 100) = True
    ListBox15.Selected(100 - p(5, 1) * 100) = True
    TextBox151.Value = p(5, 2)
    TextBox152.Value = p(5, 3)
    ListBox16.Selected(100 - p(6, 1) * 100) = True
    TextBox161.Value = p(6, 2)
    TextBox162.Value = p(6, 3)
    ListBox161.Selected(40 - p(6, 4)) = True

ElseIf MultiPage1.Value = 1 Then

    TextBox211.Text = Format(p(7, 1), "0.0000")
    TextBox213.Text = Format(p(7, 3), "0.0000")
    TextBox214.Text = Format(p(7, 4), "0.0000")

    ListBox22.Selected(10 - p(0, 2)) = True
    For Each CTL In Frame222.Controls
        For il = 1 To p(0, 2)
            If il <> p(0, 2) And CTL.Name = "TextBox222" & il & "2" Then CTL.Text = p(7 + il, 2)
            If CTL.Name = "TextBox222" & il & "3" Then CTL.Text = Format(p(7 + il, 3) * 100, "#0.00")
        Next il
    Next CTL
    ListBox23.Selected(10 - p(0, 3)) = True
    For Each CTL In Frame232.Controls
        For il = 1 To p(0, 3)
            If il <> p(0, 3) And CTL.Name = "TextBox232" & il & "2" Then CTL.Text = p(7 + il, 5)
            If CTL.Name = "TextBox232" & il & "3" Then CTL.Text = Format(p(7 + il, 6) * 100, "#0.00")
        Next il
    Next CTL

End If

End Sub
Private Sub MultiPage1_Layout(ByVal Index As Long)

```

```
If MultiPage1.Value = 0 Then
    Aceptar.Left = 223
    Anterior.Visible = False
    Cancelar.Left = 273
Else
    Aceptar.Left = 248
    Anterior.Visible = True
    Cancelar.Left = 298
End If

End Sub
Private Sub NetejaValors_Click()

Dim i1 As Integer, j1 As Integer

If MultiPage1.Value = 0 Then

    ListBox11.Selected(100) = True
    ListBox12.Selected(100) = True
    ListBox13.Selected(100) = True
    ListBox15.Selected(100) = True
    TextBox151.Value = "0"
    TextBox152.Value = "0"
    ListBox16.Selected(100) = True
    TextBox161.Value = "0"
    TextBox162.Value = "0"
    ListBox161.Selected(4) = True

ElseIf MultiPage1.Value = 1 Then

    TextBox211.Text = Format(1, "0.0000")
    TextBox213.Text = Format(1, "0.0000")
    TextBox214.Text = Format(1, "0.0000")
    ListBox22.Selected(9) = True
    ListBox23.Selected(9) = True
    TextBox22213.Text = 14
    TextBox23213.Text = 14
    ListBox241.Selected(100) = True
    ListBox243.Selected(100) = True
    ListBox244.Selected(100) = True

End If

End Sub
Private Sub SimulRef_Change()

Dim i1 As Integer

If SimulRef Then
    Frame02.Width = 190
    For i1 = 0 To ISIMULS(3) - 1
        ListBox_SimulRef.Selected(i1) = False
    Next i1
Else
    Frame02.Width = 150
    ListBox_SimulRef.TopIndex = 0
End If

End Sub
Private Sub TextBox22212_Change()

If IsNumeric(TextBox22212.Value) Then TextBox22221.Value = TextBox22212.Value

End Sub
Private Sub TextBox22222_Change()

If IsNumeric(TextBox22222.Value) Then TextBox22231.Value = TextBox22222.Value

End Sub
Private Sub TextBox22232_Change()

If IsNumeric(TextBox22232.Value) Then TextBox22241.Value = TextBox22232.Value

End Sub
Private Sub TextBox22242_Change()

If IsNumeric(TextBox22242.Value) Then TextBox22251.Value = TextBox22242.Value

End Sub
Private Sub TextBox22252_Change()

If IsNumeric(TextBox22252.Value) Then TextBox22261.Value = TextBox22252.Value
```

```

End Sub
Private Sub TextBox22262_Change()

If IsNumeric(TextBox22262.Value) Then TextBox22271.Value = TextBox22262.Value

End Sub
Private Sub TextBox22272_Change()

If IsNumeric(TextBox22272.Value) Then TextBox22281.Value = TextBox22272.Value

End Sub
Private Sub TextBox22282_Change()

If IsNumeric(TextBox22282.Value) Then TextBox22291.Value = TextBox22282.Value

End Sub
Private Sub TextBox22292_Change()

If IsNumeric(TextBox22292.Value) Then TextBox222101.Value = TextBox22292.Value

End Sub
Private Sub TextBox23212_Change()

If IsNumeric(TextBox23212.Value) Then TextBox23221.Value = TextBox23212.Value

End Sub
Private Sub TextBox23222_Change()

If IsNumeric(TextBox23222.Value) Then TextBox23231.Value = TextBox23222.Value

End Sub
Private Sub TextBox23232_Change()

If IsNumeric(TextBox23232.Value) Then TextBox23241.Value = TextBox23232.Value

End Sub
Private Sub TextBox23242_Change()

If IsNumeric(TextBox23242.Value) Then TextBox23251.Value = TextBox23242.Value

End Sub
Private Sub TextBox23252_Change()

If IsNumeric(TextBox23252.Value) Then TextBox23261.Value = TextBox23252.Value

End Sub
Private Sub TextBox23262_Change()

If IsNumeric(TextBox23262.Value) Then TextBox23271.Value = TextBox23262.Value

End Sub
Private Sub TextBox23272_Change()

If IsNumeric(TextBox23272.Value) Then TextBox23281.Value = TextBox23272.Value

End Sub
Private Sub TextBox23282_Change()

If IsNumeric(TextBox23282.Value) Then TextBox23291.Value = TextBox23282.Value

End Sub
Private Sub TextBox23292_Change()

If IsNumeric(TextBox23292.Value) Then TextBox232101.Value = TextBox23292.Value

End Sub
Private Sub UserForm_Activate()

height1 = Me.Height
left1 = Me.Left
top1 = Me.Top
width1 = Me.Width
Zoom = IIf(XZOOM < 200, 100, IIf(Not XTEXT, 150, 100))
If ISIMULS(3) <> 0 Then Frame02.Width = 150 Else Frame02.Width = 104

End Sub
Private Sub UserForm_QueryClose(Cancel As Integer, CloseMode As Integer)

If CloseMode = 0 Then SORTIR = True
Unload Me

End Sub
Private Sub UserForm_Zoom(Percent As Integer)

```

```
Me.Width = Me.Width * Percent / 100
Me.Height = Me.Height * Percent / 100
Me.Left = left1 - ((Me.Width - width1) / 2)
Me.Top = top1 - ((Me.Width - width1) / 2)
```

```
End Sub
```

```

Attribute VB_Name = "ITPOAJDOS"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PredeclaredId = True
Attribute VB_Exposed = False

Option Explicit
Dim height1 As Integer, left1 As Integer, top1 As Integer, width1 As Integer
Private Sub Aceptar_Click()

Dim i1 As Integer, j1 As Integer
ERR_LEC = False

ReDim TIPUS_TPO(1 To 17)
For Each CTL In Framell12.Controls
    For i1 = 1 To 17
        If i1 <> 13 Then
            If CTL.Name = "TextBox1112" & i1 Then
                If Not IsNumeric(CTL.Value) Or (Val(CTL.Value) < 0 Or Val(CTL.Value) >= 100) Then
                    ERR_LEC = True
                    Me.Hide
                    MsgBox "Error en el tipus impositiu de la Tarifa " & IT_TARIFA_TPO(i1) & ".", vbCritical,
TITOL_IT
                    Exit Sub
                Else
                    TIPUS_TPO(i1) = Val(Replace(CTL.Value, ",", ".")) / 100
                End If
            End If
        End If
    Next i1
Next CTL

NTRAMS_AUR = ListBox112.Value
ReDim TRAMS_AUR(1 To NTRAMS_AUR + 1), IMPORT_AUR(1 To NTRAMS_AUR + 1)
For i1 = 1 To NTRAMS_AUR
    For Each CTL In Framell22.Controls
        If CTL.Name = "TextBox1122" & i1 & "2" Then
            If Not IsNumeric(CTL.Value) Or Val(CTL.Value) <= 0 Then
                ERR_LEC = True
                Me.Hide
                MsgBox "Error en el tram-" & i1 & " de la Tarifa AUR.", vbCritical, TITOL_IT
                Exit Sub
            Else
                TRAMS_AUR(i1) = Val(Replace(CTL.Value, ",", "."))
            End If
        End If
        If CTL.Name = "TextBox1122" & i1 & "3" Then
            If Not IsNumeric(CTL.Value) Or Val(CTL.Value) < 0 Or Val(CTL.Value) >= TRAMS_AUR(i1) Then
                ERR_LEC = True
                Me.Hide
                MsgBox "Error en l'import del tram-" & i1 & " de la tarifa AUR.", vbCritical, TITOL_IT
                Exit Sub
            Else
                IMPORT_AUR(i1) = Val(Replace(CTL.Value, ",", "."))
            End If
        End If
    Next CTL
    If i1 <> 1 Then
        If TRAMS_AUR(i1) <= TRAMS_AUR(i1 - 1) Then
            ERR_LEC = True
            Me.Hide
            MsgBox "Error en el tram-1" & i1 & " de la tarifa AUR.", vbCritical, TITOL_IT
            Exit Sub
        End If
        If IMPORT_AUR(i1) < IMPORT_AUR(i1 - 1) Then
            ERR_LEC = True
            Me.Hide
            MsgBox "Error en l'import del tram-" & i1 & " de la tarifa AUR.", vbCritical, TITOL_IS
            Exit Sub
        End If
    End If
Next i1
If Not IsNumeric(TextBox11242.Value) Or Val(TextBox11242.Value) < 0 Then
    ERR_LEC = True
    Me.Hide
    MsgBox "Error en el darrer import de la tarifa AUR.", vbCritical, TITOL_IT
    Exit Sub
Else
    IMPORT_AUR(NTRAMS_AUR + 1) = Val(Replace(TextBox11242.Value, ",", "."))
End If
If Not IsNumeric(TextBox11243.Value) Or Val(TextBox11243.Value) <= 0 Then
    ERR_LEC = True
    Me.Hide

```

```

MsgBox "Error en el darrer tram de la tarifa AUR.", vbCritical, TITOL_IT
Exit Sub
Else
TRAMS_AUR(NTRAMS_AUR + 1) = Val(Replace(TextBox11243.Value, ",", "."))
End If

BON_TUB = Val(ListBox_TUB.Value) / 100

PROJ(1) = 1 + (ListBox_TPO.Value / 100)

ReDim TIPUS_OS(1 To 17)
For Each CTL In Frame122.Controls
For il = 1 To 7
If CTL.Name = "TextBox122" & il Then
If Not IsNumeric(CTL.Value) Or (Val(CTL.Value) < 0 Or Val(CTL.Value) >= 100) Then
ERR_LEC = True
Me.Hide
MsgBox "Error en el tipus impositiu de la Tarifa " & IT_TARIFA_OS(il) & ".", vbCritical, TITOL_IT
Exit Sub
Else
TIPUS_OS(il) = Val(Replace(CTL.Value, ",", ".")) / 100
End If
End If
Next il
Next CTL

PROJ(2) = 1 + (ListBox_OS.Value / 100)

ReDim TIPUS_AJD(1 To 17)
For Each CTL In Frame132.Controls
For il = 1 To 17
If CTL.Name = "TextBox132" & il Then
If Not IsNumeric(CTL.Value) Or (Val(CTL.Value) < 0 Or Val(CTL.Value) >= 100) Then
ERR_LEC = True
Me.Hide
MsgBox "Error en el tipus impositiu de la Tarifa " & IT_TARIFA_AJD(il) & ".", vbCritical, TITOL_IT
Exit Sub
Else
TIPUS_AJD(il) = Val(Replace(CTL.Value, ",", ".")) / 100
End If
End If
Next il
Next CTL

PROJ(3) = 1 + (ListBox_AJD.Value / 100)

ReDim PARMS(19, 9)          'Guarda els paràmetres a PARMS'

PARMS(0, 1) = IT_ANYREF
PARMS(0, 2) = NTRAMS_AUR

For il = 1 To 17
If il <> 13 Then
PARMS(il, 1) = IT_TARIFA_TPO(il)
PARMS(il, 2) = TIPUS_TPO(il)
End If
Next il
For il = 1 To NTRAMS_AUR
If il = 1 Then
PARMS(il, 3) = "0"
PARMS(il, 4) = TRAMS_AUR(il)
PARMS(il, 5) = IMPORT_AUR(il)
ElseIf il < NTRAMS_AUR + 1 Then
PARMS(il, 3) = TRAMS_AUR(il - 1)
PARMS(il, 4) = TRAMS_AUR(il)
PARMS(il, 5) = IMPORT_AUR(il)
Else
PARMS(il, 3) = TRAMS_AUR(il - 1)
PARMS(il, 4) = "i més"
PARMS(il, 5) = IMPORT_AUR(il)
End If
Next il
PARMS(NTRAMS_AUR + 1, 3) = TRAMS_AUR(NTRAMS_AUR)
PARMS(NTRAMS_AUR + 1, 4) = IMPORT_AUR(NTRAMS_AUR + 1)
PARMS(NTRAMS_AUR + 1, 5) = TRAMS_AUR(NTRAMS_AUR + 1)
PARMS(18, 1) = "BON_TUB"
PARMS(18, 2) = BON_TUB
PARMS(19, 1) = PROJ(1)

For il = 1 To 7
PARMS(il, 6) = IT_TARIFA_OS(il)
PARMS(il, 7) = TIPUS_OS(il)
Next il

```

```

PARMS(19, 2) = PROJ(2)

For il = 1 To 17
    PARMS(il, 8) = IT_TARIFA_AJD(il)
    PARMS(il, 9) = TIPUS_AJD(il)
Next il
PARMS(19, 3) = PROJ(3)

Unload Me

End Sub
Private Sub Cancelar_Click()

SORTIR = True
IMPOST(4) = True
Unload Me

End Sub
Private Sub ListBox112_Click()

Dim il As Integer

NTRAMS_AUR = ListBox112.Value
For Each CTL In Frame1121.Controls
    If CTL.TabIndex <= NTRAMS_AUR - 1 Then CTL.Enabled = True Else CTL.Enabled = False
Next CTL
For Each CTL In Frame1122.Controls
    CTL.Enabled = False
    CTL.Value = ""
    For il = 0 To NTRAMS_AUR - 1
        If CTL.TabIndex = 3 * il + 1 Or CTL.TabIndex = 3 * il + 2 Then CTL.Enabled = True
    Next il
Next CTL
For Each CTL In Frame1123.Controls
    If CTL.TabIndex <= NTRAMS_AUR - 1 Then CTL.Enabled = True Else CTL.Enabled = False
Next CTL
TextBox112211.Value = "0"

End Sub
Private Sub ListBox_Simulref_Click()

Dim il As Integer, j1 As Integer, nsim As Integer, p(19, 9)

For il = 0 To ISIMULS(4) - 1
    If ListBox_SimulRef.Selected(il) = True Then
        nsim = ListBox_SimulRef.Value
        Exit For
    End If
Next il

Call COMUNS_1REFERENCIA_SIMULS("IT", nsim, p)

For Each CTL In Frame1112.Controls
    For il = 1 To 17
        If il >= 13 Then j1 = 1 Else j1 = 0
        If CTL.Name = "TextBox1112" & il + j1 Then CTL.Text = Format(p(il, 2) * 100, "#0.00")
    Next il
Next CTL
ListBox_TUB.Selected(100 - (p(18, 2) * 100)) = True
ListBox112.Selected(9 - p(0, 2)) = True
For Each CTL In Frame1122.Controls
    For il = 1 To p(0, 2)
        If CTL.Name = "TextBox1122" & il & "2" Then CTL.Text = p(il, 4)
        If CTL.Name = "TextBox1122" & il & "3" Then CTL.Text = Format(p(il, 5), "#0.00")
    Next il
Next CTL
TextBox11243.Text = p(p(0, 2) + 1, 5)
TextBox11242.Text = p(p(0, 2) + 1, 4)
ListBox_TPO.Selected(500 - ((p(19, 1) - 1) * 1000)) = True

For Each CTL In Frame122.Controls
    For il = 1 To 7
        If CTL.Name = "TextBox122" & il Then CTL.Text = Format(p(il, 7) * 100, "#0.00")
    Next il
Next CTL
ListBox_OS.Selected(500 - ((p(19, 2) - 1) * 1000)) = True

For Each CTL In Frame132.Controls
    For il = 1 To 17
        If CTL.Name = "TextBox132" & il Then CTL.Text = Format(p(il, 9) * 100, "#0.00")
    Next il
Next CTL
ListBox_AJD.Selected(500 - ((p(19, 3) - 1) * 1000)) = True

```

```

End Sub
Private Sub Llei_Click()

Dim il As Integer

For Each CTL In Framell12.Controls
  For il = 1 To 17
    If il <> 13 Then
      If CTL.Name = "TextBox1112" & il Then CTL.Text = Format(IT_TIPUS_TPO(il) * 100, "#0.00")
    End If
  Next il
Next CTL
ListBox112.Selected(0) = True
For Each CTL In Framell22.Controls
  For il = 1 To 9
    If CTL.Name = "TextBox1122" & il & "2" Then CTL.Text = IT_TRAMS_AUR(il)
    If CTL.Name = "TextBox1122" & il & "3" Then CTL.Text = Format(IT_IMPORT_AUR(il), "#0.00")
  Next il
Next CTL
TextBox11242.Text = IT_IMPORT_AUR(IT_NTRAMS_AUR)
TextBox11243.Text = IT_TRAMS_AUR(IT_NTRAMS_AUR)
ListBox_TUB.Selected(100 - (IT_BON_TUB * 100)) = True
ListBox_TPO.Selected(500) = True

For Each CTL In Framel22.Controls
  For il = 1 To 7
    If CTL.Name = "TextBox122" & il Then CTL.Text = Format(IT_TIPUS_OS(il) * 100, "#0.00")
  Next il
Next CTL
ListBox_OS.Selected(500) = True

For Each CTL In Framel32.Controls
  For il = 1 To 17
    If CTL.Name = "TextBox132" & il Then CTL.Text = Format(IT_TIPUS_AJD(il) * 100, "#0.00")
  Next il
Next CTL
ListBox_AJD.Selected(500) = True

End Sub
Private Sub NetejaValors_Click()

Dim il As Integer

For Each CTL In Framell12.Controls
  For il = 1 To 17
    If il <> 13 Then
      If CTL.Name = "TextBox1112" & il Then CTL.Text = Format(1, "#0.00")
    End If
  Next il
Next CTL
ListBox112.Selected(8) = True
TextBox112212.Text = "1000"
TextBox112213.Text = "1,00"
TextBox11242.Text = "1"
TextBox11243.Text = "100"
ListBox_TPO.Selected(500) = True

For Each CTL In Framel22.Controls
  For il = 1 To 7
    If CTL.Name = "TextBox122" & il Then CTL.Text = Format(1, "#0.00")
  Next il
Next CTL
ListBox_OS.Selected(500) = True

For Each CTL In Framel32.Controls
  For il = 1 To 17
    If CTL.Name = "TextBox132" & il Then CTL.Text = Format(1, "#0.00")
  Next il
Next CTL
ListBox_AJD.Selected(500) = True

End Sub
Private Sub SimulRef_Change()

Dim il As Integer

If SimulRef Then
  Frame02.Width = 190
  For il = 0 To ISIMULS(4) - 1
    ListBox_SimulRef.Selected(il) = False
  Next il
Else

```

```

Frame02.Width = 150
ListBox_SimulRef.TopIndex = 0
End If

End Sub
Private Sub TextBox112212_Change()

If NTRAMS_AUR >= 2 Then TextBox112221.Value = TextBox112212.Value
If NTRAMS_AUR = 1 Then TextBox11241.Value = TextBox112212.Value

End Sub
Private Sub TextBox112222_Change()

If NTRAMS_AUR >= 3 Then TextBox112231.Value = TextBox112222.Value
If NTRAMS_AUR = 2 Then TextBox11241.Value = TextBox112222.Value

End Sub
Private Sub TextBox112232_Change()

If NTRAMS_AUR >= 4 Then TextBox112241.Value = TextBox112232.Value
If NTRAMS_AUR = 3 Then TextBox11241.Value = TextBox112232.Value

End Sub
Private Sub TextBox112242_Change()

If NTRAMS_AUR >= 5 Then TextBox112251.Value = TextBox112242.Value
If NTRAMS_AUR = 4 Then TextBox11241.Value = TextBox112242.Value

End Sub
Private Sub TextBox112252_Change()

If NTRAMS_AUR >= 6 Then TextBox112261.Value = TextBox112252.Value
If NTRAMS_AUR = 5 Then TextBox11241.Value = TextBox112252.Value

End Sub
Private Sub TextBox112262_Change()

If NTRAMS_AUR >= 7 Then TextBox112271.Value = TextBox112262.Value
If NTRAMS_AUR = 6 Then TextBox11241.Value = TextBox112262.Value

End Sub
Private Sub TextBox112272_Change()

If NTRAMS_AUR >= 8 Then TextBox112281.Value = TextBox112272.Value
If NTRAMS_AUR = 7 Then TextBox11241.Value = TextBox112272.Value

End Sub
Private Sub TextBox112282_Change()

If NTRAMS_AUR >= 9 Then TextBox112291.Value = TextBox112282.Value
If NTRAMS_AUR = 8 Then TextBox11241.Value = TextBox112282.Value

End Sub
Private Sub TextBox112292_Change()

If NTRAMS_AUR = 9 Then TextBox11241.Value = TextBox112292.Value

End Sub
Private Sub UserForm_Activate()

height1 = Me.Height
left1 = Me.Left
top1 = Me.Top
width1 = Me.Width
Zoom = IIf(XZOOM < 200, 100, IIf(Not XTEXT, 150, 100))
If ISIMULS(4) <> 0 Then Frame02.Width = 150 Else Frame02.Width = 104

End Sub
Private Sub UserForm_QueryClose(Cancel As Integer, CloseMode As Integer)

If CloseMode = 0 Then SORTIR = True
Unload Me

End Sub
Private Sub UserForm_Zoom(Percent As Integer)

Me.Width = Me.Width * Percent / 100
Me.Height = Me.Height * Percent / 100
Me.Left = left1 - ((Me.Width - width1) / 2)
Me.Top = top1 - ((Me.Width - width1) / 2)

End Sub

```



```
Attribute VB_Name = "SIMCAT_Caratula"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PredeclaredId = True
Attribute VB_Exposed = False

Option Explicit
Dim height1 As Integer, left1 As Integer, top1 As Integer, width1 As Integer
Private Sub Acceptor_Click()

Unload Me

End Sub
Private Sub Credits_Click()

Me.MultiPage1.Value = 1
If Application.Wait(Now + TimeValue("0:00:04")) Then Me.MultiPage1.Value = 0

End Sub
Private Sub Cancelar_Click()

SORTIR = True
Unload Me

End Sub
Private Sub UserForm_Activate()

height1 = Me.Height
left1 = Me.Left
top1 = Me.Top
width1 = Me.Width
Zoom = IIf(XZOOM < 200, 100, IIf(Not XTEXT, 150, 100))

End Sub
Private Sub UserForm_QueryClose(Cancel As Integer, CloseMode As Integer)

If CloseMode = 0 Then SORTIR = True
Unload Me

End Sub
Private Sub UserForm_Zoom(Percent As Integer)

Me.Width = Me.Width * Percent / 100
Me.Height = Me.Height * Percent / 100
Me.Left = left1 - ((Me.Width - width1) / 2)

End Sub
```

SIMCAT v4.2: SIMULADOR DE REFORMES IMPOSITIVES

```
Declare Function GetSystemMetrics Lib "user32" (ByVal nIndex As Long) As Long
Declare Function GetTextMetrics Lib "gdi32" Alias "GetTextMetricsA" (ByVal hdc As Long, lpMetrics As TEXTMETRIC)
As Long
Declare Function GetDesktopWindow Lib "user32" () As Long
Declare Function GetWindowDC Lib "user32" (ByVal hwnd As Long) As Long

Public ALT_PANTALLA As Integer, AMP_PANTALLA As Integer, AVISSORTIR As Boolean, COMPARA As Integer, CTL As
Control, _
ERR_LEC As Boolean, LLIBRE_FORMATS As Workbook, LLIBRE_PROJECCIONS As Workbook, LLIBRE_REFERENCIA As
Workbook, _
LLIBRE_RESULTATS As Workbook, N As Long, N1 As Long, N2 As Long, N3 As Long, NT As Double, NT1 As Double,
_
NT2 As Double, NT3 As Double, OBRIR As Integer, PAGINA As Integer, RES As Integer, SIMUL As Integer,
SORTIR As Boolean, _
XZOOM As Integer, XTEXT As Boolean
Public BONIF() As Double, COEF() As Double, COMP(1 To 2) As Integer, IMPOST(1 To 5) As Boolean, IND() As Long, _
IRESULTS() As Integer, ISIMULS(1 To 5) As Integer, MITJANA() As Double, NTRAMS As Integer, PAG() As
Double, _
PARMS(), PROJ(1 To 5) As Double, SUMA() As Double, T() As Double, TIPUS() As Double, VT(), X() As Double,
y() As Double

Public IRPF_ANYREF, IRPF_DED(), IRPF_DEDA1(), IRPF_DEDA2(), IRPF_DEDV(), IRPF_EXEMPTTE, IRPF_MPF(), _
IRPF_NTRAMSE, IRPF_NTRAMSG(1 To 2), IRPF_RED_PER(), IRPF_RED_PP(), IRPF_RED_RT(), IRPF_RED_RTC(), _
IRPF_RDIVE, IRPF_TIPUSG(), IRPF_TIPUSE(), IRPF_TRAMSE(), IRPF_TRAMSG()
Public ANOIRPF, A_PROJ, ANY_PROJ, C_PROJ() As Double, DECL_NOMBRE As String, DECL_PROJ As String, DEFLACTOR As
Double, _
MINIM_EXEMPTTE As Double, NOM_IRPF_DADES As String, NOM_IRPF_SIMUL As String, _
NDEDA1 As Integer, NDEDA2 As Integer, RDIVE As Double
Public AIRPF(), CATEG() As Integer, CIRPF() As Integer, DED(), DEDA1() As Double, DEDA2() As Double, _
DEDV() As Double, MPF() As Double, NTRAMSE As Integer, NTRAMSG(1 To 2) As Integer, RPER() As Double, _
RPP() As Double, RT() As Double, RTC() As Double, TE() As Double, TIPUSE() As Double, TIPUSG() As Double

Public IS_ANYREF, IS_BONIF(), IS_COEF(), IS_NTRAMS, IS_R_ASSEGU(), IS_R_BENSCU(), IS_R_DISCAP(), IS_R_EDATGR(),
_
IS_R_EMPRES(), IS_R_FINQUE(), IS_R_HABITA(), IS_R_PARENT(), IS_R_PARENT_AD(), IS_R_PARTIC(), IS_TIPUS(),
_
IS_TRAMS()
Public ANOIS, NOM_IS_DADES As String, NOM_IS_SIMUL As String
Public AIS(), CIS() As Integer, R_ASSEGU() As Double, R_BENSCU() As Double, R_DISCAP() As Double, R_EDATGR() As
Double, _
R_EMPRES() As Double, R_FINQUE() As Double, R_HABITA() As Double, R_PARENT() As Double, R_PARENT_AD() As
Double, _
R_PARTIC() As Double

Public ID_ANYREF, ID_COEF(), ID_D_QUOTA(), ID_NTRAMS12, ID_NTRAMS34, ID_R_BASE(), ID_TIPUS12(), ID_TIPUS34(), _
ID_TRAMS12(), ID_TRAMS34()
Public AID(), ANOID, CID() As Integer, D_QUOTA() As Double, NOM_ID_DADES As String, NOM_ID_SIMUL As String, _
NTRAMS12 As Integer, NTRAMS34 As Integer, R_BASE() As Double, T12() As Double, T34() As Double, _
TIPUS12() As Double, TIPUS34() As Double

Public IT_ANYREF, IT_TARIFA_AJD() As String, IT_TARIFA_OS() As String, IT_TARIFA_TPO() As String, _
IT_TIPUS_AJD(), IT_TIPUS_OS(), IT_TIPUS_TPO(), IT_BON_TUB As Double
Public AIT(), ANOIT, BON_TUB As Double, CIT() As Integer, NOM_IT_DADES As String, NOM_IT_SIMUL As String, _
TIPUS_TPO() As Double, TIPUS_OS() As Double, TIPUS_AJD() As Double

Public IMPORT_AUR() As Double, IT_IMPORT_AUR(), IT_NTRAMS_AUR, IT_TRAMS_AUR(), NTRAMS_AUR As Integer,
TRAMS_AUR() As Double

Public IPPF_ANYREF, IPPF_E() As Integer, IPPF_LIM(1 To 2), IPPF_ME() As Long, IPPF_NTRAMS, IPPF_OP(1 To 2), _
IPPF_TIPUS(), IPPF_TRAMS()
Public ANOIPPF, BENS_E() As Integer, CONNEXIO_IRPF As Boolean, LBQ As Double, LIMITS() As Double, LVAR() As
String, _
MINIMS_E() As Long, NOM_IPPF_DADES As String, NOM_IPPF_SIMUL As String, REDUCCIO(1 To 2) As Long
Public AIPPF(), CIPPF() As Integer

Public Const TITOL_IRPF As String * 11 = "SIMCAT-IRPF", _
TITOL_IS As String * 9 = "SIMCAT-IS", _
TITOL_ID As String * 9 = "SIMCAT-ID", _
TITOL_IT As String * 13 = "SIMCAT-ITPOOSAJD", _
TITOL_IPPF As String * 11 = "SIMCAT-IPPF", _
SECRET As String * 18 = "36965422Y37274989Q"
Sub COMUNS_OCREAR(opcio As Integer)

Dim AjudaMenu As CommandBarControl, SMenu As CommandBarPopup

On Error Resume Next
Set SMenu = CommandBars(1).Controls("SIMCAT(v4.2) " & Chr(169) & " " & Chr(174))
If SMenu Is Nothing Then
Set AjudaMenu = CommandBars(1).FindControl(ID:=30010)
If AjudaMenu Is Nothing Then
Set SMenu = CommandBars(1).Controls.Add(Type:=msoControlPopup, Temporary:=True)
Else
Set SMenu = CommandBars(1).Controls.Add(Type:=msoControlPopup, Temporary:=True, Before:=AjudaMenu.Index)
```

```

End If
With SMenu
    .Caption = "&SIMCAT(v4.2) " & Chr(169) & " " & Chr(174)
    .BeginGroup = True
    .OnAction = "SIMCAT_IMPOSTOS"
End With
End If

End Sub
Sub COMUNS_0ESBORRAR(opcio As Integer)

Dim SMenu As CommandBarPopup

Set SMenu = CommandBars(1).Controls("SIMCAT(v4.2) " & Chr(169) & " " & Chr(174))
SMenu.Delete

End Sub
Sub COMUNS_0PANTALLA(opcio As Integer)

Dim hdc, hwnd, tm As TEXTMETRIC

ALT_PANTALLA = GetSystemMetrics(0)
AMP_PANTALLA = GetSystemMetrics(1)
XZOOM = Int(ALT_PANTALLA / 8)
XTEXT = False
hwnd = GetDesktopWindow()
hdc = GetWindowDC(hwnd)
If hdc Then GetTextMetrics hdc, tm
If tm.tmHeight = 20 Then XTEXT = True

'MsgBox "tmHeight=" & tm.tmHeight & Chr(10) & _
'      "tmDescent=" & tm.tmDescent & Chr(10) & _
'      "tmAscent=" & tm.tmAscent & Chr(10) & _
'      "tmMaxCharWidth=" & tm.tmMaxCharWidth & Chr(10) & _
'      "tmWeight=" & tm.tmWeight

End Sub
Sub COMUNS_0NETEJA(full As String)

Dim i1 As Integer, i2 As Integer

i2 = Sheets.Count
If i2 > 1 Then
    ActiveWorkbook.Unprotect (SECRET)
    For i1 = 2 To Sheets.Count
        If Sheets(i1).Name = full Then
            Sheets(i1).Delete
        Exit For
    End If
Next i1
ActiveWorkbook.Protect (SECRET)
End If

End Sub
Sub COMUNS_0NOMSFULLS(full As String)

Dim f(10) As String, i1 As Integer, i2 As Integer

ActiveWorkbook.Unprotect (SECRET)

i2 = Sheets.Count
f(0) = "SIMULADOR REFORMES IMPOSITIVES"
If i2 > 1 Then
    For i1 = 2 To Sheets.Count
        If Sheets(i1).Name = "IRPF(R)" Then f(1) = "IRPF(R)"
        If Sheets(i1).Name = "IRPF(G-P)" Then f(2) = "IRPF(G-P)"
        If Sheets(i1).Name = "IS(R)" Then f(3) = "IS(R)"
        If Sheets(i1).Name = "IS(G-P)" Then f(4) = "IS(G-P)"
        If Sheets(i1).Name = "ID(R)" Then f(5) = "ID(R)"
        If Sheets(i1).Name = "ID(G-P)" Then f(6) = "ID(G-P)"
        If Sheets(i1).Name = "ITPOOSAJD(R)" Then f(7) = "ITPOOSAJD(R)"
        If Sheets(i1).Name = "ITPOOSAJD(G-P)" Then f(8) = "ITPOOSAJD(G-P)"
        If Sheets(i1).Name = "IPPF(R)" Then f(9) = "IPPF(R)"
        If Sheets(i1).Name = "IPPF(G-P)" Then f(10) = "IPPF(G-P)"
    Next i1
End If

If full = "IRPF(R)" Or full = "IS(R)" Or full = "ID(R)" Or full = "ITPOOSAJD(R)" Or full = "IPPF(R)" Then

    If full = "IRPF(R)" Then
        If f(2) <> "" Then
            Sheets.Add(Before:=Sheets(f(2)), Count:=1).Name = "IRPF(R)"
        Else

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    Sheets.Add(After:=Sheets(f(0)), Count:=1).Name = "IRPF(R)"
End If
ElseIf full = "IS(R)" Then
    If f(4) <> "" Then
        Sheets.Add(Before:=Sheets(f(4)), Count:=1).Name = "IS(R)"
    Else
        If f(2) <> "" Then
            Sheets.Add(After:=Sheets(f(2)), Count:=1).Name = "IS(R)"
        ElseIf f(1) <> "" Then
            Sheets.Add(After:=Sheets(f(1)), Count:=1).Name = "IS(R)"
        Else
            Sheets.Add(After:=Sheets(f(0)), Count:=1).Name = "IS(R)"
        End If
    End If
ElseIf full = "ID(R)" Then
    If f(6) <> "" Then
        Sheets.Add(Before:=Sheets(f(6)), Count:=1).Name = "ID(R)"
    Else
        If f(4) <> "" Then
            Sheets.Add(After:=Sheets(f(4)), Count:=1).Name = "ID(R)"
        ElseIf f(3) <> "" Then
            Sheets.Add(After:=Sheets(f(3)), Count:=1).Name = "ID(R)"
        ElseIf f(2) <> "" Then
            Sheets.Add(After:=Sheets(f(2)), Count:=1).Name = "ID(R)"
        ElseIf f(1) <> "" Then
            Sheets.Add(After:=Sheets(f(1)), Count:=1).Name = "ID(R)"
        Else
            Sheets.Add(After:=Sheets(f(0)), Count:=1).Name = "ID(R)"
        End If
    End If
ElseIf full = "ITPOOSAJD(R)" Then
    If f(6) <> "" Then
        Sheets.Add(After:=Sheets(f(6)), Count:=1).Name = "ITPOOSAJD(R)"
    ElseIf f(5) <> "" Then
        Sheets.Add(After:=Sheets(f(5)), Count:=1).Name = "ITPOOSAJD(R)"
    ElseIf f(4) <> "" Then
        Sheets.Add(After:=Sheets(f(4)), Count:=1).Name = "ITPOOSAJD(R)"
    ElseIf f(3) <> "" Then
        Sheets.Add(After:=Sheets(f(3)), Count:=1).Name = "ITPOOSAJD(R)"
    ElseIf f(2) <> "" Then
        Sheets.Add(After:=Sheets(f(2)), Count:=1).Name = "ITPOOSAJD(R)"
    ElseIf f(1) <> "" Then
        Sheets.Add(After:=Sheets(f(1)), Count:=1).Name = "ITPOOSAJD(R)"
    Else
        Sheets.Add(After:=Sheets(f(0)), Count:=1).Name = "ITPOOSAJD(R)"
    End If
ElseIf full = "IPPF(R)" Then
    If f(8) <> "" Then
        Sheets.Add(After:=Sheets(f(8)), Count:=1).Name = "IPPF(R)"
    ElseIf f(7) <> "" Then
        Sheets.Add(After:=Sheets(f(7)), Count:=1).Name = "IPPF(R)"
    ElseIf f(6) <> "" Then
        Sheets.Add(After:=Sheets(f(6)), Count:=1).Name = "IPPF(R)"
    ElseIf f(5) <> "" Then
        Sheets.Add(After:=Sheets(f(5)), Count:=1).Name = "IPPF(R)"
    ElseIf f(4) <> "" Then
        Sheets.Add(After:=Sheets(f(4)), Count:=1).Name = "IPPF(R)"
    ElseIf f(3) <> "" Then
        Sheets.Add(After:=Sheets(f(3)), Count:=1).Name = "IPPF(R)"
    ElseIf f(2) <> "" Then
        Sheets.Add(After:=Sheets(f(2)), Count:=1).Name = "IPPF(R)"
    ElseIf f(1) <> "" Then
        Sheets.Add(After:=Sheets(f(1)), Count:=1).Name = "IPPF(R)"
    Else
        Sheets.Add(After:=Sheets(f(0)), Count:=1).Name = "IPPF(R)"
    End If
End If

ElseIf full = "IRPF(G-P)" Or full = "IS(G-P)" Or full = "ID(G-P)" Or full = "ITPOOSAJD(G-P)" Or full = "IPPF(G-P)" Then

    If full = "IRPF(G-P)" Then
        If f(1) <> "" Then
            Sheets.Add(After:=Sheets(f(1)), Count:=1).Name = "IRPF(G-P)"
        Else
            Sheets.Add(After:=Sheets(f(0)), Count:=1).Name = "IRPF(G-P)"
        End If
    ElseIf full = "IS(G-P)" Then
        If f(3) <> "" Then
            Sheets.Add(After:=Sheets(f(3)), Count:=1).Name = "IS(G-P)"
        Else
            If f(2) <> "" Then
                Sheets.Add(After:=Sheets(f(2)), Count:=1).Name = "IS(G-P)"
            End If
        End If
    End If

```

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ElseIf f(1) <> "" Then
    Sheets.Add(After:=Sheets(f(1)), Count:=1).Name = "IS(G-P)"
Else
    Sheets.Add(After:=Sheets(f(0)), Count:=1).Name = "IS(G-P)"
End If
End If
ElseIf full = "ID(G-P)" Then
    If f(5) <> "" Then
        Sheets.Add(After:=Sheets(f(5)), Count:=1).Name = "ID(G-P)"
    Else
        If f(4) <> "" Then
            Sheets.Add(After:=Sheets(f(4)), Count:=1).Name = "ID(G-P)"
        ElseIf f(3) <> "" Then
            Sheets.Add(After:=Sheets(f(3)), Count:=1).Name = "ID(G-P)"
        ElseIf f(2) <> "" Then
            Sheets.Add(After:=Sheets(f(2)), Count:=1).Name = "ID(G-P)"
        ElseIf f(1) <> "" Then
            Sheets.Add(After:=Sheets(f(1)), Count:=1).Name = "ID(G-P)"
        Else
            Sheets.Add(After:=Sheets(f(0)), Count:=1).Name = "ID(G-P)"
        End If
    End If
ElseIf full = "ITPOOSAJD(G-P)" Then
    If f(7) <> "" Then
        Sheets.Add(After:=Sheets(f(7)), Count:=1).Name = "ITPOOSAJD(G-P)"
    Else
        If f(6) <> "" Then
            Sheets.Add(After:=Sheets(f(6)), Count:=1).Name = "ITPOOSAJD(G-P)"
        ElseIf f(5) <> "" Then
            Sheets.Add(After:=Sheets(f(5)), Count:=1).Name = "ITPOOSAJD(G-P)"
        ElseIf f(4) <> "" Then
            Sheets.Add(After:=Sheets(f(4)), Count:=1).Name = "ITPOOSAJD(G-P)"
        ElseIf f(3) <> "" Then
            Sheets.Add(After:=Sheets(f(3)), Count:=1).Name = "ITPOOSAJD(G-P)"
        ElseIf f(2) <> "" Then
            Sheets.Add(After:=Sheets(f(2)), Count:=1).Name = "ITPOOSAJD(G-P)"
        ElseIf f(1) <> "" Then
            Sheets.Add(After:=Sheets(f(1)), Count:=1).Name = "ITPOOSAJD(G-P)"
        Else
            Sheets.Add(After:=Sheets(f(0)), Count:=1).Name = "ITPOOSAJD(G-P)"
        End If
    End If
ElseIf full = "IPPF(G-P)" Then
    If f(9) <> "" Then
        Sheets.Add(After:=Sheets(f(9)), Count:=1).Name = "IPPF(G-P)"
    Else
        If f(8) <> "" Then
            Sheets.Add(After:=Sheets(f(8)), Count:=1).Name = "IPPF(G-P)"
        ElseIf f(7) <> "" Then
            Sheets.Add(After:=Sheets(f(7)), Count:=1).Name = "IPPF(G-P)"
        ElseIf f(6) <> "" Then
            Sheets.Add(After:=Sheets(f(6)), Count:=1).Name = "IPPF(G-P)"
        ElseIf f(5) <> "" Then
            Sheets.Add(After:=Sheets(f(5)), Count:=1).Name = "IPPF(G-P)"
        ElseIf f(4) <> "" Then
            Sheets.Add(After:=Sheets(f(4)), Count:=1).Name = "IPPF(G-P)"
        ElseIf f(3) <> "" Then
            Sheets.Add(After:=Sheets(f(3)), Count:=1).Name = "IPPF(G-P)"
        ElseIf f(2) <> "" Then
            Sheets.Add(After:=Sheets(f(2)), Count:=1).Name = "IPPF(G-P)"
        ElseIf f(1) <> "" Then
            Sheets.Add(After:=Sheets(f(1)), Count:=1).Name = "IPPF(G-P)"
        Else
            Sheets.Add(After:=Sheets(f(0)), Count:=1).Name = "IPPF(G-P)"
        End If
    End If
End If
End If

ActiveWorkbook.Protect (SECRET)

End Sub
Sub COMUNS_1REFERENCIA(tipus_impost As String)

Dim auxntrams As Integer, il As Integer

If tipus_impost = "IRPF" Then

    IRPF_ANYREF = 2011

    ReDim IRPF_MPF(1 To 11, 1 To 2)
    IRPF_MPF(1, 1) = 5151: IRPF_MPF(1, 2) = 0

    'Minims personals
    'general

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IRPF_MPF(2, 1) = 1836: IRPF_MPF(2, 2) = 0 '1er fill
IRPF_MPF(3, 1) = 2040: IRPF_MPF(3, 2) = 0 '2on. fill
IRPF_MPF(4, 1) = 3672: IRPF_MPF(4, 2) = 0 '3er. fill
IRPF_MPF(5, 1) = 4182: IRPF_MPF(5, 2) = 0 '4art. fill
IRPF_MPF(6, 1) = 918: IRPF_MPF(6, 2) = 0 '>65 anys
IRPF_MPF(7, 1) = 1122: IRPF_MPF(7, 2) = 0 '>75 anys
IRPF_MPF(8, 1) = 2316: IRPF_MPF(8, 2) = 0 'Discapacitat 33%-65%
IRPF_MPF(9, 1) = 7038: IRPF_MPF(9, 2) = 0 'Discapacitat >65%
IRPF_MPF(10, 1) = 2244: IRPF_MPF(10, 2) = 0 'Fills menors 3 anys
IRPF_MPF(11, 1) = 2316: IRPF_MPF(11, 2) = 0 'Assistència discapacitats

ReDim IRPF_RED_RTC(1 To 2) 'Reducció tributació conjunta
IRPF_RED_RTC(1) = 3400 'cònjuge
IRPF_RED_RTC(2) = 2150 'separació

ReDim IRPF_RED_RT(1 To 4, 1 To 3) 'Reduccions treball
IRPF_RED_RT(1, 1) = 9180
IRPF_RED_RT(1, 2) = 4080
IRPF_RED_RT(2, 1) = 13260
IRPF_RED_RT(3, 2) = 2652
IRPF_RED_RT(4, 1) = 3264: IRPF_RED_RT(4, 2) = 7242 'Discapacitats

ReDim IRPF_RED_PP(1 To 4) 'Reduccions Plans Pensions
IRPF_RED_PP(1) = 10000 'general
IRPF_RED_PP(2) = 12500 '>50 anys
IRPF_RED_PP(3) = 2000 'cònjuge
IRPF_RED_PP(4) = 24250 'discapacitats

IRPF_NTRAMSG(1) = 6 'Trams tarifa general ESTAT
IRPF_NTRAMSG(2) = 6 'Trams tarifa general CCAA
auxntrams = Application.max(IRPF_NTRAMSG(1), IRPF_NTRAMSG(2))
ReDim IRPF_TRAMSG(1 To auxntrams - IIf(auxntrams = 1, 0, 1), 1 To 2), _
IRPF_TIPUSG(1 To auxntrams, 1 To 2)
IRPF_TRAMSG(1, 1) = 17707.2: IRPF_TIPUSG(1, 1) = 0.12
IRPF_TRAMSG(2, 1) = 33007.2: IRPF_TIPUSG(2, 1) = 0.14
IRPF_TRAMSG(3, 1) = 53407.2: IRPF_TIPUSG(3, 1) = 0.185
IRPF_TRAMSG(4, 1) = 120000.2: IRPF_TIPUSG(4, 1) = 0.215
IRPF_TRAMSG(5, 1) = 175000.2: IRPF_TIPUSG(5, 1) = 0.225
IRPF_TIPUSG(6, 1) = 0.235
IRPF_TRAMSG(1, 2) = 17707.2: IRPF_TIPUSG(1, 2) = 0.12
IRPF_TRAMSG(2, 2) = 33007.2: IRPF_TIPUSG(2, 2) = 0.14
IRPF_TRAMSG(3, 2) = 53407.2: IRPF_TIPUSG(3, 2) = 0.185
IRPF_TRAMSG(4, 2) = 120000.2: IRPF_TIPUSG(4, 2) = 0.215
IRPF_TRAMSG(5, 2) = 175000.2: IRPF_TIPUSG(5, 2) = 0.235
IRPF_TIPUSG(6, 2) = 0.255

IRPF_NTRAMSE = 2 'Trams tarifa estalvi ESTAT
ReDim IRPF_TRAMSE(1 To IRPF_NTRAMSE - IIf(IRPF_NTRAMSE = 1, 0, 1)), _
IRPF_TIPUSE(1 To IRPF_NTRAMSE, 1 To 2)
IRPF_TRAMSE(1) = 6000
IRPF_TIPUSE(1, 1) = 0.095
IRPF_TIPUSE(1, 2) = 0.095
IRPF_TIPUSE(2, 1) = 0.105
IRPF_TIPUSE(2, 2) = 0.105
IRPF_RDIVE = 1500: IRPF_EXEMPTA = 0

ReDim IRPF_DEDV(6), IRPF_DEDV(1 To 4, 1 To 4) 'Deduccions
IRPF_DEDV(1, 1) = 9040 'límit habitatge habitual general
IRPF_DEDV(1, 2) = 0.075 '%ESTAT habitatge habitual general
IRPF_DEDV(1, 3) = 0.075 '%CCAA habitatge habitual general
IRPF_DEDV(1, 4) = 0.09 '%CCAA habitatge habitual especial
IRPF_DEDV(2, 1) = 12080 'límit habitatge habitual discapacitats
IRPF_DEDV(2, 2) = 0.1 '%ESTAT habitatge habitual discapacitats
IRPF_DEDV(2, 3) = 0.15 '%CCAA habitatge habitual discapacitats
IRPF_DEDV(3, 1) = 24107 'límit BI per a poder optar a a deducció (lloguer)
IRPF_DEDV(3, 2) = 17707 'límit ler. tram de la deducció (lloguer)
IRPF_DEDV(3, 3) = 0.1005 '% deducció (lloguer)
IRPF_DEDV(3, 4) = 9040 'límit base deducció (lloguer)
IRPF_DEDV(4, 1) = 71007 'límit BI per a poder optar a a deducció (obres)
IRPF_DEDV(4, 2) = 53007 'límit ler. tram de la deducció (obres)
IRPF_DEDV(4, 3) = 0.2 '% deducció (obres)
IRPF_DEDV(4, 4) = 6750 'límit base deducció (obres)

ReDim IRPF_DEDA1(1 To 10, 1 To 2) 'Deduccions CCAA
IRPF_DEDA1(1, 1) = 150 'Naixement
IRPF_DEDA1(2, 1) = 0.15: IRPF_DEDA1(2, 2) = 0.1 'Foment llengua catalana
IRPF_DEDA1(3, 1) = 0.25: IRPF_DEDA1(3, 2) = 0.1 'Foment innovació científica
IRPF_DEDA1(4, 1) = 0.1: IRPF_DEDA1(4, 2) = 300 'Lloguer habitatge habitual
IRPF_DEDA1(5, 1) = 1 'Interessos préstecs estudis 3er grau
IRPF_DEDA1(6, 1) = 150 'Vidus
IRPF_DEDA1(7, 1) = 0.015: IRPF_DEDA1(7, 2) = 9040 'Rehabilitació habitatge habitual
IRPF_DEDA1(8, 1) = 0.15: IRPF_DEDA1(8, 2) = 0.05 'Foment innovació científica

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IRPF_DEDA1(9, 1) = 0.3:   IRPF_DEDA1(9, 2) = 6000   'Adquisició d'accions d'entitas noves o de recent
creació
IRPF_DEDA1(10, 1) = 0.2: IRPF_DEDA1(10, 2) = 10000 'Adquisició d'accions d'entitas del mercat alternatiu
borsari

ReDim IRPF_DEDA2(8)
IRPF_DEDA2(1) = 300
IRPF_DEDA2(2) = 200
IRPF_DEDA2(3) = 200
IRPF_DEDA2(4) = 200
IRPF_DEDA2(5) = 200
IRPF_DEDA2(6) = 225
IRPF_DEDA2(7) = 300
IRPF_DEDA2(8) = 12000
'Altres deduccions CCAA
'>65 anys
'>75 anys
'Discapacitat fins >33%
'3er. descendent
'< 3 anys
'Despeses d'estudi descendents > 3 anys
'Família nombrosa
'límit BIT per a què quota líquida CATALUNYA=0

ElseIf tipus_impost = "IS" Then

IS_ANYREF = 2010

ReDim IS_R_PARENT(1 To 7, 1 To 4)
IS_R_PARENT(1, 1) = 275000: IS_R_PARENT(1, 2) = 33000: IS_R_PARENT(1, 3) = 13: IS_R_PARENT(1, 4) = 20
IS_R_PARENT(2, 1) = 500000
IS_R_PARENT(3, 1) = 275000
IS_R_PARENT(4, 1) = 150000
IS_R_PARENT(5, 1) = 100000
IS_R_PARENT(6, 1) = 50000
IS_R_PARENT(7, 1) = 0
'Reduccions parentiu

ReDim IS_R_PARENT_AD(1 To 5)
IS_R_PARENT_AD(1) = 125000
IS_R_PARENT_AD(2) = 150000
IS_R_PARENT_AD(3) = 125000
IS_R_PARENT_AD(4) = 50000
IS_R_PARENT_AD(5) = 25000
'Reduccions addicionals parentiu

ReDim IS_R_DISCAP(1 To 2)
IS_R_DISCAP(1) = 275000: IS_R_DISCAP(2) = 650000
'Reducció discapacitat

ReDim IS_R_EDATGR(1 To 2)
IS_R_EDATGR(1) = 75: IS_R_EDATGR(2) = 275000
'Reducció edat

ReDim IS_R_ASSEGU(1 To 2)
IS_R_ASSEGU(1) = 1: IS_R_ASSEGU(2) = 25000
'Reducció assegurança

ReDim IS_R_HABITA(1 To 2)
IS_R_HABITA(1) = 0.95: IS_R_HABITA(2) = 500000
'Reducció habitatge

ReDim IS_R_EMPRES(1 To 2)
IS_R_EMPRES(1) = 0.95: IS_R_EMPRES(2) = 0
'reducció empresa familiar

ReDim IS_R_PARTIC(1 To 2)
IS_R_PARTIC(1) = 0.95: IS_R_PARTIC(2) = 0
'reducció participacions

ReDim IS_R_BENSCU(1 To 2)
IS_R_BENSCU(1) = 0.95: IS_R_BENSCU(2) = 0
'reducció béns culturals

ReDim IS_R_FINQUE(1 To 2)
IS_R_FINQUE(1) = 0.95: IS_R_FINQUE(2) = 0
'reducció finques rústiques

ReDim IS_COEF(1 To 4, 1 To 4)
For il = 1 To 4
  IS_COEF(1, il) = 1
  IS_COEF(3, il) = 1.5882
  IS_COEF(4, il) = 2
Next il

IS_NTRAMS = 5
ReDim IS_TRAMS(1 To IS_NTRAMS - IIf(IS_NTRAMS = 1, 0, 1)), IS_TIPUS(1 To IS_NTRAMS)
IS_TRAMS(1) = 50000: IS_TIPUS(1) = 0.07
IS_TRAMS(2) = 150000: IS_TIPUS(2) = 0.11
IS_TRAMS(3) = 400000: IS_TIPUS(3) = 0.17
IS_TRAMS(4) = 800000: IS_TIPUS(4) = 0.24
IS_TIPUS(5) = 0.32
'Trams i tarifa

ReDim IS_BONIF(1 To 4)
IS_BONIF(1) = 99
IS_BONIF(3) = 0
IS_BONIF(4) = 0

```

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ElseIf tipus_impost = "ID" Then

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ID_ANYREF = 2010

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ReDim ID_R_BASE(1 To 6, 1 To 4)
ID_R_BASE(1, 1) = 0.95
ID_R_BASE(2, 1) = 0.95
ID_R_BASE(3, 1) = 0.95
ID_R_BASE(5, 1) = 0.95
ID_R_BASE(5, 2) = 125000
ID_R_BASE(5, 3) = 250000
ID_R_BASE(6, 1) = 0.95
ID_R_BASE(6, 2) = 60000
ID_R_BASE(6, 3) = 120000
ID_R_BASE(6, 4) = 36

'Reduccions a la base
'Activitat empresarial
'Participacions en entitats
'Béns culturals
'Altres (adquisició empreses)
'Altres (adquisició habitatge)

ID_NTRAMS12 = 3
ReDim ID_TRAMS12(1 To ID_NTRAMS12 - IIf(ID_NTRAMS12 = 1, 0, 1)), ID_TIPUS12(1 To ID_NTRAMS12)
ID_TRAMS12(1) = 200000: ID_TIPUS12(1) = 0.05
ID_TRAMS12(2) = 600000: ID_TIPUS12(2) = 0.07
ID_TIPUS12(3) = 0.09

ID_NTRAMS34 = 5
ReDim ID_TRAMS34(1 To ID_NTRAMS34 - IIf(ID_NTRAMS34 = 1, 0, 1)), ID_TIPUS34(1 To ID_NTRAMS34)
ID_TRAMS34(1) = 50000: ID_TIPUS34(1) = 0.07
ID_TRAMS34(2) = 150000: ID_TIPUS34(2) = 0.11
ID_TRAMS34(3) = 400000: ID_TIPUS34(3) = 0.17
ID_TRAMS34(4) = 800000: ID_TIPUS34(4) = 0.24
ID_TIPUS34(5) = 0.32

ReDim ID_COEF(1 To 4)
ID_COEF(1) = 1
ID_COEF(3) = 1.5882
ID_COEF(4) = 2

'coeficients correctors

ElseIf tipus_impost = "IT" Then

IT_ANYREF = 2012

ReDim IT_TIPUS_TPO(1 To 17), IT_TARIFA_TPO(17)

IT_TARIFA_TPO(0) = "Total"
IT_TIPUS_TPO(1) = 0.08: IT_TARIFA_TPO(1) = "TUB"
IT_TIPUS_TPO(2) = 0.08: IT_TARIFA_TPO(2) = "TRT"
IT_TIPUS_TPO(3) = 0.08: IT_TARIFA_TPO(3) = "TV0"
IT_TIPUS_TPO(4) = 0.08: IT_TARIFA_TPO(4) = "TAM"
IT_TIPUS_TPO(5) = 0.07: IT_TARIFA_TPO(5) = "THP"
IT_TIPUS_TPO(6) = 0.05: IT_TARIFA_TPO(6) = "TUF"
IT_TIPUS_TPO(7) = 0.05: IT_TARIFA_TPO(7) = "TUJ"
IT_TIPUS_TPO(8) = 0.05: IT_TARIFA_TPO(8) = "TUM"
IT_TIPUS_TPO(9) = 0.04: IT_TARIFA_TPO(9) = "TMV"
IT_TIPUS_TPO(10) = 0.04: IT_TARIFA_TPO(10) = "TAU"
IT_TIPUS_TPO(11) = 0.01: IT_TARIFA_TPO(11) = "DRG"
IT_TIPUS_TPO(12) = 0.01: IT_TARIFA_TPO(12) = "PFC"
IT_TIPUS_TPO(13) = 0.03: IT_TARIFA_TPO(13) = "AUR"
IT_TIPUS_TPO(14) = 0.04: IT_TARIFA_TPO(14) = "CEB"
IT_TIPUS_TPO(15) = 0.04: IT_TARIFA_TPO(15) = "CEO"
IT_TIPUS_TPO(16) = 0.04: IT_TARIFA_TPO(16) = "CES"
IT_TIPUS_TPO(17) = 0.04: IT_TARIFA_TPO(17) = "ANE"

' IT_NTRAMS_AUR = 10 'Trams tarifa AUR
' ReDim IT_IMPORT_AUR(1 To IT_NTRAMS_AUR), IT_TRAMS_AUR(1 To IT_NTRAMS_AUR)

' IT_TRAMS_AUR(1) = 30.05: IT_IMPORT_AUR(1) = 0.09
' IT_TRAMS_AUR(2) = 60.1: IT_IMPORT_AUR(2) = 0.18
' IT_TRAMS_AUR(3) = 120.2: IT_IMPORT_AUR(3) = 0.39
' IT_TRAMS_AUR(4) = 240.4: IT_IMPORT_AUR(4) = 0.78
' IT_TRAMS_AUR(5) = 480.81: IT_IMPORT_AUR(5) = 1.68
' IT_TRAMS_AUR(6) = 961.62: IT_IMPORT_AUR(6) = 3.37
' IT_TRAMS_AUR(7) = 1923.24: IT_IMPORT_AUR(7) = 7.21
' IT_TRAMS_AUR(8) = 3846.48: IT_IMPORT_AUR(8) = 14.42
' IT_TRAMS_AUR(9) = 7692.95: IT_IMPORT_AUR(9) = 30.77
' IT_TRAMS_AUR(10) = 6.01: IT_IMPORT_AUR(10) = 0.02404

IT_BON_TUB = 0.7 'Bonificació tarifa TUB

ReDim IT_TIPUS_OS(1 To 7), IT_TARIFA_OS(7)

IT_TARIFA_OS(0) = "Total"
IT_TIPUS_OS(1) = 0.01: IT_TARIFA_OS(1) = "OSC"
IT_TIPUS_OS(2) = 0.01: IT_TARIFA_OS(2) = "OSA"
IT_TIPUS_OS(3) = 0.01: IT_TARIFA_OS(3) = "OSS"
IT_TIPUS_OS(4) = 0.01: IT_TARIFA_OS(4) = "OST"
IT_TIPUS_OS(5) = 0.01: IT_TARIFA_OS(5) = "OSR"
IT_TIPUS_OS(6) = 0.01: IT_TARIFA_OS(6) = "OSV"
IT_TIPUS_OS(7) = 0.01: IT_TARIFA_OS(7) = "OSF"

```

ReDim IT_TIPUS_AJD(1 To 17), IT_TARIFA_AJD(17)

IT_TIPUS_AJD(1) = 0.015:	IT_TARIFA_AJD(0) = "Total"
IT_TIPUS_AJD(2) = 0.015:	IT_TARIFA_AJD(1) = "AJ0"
IT_TIPUS_AJD(3) = 0.015:	IT_TARIFA_AJD(2) = "AJ1"
IT_TIPUS_AJD(4) = 0.015:	IT_TARIFA_AJD(3) = "AJ2"
IT_TIPUS_AJD(5) = 0.015:	IT_TARIFA_AJD(4) = "AJ3"
IT_TIPUS_AJD(6) = 0.018:	IT_TARIFA_AJD(5) = "AJ4"
IT_TIPUS_AJD(7) = 0.015:	IT_TARIFA_AJD(6) = "AJ5"
IT_TIPUS_AJD(8) = 0.015:	IT_TARIFA_AJD(7) = "AJ6"
IT_TIPUS_AJD(9) = 0.015:	IT_TARIFA_AJD(8) = "AJ7"
IT_TIPUS_AJD(10) = 0.001:	IT_TARIFA_AJD(9) = "AJ8"
IT_TIPUS_AJD(11) = 0.001:	IT_TARIFA_AJD(10) = "AJ9"
IT_TIPUS_AJD(12) = 0.001:	IT_TARIFA_AJD(11) = "AAH"
IT_TIPUS_AJD(13) = 0.005:	IT_TARIFA_AJD(12) = "APH"
IT_TIPUS_AJD(14) = 0.005:	IT_TARIFA_AJD(13) = "AP0"
IT_TIPUS_AJD(15) = 0.005:	IT_TARIFA_AJD(14) = "AJJ"
IT_TIPUS_AJD(16) = 0.015:	IT_TARIFA_AJD(15) = "AJM"
IT_TIPUS_AJD(17) = 0.015:	IT_TARIFA_AJD(16) = "AIC"
	IT_TARIFA_AJD(17) = "AIM"

ElseIf tipus_impost = "IPPF" Then

IPPF_ANYREF = 2011

IPPF_OP(1) = 700000: IPPF_OP(2) = 700000 'Reducció Obligació personal general i discapacitats
 IPPF_LIM(1) = 0.6: IPPF_LIM(2) = 0.8 'Limit QI IRPF i QI IPPF

ReDim LVAR(1 To 22) As String 'Definició dels béns

LVAR(1) = "Béns immobles de naturalesa urbana"
 LVAR(2) = "Béns immobles de naturalesa rústica"
 LVAR(3) = "Béns i drets no exempts afectes a activitats empresarials i professionals"
 LVAR(4) = "Béns i drets exempts afectes a activitats empresarials i professionals"
 LVAR(5) = "Dipòsits en compte corrent o d'estalvi, a la vista o a termini, comptes financers i altres tipus d'imposicions en compte"
 LVAR(6) = "Deute públic, obligacions bons, i altres valors equivalents, negociats en mercats organitzats"
 LVAR(7) = "Obligacions, bons, certificats de dipòsit, pagarés, i altres valors equivalents, no negociats en mercats organitzats"
 LVAR(8) = "Accions i participacions en el capital social o en el fons patrimonial d'institucions d'inversió col·lectiva (societats i fons d'inversió), negociades en mercats organitzats"
 LVAR(9) = "Accions i participacions en el capital social o en els fons propis de qualsevol altres entitas jurídiques, negociades en mercats organitzats"
 LVAR(10) = "Accions i participacions en el capital social o en el fons patrimonial d'institucions d'inversió col·lectiva (societats i fons d'inversió), no negociades en mercats organitzats"
 LVAR(11) = "Accions i participacions en el capital social o en els fons propis de qualsevol altres entitas jurídiques, no negociades en mercats organitzats, incloses les participacions en el capital social de cooperatives"
 LVAR(12) = "Accions i participacions exemptes en el capital social o en els fons propis d'entitas jurídiques, negociades en mercats organitzats"
 LVAR(13) = "Accions i participacions exemptes en el capital social o en els fons propis d'entitas jurídiques, no negociades en mercats organitzats, incloses les participacions exemptes en el capital social de cooperatives"
 LVAR(14) = "Assegurances de vida"
 LVAR(15) = "Rendes temporals i vitalícies"
 LVAR(16) = "Vehicles, joies, pells de caràcter sumptuari, embarcacions i aeronaus"
 LVAR(17) = "Objectes d'art i antiguitats"
 LVAR(18) = "Drets reals d'ús i gaudi (excepte els que corresponguin, si s'escau, a l'habitatge habitual del subjecte passiu)"
 LVAR(19) = "Concessions administratives"
 LVAR(20) = "Drets derivats de la propietat intel·lectual i industrial"
 LVAR(21) = "Opcions contractuals"
 LVAR(22) = "Altres béns i drets de contingut econòmic"

ReDim IPPF_E(1 To 22) 'Béns exempts=0 o no exempts=1

For il = 1 To 22

If il = 4 Or il = 12 Or il = 13 Then IPPF_E(il) = 1 Else IPPF_E(il) = 0

Next il

ReDim IPPF_ME(1 To 22)

'Mínims exempts béns

IPPF_ME(1) = 300000

'Habitatge habitual

For il = 2 To 22

IPPF_ME(il) = 0

'Resta de béns

Next il

IPPF_NTRAMS = 8

'Trams i tipus

ReDim IPPF_TRAMS(1 To IPPF_NTRAMS - 1), IPPF_TIPUS(1 To IPPF_NTRAMS)

IPPF_TRAMS(1) = 167130: IPPF_TIPUS(1) = 0.002

IPPF_TRAMS(2) = 334253: IPPF_TIPUS(2) = 0.003

IPPF_TRAMS(3) = 668500: IPPF_TIPUS(3) = 0.005

IPPF_TRAMS(4) = 1337000: IPPF_TIPUS(4) = 0.009

IPPF_TRAMS(5) = 2674000: IPPF_TIPUS(5) = 0.013

IPPF_TRAMS(6) = 5348000: IPPF_TIPUS(6) = 0.017

IPPF_TRAMS(7) = 10696000: IPPF_TIPUS(7) = 0.021

IPPF_TIPUS(8) = 0.025

```

End If

End Sub
Sub COMUNS_1REFERENCIA_SIMULS(opcio As String, nsim, p)

Dim i As Integer, j As Integer, nom As String

If opcio = "IRPF" Then nom = NOM_IRPF_SIMUL & "S" & ANOIRPF & "_" & Trim(Str(nsim)) & ".xlsx"
If opcio = "IS" Then nom = NOM_IS_SIMUL & "S" & ANOIS & "_" & Trim(Str(nsim)) & ".xlsx"
If opcio = "ID" Then nom = NOM_ID_SIMUL & "S" & ANOID & "_" & Trim(Str(nsim)) & ".xlsx"
If opcio = "IT" Then nom = NOM_IT_SIMUL & "S" & ANOIT & "_" & Trim(Str(nsim)) & ".xlsx"
If opcio = "IPPF" Then nom = NOM_IPPF_SIMUL & "S" & ANOIPPF & "_" & Trim(Str(nsim)) & ".xlsx"

Application.ScreenUpdating = False

Set LLIBRE_RESULTATS = Workbooks.Open(nom)
Workbooks(Workbooks.Count).Activate
Sheets("PARAMETRES").Activate
For i = 0 To UBound(p, 1)
    For j = 1 To UBound(p, 2)
        p(i, j) = Cells(i + 1, j)
    Next j
Next i

LLIBRE_RESULTATS.Close

Application.ScreenUpdating = True

End Sub
Sub COMUNS_2ORDENA(opcio As String)

Dim il As Long, it As Integer

ReDim y(1 To N)

If opcio = "IRPF" Then

    For it = 1 To 3                                'ord. 0==> com està ord. 1==>RTC ord.2=BIT ord.
3==>BLT
        For il = 1 To N
            y(il) = X(il, it)
            IND(il, it) = il
        Next il
        Call COMUNS_2ORDENA_AUX(1, N, it)          'Crida a la rutina per a ordenar
    Next it

ElseIf opcio = "IS" Then

    For it = 1 To 2                                'ord. 1==>BI 2==>BL
        For il = 1 To N
            y(il) = X(il, it)
            IND(il, it) = il
        Next il
        Call COMUNS_2ORDENA_AUX(1, N, it)          'Crida a la rutina per a ordenar
    Next it

ElseIf opcio = "ID" Then

    Dim it1 As Integer, k1 As Integer, d As Integer, v As Integer

    d = (UBound(X, 2) / 3)
    For it = 1 To 2                                'ord. 1==>BI 2==>BL
        For k1 = 1 To 3
            it1 = it + 2 * (k1 - 1)
            v = it + d * (k1 - 1)
            For il = 1 To N
                y(il) = X(il, v)
                IND(il, it1) = il
            Next il
            Call COMUNS_2ORDENA_AUX(1, N, it1)      'Crida a la rutina per a ordenar
        Next k1
    Next it

ElseIf opcio = "IT" Then

    Dim i2 As Long, i3 As Long

    For k1 = 1 To 3                                'k1=1 ==>TPO k1=2 ==>OS k1=3 ==>AJD
        i2 = IIf(k1 = 1, 1, IIf(k1 = 2, N1 + 1, N1 + N2 + 1))
        i3 = IIf(k1 = 1, N1, IIf(k1 = 2, N1 + N2, N1 + N2 + N3))
        For il = i2 To i3
            y(il) = X(il, 1)
            IND(il, 1) = il
        Next il
    Next k1

```

```

Next i1
Call COMUNS_2ORDENA_AUX(i2, i3, 1)           'Crida a la rutina per a ordenar
Next k1

End If

End Sub
Sub COMUNS_2ORDENA_AUX(lim_i As Long, lim_s As Long, columna As Integer)

Dim i As Long, j As Long, aux As Double, y1 As Double, ind1 As Long

i = lim_i
j = lim_s

aux = y((lim_i + lim_s) / 2)

While i <= j

    While (y(i) < aux) And (i < lim_s)
        i = i + 1
    Wend

    While (aux < y(j)) And (j > lim_i)
        j = j - 1
    Wend

    If i <= j Then
        y1 = y(i)
        y(i) = y(j)
        y(j) = y1
        ind1 = IND(i, columna)
        IND(i, columna) = IND(j, columna)
        IND(j, columna) = ind1
        i = i + 1
        j = j - 1
    End If

Wend

If lim_i < j Then COMUNS_2ORDENA_AUX lim_i, j, columna
If i < lim_s Then COMUNS_2ORDENA_AUX i, lim_s, columna

End Sub
Sub COMUNS_3ESCRITURA_AUXILIAR(arxiu As String)

Dim i1 As Integer, i2 As Long, j1 As Integer, nom As String

'.....
'Crea els arxius per a guardar els resultats de la simulació
'.....

If arxiu = "IRPF" Then

    PARS(0, 12) = N
    PARS(0, 13) = NT
    PARS(0, 14) = PAG(1)
    PARS(0, 15) = PAG(2)
    PARS(0, 16) = PAG(3)

    nom = NOM_IRPF_SIMUL & "S" & ANOIRPF & "_" & Trim(Str(CIRPF(ISIMULS(1)) + 1)) & ".xlsx"
    FileCopy ThisWorkbook.Path & "\SIMUL\IRPF\PLANTILLA_IRPF.xlsx", nom
    Set LLIBRE_RESULTATS = Workbooks.Open(nom)
    Workbooks(Workbooks.Count).Activate

    ActiveWorkbook.Unprotect (SECRET)

    Sheets("PARAMETRES").Activate
    For i1 = 0 To UBound(PARS, 1)
        For j1 = 1 To UBound(PARS, 2)
            Cells(i1 + 1, j1) = PARS(i1, j1)
        Next j1
    Next i1
    ActiveSheet.Protect (SECRET)

    Sheets("DESCRIPTIU").Activate
    For i1 = 1 To 22
        For j1 = 1 To 8
            Cells(i1, j1) = VT(i1, j1)
        Next j1
    Next i1
    ActiveSheet.Protect (SECRET)

    Sheets("LIMITS-MITJANES").Activate

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For i1 = 1 To 4
  For j1 = 1 To 12
    Cells(i1, j1) = VT(22 + i1, j1)
  Next j1
Next i1
ActiveSheet.Protect (SECRET)

Sheets("G-P").Activate
For i1 = 1 To 6
  For j1 = 1 To 12
    Cells(i1, j1) = VT(26 + i1, j1)
  Next j1
Next i1
ActiveSheet.Protect (SECRET)

Sheets("DECILS-RTC").Activate
For i1 = 1 To 44
  For j1 = 1 To 12
    Cells(i1, j1) = VT(32 + i1, j1)
  Next j1
Next i1
ActiveSheet.Protect (SECRET)

Sheets("TIPUS-RTC").Activate
For i1 = 1 To 18
  For j1 = 1 To 12
    Cells(i1, j1) = VT(76 + i1, j1)
  Next j1
Next i1
ActiveSheet.Protect (SECRET)

Sheets("DECILS-BIT").Activate
For i1 = 1 To 44
  For j1 = 1 To 12
    Cells(i1, j1) = VT(94 + i1, j1)
  Next j1
Next i1
ActiveSheet.Protect (SECRET)

Sheets("TIPUS-BIT").Activate
For i1 = 1 To 18
  For j1 = 1 To 12
    Cells(i1, j1) = VT(138 + i1, j1)
  Next j1
Next i1
ActiveSheet.Protect (SECRET)

Sheets("INDEXS").Activate
For i1 = 1 To 55
  For j1 = 1 To 3
    Cells(i1, j1) = VT(156 + i1, j1)
  Next j1
Next i1
ActiveSheet.Protect (SECRET)

Sheets("SOCIO-ECONOMICA").Activate
For i1 = 1 To 75
  For j1 = 1 To 11
    Cells(i1, j1) = VT(211 + i1, j1)
  Next j1
Next i1
ActiveSheet.Protect (SECRET)

Open NOM_IRPF_SIMUL & "GP" & ANOIRPF & "_" & Trim(Str(CIRPF(ISIMULS(1)) + 1)) & ".dat" For Output As #1
Write #1, N, DECL_NOMBRE, ANY_PROJ
For i2 = 1 To N
  Write #1, IND(i2, 1), X(i2, 22), X(i2, 23)
Next i2
Close #1

ElseIf arxiu = "IS" Then

PARMS(0, 4) = N
PARMS(0, 5) = NT
PARMS(0, 6) = PAG(1)
PARMS(0, 7) = PAG(2)
PARMS(0, 8) = PAG(3)

nom = NOM_IS_SIMUL & "S" & ANOIS & "_" & Trim(Str(CIS(ISIMULS(2)) + 1)) & ".xlsx"
FileCopy ThisWorkbook.Path & "\SIMUL\IS\PLANTILLA_IS.xlsx", nom
Set LLIBRE_RESULTATS = Workbooks.Open(nom)
Workbooks(Workbooks.Count).Activate

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```

Sheets("PARAMETRES").Activate
For il = 0 To UBound(PARMS, 1)
  For j1 = 1 To UBound(PARMS, 2)
    Cells(il + 1, j1) = PARMS(il, j1)
  Next j1
Next il
ActiveSheet.Protect (SECRET)

Sheets("DESCRIPTIU").Activate
For il = 1 To 20
  For j1 = 1 To 12
    Cells(il, j1) = VT(il, j1)
  Next j1
Next il
ActiveSheet.Protect (SECRET)

Sheets("LIMITS-MITJANES").Activate
For il = 1 To 2
  For j1 = 1 To 12
    Cells(il, j1) = VT(20 + il, j1)
  Next j1
Next il
ActiveSheet.Protect (SECRET)

Sheets("DECILS-TIPUS").Activate
For il = 1 To 22
  For j1 = 1 To 12
    Cells(il, j1) = VT(22 + il, j1)
  Next j1
Next il
ActiveSheet.Protect (SECRET)

Sheets("INDEXS").Activate
For il = 1 To 34
  For j1 = 1 To 2
    Cells(il, j1) = VT(44 + il, j1)
  Next j1
Next il
ActiveSheet.Protect (SECRET)

Open NOM_IS_SIMUL & "GP" & ANOIS & "_" & Trim(Str(CIS(ISIMULS(2)) + 1)) & ".dat" For Output As #1
Write #1, N
For i2 = 1 To N
  Write #1, IND(i2, 1), X(i2, 10), X(i2, 11)
Next i2
Close #1

ElseIf arxiu = "ID" Then

  nom = NOM_ID_SIMUL & "S" & ANOID & "_" & Trim(Str(CID(ISIMULS(3)) + 1)) & ".xlsx"
  FileCopy ThisWorkbook.Path & "\SIMUL\ISD\PLANTILLA_ID.xlsx", nom
  Set LLIBRE_RESULTATS = Workbooks.Open(nom)
  Workbooks(Workbooks.Count).Activate

  ActiveWorkbook.Unprotect (SECRET)

  Sheets("PARAMETRES").Activate
  For il = 0 To UBound(PARMS, 1)
    For j1 = 1 To UBound(PARMS, 2)
      Cells(il + 1, j1) = PARMS(il, j1)
    Next j1
  Next il
  ActiveSheet.Protect (SECRET)

  Sheets("DESCRIPTIU").Activate
  For il = 1 To 18
    For j1 = 1 To 12
      Cells(il, j1) = VT(il, j1)
    Next j1
  Next il
  ActiveSheet.Protect (SECRET)

  Sheets("LIMITS-MITJANES").Activate
  For il = 1 To 6
    For j1 = 1 To 12
      Cells(il, j1) = VT(18 + il, j1)
    Next j1
  Next il
  ActiveSheet.Protect (SECRET)

  Sheets("DECILS-TIPUS").Activate
  For il = 1 To 36
    For j1 = 1 To 12

```

```

        Cells(i1, j1) = VT(24 + i1, j1)
    Next j1
Next i1
ActiveSheet.Protect (SECRET)

Sheets("INDEXS").Activate
For i1 = 1 To 42
    For j1 = 1 To 2
        Cells(i1, j1) = VT(60 + i1, j1)
    Next j1
Next i1
ActiveSheet.Protect (SECRET)

Open NOM_ID_SIMUL & "GP" & ANOID & "_" & Trim(Str(CID(ISIMULS(3)) + 1)) & ".dat" For Output As #1
Write #1, N1, N2, N, NT1, NT2, NT
For i2 = 1 To N
    Write #1, IND(i2, 1), X(i2, 5), X(i2, 6), _
        IND(i2, 3), X(i2, 11), X(i2, 12), _
        IND(i2, 5), X(i2, 17), X(i2, 18)
Next i2
Close #1

ElseIf arxiu = "IT" Then

    nom = NOM_IT_SIMUL & "S" & ANOIT & "_" & Trim(Str(CIT(ISIMULS(4)) + 1)) & ".xlsx"
    FileCopy ThisWorkbook.Path & "\SIMUL\ITPOAJDOS\PLANTILLA_IT.xlsx", nom
    Set LLIBRE_RESULTATS = Workbooks.Open(nom)
    Workbooks(Workbooks.Count).Activate

    ActiveWorkbook.Unprotect (SECRET)

    LLIBRE_RESULTATS.Protect (SECRET)

    Sheets("PARAMETRES").Activate
    For i1 = 0 To UBound(PARMS, 1)
        For j1 = 1 To UBound(PARMS, 2)
            Cells(i1 + 1, j1) = PARMS(i1, j1)
        Next j1
    Next i1
    ActiveSheet.Protect (SECRET)

    Sheets("DESCRIPTIU").Activate
    For i1 = 0 To 43
        For j1 = 1 To 10
            Cells(i1 + 1, j1) = VT(i1, j1)
        Next j1
    Next i1
    ActiveSheet.Protect (SECRET)

    Sheets("INDEXS").Activate
    For i1 = 1 To 12
        For j1 = 1 To 1
            Cells(i1, j1) = VT(43 + i1, 1)
        Next j1
    Next i1
    ActiveSheet.Protect (SECRET)

ElseIf arxiu = "IPPF" Then

    PARMS(0, 4) = N
    PARMS(0, 5) = PAG(1)
    PARMS(0, 6) = PAG(2)
    PARMS(0, 7) = PAG(3)

    nom = NOM_IPPF_SIMUL & "S" & ANOIPPF & "_" & Trim(Str(CIPPF(ISIMULS(5)) + 1)) & ".xlsx"
    FileCopy ThisWorkbook.Path & "\SIMUL\IPPF\PLANTILLA_IPPF.xlsx", nom
    Set LLIBRE_RESULTATS = Workbooks.Open(nom)
    Workbooks(Workbooks.Count).Activate

    ActiveWorkbook.Unprotect (SECRET)

    Sheets("PARAMETRES").Activate
    For i1 = 0 To UBound(PARMS, 1)
        For j1 = 1 To UBound(PARMS, 2)
            Cells(i1 + 1, j1) = PARMS(i1, j1)
        Next j1
    Next i1
    ActiveSheet.Protect (SECRET)

    Sheets("DESCRIPTIU").Activate
    For i1 = 1 To 4
        For j1 = 1 To 8
            Cells(i1, j1) = VT(i1, j1)

```

```

    Next j1
Next i1
ActiveSheet.Protect (SECRET)

Sheets("LIMITS-MITJANES").Activate
For i1 = 1 To 2
    For j1 = 1 To 12
        Cells(i1, j1) = VT(4 + i1, j1)
    Next j1
Next i1
ActiveSheet.Protect (SECRET)

Sheets("DECILS-TIPUS").Activate
For i1 = 1 To 10
    For j1 = 1 To 12
        Cells(i1, j1) = VT(6 + i1, j1)
    Next j1
Next i1
ActiveSheet.Protect (SECRET)

Sheets("INDEXS").Activate
For i1 = 1 To 6
    For j1 = 1 To 2
        Cells(i1, j1) = VT(16 + i1, j1)
    Next j1
Next i1
ActiveSheet.Protect (SECRET)

Sheets("G-P").Activate
For i1 = 1 To 6
    For j1 = 1 To 12
        Cells(i1, j1) = VT(22 + i1, j1)
    Next j1
Next i1
ActiveSheet.Protect (SECRET)

Open NOM_IPPF_SIMUL & "GP" & ANOIPPF & "_" & Trim(Str(CIPPF(ISIMULS(5)) + 1)) & ".dat" For Output As #1
Write #1, N
For i2 = 1 To N
    Write #1, IND(i2, 0), X(i2, 3), X(i2, 5)
Next i2
Close #1

End If

LLIBRE_RESULTATS.Protect (SECRET)
LLIBRE_RESULTATS.Save
LLIBRE_RESULTATS.Close

End Sub
Sub COMUNS_41GRAFICS_CORBESLORENZ(fila, gp, impost_t, nom, r_g, s_r)

'fila    ==> línia on escriu el gràfic
'impost_t ==> "IRPF", "IS" o "ID"
'nom     ==> nom de les corbes
'r_g     ==> rangs dels valors de les sèries dels gràfics
's_r     ==> indicador d'igualtat de les corbes

Dim i1 As Integer, i2 As Integer

For i1 = 1 To 2
    Charts.Add
    With ActiveChart
        .ChartType = xlXYScatterSmoothNoMarkers
        For i2 = 1 To IIf(gp, 7, 4)
            .SeriesCollection.NewSeries
            With .SeriesCollection(i2)
                With .Border
                    .ColorIndex = IIf(i2 = 1 Or i2 = 5, 32, IIf(i2 = 2 Or i2 = 6, 3, IIf(i2 = 3 Or i2 = 7, 60, 1)))
                    If i2 > 4 And s_r(i2, i1) Then .LineStyle = xlDot
                    .Weight = xlMedium
                End With
                .MarkerStyle = xlNone
                .Name = nom(i2, i1)
                If i2 <> 4 Then
                    .Values = r_g(i2, i1)
                    If i2 <> 3 And i2 <> 7 Then
                        .XValues = Array(0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 0.95, 0.98, 1)
                    Else
                        .XValues = r_g(i2 - 2, i1)
                    End If
                Else
                    .Values = Array(0, 1)
                End If
            End With
        Next i2
    End With
Next i1

```

```

        .XValues = Array(0, 1)
    End If
End With
Next i2
For i2 = 1 To 2
    With .Axes(IIf(i2 = 1, xlCategory, xlValue))
        .HasMajorGridlines = True
        .HasDisplayUnitLabel = False
        .MinorUnit = 0.1
        .MajorUnit = 0.1
        .MinimumScale = 0
        .MaximumScale = 1
        .TickLabels.Font.Bold = True
        .TickLabels.Font.Name = "Calibri"
        .TickLabels.Font.Size = 7
        .TickLabels.NumberFormat = "0%"
    End With
Next i2
.HasTitle = True
With .ChartTitle
    .Characters.Text = "Corbes de Lorenz i Concentració (ordenació abscissa "
    If impost_t = "IRPF" Then .Characters.Text = .Characters.Text & IIf(i1 = 1, "RTC", "BIT")
    If impost_t <> "IRPF" Then .Characters.Text = .Characters.Text & IIf(i1 = 1, "BI", "BL")
    .Font.Bold = True
    .Font.Name = "Calibri"
    .Font.Size = 8.5
    .Top = 0
End With
With .Legend
    .Border.LineStyle = xlNone
    .Font.Bold = True
    .Font.Name = "Calibri"
    .Font.Size = IIf(gp, 5.5, 6)
    For i2 = .LegendEntries.Count To IIf(gp, 8, 5) Step -1
        .LegendEntries(i2).Delete
    Next i2
    .LegendEntries(4).Delete
    .Position = xlLegendPositionBottom
End With
With .PlotArea
    .Interior.ColorIndex = 2
    .Left = 0
    .Top = 20 '15
    .Width = 805
    .Height = IIf(gp, 390, 410)
End With
.Location Where:=xlLocationAsObject, Name:=impost_t & "(R)"

'.....
'Definició d'alçada i amplada dels gràfics'
'.....

With Worksheets(impost_t & "(R)")
    .ChartObjects(1).Height = 218
    .ChartObjects(1).Width = 260
End With

'.....
'Reconversió dels gràfics en imatges'
'.....

ActiveSheet.ChartObjects(1).CopyPicture
ActiveWindow.Visible = False
Cells(fila, IIf(i1 = 1, 1, 8)).Select
ActiveSheet.Paste
Worksheets(impost_t & "(R)").ChartObjects(1).Delete
End With
Next i1

End Sub
Sub COMUNS_42GRAFICS_TIPUS(fila, gp, impost_t, m, r_g, s_r, sim)

'fila    ==> línia on escriu el gràfic
'impost_t ==> "IRPF", "IS" o "ID"
'm       ==> valor màxim de l'escala vertical del gràfic
'r_g     ==> rangs dels valors de les sèries dels gràfics
'sim     ==> nombre de la simulació
's_r     ==> indicador d'igualtat dels tipus

Dim i1 As Integer, i2 As Integer

For i1 = 1 To IIf(impost_t = "IRPF", 6, 2)
    Charts.Add

```

```

With ActiveChart
    .ChartType = xlXYScatterSmoothNoMarkers
    For i2 = 1 To IIf(gp, 2, 1)
        .SeriesCollection.NewSeries
        With .SeriesCollection(i2)
            .Border.ColorIndex = IIf(i2 = 1, 32, IIf(s_r(i1, 3), 40, 32))
            .Border.Weight = xlMedium
            .MarkerStyle = xlNone
            .Name = IIf(i2 = 1, "Simulació-" & sim, "Referència")
            .Values = r_g(i2, i1 + 2)
            .XValues = Array(0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 0.95, 0.98, 1)
        End With
    Next i2
    For i2 = 1 To 2
        With .Axes(IIf(i2 = 1, xlCategory, xlValue))
            .HasMajorGridlines = True
            .HasDisplayUnitLabel = False
            .MinorUnit = IIf(i2 = 1, 0.1, m / 10)
            .MajorUnit = IIf(i2 = 1, 0.1, m / 10)
            .MinimumScale = IIf(i2 = 1, 0.1, 0)
            .MaximumScale = IIf(i2 = 1, 1, m)
            .TickLabels.Font.Bold = True
            .TickLabels.Font.Name = "Calibri"
            .TickLabels.Font.Size = 7
            .TickLabels.NumberFormat = IIf(i2 = 1, "0%", "0.00%")
        End With
    Next i2
    .HasTitle = True
    With .ChartTitle
        If impost_t = "IRPF" Then
            If i1 = 1 Then .Characters.Text = "QR s/RTC (ordenació abscissa RTC)"
            If i1 = 2 Then .Characters.Text = "QA s/RTC (ordenació abscissa RTC)"
            If i1 = 3 Then .Characters.Text = "QR s/BIT (ordenació abscissa BIT)"
            If i1 = 4 Then .Characters.Text = "QA s/BIT (ordenació abscissa BIT)"
            If i1 = 5 Then .Characters.Text = "QR s/BLT (ordenació abscissa BIT)"
            If i1 = 6 Then .Characters.Text = "QA s/BLT (ordenació abscissa BIT)"
        Else
            .Characters.Text = "Tipus efectius s/Base " & IIf(i1 = 1, "Imposable", "Liquidable") & " (ordenació
abscissa BI)"
        End If
        .Font.Bold = True
        .Font.Name = "Calibri"
        .Font.Size = 8.5
        .Top = 0
    End With
    With .Legend
        .Border.LineStyle = xlNone
        .Font.Bold = True
        .Font.Name = "Calibri"
        .Font.Size = 6
        For i2 = .LegendEntries.Count To IIf(gp, 3, 2) Step -1
            .LegendEntries(i2).Delete
        Next i2
        .Position = xlLegendPositionBottom
    End With
    With .PlotArea
        .Interior.ColorIndex = 2
        .Left = 0
        .Top = 20 '15
        .Width = 805
        .Height = 415
    End With
    .Location Where:=xlLocationAsObject, Name:=impost_t & "(R)"

    'Definició d'alçada i amplada dels gràfics'
    'Reconversió dels gràfics en imatges'

    With Worksheets(impost_t & "(R)")
        .ChartObjects(1).Height = 218
        .ChartObjects(1).Width = 260
    End With

    ActiveSheet.ChartObjects(1).CopyPicture
    ActiveWindow.Visible = False
    If impost_t <> "IRPF" Then
        Cells(fila, IIf(i1 = 1 Or i1 = 3 Or i1 = 5, 1, 8)).Select
    Else
        Cells(IIf(i1 < 3, fila, IIf(i1 < 5, fila + 23, fila + 46)), _

```

```

        IIf(i1 = 1 Or i1 = 3 Or i1 = 5, 1, 8)).Select
    End If
    ActiveSheet.Paste
    Worksheets(impost_t & "(R)").ChartObjects(1).Delete
End With
Next il

End Sub
Sub COMUNS_43GRAFICS_GP(fila, iany, impost_t, opcio, r_gp, sim)

'fila    ==> línia on escriu el gràfic
'iany    ==> ANOIRPF, ANOIS, ANOID, ANOIPPF
'impost_t ==> "IRPF", "IS", "ID", "IPPF"
'opcio   ==> "(R)" o "(GP)"
'r_gp    ==> rangs dels valors de les sèries dels gràfics
'sim     ==> nombre de la simulació o 1 quan es la comparació de dues simulacions

Dim il As Integer, i2 As Integer, j1 As Integer, m As Double

If opcio = "(R)" And impost_t = "IRPF" Then
    With Range(Cells(fila - 1, 1), Cells(fila + 45, 15))
        .ColumnWidth = 6.43
        .Interior.ColorIndex = 2
        .RowHeight = 10
    End With
    With Range(Cells(fila - 1, 1), Cells(fila - 1, 1))
        .Font.Bold = True
        .Font.Size = 10
        .HorizontalAlignment = xlLeft
        .RowHeight = 14
        .Value = "GRÀFICS DE LA SIMULACIÓ-" & sim & " (Base de dades: " & iany & ") cont."
    End With
End If

For il = 1 To 4
    If il = 1 Then
        m = Application.max(r_gp(1, 1), r_gp(2, 1))
        For i2 = 100 To 0 Step -10
            If m * 100 > i2 Then Exit For
        Next i2
        m = (i2 / 100) + 0.1
    End If
    Charts.Add
    With ActiveChart
        .ChartType = IIf(il = 1, xlColumnClustered, xlColumnStacked)
        For j1 = .SeriesCollection.Count To 1 Step -1
            .SeriesCollection(j1).Delete
        Next j1
        For i2 = 1 To 2
            .SeriesCollection.NewSeries
            With .SeriesCollection(i2)
                .Interior.ColorIndex = IIf(il = 1, IIf(i2 = 1, 32, 40), IIf(i2 = 1, 1, 3))
                If opcio = "(G-P)" Then
                    .Name = IIf(il = 1, IIf(i2 = 1, "Simulació-" & COMP(1), "Simulació-" & COMP(2)), _
                        IIf(il = 2, IIf(i2 = 1, "Guanyadors", "Perdedors"), _
                            IIf(i2 = 1, "Guanyats", "Pèrdues")))
                Else
                    .Name = IIf(il = 1, IIf(i2 = 1, "Simulació-" & sim, "Referència"), _
                        IIf(il = 2, IIf(i2 = 1, "Guanyadors", "Perdedors"), _
                            IIf(i2 = 1, "Guanyats", "Pèrdues")))
                End If
                .Values = r_gp(i2, il)
                .XValues = Array(0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 0.95, 0.98, 1)
            End With
        Next i2
        For i2 = 1 To 2
            With .Axes(IIf(i2 = 1, xlCategory, xlValue))
                If i2 = 1 Then
                    .TickLabelSpacing = 1
                    .TickLabelPosition = xlLow
                Else
                    .HasDisplayUnitLabel = False
                    If il <= 2 Then
                        .MinorUnit = IIf(il = 1, m / 10, 0.2)
                        .MajorUnit = IIf(il = 1, m / 10, 0.2)
                        .MinimumScale = IIf(il = 1, 0, -1)
                        .MaximumScale = IIf(il = 1, m, 1)
                    End If
                End If
                .TickLabels.Font.Bold = True
                .TickLabels.Font.Name = "Calibri"
                .TickLabels.Font.Size = 7
                .TickLabels.NumberFormat = IIf(i2 = 1, "0%", IIf(il <= 2, "0%", "#0,0"))
            End With
        Next i2
    End With
End Sub

```

```

    End With
Next i2
.HasTitle = True
With .ChartTitle
    If opcio = "(G-P)" Then
        If il = 1 Then
            If impost_t = "IRPF" Then .Characters.Text = "Distribució de la QR"
            If impost_t = "IPPF" Then .Characters.Text = "Distribució de la QPI"
            If impost_t <> "IRPF" And impost_t <> "IPPF" Then .Characters.Text = "Distribució de la QT"
        End If
        If il = 2 Then .Characters.Text = "Guanyadors i Perdedors. Simulació-" & COMP(1) & " vs.
Simulació-" & COMP(2)
        If il = 3 Then .Characters.Text = "Guanyats i Pèrdues totals (milers d'€). Simulació-" & COMP(1) &
" vs. Simulació-" & COMP(2)
        If il = 4 Then .Characters.Text = "Guanyats i Pèrdues per capita(€). Simulació-" & COMP(1) & " vs.
Simulació-" & COMP(2)
    Else
        If il = 1 Then
            If impost_t = "IRPF" Then .Characters.Text = "Distribució de la QR (ordenació abscissa RTC)"
            If impost_t <> "IRPF" Then .Characters.Text = "Distribució de la QT (ordenació abscissa BI)"
        End If
        If il = 2 Then .Characters.Text = "Guanyadors i Perdedors. Simulació-" & sim & " vs. Referència"
        If il = 3 Then .Characters.Text = "Guanyats i Pèrdues totals (milers d'€). Simulació-" & sim & " vs.
Referència"
        If il = 4 Then .Characters.Text = "Guanyats i Pèrdues per capita(€). Simulació-" & sim & " vs.
Referència"
    End If
    .Font.Bold = True
    .Font.Name = "Calibri"
    .Font.Size = 7
    .Top = 0
End With
With .Legend
    .Border.LineStyle = xlNone
    .Font.Bold = True
    .Font.Name = "Calibri"
    .Font.Size = 7
    For i2 = .LegendEntries.Count To 3 Step -1
        .LegendEntries(i2).Delete
    Next i2
    .Position = xlLegendPositionBottom
End With
With .PlotArea
    .Interior.ColorIndex = 2
    .Left = 0
    .Top = 20 '15
    .Width = 805
    .Height = 415
End With
.Location Where:=xlLocationAsObject, Name:=impost_t & opcio

'.....
'Definició d'alçada i amplada dels gràfics'
'.....

Dim iheight As Integer, iwidth As Integer
With Worksheets(impost_t & opcio)
    If opcio = "(R)" Then
        iheight = 218
        iwidth = 260
    Else
        iheight = 218
        iwidth = 260
    End If
    .ChartObjects(1).Height = iheight
    .ChartObjects(1).Width = iwidth
End With

'.....
'Reconversió dels gràfics en imatges'
'.....

ActiveSheet.ChartObjects(1).CopyPicture
ActiveWindow.Visible = False
Cells(IIf(il < 3, fila, fila + 23), IIf(il = 1 Or il = 3, 1, 8)).Select
ActiveSheet.Paste
Worksheets(impost_t & opcio).ChartObjects(1).Delete
End With
Next il

End Sub
Sub COMUNS_5IMPRESSIO(impost_t, opcio)

```

```
.....  
'Configura el full de resultats'  
.....  
  
With ActiveSheet.PageSetup  
    .BlackAndWhite = True  
    .BottomMargin = Application.InchesToPoints(0.393700787401575)  
    .FooterMargin = Application.InchesToPoints(0.196850393700787)  
    .HeaderMargin = Application.InchesToPoints(0.196850393700787)  
    .LeftFooter = "&" & "Arial,Negrita"&"&8" & "Data: " & "&D" & " Hora: " & "&T"  
    .LeftMargin = Application.InchesToPoints(0.393700787401575)  
    .RightFooter = "&" & "Arial,Negrita"&"&8" & "Pàgina: " & "&P" & " de " & "&N"  
    .RightHeader = "&" & "Arial,Negrita"&"&8" & _  
        "GENERALITAT DE CATALUNYA: SIMCAT(v4.2) " & Chr(169) & " " & Chr(174) & _  
        " (" & impost_t & ")"  
    .RightMargin = Application.InchesToPoints(0.393700787401575)  
    .TopMargin = Application.InchesToPoints(0.393700787401575)  
    If opcio = "R" Then  
        .Zoom = IIf(impost_t = "ITPOOSAJD", 70, 75)  
    Else  
        .Zoom = IIf(impost_t = "ITPOOSAJD", 100, 90)  
    End If  
End With  
ActiveWindow.View = xlPageBreakPreview  
'ActiveSheet.VPageBreaks(1).DragOff Direction:=xlToRight, RegionIndex:=1  
With ActiveWindow  
    .DisplayWorkbookTabs = True  
    .View = xlNormalView  
    .Zoom = Int(XZOOM * IIf(XTEXT, 0.646, 1))  
    If impost_t = "ITPOOSAJD" Then .Zoom = 130  
End With  
Cells(1, 1).Activate  
'ActiveSheet.Protect (SECRET), DrawingObjects:=False  
ActiveWorkbook.Protect (SECRET)  
  
With Sheets("SIMULADOR REFORMES IMPOSITIVES")  
    .Activate  
    .Esperar.Visible = False  
End With  
Application.ScreenUpdating = True  
  
End Sub
```

```

Attribute VB_Name = "Impostos"
Option Explicit
Sub SIMCAT_IMPOSTOS()

Sheets("SIMULADOR REFORMES IMPOSITIVES").Activate

ActiveWindow.DisplayWorkbookTabs = False

Application.DisplayAlerts = False

SORTIR = False

If OBRIR = 1 Then
    SIMCAT_Caratula.MultiPage1.Value = 0
    SIMCAT_Caratula.Show
    If SORTIR Then GoTo SURT
End If

Dim ianyb(1 To 5) As Integer, isim(1 To 5) As Integer, il As Integer, j1 As Integer, temps As Date

.....
'Determina els anys de les bases de dades dels tres impostos'
.....

For j1 = 1 To 5
    ianyb(j1) = 0
    For il = 2015 To 2007 Step -1
        If Dir(IIf(j1 = 1, NOM_IRPF_DADES, IIf(j1 = 2, NOM_IS_DADES, IIf(j1 = 3, NOM_ID_DADES, _
            IIf(j1 = 4, NOM_IT_DADES, NOM_IPPF_DADES)))) & Trim(Str(il)) & ".dat") <> "" Then
            ianyb(j1) = ianyb(j1) + 1
            If j1 = 1 Then
                ReDim Preserve AIRPF(0 To ianyb(j1) - 1)
                AIRPF(ianyb(j1) - 1) = il
            ElseIf j1 = 2 Then
                ReDim Preserve AIS(0 To ianyb(j1) - 1)
                AIS(ianyb(j1) - 1) = il
            ElseIf j1 = 3 Then
                ReDim Preserve AID(0 To ianyb(j1) - 1)
                AID(ianyb(j1) - 1) = il
            ElseIf j1 = 4 Then
                ReDim Preserve AIT(0 To ianyb(j1) - 1)
                AIT(ianyb(j1) - 1) = il
            ElseIf j1 = 5 Then
                ReDim Preserve AIPPF(0 To ianyb(j1) - 1)
                AIPPF(ianyb(j1) - 1) = il
            End If
        End If
    Next il
Next j1

For j1 = 1 To 5
    If j1 = 1 Then IMPOST(j1) = True Else IMPOST(j1) = False
    ISIMULS(j1) = 0
    If ianyb(j1) = 0 Then
        If j1 = 1 Then
            ReDim AIRPF(0)
            AIRPF(0) = "Sense dades"
        ElseIf j1 = 2 Then
            ReDim AIS(0)
            AIS(0) = "Sense dades"
        ElseIf j1 = 3 Then
            ReDim AID(0)
            AID(0) = "Sense dades"
        ElseIf j1 = 4 Then
            ReDim AIT(0)
            AIT(0) = "Sense dades"
        ElseIf j1 = 5 Then
            ReDim AIPPF(0)
            AIPPF(0) = "Sense dades"
        End If
    End If
Next j1

INICI:

COMPARA = 0
ERR_LEC = True
RES = 0
SIMUL = 0
SORTIR = False

Do While ERR_LEC
    Application.ScreenUpdating = True
    With Inicial

```

```

If IMPOST(1) Then
    .MultiPage1.Value = 0
ElseIf IMPOST(2) Then
    .MultiPage1.Value = 1
ElseIf IMPOST(3) Then
    .MultiPage1.Value = 2
ElseIf IMPOST(4) Then
    .MultiPage1.Value = 3
ElseIf IMPOST(5) Then
    .MultiPage1.Value = 4
End If
.ListBox_IRPF.List = AIRPF
.ListBox_IS.List = AIS
.ListBox_ID.List = AID
.ListBox_IT.List = AIT
.ListBox_IPPF.List = AIPPF
If AIRPF(0) = "Sense dades" Then .ListBox_IRPF.Enabled = False
If AIS(0) = "Sense dades" Then .ListBox_IS.Enabled = False
If AID(0) = "Sense dades" Then .ListBox_ID.Enabled = False
If AIT(0) = "Sense dades" Then .ListBox_IT.Enabled = False
If AIPPF(0) = "Sense dades" Then .ListBox_IPPF.Enabled = False
.Show
End With
If SORTIR Then GoTo SURT
Loop

If SORTIR Then GoTo SURT Else Application.ScreenUpdating = False

If SIMUL <> 0 Then

    Application.ScreenUpdating = False
    Call COMUNS_1REFERENCIA(IIf(SIMUL = 1, "IRPF", IIf(SIMUL = 2, "IS", _
        IIf(SIMUL = 3, "ID", IIf(SIMUL = 4, "IT", "IPPF"))))) 'Valors referència
    Application.ScreenUpdating = True

    If SIMUL = 1 Then Call IRPF_10PARAMETRES(1) 'Paràmetres simulació
    If SIMUL = 2 Then Call IS_10PARAMETRES(1)
    If SIMUL = 3 Then Call ISD_10PARAMETRES(1)
    If SIMUL = 4 Then Call IT_10PARAMETRES(1)
    If SIMUL = 5 Then Call IPPF_10PARAMETRES(1)

    If SORTIR Then GoTo INICI

    Application.DisplayStatusBar = True
    Application.StatusBar = "Inici del procés de simulació"
    Sheets("SIMULADOR REFORMES IMPOSITIVES").Esperar.Visible = True
    temps = Now
    Application.ScreenUpdating = False

    If SIMUL = 1 Then Call IRPF_10PROJECCIO_PES(2) 'Projeccions IRPF

    If SIMUL = 1 Then Call IRPF_20SIMULACIO(1) 'Simulació IRPF
    If SIMUL = 2 Then Call IS_20SIMULACIO(temps) 'Simulació IS
    If SIMUL = 3 Then Call ISD_20SIMULACIO(temps) 'Simulació ISD
    If SIMUL = 4 Then Call IT_20SIMULACIO(temps) 'Simulació IT
    If SIMUL = 5 Then Call IPPF_20SIMULACIO(temps) 'Simulació IPPF

    Application.ScreenUpdating = True
    Application.ScreenUpdating = False
    Call COMUNS_3ESCRITURA_AUXILIAR(IIf(SIMUL = 1, "IRPF", IIf(SIMUL = 2, "IS", IIf(SIMUL = 3, "ID", _
        IIf(SIMUL = 4, "IT", "IPPF"))))) 'Escriptura resultats auxiliars

    Application.StatusBar = "Final del procés de simulació: Temps de càlcul invertit=" & DateDiff("s", temps,
Now) & " segons. Registres processats=" & N & "."
    If Application.Wait(Now + TimeValue("0:00:05")) Then
        Application.StatusBar = False
        Application.DisplayStatusBar = False
    End If
    Sheets("SIMULADOR REFORMES IMPOSITIVES").Esperar.Visible = False
    GoTo INICI

End If

If COMPARA <> 0 Then

    Dim avis_c As Boolean
    avis_c = False

    Sheets("SIMULADOR REFORMES IMPOSITIVES").Esperar.Visible = True
    Application.ScreenUpdating = True
    Application.DisplayStatusBar = True
    Application.StatusBar = "Inici del procés de comparació"
    Application.ScreenUpdating = False

```

```

If COMPARA = 1 Then Call IRPF_30COMPARACIO(avis_c)
If COMPARA = 2 Then Call IS_30COMPARACIO(1)
If COMPARA = 3 Then Call ISD_30COMPARACIO(1)
If COMPARA = 4 Then Call IT_30COMPARACIO(1)
If COMPARA = 5 Then Call IPPF_30COMPARACIO(1)

Sheets("SIMULADOR REFORMES IMPOSITIVES").Esperar.Visible = False
If avis_c Then
    Application.StatusBar = ""
    Application.StatusBar = False
    Application.DisplayStatusBar = False
Else
    Application.StatusBar = "Final del procés de comparació. Registres processats=" & N & "."
    If Application.Wait(Now + TimeValue("0:00:03")) Then
        Application.StatusBar = False
        Application.DisplayStatusBar = False
    End If
End If
GoTo INICI

End If

If RES <> 0 Then

    Sheets("SIMULADOR REFORMES IMPOSITIVES").Esperar.Visible = True
    Application.ScreenUpdating = True
    Application.ScreenUpdating = False
    If RES = 1 Then Call IRPF_40ESCRIPURA(1)
    If RES = 2 Then Call IS_40ESCRIPURA(1)
    If RES = 3 Then Call ISD_40ESCRIPURA(1)
    If RES = 4 Then Call IT_40ESCRIPURA(1)
    If RES = 5 Then Call IPPF_40ESCRIPURA(1)
    Sheets("SIMULADOR REFORMES IMPOSITIVES").Esperar.Visible = False
    GoTo INICI
End If

SURT:

Sheets("SIMULADOR REFORMES IMPOSITIVES").Activate

ActiveWindow.DisplayWorkbookTabs = True

Application.DisplayAlerts = True
Application.ScreenUpdating = True

OBRIR = 0

End Sub
Private Sub IRPF_10PARAMETRES(opcio As Integer)

Dim il As Integer

Call IRPF_10PROJECCIO_PES(1) 'Proyecciones

ReDim aux1(300), aux2(100), aux3(40), aux4(15), _
    aux5(10), aux6(10), tram1(9) As Integer, tram2(5) As Integer
For il = -150 To 150
    aux1(150 - il) = il / 10
    If il >= 0 And il <= 100 Then aux2(100 - il) = il
    If il >= 0 And il <= 40 Then aux3(40 - il) = il
    If il >= 0 And il <= 15 Then aux4(15 - il) = il
    If il >= 0 And il <= 9 Then tram1(9 - il) = il + 1
    If il >= 0 And il <= 5 Then tram2(5 - il) = il + 1
Next il
aux5(0) = 100: aux5(1) = 90: aux5(2) = 80: aux5(3) = 70: aux5(4) = 60: aux5(5) = 50
aux5(6) = 40: aux5(7) = 30: aux5(8) = 20: aux5(9) = 10: aux5(10) = 0
aux6(0) = 5: aux6(1) = 4.5: aux6(2) = 4: aux6(3) = 3.5: aux6(4) = 3: aux6(5) = 2.5
aux6(6) = 2: aux6(7) = 1.5: aux6(8) = 1: aux6(9) = 0.5: aux6(10) = 0

If ISIMULS(1) <> 0 Then
    ReDim sims(1 To ISIMULS(1))
    For il = ISIMULS(1) To 1 Step -1
        sims(ISIMULS(1) - il + 1) = CIRPF(il)
    Next il
End If

PAGINA = -1
TORNA:
PAGINA = PAGINA + 1
ERR_LEC = True

Do While ERR_LEC

```

```

With IRPF
    .MultiPage1.Value = PAGINA
    If .MultiPage1.Value = 0 Then .Caption = "SIMCAT-IRPF: Míנים Personals i Familiars i Reduccions"
    If .MultiPage1.Value = 1 Then .Caption = "SIMCAT-IRPF: Tarifa"
    If .MultiPage1.Value = 2 Then .Caption = "SIMCAT-IRPF: Deduccions Generals"
    If .MultiPage1.Value = 3 Then .Caption = "SIMCAT-IRPF: Deduccions Autònòmiques"
    .Caption = .Caption & " (Base de dades: " & ANOIRPF & ")"
    If ISIMULS(1) <> 0 Then
        .ListBox_SimulRef.List = sims
        .SimulRef.Visible = True
    End If
    .ListBox_Deflactor.List = aux1
    .ListBox21.List = tram1
    .ListBox22.List = tram1
    .ListBox23.List = tram2
    .ListBox_Proj.List = A_PROJ      'això es genera a la subrutina IRPF_10PROJECCIO_PES()
    .ListBox4121.List = aux3
    .ListBox4122.List = aux4
    .ListBox4131.List = aux3
    .ListBox4132.List = aux4
    .ListBox4141.List = aux3
    .ListBox4151.List = aux5
    .ListBox4171.List = aux6
    .ListBox4181.List = aux3
    .ListBox4182.List = aux4
    .ListBox4191.List = aux3
    .ListBox41101.List = aux3
    .ListBox051.List = aux1
    .ListBox052.List = aux1
    .ListBox053.List = aux1
    .ListBox054.List = aux1
    .ListBox055.List = aux1
    .Llei.Value = True
    .Show
End With
If SORTIR Then Exit Sub
Loop
If PAGINA < 3 Then GoTo TORNA
If PAGINA = 3 Then Exit Sub

End Sub
Private Sub IRPF_10PROJECCIO_PES(opcio As Integer)

Dim d_proj As Integer, i As Integer, j As Integer, j0 As Integer, j1 As Integer, nom As String

nom = ThisWorkbook.Path & "\DADES\Projeccions.xlsx"

Application.ScreenUpdating = False

Set LLIBRE_PROJECCIONS = Workbooks.Open(nom)

Workbooks(Workbooks.Count).Activate
Sheets("ValorsAEAT").Activate

If opcio = 1 Then

    d_proj = 0      'Quants anys apareixen en les possibilitats de projecció
    For j = 2 To 10
        If Cells(1, j) > ANOIRPF And Cells(2, j) <> "" Then d_proj = d_proj + 1
    Next j

    ReDim A_PROJ(d_proj)
    For i = 0 To d_proj
        A_PROJ(d_proj - i) = ANOIRPF + i
    Next i

    GoTo ACABAT_PROJ

ElseIf opcio = 2 Then

    ReDim C_PROJ(1 To 10)
    For i = 1 To 10
        C_PROJ(i) = 1
    Next i

    If ANY_PROJ = ANOIRPF Then GoTo ACABAT_PROJ

    For j = 2 To 10
        If Cells(1, j) = ANOIRPF Then
            j0 = j
            Exit For
        End If
    Next j

```



```

For j1 = 1 To 2
  tte(1, j1) = TE(1, j1) * TIPUSE(1, j1)
  If NTRAMSE > 2 Then
    For it = 2 To NTRAMSE - 1
      tte(it, j1) = tte(it - 1, j1) + ((TE(it, j1) - TE(it - 1, j1)) * TIPUSE(it, j1))
    Next it
  End If
Next j1

'.....'
'Declaracions de variables del fitxer de lectura'
'.....'

Dim catsoc As Integer, cd As Integer, cminus As Integer, des As Integer, dminus As Integer, ec As Integer, ed As Integer, _
    especial As Integer, especial1 As Integer, estciv As Integer, estrat As Integer, na As Integer, na65 As Integer, _
    na75 As Integer, na33 As Integer, na331 As Integer, na65 As Integer, nd As Integer, nd3 As Integer, _
nd3_15 As Integer, _
    nd16_17 As Integer, nd18_24 As Integer, nd25 As Integer, nd33 As Integer, nd331 As Integer, nd65 As Integer, _
    obligado As Integer, prov As Integer, registre As Long, sex As Integer, uf As Integer, _
    p015, i018 As Integer, i019 As Integer, i020 As Integer, p024, p035, _
    p047, p050, p075, p080, p085, p140, p170, _
    p197, p220, p221, p222, p223, p245, p255, _
    p265, p275, p450, p451, p453, p454, p457, _
    p458, p461, p500, p505, p530, p560, p585, _
    p600, p617, p619, p623, p686687, p688, _
    b_viv1, b_viv2, _
    p702, p704, p706, p708, p710, p712, p714, p716, p773, p733, _
    p703, p705, p707, p709, p711, p713, p715, p772, p876, p877, p878, p879, p880, p881, p882, p883, p566, p567, _
    p722725, p726729, p734737, p735, p738739, p740, p756, _
    pes, qfinal As Double

'.....'
'Declaracions de variables pel càlcul de la simulació'
'.....'

Dim auxp1 As Integer, auxp2, auxr As Integer, auxv, be, daut, redrt, _
    p017, p018, p019, p020, p021, p452, p460, _
    p465, p615, p621, p630, p680c, p680e, p693, p694, _
    p695, p696, p697, p771 As Double

'.....'
'Lectura definitiva de dades'
'.....'

Open NOM_IRPF_DADES & ANOIRPF & ".dat" For Input As #1
Input #1, N1, N2 'N1=Obligats N2=No Obligats

'.....'
'Declaracions de variables després de conèixer N'
'.....'

N = N1 + IIf(DECL_NOMBRE = "TOTS", N2, 0)

Dim spes2, vgp, i_pag As Integer
ReDim bg(1 To 3), CATEG(1 To N) As Integer, IND(1 To N, 3), MITJANA(1 To 23), PAG(1 To 3), _
    q(1 To 3, 1 To 2), qe(1 To 2), SUMA(1 To 22), vpag(1 To 4), vx(1 To 22, 1 To 6), _
    VT(1 To 286, 12), X(1 To N, 1 To 27)

NT = 0
spes2 = 0
j2 = 1
i1 = 0
For i1 = 1 To N1 + N2
  i_pag = 0
  Input #1, registre, obligado, prov, cd, uf, estciv, sex, ed, dminus, des, especial, especial1, catsoc, ec, cminus, _
    nd, nd3, nd3_15, nd16_17, nd18_24, nd25, nd331, nd33, nd65, _
    na, na65, na75, na331, na33, na65, estrat, _
    p015, i018, i019, i020, p024, p035, p047, p050, p075, p080, p085, p140, p170, p197, p220, p221, _
p222, _
    p223, p245, p255, p265, p275, p450, p451, p453, p454, p457, p458, p461, p500, p505, p530, p560, _
p585, p600, _
    p617, p619, p623, p686687, p688, b_viv1, b_viv2, p702, p704, p706, p708, p710, p712, p714, p716, _
p773, p733, _
    p703, p705, p707, p709, p711, p713, p715, p772, p876, p877, p878, p879, p880, p881, p882, p883, _
p566, p567, _
    p722725, p726729, p734737, p735, p738739, p740, p756, qfinal, pes

If DECL_NOMBRE <> "TOTS" And obligado = 0 Then GoTo SALTA_TOTS

```

```

il = il + 1

CATEG(il) = catsoc
IND(il, 0) = il      'index ordenació per riquesa del contribuent. tal com està ordenada la base de
dades

X(il, 23) = pes

For j1 = 1 To 10
  If estrat = j1 Then X(il, 23) = X(il, 23) * C_PROJ(j1) 'projecció dels declarants
Next j1

If (ANY_PROJ = ANOIRPF) And (PROJ(1) <> 1 Or PROJ(2) <> 1 Or PROJ(3) <> 1 Or PROJ(4) <> 1 Or PROJ(5) <> 1)
Then

'rendes empresarials --> p140,p170,p197,p223
'capital mobiliari --> p024,p035,p047,p050,p221
'resta rendes --> p015,p075,p080,p085,p220,p222,p245,p255,p265,p275,p686687,p688
'plusvàlues < 1 any --> p450,p451,p453,p454
'plusvàlues > 1 any --> p457,p458

Call IRPF_10PROJECCIO_RENDIMENTS(p140, p170, p197, p223, _
                                p024, p035, p047, p050, p221, _
                                p015, p075, p080, p085, p220, p222, p245, p255, p265, p275, p686687,
p688, _
                                p450, p451, p453, p454, _
                                p457, p458)

End If

If p024 = 0 And p221 <= 0 Then GoTo SALTA_DIVIDENDS 'Ajustament de la reducció per dividendes
If p024 > 0 Then p035 = p035 - p024
If p024 > 0 And p221 > 0 Then
  p024 = p024 + 1500 - RDIVE
  If p024 < 0 Then
    p221 = Application.max(0, p221 + p024)
    p024 = 0
  End If
Else
  If p221 = 0 Then
    p024 = Application.max(0, p024 + 1500 - RDIVE)
GoTo JA
  Else
    p221 = Application.max(0, p221 + 1500 - RDIVE)
  End If
End If
JA: If p024 > 0 Then p035 = p035 + p024      'Rdt net reduït Capital mobiliari BI estalvi
SALTA_DIVIDENDS:

p460 = Application.max(0, p035 + p221)

p465 = p457 - p458 + p460 - p461      'Base Imposable Estalvi=BIE

If (p047 + p080 + p075 + p140 + p170 + p197 + _
    p220 + p222 + p223 + p245 + p255 + p265 + _
    p275 + p450 + p465) < 6501 Then auxr = 0 Else auxr = 1

p465 = Application.max(0, p457 - p458 + p460 - p461) 'Base Imposable Estalvi=BIE

                                'Rdt net treball=p015
redrt = 0
p021 = p015

If RT(0, 0) <> 1 Or p021 <= 0 Then GoTo SALTA_RENDIMENTS_TREBALL:

If p015 <= RT(1, 2) Then
  p017 = RT(1, 3)
ElseIf p015 > RT(1, 2) And p015 <= RT(2, 2) Then
  p017 = RT(1, 3) - 0.35 * (p015 - RT(1, 2))
ElseIf p015 > RT(2, 2) Then
  p017 = RT(3, 3)
End If
If auxr = 0 Then p017 = Application.min(p017, p021) Else p017 = Application.min(p021, RT(3, 3))

If i018 = 1 Then p018 = Application.min(p017, p021 - p017) Else p018 = 0

If i019 = 1 Then p019 = Application.min(p017, p021 - p017 - p018) Else p019 = 0

p020 = 0
If i020 = 1 Then
  If cd = 1 Then
    If dminus = 33 Or cminus = 33 Then p020 = Application.min(RT(4, 1), p021 - p017 - p018 - p019)
    If dminus = 331 Or dminus = 65 Or cminus = 331 Or cminus = 65 Then _

```

```

        p020 = Application.min(RT(4, 2), p021 - p017 - p018 - p019)
    ElseIf cd = 2 Then
        If dminus = 33 Then p020 = Application.min(RT(4, 1), p021 - p017 - p018 - p019)
        If dminus = 331 Or dminus = 65 Then p020 = Application.min(RT(4, 2), p021 - p017 - p018 - p019)
    End If
End If

redrt = p017 + p018 + p019 + p020

SALTA_RENDIMENTS_TREBALL:

p021 = p021 - redrt                                'Rdt net reduït treball

p452 = p021 + p050 + p080 + p085 + p140 + _
      p170 + p197 + p220 + p222 + p223 + _
      p245 + p255 + p265 + p275                    'Saldo net de rendiments

'-----'
X(i1, 4) = Application.max(0, p450 - p451 + p452 - p453 - p454) 'Base Imposable General=BIG '
X(i1, 1) = X(i1, 4) + p465 + redrt + Application.max(0, p686687) 'Renda total contribuent=RTC'
X(i1, 2) = X(i1, 4) + p465                            'Base Imposable total=BIT '
'-----'

p615 = p585                                          'Red efec. BIG pensions compens. i anual. aliments
X(i1, 5) = X(i1, 4)                                  'BLG sotmesa a gravamen

If X(i1, 5) = 0 Then GoTo SALTA_BLG

If RTC(0) <> 1 Then GoTo SALTA_TRIBUTACIO_CONJUNTA

    If cd = 1 Then
        If uf = 1 Then X(i1, 7) = Application.min(RTC(1), X(i1, 5)) 'Red efec. BIG tributació conjunta
        If uf = 2 Then X(i1, 7) = Application.min(RTC(2), X(i1, 5)) 'Red efec. BIG tributació conjunta
        If uf = 3 Then X(i1, 7) = 0                                'Red efec. BIG tributació conjunta
        X(i1, 5) = X(i1, 5) - X(i1, 7)
    If X(i1, 5) = 0 Then GoTo SALTA_BLG
    End If

SALTA_TRIBUTACIO_CONJUNTA:

If RPP(0) <> 1 Then GoTo SALTA_PLANSPENSIONS

    If p500 > 0 Then
        'plans pensions contribuent
        If cd = 1 And estciv = 2 Then auxp1 = 2 Else auxp1 = 1
        auxp2 = Application.max(0, p015 + p140 + p170 + p197)
        If ed <= 50 Then
            p500 = Application.min(p500, RPP(1) * auxp1, 0.3 * auxp2, X(i1, 5))
        Else
            p500 = Application.min(p500, RPP(2) * auxp1, 0.5 * auxp2, X(i1, 5))
        End If
        X(i1, 6) = p500
        X(i1, 5) = X(i1, 5) - p500
    If X(i1, 5) = 0 Then GoTo SALTA_BLG
    End If

    If p505 > 0 Then
        'plans pensions cònjuge
        p505 = Application.min(p505, RPP(3), X(i1, 5))
        X(i1, 6) = X(i1, 6) + p505
        X(i1, 5) = X(i1, 5) - p505
    If X(i1, 5) = 0 Then GoTo SALTA_BLG
    End If

    If p530 > 0 Then
        'plans pensions discapacitats
        p530 = Application.min(p530, RPP(4), X(i1, 5))
        X(i1, 6) = X(i1, 6) + p530
        X(i1, 5) = X(i1, 5) - p530
    If X(i1, 5) = 0 Then GoTo SALTA_BLG
    End If

    If p560 > 0 Then
        'patrimonis protegits discapacitats
        p560 = Application.min(p560, RPP(4), X(i1, 5))
        X(i1, 6) = X(i1, 6) + p560
        X(i1, 5) = X(i1, 5) - p560
    If X(i1, 5) = 0 Then GoTo SALTA_BLG
    End If

    If p600 > 0 Then
        'plans pensions esportistes professionals
        p600 = Application.min(p600, RPP(4), X(i1, 5))
        X(i1, 6) = X(i1, 6) + p600
        X(i1, 5) = X(i1, 5) - p600
    If X(i1, 5) = 0 Then GoTo SALTA_BLG
    End If

```

SALTA_PLANSPENSIONS:

```

If p585 > 0 Then                                'pensions compens. i anual. aliments
  p615 = Application.min(p585, X(i1, 5))
  X(i1, 5) = X(i1, 5) - p615
If X(i1, 5) = 0 Then GoTo SALTA_BLG
End If

If p617 > 0 Then                                'quotes d'afiliació
  p617 = Application.min(p617, X(i1, 5))
  X(i1, 5) = X(i1, 5) - p617
If X(i1, 5) = 0 Then GoTo SALTA_BLG
End If

X(i1, 5) = X(i1, 5) - Application.min(X(i1, 5), p619)

```

SALTA_BLG:

```

p621 = 0                                        'Red efec. BIE tributació conjunta
p630 = p465                                    'BL estalvi

If p630 = 0 Then GoTo SALTA_BLE

If RTC(0) <> 1 Then GoTo SALTA_TRIBUTACIO_CONJUNTA2

If cd = 1 Then
  If uf = 1 Then p621 = Application.min(RTC(1) - X(i1, 7), p630) 'Red efec. BIE tributació conjunta
  If uf = 2 Then p621 = Application.min(RTC(2) - X(i1, 7), p630) 'Red efec. BIE tributació conjunta
  If uf = 3 Then p621 = 0
  X(i1, 7) = X(i1, 7) + p621
  p630 = p630 - p621
If p630 = 0 Then GoTo SALTA_BLE
End If

```

SALTA_TRIBUTACIO_CONJUNTA2:

```

If p585 - p615 > 0 Then p630 = p630 - Application.min(p585 - p615, p630) 'Red efec. BIE pensions compens. i
anual. aliments
If p630 = 0 Then GoTo SALTA_BLE

If p623 > 0 Then p630 = p630 - Application.min(p623, p630)          'Red efec. BIE quotes d'afiliació

```

SALTA_BLE:

```

ReDim p680(1 To 2) As Double                    'mpf BLG (1)=ESTAT, (2)=CCAA
ReDim p681(1 To 2) As Double                    'mpf BLE (1)=ESTAT, (2)=CCAA

```

If MPF(0, 0) <> 1 Then GoTo SALTA_MPF

```

For k1 = 1 To 2
  p680(k1) = MPF(1, k1)
  If ed > 65 Then p680(k1) = p680(k1) + MPF(6, k1)
  If ed > 75 Then p680(k1) = p680(k1) + MPF(7, k1)
  If dminus = 33 Or dminus = 331 Then p680(k1) = p680(k1) + MPF(8, k1)
  If dminus = 65 Then p680(k1) = p680(k1) + MPF(9, k1)
  If dminus = 331 Or dminus = 65 Then p680(k1) = p680(k1) + MPF(11, k1)

  If cd = 1 Then
    If ec > 65 Then p680(k1) = p680(k1) + MPF(6, k1)
    If ec > 75 Then p680(k1) = p680(k1) + MPF(7, k1)
    If (cminus = 33 Or cminus = 331) Then p680(k1) = p680(k1) + MPF(8, k1)
    If cminus = 65 Then p680(k1) = p680(k1) + MPF(9, k1)
    If (cminus = 331 Or cminus = 65) Then p680(k1) = p680(k1) + MPF(11, k1)
  End If

  If nd <> 0 Then
    If nd >= 1 Then p680(k1) = p680(k1) + (MPF(2, k1) / cd)
    If nd >= 2 Then p680(k1) = p680(k1) + (MPF(3, k1) / cd)
    If nd >= 3 Then p680(k1) = p680(k1) + (MPF(4, k1) / cd)
    If nd >= 4 Then p680(k1) = p680(k1) + ((nd - 3) * MPF(5, k1) / cd)
    If nd3 <> 0 Then p680(k1) = p680(k1) + (nd3 * MPF(10, k1) / cd)
    If nd_33 <> 0 Or nd_331 <> 0 Then p680(k1) = p680(k1) + ((nd_33 + nd_331) * MPF(8, k1) / cd)
    If nd_65 <> 0 Then p680(k1) = p680(k1) + (nd_65 * MPF(9, k1) / cd)
    If nd_331 <> 0 Or nd_65 <> 0 Then p680(k1) = p680(k1) + ((nd_331 + nd_65) * MPF(11, k1) / cd)
  End If

  If na <> 0 Then
    If na65 <> 0 Then p680(k1) = p680(k1) + (na65 * MPF(6, k1))
    If na65 = 0 And (na_33 <> 0 Or na_331 <> 0 Or na_65 <> 0) Then p680(k1) = p680(k1) + ((na_33 + na_331
+ na_65) * MPF(6, k1))
    If na75 <> 0 Then p680(k1) = p680(k1) + (na75 * MPF(7, k1))
    If na_33 <> 0 Or na_331 <> 0 Then p680(k1) = p680(k1) + ((na_33 + na_331) * MPF(8, k1))
    If na_65 <> 0 Then p680(k1) = p680(k1) + (na_65 * MPF(9, k1))
  End If

```

```

      If na_331 <> 0 Or na_65 <> 0 Then p680(k1) = p680(k1) + ((na_331 + na_65) * MPF(11, k1))
    End If

    p681(k1) = Application.min(Application.max(0, p680(k1) - X(i1, 5)), p630) 'mpf romanent a la BE
    p680(k1) = Application.min(p680(k1), X(i1, 5)) 'mpf efectiu a la BG
  Next k1

SALTA_MPF:

  p693 = 0 'quota ESTAT BL general
  p694 = 0 'quota CCAA BL general
  q(1, 1) = 0: q(1, 2) = 0: q(2, 1) = 0: q(2, 2) = 0: q(3, 1) = 0: q(3, 2) = 0

If X(i1, 5) = 0 Then GoTo SALTA_QUOTA_GENERAL

  bg(1) = Application.max(0, X(i1, 5) - p688) '1a. quota BL general
  If MPF(0, 0) = 1 Then
    p680e = p680(1) + IIf(p688 <> 0, 1600, 0) '2a. quota mpf ESTAT
    p680c = p680(2) + IIf(p688 <> 0, 1600, 0) '2a. quota mpf Catalunya
  End If
  bg(3) = p688 '3a. quota anualitats aliments decisió
  judicial

  For k1 = 1 To IIf(p688 <> 0, 3, 2) '2 o 3 passades per tarifa en funció de
p688

    For l1 = 1 To 2 'l1=1 ESTAT, l1=2 CCAA
      If l1 = 1 Then bg(2) = p680e
      If l1 = 2 Then bg(2) = p680c
    End For

  If bg(k1) = 0 Then GoTo SALTA_BASEG0

  If NTRAMSG(l1) = 1 Then
    q(k1, l1) = bg(k1) * TIPUSG(1, l1)
  Else
    it = NTRAMSG(l1)
    If bg(k1) <= T(1, l1) Then q(k1, l1) = bg(k1) * TIPUSG(1, l1)
    If NTRAMSG(l1) > 2 Then
      For j1 = 2 To NTRAMSG(l1) - 1
        If bg(k1) > T(j1 - 1, l1) And bg(k1) <= T(j1, l1) Then _
          q(k1, l1) = tt(j1 - 1, l1) + ((bg(k1) - T(j1 - 1, l1)) * TIPUSG(j1, l1))
        Next j1
      End If
      If bg(k1) > T(it - 1, l1) Then q(k1, l1) = tt(it - 1, l1) + ((bg(k1) - T(it - 1, l1)) *
TIPUSG(it, l1))
    End If
  End If

SALTA_BASEG0:

  Next l1
Next k1

  p693 = q(1, 1) + q(3, 1)
  p694 = q(1, 2) + q(3, 2)
  If MPF(0, 0) = 1 Then
    q(2, 1) = Application.min(q(2, 1), p693)
    q(2, 2) = Application.min(q(2, 2), p694)
  Else
    q(2, 1) = 0
    q(2, 2) = 0
  End If
  X(i1, 8) = q(2, 1) 'quota deduïda pel MPF ESTAT
  X(i1, 9) = q(2, 2) 'quota deduïda pel MPF Catalunya
  p693 = p693 - q(2, 1) 'quota ESTAT BL general
  p694 = p694 - q(2, 2) 'quota CCAA BL general

SALTA_QUOTA_GENERAL:

  p695 = p630 - p681(1) 'BL estalvi sotmesa a gravamen ESTAT
  p695 = p695 - Application.min(p695, MINIM_EXEMPT)
  p771 = p630 - p681(2) 'BL estalvi sotmesa a gravamen CCAA
  p771 = p771 - Application.min(p771, MINIM_EXEMPT)

'-----
  If p695 >= p771 Then X(i1, 3) = X(i1, 5) + p695 'Base Liquidable Total=BLT '
  If p695 < p771 Then X(i1, 3) = X(i1, 5) + p771 'Base Liquidable Total=BLT '
'-----

  p696 = 0 'quota ESTAT base estalvi
  p697 = 0 'quota CCAA base estalvi

If p695 = 0 And p771 = 0 Then GoTo SALTA_QUOTA_ESTALVI

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qe(1) = 0: qe(2) = 0
For k1 = 1 To 2
  If k1 = 1 Then be = p695
  If k1 = 2 Then be = p771

If be = 0 Then GoTo SALTA_BASEE0

  If NTRAMSE = 1 Then
    qe(k1) = be * TIPUSE(1, k1)
  Else
    it = NTRAMSE
    If be <= TE(1, k1) Then qe(k1) = be * TIPUSE(1, k1)
    If NTRAMSE > 2 Then
      For j1 = 2 To NTRAMSE - 1
        If be > TE(j1 - 1, k1) And be <= TE(j1, k1) Then _
          qe(k1) = tte(j1 - 1, k1) + ((be - TE(j1 - 1, k1)) * TIPUSE(j1, k1))
        Next j1
      End If
      If be > TE(it - 1, k1) Then qe(k1) = tte(it - 1, k1) + ((be - TE(it - 1, k1)) * TIPUSE(it, k1))
    End If
  End If

SALTA_BASEE0:

  Next k1
  p696 = qe(1)          'quota ESTAT base estalvi
  p697 = qe(2)          'quota CCAA base estalvi

SALTA_QUOTA_ESTALVI:

  X(i1, 10) = p693 + p696          'quota íntegra ESTAT
  X(i1, 11) = p694 + p697          'quota íntegra CCAA
  X(i1, 12) = X(i1, 10) + X(i1, 11) 'quota íntegra total
  daut = 0                        'deduccions autonòmiques afegides

If obligado = 0 Then GoTo NO_OBLIGATS
If X(i1, 10) = 0 Then GoTo NO_PAGADORS

If DED(0) <> 1 Then GoTo DEDUCCIONS_ESTAT

If DED(1) <> 1 Or (b_viv1 = 0 And b_viv2 = 0) Then GoTo DEDUCCIONS702703

  b_viv1 = Application.min(DEDV(1, 1), b_viv1)
  b_viv2 = Application.min(DEDV(2, 1), b_viv2)
  X(i1, 13) = b_viv1 * DEDV(1, 2) + b_viv2 * DEDV(2, 2)          'ESTAT
  X(i1, 15) = b_viv1 * DEDV(1, 3) + b_viv2 * DEDV(2, 3)          'CCAA, normal
  If especial = 1 Then X(i1, 15) = b_viv1 * DEDV(1, 4) + b_viv2 * DEDV(2, 3) 'CCAA, especial

  X(i1, 13) = Application.min(X(i1, 13), X(i1, 10))
  X(i1, 15) = Application.min(X(i1, 15), X(i1, 11))
  X(i1, 10) = X(i1, 10) - X(i1, 13)
  X(i1, 11) = X(i1, 11) - X(i1, 15)
If X(i1, 10) = 0 Then GoTo DEDUCCIONS_ESTAT

DEDUCCIONS702703:

If DED(2) <> 1 Or (p702 = 0 And p703 = 0) Then GoTo DEDUCCIONS704705

  p702 = Application.min(p702, X(i1, 10))          'Béns culturals ESTAT
  p703 = Application.min(p703, X(i1, 11))          'Béns culturals CCAA
  X(i1, 14) = p702
  X(i1, 16) = p703
  X(i1, 10) = X(i1, 10) - p702
  X(i1, 11) = X(i1, 11) - p703
If X(i1, 10) = 0 Then GoTo DEDUCCIONS_ESTAT

DEDUCCIONS704705:

If DED(3) <> 1 Or (p704 = 0 And p705 = 0) Then GoTo DEDUCCIONS706_711

  p704 = Application.min(p704, X(i1, 10))          'Donatius ESTAT
  p705 = Application.min(p705, X(i1, 11))          'Donatius CCAA
  X(i1, 14) = X(i1, 14) + p704
  X(i1, 16) = X(i1, 16) + p705
  X(i1, 10) = X(i1, 10) - p704
  X(i1, 11) = X(i1, 11) - p705
If X(i1, 10) = 0 Then GoTo DEDUCCIONS_ESTAT

DEDUCCIONS706_711:

If DED(4) <> 1 Or (p706 = 0 And p707 = 0 And p708 = 0 And p709 = 0 And p710 = 0 And p711 = 0) Then GoTo
DEDUCCIONS712713

If p706 = 0 And p707 = 0 Then GoTo DEDUCCIONS708709

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p706 = Application.min(p706, X(i1, 10))      'Activitats econòmiques, general ESTAT
p707 = Application.min(p707, X(i1, 11))      'Activitats econòmiques, general CCAA
X(i1, 14) = X(i1, 14) + p706
X(i1, 16) = X(i1, 16) + p707
X(i1, 10) = X(i1, 10) - p706
X(i1, 11) = X(i1, 11) - p707
If X(i1, 10) = 0 Then GoTo DEDUCCIONS_ESTAT

DEDUCCIONS708709:

If p708 = 0 And p709 = 0 Then GoTo DEDUCCIONS710711

p708 = Application.min(p708, X(i1, 10))      'Activitats econòmiques, RIC ESTAT
p709 = Application.min(p709, X(i1, 11))      'Activitats econòmiques, RIC CCAA
X(i1, 14) = X(i1, 14) + p708
X(i1, 16) = X(i1, 16) + p709
X(i1, 10) = X(i1, 10) - p708
X(i1, 11) = X(i1, 11) - p709
If X(i1, 10) = 0 Then GoTo DEDUCCIONS_ESTAT

DEDUCCIONS710711:

If p710 = 0 And p711 = 0 Then GoTo DEDUCCIONS712713

p710 = Application.min(p710, X(i1, 10))      'Activitats econòmiques, Canàries ESTAT
p711 = Application.min(p711, X(i1, 11))      'Activitats econòmiques, Canàries CCAA
X(i1, 14) = X(i1, 14) + p710
X(i1, 16) = X(i1, 16) + p711
X(i1, 10) = X(i1, 10) - p710
X(i1, 11) = X(i1, 11) - p711
If X(i1, 10) = 0 Then GoTo DEDUCCIONS_ESTAT

DEDUCCIONS712713:

If DED(5) <> 1 Or (p712 = 0 And p713 = 0) Then GoTo DEDUCCIONS714715

p712 = Application.min(p712, X(i1, 10))      'Ceuta-Melilla ESTAT
p713 = Application.min(p713, X(i1, 11))      'Ceuta-Melilla CCAA
X(i1, 14) = X(i1, 14) + p712
X(i1, 16) = X(i1, 16) + p713
X(i1, 10) = X(i1, 10) - p712
X(i1, 11) = X(i1, 11) - p713
If X(i1, 10) = 0 Then GoTo DEDUCCIONS_ESTAT

DEDUCCIONS714715:

If DED(6) <> 1 Or (p714 = 0 And p715 = 0) Then GoTo DEDUCCIONS716772

p714 = Application.min(p714, X(i1, 10))      'Comptes empresa ESTAT
p715 = Application.min(p715, X(i1, 11))      'Comptes empresa CCAA
X(i1, 14) = X(i1, 14) + p714
X(i1, 16) = X(i1, 16) + p715
X(i1, 10) = X(i1, 10) - p714
X(i1, 11) = X(i1, 11) - p715
If X(i1, 10) = 0 Then GoTo DEDUCCIONS_ESTAT

DEDUCCIONS716772:

If DED(1) <> 1 Or (p716 = 0 And p772 = 0) Then GoTo DEDUCCIONS773

If X(i1, 2) <= DEDV(3, 1) Then
  If X(i1, 2) <= DEDV(3, 2) Then
    p716 = DEDV(3, 3) * Application.min(DEDV(3, 4), p716 / 0.1005)
    p772 = DEDV(3, 3) * Application.min(DEDV(3, 4), p772 / 0.1005)
  Else
    p716 = DEDV(3, 3) * Application.min(DEDV(3, 4) - 1.4125 * (X(i1, 2) - DEDV(3, 2)), p716 / 0.1005)
    p772 = DEDV(3, 3) * Application.min(DEDV(3, 4) - 1.4125 * (X(i1, 2) - DEDV(3, 2)), p772 / 0.1005)
  End If
  p716 = Application.min(p716, X(i1, 10))      'Lloguer habitatge ESTAT
  p772 = Application.min(p772, X(i1, 11))      'Lloguer habitatge CCAA
  X(i1, 13) = X(i1, 13) + p716
  X(i1, 15) = X(i1, 15) + p772
  X(i1, 10) = X(i1, 10) - p716
  X(i1, 11) = X(i1, 11) - p772
End If
If X(i1, 10) = 0 Then GoTo DEDUCCIONS_ESTAT

DEDUCCIONS773:

If DED(1) <> 1 Or (p773 = 0 And p733 = 0) Then GoTo DEDUCCIONS_ESTAT

p773 = Application.min(p773, X(i1, 10))      'Obres millora habitatge ESTAT(1)

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X(i1, 13) = X(i1, 13) + p773
X(i1, 10) = X(i1, 10) - p773

If X(i1, 2) <= DEDV(4, 1) Then
  If X(i1, 2) <= DEDV(4, 2) Then
    p733 = DEDV(4, 3) * Application.min(DEDV(4, 4), p733 / 0.2)
  Else
    p733 = DEDV(4, 3) * Application.min(DEDV(4, 4) - 0.375 * (X(i1, 2) - DEDV(4, 2)), p733 / 0.2)
  End If
  End If
  p733 = Application.min(p733, X(i1, 10))      'Obres millora habitatge ESTAT(2)
  X(i1, 13) = X(i1, 13) + p733
  X(i1, 10) = X(i1, 10) - p733
End If

```

DEDUCCIONS_ESTAT:

```

If DEDA1(0, 0) <> 1 Then GoTo DEDUCCIONS_CCAA1
If p876 = 0 And p877 = 0 And p878 = 0 And p879 = 0 And p880 = 0 And _
  p881 = 0 And p882 = 0 And p883 = 0 And p566 = 0 And p567 = 0 Then GoTo DEDUCCIONS_CCAA1

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If p876 = 0 Then GoTo DEDUCCIO877      'Naixement o adopció

  If cd = 1 Then p876 = Application.min(DEDA1(1, 1) * 2 * p876 / 300, X(i1, 11))
  If cd = 2 Then p876 = Application.min(DEDA1(1, 1) * p876 / 150, X(i1, 11))
  X(i1, 17) = p876
  X(i1, 11) = X(i1, 11) - p876
If X(i1, 11) = 0 Then GoTo DEDUCCIONS_CCAA1

```

DEDUCCIO877:

```

If p877 = 0 Then GoTo DEDUCCIO878      'Donatius entitats llengua catalana

  p877 = Application.min(DEDA1(2, 1) * p877 / 0.15, DEDA1(2, 2) * (p694 + p697), X(i1, 11))
  X(i1, 17) = X(i1, 17) + p877
  X(i1, 11) = X(i1, 11) - p877
If X(i1, 11) = 0 Then GoTo DEDUCCIONS_CCAA1

```

DEDUCCIO878:

```

If p878 = 0 Then GoTo DEDUCCIO879      'Donatius entitats innovació científica

  p878 = Application.min(DEDA1(3, 1) * p878 / 0.25, DEDA1(3, 2) * (p694 + p697), X(i1, 11))
  X(i1, 17) = X(i1, 17) + p878
  X(i1, 11) = X(i1, 11) - p878
If X(i1, 11) = 0 Then GoTo DEDUCCIONS_CCAA1

```

DEDUCCIO879:

```

If p879 = 0 Then GoTo DEDUCCIO880      'Lloguer vivenda habitual

  If nd < 3 Then p879 = Application.min(DEDA1(4, 1) * p879 / 0.1, DEDA1(4, 2), X(i1, 11))
  If nd >= 3 Or cd = 1 Then p879 = Application.min(DEDA1(4, 1) * p879 / 0.1, DEDA1(4, 2) * 2, X(i1, 11))
  X(i1, 17) = X(i1, 17) + p879
  X(i1, 11) = X(i1, 11) - p879
If X(i1, 11) = 0 Then GoTo DEDUCCIONS_CCAA1

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DEDUCCIO880:

```

If p880 = 0 Then GoTo DEDUCCIO881      'Interessos de préstecs estudis 3er. cicle

  p880 = Application.min(DEDA1(5, 1) * p880, X(i1, 11))
  X(i1, 17) = X(i1, 17) + p880
  X(i1, 11) = X(i1, 11) - p880
If X(i1, 11) = 0 Then GoTo DEDUCCIONS_CCAA1

```

DEDUCCIO881:

```

If p881 = 0 Then GoTo DEDUCCIO882      'Contribuents vidus o vídues

  If p881 > 150 Then p881 = Application.min(DEDA1(6, 1) * 2 * p881 / 300, X(i1, 11))
  If p881 <= 150 Then p881 = Application.min(DEDA1(6, 1) * p881 / 150, X(i1, 11))
  X(i1, 17) = X(i1, 17) + p881
  X(i1, 11) = X(i1, 11) - p881
If X(i1, 11) = 0 Then GoTo DEDUCCIONS_CCAA1

```

DEDUCCIO882:

```

If p882 = 0 Then GoTo DEDUCCIO883      'Rehabilitació vivenda habitual

  p882 = Application.min(DEDA1(7, 1) * p882 / 0.015, DEDA1(7, 2), X(i1, 11))
  X(i1, 17) = X(i1, 17) + p882
  X(i1, 11) = X(i1, 11) - p882
If X(i1, 11) = 0 Then GoTo DEDUCCIONS_CCAA1

```

```

DEDUCCIO883:
If p883 = 0 Then GoTo DEDUCCIO566                                'Donacions en benefici del medi ambient
    p883 = Application.min(DEDAl(8, 1) * p883 / 0.15, DEDAl(8, 2) * (p694 + p697), X(i1, 11))
    X(i1, 17) = X(i1, 17) + p883
    X(i1, 11) = X(i1, 11) - p883
If X(i1, 11) = 0 Then GoTo DEDUCCIONS_CCAA1

DEDUCCIO566:
If p566 = 0 Then GoTo DEDUCCIO567                                'Inversió en empreses noves o de creació recent
    p566 = Application.min(DEDAl(9, 1) * p566 / 0.3, DEDAl(9, 2), X(i1, 11))
    X(i1, 17) = X(i1, 17) + p566
    X(i1, 11) = X(i1, 11) - p566
If X(i1, 11) = 0 Then GoTo DEDUCCIONS_CCAA1

DEDUCCIO567:
If p567 = 0 Then GoTo DEDUCCIONS_CCAA1                        'Inversió en empreses del mercat alternatiu borsari
    p567 = Application.min(DEDAl(10, 1) * p567 / 0.2, DEDAl(10, 2), X(i1, 11))
    X(i1, 17) = X(i1, 17) + p567
    X(i1, 11) = X(i1, 11) - p567

DEDUCCIONS_CCAA1:
If DEDA2(0) <> 1 Then GoTo DEDUCCIONS_CCAA2                    'deduccions autonòmiques afegides

    If ed > 65 Then daut = daut + DEDA2(1)
    If ed > 75 Then daut = daut + DEDA2(2)
    If dminus <> 0 Then daut = daut + DEDA2(3)

    If cd = 1 Then
        If ec > 65 Then daut = daut + DEDA2(1)
        If ec > 75 Then daut = daut + DEDA2(2)
        If cminus <> 0 Then daut = daut + DEDA2(3)
    End If

    If nd <> 0 Then
        daut = daut + ((nd_33 + nd_65) * DEDA2(3) / cd)
        If nd > 2 Then daut = daut + ((nd - 2) * DEDA2(4) / cd)
        If nd3 <> 0 Then daut = daut + (nd3 * DEDA2(5) / cd)
        If nd - nd3 <> 0 Then daut = daut + ((nd - nd3) * DEDA2(6) / cd)
        If nd > 2 Then daut = daut + (DEDA2(7) / cd)
    End If

    If na <> 0 Then
        daut = daut + (na * DEDA2(1))
        daut = daut + (na75 * DEDA2(2))
        daut = daut + ((na_33 + na_65) * DEDA2(3))
    End If

    daut = Application.min(daut, X(i1, 11))
    X(i1, 17) = X(i1, 17) + daut
    X(i1, 11) = X(i1, 11) - daut

DEDUCCIONS_CCAA2:
    X(i1, 18) = X(i1, 10) + p722725                                'increment per deduccions de les que s'ha perdut el dret
ESTAT
    X(i1, 19) = X(i1, 11) + p726729                                'increment per deduccions de les que s'ha perdut el dret
CCAA

    If DEDA2(0) = 1 Then
        If X(i1, 5) + p695 <= DEDA2(8) Then
            X(i1, 17) = X(i1, 17) + X(i1, 11)                    'deducció autonòmica a la quota
            X(i1, 11) = 0                                          'Afegeix a les deduccions autonòmiques X(i1,11)
            X(i1, 19) = 0                                          'X(i1,11)=0 quota íntegr autonòmica=0
            X(i1, 19) = 0                                          'X(i1,19)=0 quota líquida incrementada autonòmica=0
        End If
    End If

    X(i1, 22) = X(i1, 18) + X(i1, 19)                                'quota resultant autoliquidació

If X(i1, 22) = 0 Then GoTo NO_OBLIGATS

If p734737 = 0 Then GoTo DEDUCCIO735

    p734737 = Application.min(p734737, X(i1, 22))                'Deduccions doble imposició
    X(i1, 20) = p734737
    X(i1, 22) = X(i1, 22) - p734737

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If X(i1, 22) = 0 Then GoTo NO_OBLIGATS

DEDUCCIO735:

If p735 = 0 Then GoTo COMPENSACIONS

p735 = Application.min(p735, X(i1, 22)) 'Deduccions 400€

X(i1, 20) = X(i1, 20) + p735

X(i1, 22) = X(i1, 22) - p735

If X(i1, 22) = 0 Then GoTo NO_OBLIGATS

COMPENSACIONS:

If p738739 = 0 Then GoTo RETENCIONS

p738739 = Application.min(p738739, X(i1, 22)) 'Compensacions fiscals

X(i1, 20) = X(i1, 20) + p738739

X(i1, 22) = X(i1, 22) - p738739

If X(i1, 22) = 0 Then GoTo NO_OBLIGATS

RETENCIONS:

If p740 = 0 Then GoTo NO_OBLIGATS:

p740 = Application.min(p740, X(i1, 22)) 'Retencions bonificades

X(i1, 20) = X(i1, 20) + p740

X(i1, 22) = X(i1, 22) - p740

NO_OBLIGATS:

X(i1, 10) = p693 + p696

'Recupera la quota íntegra ESTAT

X(i1, 11) = p694 + p697

'Recupera la quota íntegra CCAA

If obligado = 0 Then

X(i1, 18) = X(i1, 10)

X(i1, 19) = X(i1, 11)

X(i1, 22) = X(i1, 18) + X(i1, 19)

End If

NO_PAGADORS:

X(i1, 21) = p756

'Maternitat

.....

'Càlcul pagadors'

.....

If X(i1, 22) > 0 Then i_pag = 1

.....

'Càlcul de guanyadors-perdedors'

.....

If ANOIRPF = IRPF_ANYREF And ANY_PROJ = ANOIRPF Then

vgp = qfinal - X(i1, 22)

If Abs(vgp) > 1 Then

If vgp > 0 Then

X(i1, 24) = 1

X(i1, 26) = 0

Else

X(i1, 24) = 0

X(i1, 26) = 1

End If

X(i1, 25) = vgp * X(i1, 24)

X(i1, 27) = vgp * X(i1, 26)

End If

End If

.....

...

'Això és per fer comprovacions

,

.....

...

'If Abs(vgp) > 1 Then

'Write #100, registre, obligado, prov, cd, uf, estciv, sex, ed, dminus, des, especial, especial1, catsoc, ec, cminus, _

' nd, nd3, nd3_15, nd16_17, nd18_24, nd25, nd_331, nd_33, nd_65, _

' na, na65, na75, na_331, na_33, na_65, estrat, _

' p015, i018, i019, i020, p024, p035, p047, p050, p075, p080, p085, p140, _

' p170, p197, p220, p221, p222, p223, p245, p255, p265, p275, p450, p451, p453, _

' p454, p457, p458, p461, p500, p505, p530, p560, p585, p600, p617, p619, p623, _

' p686687, p688, _

```

'          b_viv1, b_viv2, _
'          p702, p704, p706, p708, p710, p712, p714, p716, p773, p733, _
'          p703, p705, p707, p709, p711, p713, p715, p772, p876, p877, p878, p879, p880, p881, p882, p883,
p566, p567, _
'          p722725, p726729, p734737, p735, p738739, p740, p756, qfinal, pes, X(i1, 10), X(i1, 11), X(i1, 22)
'End If
.....
''
''
''
'Això és per a la Memòria Tributària
'
.....
''
'auxred = X(i1, 6) + X(i1, 7)
'auxmpf = p680(1) + p680(2) + p681(1)
'Write #100, X(i1, 1), X(i1, 2), X(i1, 4), p465, X(i1, 3), auxred, auxmpf, X(i1, 22), X(i1, 23)
.....
''
'X(i1, 18) = p735
.....
''
''
'X(i1, 4) = p465
'X(i1, 5) = p695
.....
''

.....
'Determina les variables per al càlcul descriptiu
.....

For j1 = 1 To 22
  If X(i1, j1) <> 0 Then
    vx(j1, 1) = vx(j1, 1) + (X(i1, j1) * X(i1, 23))
    vx(j1, 2) = vx(j1, 2) + (X(i1, j1) * X(i1, 23) * X(i1, 23))
    vx(j1, 3) = vx(j1, 3) + (X(i1, j1) * X(i1, j1) * X(i1, 23) * X(i1, 23))
    vx(j1, 4) = vx(j1, 4) + 1
    vx(j1, 5) = vx(j1, 5) + X(i1, 23)
    vx(j1, 6) = vx(j1, 6) + (X(i1, 23) * X(i1, 23))
  End If
Next j1

.....
'Determina les variables per al càlcul dels "no-pagadors"
.....

spes2 = spes2 + (X(i1, 23) * X(i1, 23))
vpag(1) = vpag(1) + (i_pag * X(i1, 23))
vpag(2) = vpag(2) + (i_pag * X(i1, 23) * X(i1, 23))
vpag(3) = vpag(3) + (i_pag * X(i1, 23) * X(i1, 23))

NT = NT + X(i1, 23)

SALTA_TOTS:
Next i1
Close #1

.....
'Això és per fer comprovacions'
.....
'Close #100
'

.....

For j1 = 1 To 22
  SUMA(j1) = vx(j1, 1)
  MITJANA(j1) = SUMA(j1) / NT
Next j1
MITJANA(23) = NT / N

.....
'Guarda(Descriptiu) a VT'
.....

VT(1, 0) = "Descriptiu"
For j1 = 1 To 22
  If vx(j1, 4) <> 0 Then
    VT(j1, 1) = vx(j1, 1) / vx(j1, 5)
    VT(j1, 2) = Sqr(vx(j1, 3) - (2 * VT(j1, 1) * vx(j1, 2)) + ((VT(j1, 1) ^ 2) * vx(j1, 6))) / vx(j1, 5)
    VT(j1, 3) = VT(j1, 1) - 1.96 * VT(j1, 2)
  End If
Next j1

```

```

VT(j1, 4) = VT(j1, 1) + 1.96 * VT(j1, 2)
VT(j1, 5) = vx(j1, 1) / 1000000
VT(j1, 6) = Sqr(vx(j1, 3) - ((vx(j1, 1) ^ 2) / vx(j1, 4))) / 1000000
VT(j1, 7) = VT(j1, 5) - 1.96 * VT(j1, 6)
VT(j1, 8) = VT(j1, 5) + 1.96 * VT(j1, 6)
End If
Next j1

PAG(1) = vpag(1) / NT
vpag(4) = (Sqr(vpag(3) - (2 * PAG(1) * vpag(2)) + ((PAG(1) ^ 2) * spes2)) / NT)
PAG(2) = PAG(1) - 1.95996 * vpag(4)
PAG(3) = PAG(1) + 1.95996 * vpag(4)

Call COMUNS_2ORDENA("IRPF")

Call IRPF_22DECILS_INDEXS_GP(23)

Call IRPF_26DECILS_CLASE(1)

End Sub
Private Sub IRPF_22DECILS_INDEXS_GP(pes As Integer)

Dim aux, il As Long, it As Integer, j1 As Integer

ReDim xx_b(1 To N, 1 To 3), xx_p(1 To N) As Double

.....
'Calcula: xx_b(1 to N, 1 to 3)=(RTC,BIT,BLT*factor) acumulades / s(variables*factor)
'Calcula: xx_p(1 to N) =població acumulada/NT
.....

For it = 1 To 3
  aux = 0
  For j1 = 1 To 3
    If SUMA(j1) <> 0 Then
      aux = 0
      For il = 1 To N
        aux = aux + (X(IND(il, it), j1) * X(IND(il, it), pes))
        xx_b(il, j1) = aux / SUMA(j1) 'RTC,BIT,BLT
      Next il
    End If
  Next j1
  aux = 0
  For il = 1 To N
    aux = aux + X(IND(il, it), pes)
    xx_p(il) = aux / NT 'pes
  Next il

  If it < 3 Then Call IRPF_23DECILS(it, pes, xx_b, xx_p) 'DECILS
  Call IRPF_24INDEXS(it, pes, xx_b, xx_p) 'INDEXS

Next it

If ANOIRPF = IRPF_ANYREF And ANY_PROJ = ANOIRPF Then Call IRPF_25GP(pes) 'G-P

End Sub
Private Sub IRPF_23DECILS(it, pes, xx_b, xx_p)

Dim aux, il As Long, i2 As Long, j1 As Integer, k1 As Integer, l1 As Long

ReDim ds(44, 12), p(1 To 12, 2), ts(18, 12), xx_r(1 To N, 1 To pes - 4) As Double

.....
'Calcula: xx_r(1 to N, 1 to pes-4)=(resta * factor) acumulades / s(variables * factor)
.....

aux = 0
For j1 = 1 To pes - 4
  If SUMA(j1 + 3) <> 0 Then
    aux = 0
    For il = 1 To N
      aux = aux + (X(IND(il, it), j1 + 3) * X(IND(il, it), pes))
      xx_r(il, j1) = aux / SUMA(j1 + 3) 'resta variables
    Next il
  End If
Next j1

For k1 = 1 To 12
  p(k1, 1) = IIf(k1 < 10, k1 / 10, IIf(k1 = 10, 0.95, IIf(k1 = 11, 0.98, 1)))
  p(k1, 2) = IIf(k1 < 10, 0.1, IIf(k1 = 10, 0.05, IIf(k1 = 11, 0.03, 0.02)))
Next k1

i2 = 1

```

```

For k1 = 1 To 11
  For i1 = i2 To N
    If xx_p(i1) >= p(k1, 1) Then
      p(k1, 0) = i1          'p(1 to 12, 0 = Observació on comença cada decil
      i2 = i1
      Exit For
    End If
  Next i1
Next k1
p(12, 0) = N

```

```

.....
'Càlcul DECILS (la dimensió parell decil acumulat)
.....
'VT(33 o 95,1 to 12)=Renda total contribuent          ( 1)=ds( 1, 1 to 12)'
'VT(35 o 97,1 to 12)=Base imposable total            ( 2)=ds( 3, 1 to 12)'
'VT(37 o 99,1 to 12)=Base liquidable total          ( 3)=ds( 5, 1 to 12)'
'VT(39 o 101,1 to 12)=Base imposable general        ( 4)=ds( 7, 1 to 12)'
'VT(41 o 103,1 to 12)=Base liquidable general       ( 5)=ds( 9, 1 to 12)'
'VT(43 o 105,1 to 12)=Reduccions plans pensions     ( 6)=ds(11, 1 to 12)'
'VT(45 o 107,1 to 12)=Reducció tributació conjunta ( 7)=ds(13, 1 to 12)'
'VT(47 o 109,1 to 12)=Minim personal i familiar     ( 8)=ds(15, 1 to 12)'
'VT(49 o 111,1 to 12)=Quota deduïda per MPF         ( 9)=ds(17, 1 to 12)'
'VT(51 o 113,1 to 12)=Quota íntegra estatal         (10)=ds(19, 1 to 12)'
'VT(53 o 115,1 to 12)=Quota íntegra autonòmica     (11)=ds(21, 1 to 12)'
'VT(55 o 117,1 to 12)=Quota íntegra total          (12)=ds(23, 1 to 12)'
'VT(57 o 119,1 to 12)=deducció habitatge habitual S/QIE (13)=ds(25, 1 to 12)'
'VT(59 o 121,1 to 12)=resta deduccions s/QIE       (14)=ds(27, 1 to 12)'
'VT(61 o 123,1 to 12)=deducció habitatge habitual S/QIA (15)=ds(29, 1 to 12)'
'VT(63 o 125,1 to 12)=resta deduccions s/QIA       (16)=ds(31, 1 to 12)'
'VT(65 o 127,1 to 12)=altres deduccions CCAA s/QIA (17)=ds(33, 1 to 12)'
'VT(67 o 129,1 to 12)=Quota líquida incrementada ESTAT (18)=ds(35, 1 to 12)'
'VT(69 o 131,1 to 12)=Quota líquida incrementada CATALUNYA (19)=ds(37, 1 to 12)'
'VT(71 o 133,1 to 12)=Deduccions doble imposició i compensacions (20)=ds(39, 1 to 12)'
'VT(73 o 135,1 to 12)=Deduccions maternitat i naixement (21)=ds(41, 1 to 12)'
'VT(75 o 137,1 to 12)=Quota resultant autoliquidació (22)=ds(43, 1 to 12)'
.....

```

```

For k1 = 1 To 12
  l1 = p(k1, 0)
  For j1 = 1 To 3
    ds(2 * j1, k1) = xx_b(l1, j1)          'RTC, BIT, BLT
    If k1 = 1 Then ds(2 * j1 - 1, k1) = ds(2 * j1, k1)
    If k1 > 1 Then ds(2 * j1 - 1, k1) = ds(2 * j1, k1) - ds(2 * j1, k1 - 1)
  Next j1
  For j1 = 4 To pes - 1
    ds(2 * j1, k1) = xx_r(l1, j1 - 3)     'resta
    If k1 = 1 Then ds(2 * j1 - 1, k1) = ds(2 * j1, k1)
    If k1 > 1 Then ds(2 * j1 - 1, k1) = ds(2 * j1, k1) - ds(2 * j1, k1 - 1)
  Next j1
Next k1

```

```

.....
'Càlcul tipus efectius
.....
'VT(77 o 139,1 to 12)= QIE s/ RTC (19/1)=ts( 1, 1 to 12)'
'VT(78 o 140,1 to 12)= QIA s/ RTC (21/1)=ts( 2, 1 to 12)'
'VT(79 o 141,1 to 12)= QIT s/ RTC (23/1)=ts( 3, 1 to 12)'
'VT(80 o 142,1 to 12)= QIE s/ BIT (19/3)=ts( 4, 1 to 12)'
'VT(81 o 143,1 to 12)= QIA s/ BIT (21/3)=ts( 5, 1 to 12)'
'VT(82 o 144,1 to 12)= QIT s/ BIT (23/3)=ts( 6, 1 to 12)'
'VT(83 o 145,1 to 12)= QIE s/ BLT (19/5)=ts( 7, 1 to 12)'
'VT(84 o 146,1 to 12)= QIA s/ BLT (21/5)=ts( 8, 1 to 12)'
'VT(85 o 147,1 to 12)= QIT s/ BLT (23/5)=ts( 9, 1 to 12)'
'VT(86 o 148,1 to 12)= QE s/ RTC (35/1)=ts(10, 1 to 12)'
'VT(87 o 149,1 to 12)= QA s/ RTC (37/1)=ts(11, 1 to 12)'
'VT(88 o 150,1 to 12)= QR s/ RTC (43/1)=ts(12, 1 to 12)'
'VT(89 o 151,1 to 12)= QE s/ BIT (35/3)=ts(13, 1 to 12)'
'VT(90 o 152,1 to 12)= QA s/ BIT (37/3)=ts(14, 1 to 12)'
'VT(91 o 153,1 to 12)= QR s/ BIT (43/3)=ts(15, 1 to 12)'
'VT(92 o 154,1 to 12)= QE s/ BLT (35/5)=ts(16, 1 to 12)'
'VT(93 o 155,1 to 12)= QA s/ BLT (37/5)=ts(17, 1 to 12)'
'VT(94 o 156,1 to 12)= QR s/ BLT (43/5)=ts(18, 1 to 12)'
.....
'ts( 1, 1 to 12) = (ds((19, 1 to 12) * SUMA(10)) / (ds((1, 1 to 12) * SUMA(1)))'
'ts(18, 1 to 12) = (ds((43, 1 to 12) * SUMA(22)) / (ds((5, 1 to 12) * SUMA(3)))'
.....

```

```

For k1 = 1 To 12
  If SUMA(1) <> 0 And ds(1, k1) <> 0 Then
    ts(1, k1) = (ds(19, k1) * SUMA(10)) / (ds(1, k1) * SUMA(1))
    ts(2, k1) = (ds(21, k1) * SUMA(11)) / (ds(1, k1) * SUMA(1))
  End If
Next k1

```

```

ts(3, k1) = (ds(23, k1) * SUMA(12)) / (ds(1, k1) * SUMA(1))
ts(10, k1) = (ds(35, k1) * SUMA(18)) / (ds(1, k1) * SUMA(1))
ts(11, k1) = (ds(37, k1) * SUMA(19)) / (ds(1, k1) * SUMA(1))
ts(12, k1) = (ds(43, k1) * SUMA(22)) / (ds(1, k1) * SUMA(1))
End If
If SUMA(2) <> 0 And ds(3, k1) <> 0 Then
ts(4, k1) = (ds(19, k1) * SUMA(10)) / (ds(3, k1) * SUMA(2))
ts(5, k1) = (ds(21, k1) * SUMA(11)) / (ds(3, k1) * SUMA(2))
ts(6, k1) = (ds(23, k1) * SUMA(12)) / (ds(3, k1) * SUMA(2))
ts(13, k1) = (ds(35, k1) * SUMA(18)) / (ds(3, k1) * SUMA(2))
ts(14, k1) = (ds(37, k1) * SUMA(19)) / (ds(3, k1) * SUMA(2))
ts(15, k1) = (ds(43, k1) * SUMA(22)) / (ds(3, k1) * SUMA(2))
End If
If SUMA(3) <> 0 And ds(5, k1) <> 0 Then
ts(7, k1) = (ds(19, k1) * SUMA(10)) / (ds(5, k1) * SUMA(3))
ts(8, k1) = (ds(21, k1) * SUMA(11)) / (ds(5, k1) * SUMA(3))
ts(9, k1) = (ds(23, k1) * SUMA(12)) / (ds(5, k1) * SUMA(3))
ts(16, k1) = (ds(35, k1) * SUMA(18)) / (ds(5, k1) * SUMA(3))
ts(17, k1) = (ds(37, k1) * SUMA(19)) / (ds(5, k1) * SUMA(3))
ts(18, k1) = (ds(43, k1) * SUMA(22)) / (ds(5, k1) * SUMA(3))
End If
Next k1

.....
'Guarda límits i mitjanes, decils i tipus a VT
.....

VT(IIf(it = 1, 23, 25), 0) = "Límits i mitjanes " & IIf(it = 1, "RTC", "BIT")
VT(IIf(it = 1, 33, 95), 0) = "Decils-" & IIf(it = 1, "RTC", "BIT")
VT(IIf(it = 1, 77, 139), 0) = "Tipus-" & IIf(it = 1, "RTC", "BIT")
For k1 = 1 To 12
VT(IIf(it = 1, 23, 25), k1) = (X(IND(p(k1, 0), it), it)) / 1000
VT(IIf(it = 1, 24, 26), k1) = (ds(IIf(it = 1, 1, 3), k1) * SUMA(it) / (NT * IIf(k1 < 10, 0.1, IIf(k1 = 10,
0.05, IIf(k1 = 11, 0.03, 0.02)))) / 1000
For j1 = 1 To 44
VT(IIf(it = 1, 32, 94) + j1, k1) = ds(j1, k1)
Next j1
For j1 = 1 To 18
VT(IIf(it = 1, 76, 138) + j1, k1) = ts(j1, k1)
Next j1
Next k1

End Sub
Private Sub IRPF_24INDEXS(it, pes, xx_b, xx_p)

.....
'INDEXS 55
.....
'Gini: g 3
.....
'Concentració: c 13
'Kakwani: k 13
'Suits: s 13
'Efecte Redistributiu: e 13
.....

Dim aconc, aefre, agini, asuit, daux(1 To 4), _
il As Long, j1 As Integer, k1 As Integer, ll As Integer, sxx_b As Double

Dim i(1 To 13) As Integer, g As Double
ReDim c(1 To 13), k(1 To 13), s(1 To 13), e(1 To 13) As Double

.....
'Identifica les variables per a les que calcula els índexs
.....

i(1) = 6
i(2) = 7
i(3) = 8
i(4) = 9
i(5) = 12
i(6) = 13
i(7) = 14
i(8) = 15
i(9) = 16
i(10) = 17
i(11) = 20
i(12) = 21
i(13) = 22

agini = 0
sxx_b = 0
If SUMA(it) <> 0 Then

```

```

For il = 1 To N
  daux(1) = X(IND(il, it), it) - MITJANA(it)
  daux(2) = xx_p(il) - MITJANA(pes)
  daux(3) = X(IND(il, it), pes)
  agini = agini + (daux(1) * daux(2) * daux(3))
  sxx_b = sxx_b + xx_b(il, it)
Next il

If agini <> 0 Then g = 2 / MITJANA(it) * (agini / NT)

End If

For j1 = 1 To 13

  aconc = 0
  aefre = 0
  asuit = 0
  If SUMA(i(j1)) <> 0 Then

    For il = 1 To N
      daux(1) = X(IND(il, it), i(j1)) - MITJANA(i(j1))
      daux(2) = xx_p(il) - MITJANA(pes)
      daux(3) = X(IND(il, it), pes)
      daux(4) = xx_b(il, it) - (sxx_b / N)
      aconc = aconc + (daux(1) * daux(2) * daux(3))
      asuit = asuit + (daux(1) * daux(4) * daux(3))
    Next il

    If aconc <> 0 Then c(j1) = 2 / MITJANA(i(j1)) * (aconc / NT)
    k(j1) = c(j1) - g
    s(j1) = (2 * (asuit / NT) / MITJANA(i(j1))) - g

    If SUMA(it) <> 0 Then aefre = SUMA(i(j1)) / SUMA(it)
    e(j1) = (aefre / (1 - aefre)) * k(j1)

  End If
Next j1

.....
'Guarda els resultats(Índexs) a VT'
.....

If it = 1 Then VT(157, 0) = "Índexs"
VT(156 + it, it) = g
For k1 = 1 To 4
  For j1 = 1 To 13
    l1 = (13 * (k1 - 1)) + j1 - 1
    If k1 = 1 Then VT(160 + l1, it) = c(j1)
    If k1 = 2 Then VT(160 + l1, it) = k(j1)
    If k1 = 3 Then VT(160 + l1, it) = s(j1)
    If k1 = 4 Then VT(160 + l1, it) = e(j1)
  Next j1
Next k1

End Sub
Private Sub IRPF_25GP(pes)

Dim aux, il As Long, i2 As Long, j1 As Integer, k1 As Integer

ReDim gp(1 To 6, 1 To 12), p(1 To 12, 2), xx_gp(1 To N, 1 To 4), _
      xx_p(1 To N), y(4, 12) As Double

.....
'Calcula: xx_gp(1 to N, pes + 1 to pes + 4) = (GP * factor) acumulades
.....

aux = 0
For j1 = pes + 1 To pes + 4
  aux = 0
  For il = 1 To N
    aux = aux + (X(IND(il, 0), j1) * X(IND(il, 0), pes))
    xx_gp(il, j1 - pes) = aux
  Next il
Next j1
aux = 0
For il = 1 To N
  aux = aux + X(IND(il, 0), pes)
  xx_p(il) = aux / NT
Next il

For k1 = 1 To 12
  p(k1, 1) = Iif(k1 < 10, k1 / 10, Iif(k1 = 10, 0.95, Iif(k1 = 11, 0.98, 1)))

```

```

    p(k1, 2) = Iif(k1 < 10, 0.1, Iif(k1 = 10, 0.05, Iif(k1 = 11, 0.03, 0.02)))
Next k1

i2 = 1
For k1 = 1 To 11
    For i1 = i2 To N
        If xx_p(i1) >= p(k1, 1) Then
            p(k1, 0) = i1          'p(1 to 12, 0 = Observació on comença cada decil
            i2 = i1
            Exit For
        End If
    Next i1
Next k1
p(12, 0) = N

For k1 = 1 To 12
    i1 = p(k1, 0)
    For j1 = 1 To 4
        y(j1, k1) = xx_gp(i1, j1)
        gp(IIf(j1 <= 2, j1, j1 + 1), k1) = y(j1, k1) - y(j1, k1 - 1)
    Next j1
Next k1

For k1 = 1 To 12
    For j1 = 3 To 6 Step 3
        If gp(j1 - 2, k1) <> 0 Then gp(j1, k1) = gp(j1 - 1, k1) / gp(j1 - 2, k1) Else gp(j1, k1) = 0
    Next j1
    For j1 = 1 To 5
        If j1 <> 3 Then gp(j1, k1) = gp(j1, k1) * Iif(j1 = 1 Or j1 = 4, 1 / (p(k1, 2) * NT), 0.001)
    Next j1
Next k1

For k1 = 1 To 12
    For j1 = 1 To 4 Step 3
        If gp(j1, k1) >= 0.995 Then gp(j1, k1) = 1
        If gp(j1, k1) <= 0.005 Then gp(j1, k1) = 0
    Next j1
    ' gp(4, k1) = -gp(4, k1)
Next k1

.....
'Guarda(Guanyadors) a VT)
.....

VT(27, 0) = "Guanyadors"
For k1 = 1 To 12
    For j1 = 1 To 6
        VT(j1 + 26, k1) = Iif(j1 = 4, -1, 1) * gp(j1, k1)
    Next j1
Next k1

End Sub
Private Sub IRPF_26DECILS_CLASE(opcio As Integer)

Dim auxx, ix(1 To 15) As Integer, i1 As Long, i2 As Long, j1 As Integer, k1 As Integer, _
    l1 As Integer, l2 As Integer, m1 As Integer, N1, N2 As Double
ReDim aux(1 To 2), dc(1 To 15, 1 To 5, 10), p(10), _
    xx(1 To N) As Double

.....
'Selecciona les variables
.....

ix(1) = 20
ix(2) = 1
ix(3) = 6
ix(4) = 7
ix(5) = 8
ix(6) = 9
ix(7) = 11
ix(8) = 12
ix(9) = 13
ix(10) = 14
ix(11) = 15
ix(12) = 16
ix(13) = 17
ix(14) = 19
ix(15) = 22

.....
'Calcula xx(1 to N, 1 to 14)=(variables * factor) acumulades / suma(variables * factor)'
'      xx(1 to N, 15)      = població acumulada/NT
'
.....

For i1 = 1 To N

```

```

    aux(1) = aux(1) + X(IND(i1, 1), 23)
    xx(i1) = aux(1) / NT
Next i1

.....
'p(1 to 10) = Observació on comença cada decil'
.....

p(0) = 1
i2 = 1
For j1 = 1 To 9
  For i1 = i2 To N
    If xx(i1) >= j1 / 10 Then
      p(j1) = i1
      i2 = i1 + 1
      Exit For
    End If
  Next i1
Next j1
p(10) = N

.....
'DECILS'
.....

For l1 = 1 To 15
  m1 = ix(l1)
  For j1 = 0 To 9
    For i1 = p(j1) + IIf(j1 = 0, 0, 1) To p(j1 + 1)
      N1 = X(IND(i1, 1), m1)
      N2 = X(IND(i1, 1), 23)
      For k1 = 1 To 5
        If CATEG(IND(i1, 1)) = k1 Then
          If l1 = 1 Then
            dc(l1, k1, j1 + 1) = dc(l1, k1, j1 + 1) + N2 / NT
          Else
            If SUMA(m1) <> 0 Then
              dc(l1, k1, j1 + 1) = dc(l1, k1, j1 + 1) + (N1 * N2 / SUMA(m1))
            Else
              dc(l1, k1, j1 + 1) = 0
            End If
          End If
        End If
      Next k1
    Next i1
  Next j1
Next l1

.....
'Guarda(DECILS) a VT)'
.....

VT(212, 0) = "Decils"
For l1 = 1 To 15
  For k1 = 1 To 5
    For j1 = 1 To 10
      If k1 = 1 Then VT(212 + (15 * (k1 - 1)), 1) = "Jubilats"
      If k1 = 2 Then VT(212 + (15 * (k1 - 1)), 1) = "Assalari"
      If k1 = 3 Then VT(212 + (15 * (k1 - 1)), 1) = "Empresar"
      If k1 = 4 Then VT(212 + (15 * (k1 - 1)), 1) = "Agricult"
      If k1 = 5 Then VT(212 + (15 * (k1 - 1)), 1) = "Rendiste"
      VT(211 + l1 + (15 * (k1 - 1)), j1 + 1) = dc(l1, k1, j1)
    Next j1
  Next k1
Next l1

End Sub
Private Sub IRPF_30COMPARACIO(avis As Boolean)

Dim aux, i1 As Long, j1 As Integer, k1 As Integer
ReDim auxdec(1 To 2) As String, auxproj(1 To 2), ds(1 To 4, 1 To 12), gp(1 To 6, 1 To 12), s(1 To 7) As Double

Open NOM_IRPF_SIMUL & "GP" & ANOIRPF & "_" & Trim(Str(COMP(1))) & ".dat" For Input As #1
Open NOM_IRPF_SIMUL & "GP" & ANOIRPF & "_" & Trim(Str(COMP(2))) & ".dat" For Input As #2

Input #1, N, auxdec(1), auxproj(1)
Input #2, N, auxdec(2), auxproj(2)

If auxdec(1) = auxdec(2) And auxproj(1) = auxproj(2) Then

  ReDim X(1 To N, 1 To 7), IND(1 To N)

  For i1 = 1 To N

```

```

Input #1, IND(il), X(il, 1), X(il, 7)
Input #2, aux, X(il, 2), aux
aux = X(il, 1) - X(il, 2)
If Abs(aux) > 1 Then
  If aux > 0 Then
    X(il, 3) = 1
    X(il, 5) = 0
  Else
    X(il, 3) = 0
    X(il, 5) = 1
  End If
  X(il, 4) = aux * X(il, 3)
  X(il, 6) = aux * X(il, 5)
End If
For j1 = 1 To 6
  s(j1) = s(j1) + (X(il, j1) * X(il, 7))
Next j1
s(7) = s(7) + X(il, 7)
Next il
Close #1
Close #2

Call IRPF_31COMPARACIO_DECILS_GP(ds, gp, s)
Call IRPF_32COMPARACIO_ESCRIPTURA(auxdec(1), auxproj(1), ds, gp, s(1), s(2), s(7))
Call COMUNS_5IMPRESSIO("IRPF", "G-P")

Else

  avis = True
  ERR_LEC = True
  Inicial.Hide
  If auxdec(1) <> auxdec(2) Then
    MsgBox "Les simulacions que es volen comparar corresponen a diferent nombre de declarants.", vbCritical,
TITOL_IRPF
  End If
  If auxproj(1) <> auxproj(2) Then
    MsgBox "Les simulacions que es volen comparar corresponen a diferent any de projecció.", vbCritical,
TITOL_IRPF
  End If
  Close #1
  Close #2
  Exit Sub

End If

End Sub
Private Sub IRPF_31COMPARACIO_DECILS_GP(ds, gp, s)

Dim aux, il As Long, i2 As Long, j1 As Integer, k1 As Integer, l1 As Long
ReDim p(1 To 12, 2), xx(1 To N, 1 To 7), y(4, 12) As Double

'.....
'Calcula xx(1 to N, 1 to 6)=(variables * factor) acumulades / s(variables * factor)
'   xx(1 to N, 7) = població acumulada/s(7)   s(7)=NT
'.....

aux = 0
For j1 = 1 To 6
  If s(j1) <> 0 Then
    aux = 0
    For il = 1 To N
      aux = aux + (X(IND(il), j1) * X(IND(il), 7))
      xx(il, j1) = aux / IIf(j1 <= 2, s(j1), 1)
    Next il
  End If
Next j1

aux = 0
For il = 1 To N
  aux = aux + X(IND(il), 7)
  xx(il, 7) = aux / s(7)
Next il

For j1 = 1 To 12
  p(j1, 1) = IIf(j1 < 10, j1 / 10, IIf(j1 = 10, 0.95, IIf(j1 = 11, 0.98, 1)))
  p(j1, 2) = IIf(j1 < 10, 0.1, IIf(j1 = 10, 0.05, IIf(j1 = 11, 0.03, 0.02)))
Next j1

i2 = 1
For j1 = 1 To 11
  For il = i2 To N
    If xx(il, 7) >= p(j1, 1) Then
      p(j1, 0) = il
      'p(1 to 12, 0 = Observació on comença cada decil

```

```

        i2 = i1
        Exit For
    End If
Next i1
Next j1
p(12, 0) = N

'.....'
'DECILS'
'.....'

For k1 = 1 To 12
    l1 = p(k1, 0)
    For j1 = 1 To 2
        ds(2 * j1, k1) = xx(l1, j1)
        If k1 = 1 Then ds(2 * j1 - 1, k1) = ds(2 * j1, k1)
        If k1 > 1 Then ds(2 * j1 - 1, k1) = ds(2 * j1, k1) - ds(2 * j1, k1 - 1)
    Next j1
Next k1

'.....'
'GUANYADORS-PERDEDORS'
'.....'

For k1 = 1 To 12
    l1 = p(k1, 0)
    For j1 = 1 To 4
        y(j1, k1) = xx(l1, j1 + 2)
        gp(IIf(j1 <= 2, j1, j1 + 1), k1) = y(j1, k1) - y(j1, k1 - 1)
    Next j1
Next k1

For j1 = 1 To 12
    For k1 = 3 To 6 Step 3
        If gp(k1 - 2, j1) <> 0 Then gp(k1, j1) = gp(k1 - 1, j1) / gp(k1 - 2, j1) Else gp(k1, j1) = 0
    Next k1
    For k1 = 1 To 5
        If k1 <> 3 Then gp(k1, j1) = gp(k1, j1) * IIf(k1 = 1 Or k1 = 4, 1 / (p(j1, 2) * s(7)), 0.001)
    Next k1
Next j1

For j1 = 1 To 12
    For k1 = 1 To 4 Step 3
        If gp(k1, j1) >= 0.995 Then gp(k1, j1) = 1
        If gp(k1, j1) <= 0.005 Then gp(k1, j1) = 0
    Next k1
    gp(4, j1) = -gp(4, j1)
Next j1

End Sub
Private Sub IRPF_32COMPARACIO_ESCRIPTURA(declarants, anyproj, ds, gp, s1, s2, s7)

Dim avisgp As Boolean, nom As String, i1 As Integer, llibre As Integer, nota As String, _
    r_f(1 To 2, 1 To 3) As Range

'.....'
'r_f(1 to 2, 1)==> formats del llibre "FORMATS", full "IRPF"
'r_f(1 to 2, 2)==> formats del llibre "SIMCAT", full "(G-P)"
'r_f(1 to 2, 3)==> formats del llibre "SIMCAT", full "(G-P)" (només valors)'
'.....'

Application.ScreenUpdating = False

nom = ThisWorkbook.Path & "\DADES\Formats.XLSX"
Set LLIBRE_FORMATS = Workbooks.Open(nom)
llibre = Workbooks.Count

Workbooks(llibre).Activate

Sheets("IRPF").Activate

Set r_f(1, 1) = Range(Cells(297, 1), Cells(305, 15)) 'Decils
Set r_f(2, 1) = Range(Cells(82, 1), Cells(89, 15)) 'Guanyadors

'.....'
'Crea el full de càlcul on escriu els resultats definitius'
'.....'

ThisWorkbook.Activate

Call COMUNS_ONOMSFULLS("IRPF(G-P)")

ActiveWorkbook.Unprotect (SECRET)

```

SIMCAT v4.2: SIMULADOR DE REFORMES IMPOSITIVES

```
Sheets("SIMULADOR REFORMES IMPOSITIVES").Activate
Sheets("IRPF(G-P)").Activate
```

```
.....
'Configura el rang d'escriptura'
.....
```

```
With Range(Cells(1, 1), Cells(66, 15))
.ColumnWidth = 6.43
With .Font
.Name = "Arial"
.Size = 7
End With
.HorizontalAlignment = xlCenter
.Interior.ColorIndex = 2
.RowHeight = 11
End With
With Range(Cells(1, 1), Cells(2, 1))
.Font.Bold = True
.Font.Size = 10
.HorizontalAlignment = xlLeft
.RowHeight = 14
End With
Cells(1, 1).Value = "IMPOST DE LA RENDA DE LES PERSONES FÍSiques"
Cells(2, 1).Value = "COMPARACIÓ SIMULACIÓ-" & COMP(1) & " vs. SIMULACIÓ-" & COMP(2) & _
" (Base de dades: " & ANOIRPF & _
IIf(anyproj <> ANOIRPF, " projectada al " & ANY_PROJ, "") & _
IIf(declarants = "TOTS", "", Total declarants", "", Només declarants obligats") & ")"
Set r_f(1, 2) = Range(Cells(3, 1), Cells(11, 15)) 'Decils Rangs d'escriptura
Set r_f(2, 2) = Range(Cells(13, 1), Cells(20, 15)) 'Guanyadors Rangs d'escriptura
Set r_f(1, 3) = Range(Cells(6, 4), Cells(9, 15)) 'Decils Rangs de valors
Set r_f(2, 3) = Range(Cells(15, 4), Cells(20, 15)) 'Guanyadors Rangs de valors
```

```
.....
'Escriu els resultats numèrics'
.....
```

```
r_f(1, 1).Copy Destination:=r_f(1, 2)
r_f(1, 2).Rows(4).Columns(1).Value = "QRA SIMULACIÓ-" & COMP(1)
r_f(1, 2).Rows(6).Columns(1).Value = "QRA SIMULACIÓ-" & COMP(2)
r_f(1, 2).Rows(8).Columns(2).Value = "SIMULACIÓ-" & COMP(1)
r_f(1, 2).Rows(8).Columns(4).Value = s1
r_f(1, 2).Rows(9).Columns(4).Value = s2
If s1 = s2 Then
nota = "Neutral"
ElseIf s1 > s2 Then
nota = "Pèrdua en recaptació"
Else
nota = "Guany en recaptació"
End If
r_f(1, 2).Rows(8).Columns(6).Value = nota
If nota <> "Neutral" Then
r_f(1, 2).Rows(8).Columns(8).Value = s2 - s1
Else
With Range(Cells(10, 8), Cells(11, 13))
.Interior.Pattern = xlCrissCross
.MergeCells = True
.Value = ""
End With
End If
r_f(1, 2).Rows(8).Columns(14).Value = s7
r_f(1, 2).Rows(9).Columns(2).Value = "SIMULACIÓ-" & COMP(2)
r_f(2, 1).Copy Destination:=r_f(2, 2)
r_f(1, 3).Value = ds

r_f(2, 3).Value = gp
r_f(2, 3).ShrinkToFit = True
```

```
LLIBRE_FORMATS.Close
```

```
.....
'Gràfics G-P'
.....
```

```
For i1 = 1 To 12
If Abs(r_f(2, 3).Rows(1).Columns(i1)) > 0.001 Or _
Abs(r_f(2, 3).Rows(4).Columns(i1)) > 0.001 Then
avisgp = True
Exit For
End If
Next i1

If avisgp Then
```

```

Dim r_gp(1 To 2, 1 To 4) As Range

Set r_gp(1, 1) = r_f(1, 3).Rows(1) 'Quota Simulació-1'
Set r_gp(2, 1) = r_f(1, 3).Rows(3) 'Quota Simulació-2'
Set r_gp(1, 2) = r_f(2, 3).Rows(1) '% guanyadors'
Set r_gp(2, 2) = r_f(2, 3).Rows(4) '% perdedors'
Set r_gp(1, 3) = r_f(2, 3).Rows(2) 'Total guanys'
Set r_gp(2, 3) = r_f(2, 3).Rows(5) 'Total pèrdues'
Set r_gp(1, 4) = r_f(2, 3).Rows(3) 'Mitjana guanyadors'
Set r_gp(2, 4) = r_f(2, 3).Rows(6) 'Mitjana perdedors'
r_gp(2, 2).NumberFormat = "0.00%;[Red]0.00%"

Call COMUNS_43GRAFICS_GP(23, ANOIRPF, "IRPF", "(G-P)", r_gp, 1)

For il = 1 To Worksheets("IRPF(G-P)").Shapes.Count
    Worksheets("IRPF(G-P)").Shapes(il).Left = IIf(il = 1 Or il = 3, 10, 280) 'Reposicionament imatges
Next il

End If

ActiveWindow.SelectedSheets.HPageBreaks.Add (Cells(67, 1))

End Sub
Private Sub IRPF_40ESCRITURA(opcio)

Dim fila As Integer, gp As Boolean, i As Integer, il As Integer, jl As Integer, _
    llibre(1 To 2) As Integer, nom As String, _
    r_ref(1 To 3) As Range, r_f(1 To 9, 1 To 4) As Range, r_parms(1 To 2) As Range, _
    r_gp(1 To 2, 1 To 4) As Range

.....
'r_f(1 to 9, 1) ==> formats del llibre "FORMATS", full "IRPF"
'r_f(1 to 9, 2) ==> formats del llibre "RESULTATS" temporals
'r_f(1 to 9, 3) ==> formats del llibre "SIMCAT", full "IRPF(R)"
'r_f(1 to 9, 4) ==> formats del llibre "SIMCAT", full "IRPF(R)" (només valors)
.....

Application.ScreenUpdating = False

nom = ThisWorkbook.Path & "\DADES\Formats.XLSX"
Set LLIBRE_FORMATS = Workbooks.Open(nom)
llibre(1) = Workbooks.Count

Workbooks(llibre(1)).Activate 'llibre "FORMATS"

Sheets("IRPF").Activate

Set r_parms(1) = Range(Cells(2, 1), Cells(45, 15)) 'Paràmetres

Set r_f(1, 1) = Range(Cells(47, 1), Cells(73, 15)) 'Descriptiu +2 +26
Set r_f(2, 1) = Range(Cells(75, 1), Cells(80, 15)) 'Límits i mitjanes per decils +1 +5
Set r_f(3, 1) = Range(Cells(82, 1), Cells(89, 15)) 'Guanyadors-Perdedors +2 +7
Set r_f(4, 1) = Range(Cells(91, 1), Cells(137, 15)) 'Decils(BII) +2 +46
Set r_f(5, 1) = Range(Cells(139, 1), Cells(158, 15)) 'Tipus (BII) +2 +19
Set r_f(6, 1) = Range(Cells(91, 1), Cells(137, 15)) 'Decils(BIT)
Set r_f(7, 1) = Range(Cells(139, 1), Cells(158, 15)) 'Tipus (BIT)
Set r_f(8, 1) = Range(Cells(160, 1), Cells(217, 8)) 'Indexs + 2 +57
Set r_f(9, 1) = Range(Cells(219, 1), Cells(295, 15)) 'Decils Classificació Socio-econ. +2 +76

Set r_ref(1) = Range(Cells(307, 1), Cells(406, 15)) 'Referència

.....
'Crea el full de càlcul on escriu els resultats definitius'
.....

ThisWorkbook.Activate 'llibre "SIMCAT"

Call COMUNS_ONOMSFULLS("IRPF(R)")

ActiveWorkbook.Unprotect (SECRET)

.....
'Escriu els resultats de la referència
.....

Sheets("SIMULADOR REFORMES IMPOSITIVES").Activate
Sheets("IRPF(R)").Activate
Set r_ref(2) = Range(Cells(1, 1), Cells(100, 15))
With r_ref(2)
    .ColumnWidth = 6.43
    .RowHeight = 10
End With

```

```

r_ref(2).Rows(2).RowHeight = 14
r_ref(2).Rows(40).RowHeight = 12
r_ref(2).Rows(67).RowHeight = 12
r_ref(2).Rows(74).RowHeight = 12
r_ref(2).Rows(83).RowHeight = 12
r_ref(1).Copy Destination:=r_ref(2)
ActiveWindow.SelectedSheets.HPageBreaks.Add (Cells(101, 1))

fila = 102

For i1 = 1 To UBound(IRESULTS)

    .....
    'Lectura en els arxius temporals de resultats'
    .....

    nom = NOM_IRPF_SIMUL & "S" & ANOIRPF & "_" & Trim(Str(IRESULTS(i1))) & ".xlsx"
    Set LLIBRE_RESULTATS = Workbooks.Open(nom)
    llibre(2) = Workbooks.Count

    Workbooks(llibre(2)).Activate                'llibre "RESULTATS"

    Sheets("PARAMETRES").Activate                'Paràmetres
    ReDim p(53, 18)
    For i = 0 To UBound(p, 1)
        For j1 = 1 To UBound(p, 2)
            p(i, j1) = Cells(i + 1, j1)
        Next j1
    Next i

    Sheets("DESCRIPTIU").Activate                'Descriptiu
    Set r_f(1, 2) = Range(Cells(1, 1), Cells(22, 8))

    Sheets("LIMITS-MITJANES").Activate            'Límits i mitjanes
    Set r_f(2, 2) = Range(Cells(1, 1), Cells(4, 12))

    Sheets("G-P").Activate                        'Guanyadors-Perdedors
    Set r_f(3, 2) = Range(Cells(1, 1), Cells(6, 12))

    Sheets("DECILS-RTC").Activate                'Decils (RTC)
    Set r_f(4, 2) = Range(Cells(1, 1), Cells(44, 12))

    Sheets("TIPUS-RTC").Activate                 'Tipus (RTC)
    Set r_f(5, 2) = Range(Cells(1, 1), Cells(18, 12))

    Sheets("DECILS-BIT").Activate                'Decils (BIT)
    Set r_f(6, 2) = Range(Cells(1, 1), Cells(44, 12))

    Sheets("TIPUS-BIT").Activate                 'Tipus (BIT)
    Set r_f(7, 2) = Range(Cells(1, 1), Cells(18, 12))

    Sheets("INDEXS").Activate                    'Indexs
    Set r_f(8, 2) = Range(Cells(1, 1), Cells(55, 3))

    Sheets("SOCIO-ECONOMICA").Activate            'Classificació socio-econòmica
    Set r_f(9, 2) = Range(Cells(1, 2), Cells(75, 11))

    .....
    'Esriptura en el full definitiu de resultats'
    .....

    ThisWorkbook.Activate                        'llibre "SIMCAT"

    With Range(Cells(fila - 1, 1), Cells(fila + 362, 15)) '354
        .ColumnWidth = 6.43
        With .Font
            .Name = "Arial"
            .Size = 7
        End With
        .HorizontalAlignment = xlCenter
        .Interior.ColorIndex = 2
        .RowHeight = 10
    End With
    With Range(Cells(fila - 1, 1), Cells(fila - 1, 1))
        .HorizontalAlignment = xlLeft
        With .Font
            .Bold = True
            .Size = 10
        End With
        .RowHeight = 14
        .Value = "SIMULACIÓ-" & IRESULTS(i1) & " (Base de dades: " & ANOIRPF & _
            IIf(p(0, 18) <> ANOIRPF, " projectada al " & p(0, 18), "") & _
            IIf(p(0, 17) = "TOTS", " , Total declarants", " , només declarants obligats") & ")"
    End With

```

```

End With

Call IRPF_41ESCRIPTURA_PARAMETRES(fil a, p, r_parms)

'.....
'Rangs per a l'escriptura en el llibre SIMCAT full IRPF(R)
'.....

Set r_f(1, 3) = Range(Cells(fil a + 45, 1), Cells(fil a + 71, 13)) 'Descriptiu
Set r_f(1, 4) = Range(Cells(fil a + 49, 6), Cells(fil a + 70, 13))
Set r_f(2, 3) = Range(Cells(fil a + 73, 1), Cells(fil a + 78, 15)) 'Límits i mitjanes per decils
Set r_f(2, 4) = Range(Cells(fil a + 75, 4), Cells(fil a + 78, 15))
Set r_f(3, 3) = Range(Cells(fil a + 80, 1), Cells(fil a + 87, 15)) 'Guanyadors-Perdedors
Set r_f(3, 4) = Range(Cells(fil a + 82, 4), Cells(fil a + 87, 15))
Set r_f(4, 3) = Range(Cells(fil a + 89, 1), Cells(fil a + 135, 15)) 'Decils(RTC)
Set r_f(4, 4) = Range(Cells(fil a + 92, 4), Cells(fil a + 135, 15))
Set r_f(5, 3) = Range(Cells(fil a + 137, 1), Cells(fil a + 156, 15)) 'Tipus (RTC)
Set r_f(5, 4) = Range(Cells(fil a + 139, 4), Cells(fil a + 156, 15))
Set r_f(6, 3) = Range(Cells(fil a + 158, 1), Cells(fil a + 204, 15)) 'Decils(BIT)
Set r_f(6, 4) = Range(Cells(fil a + 161, 4), Cells(fil a + 204, 15))
Set r_f(7, 3) = Range(Cells(fil a + 206, 1), Cells(fil a + 225, 15)) 'Tipus (BIT)
Set r_f(7, 4) = Range(Cells(fil a + 208, 4), Cells(fil a + 225, 15))
Set r_f(8, 3) = Range(Cells(fil a + 227, 1), Cells(fil a + 284, 8)) 'Índexs
Set r_f(8, 4) = Range(Cells(fil a + 230, 6), Cells(fil a + 284, 8))
Set r_f(9, 3) = Range(Cells(fil a + 286, 1), Cells(fil a + 362, 15)) 'Decils classificació
Set r_f(9, 4) = Range(Cells(fil a + 288, 6), Cells(fil a + 362, 15))

For j1 = 1 To 2
  r_f(j1, 1).Copy Destination:=r_f(j1, 3)
  r_f(j1, 2).Copy: r_f(j1, 4).PasteSpecial xlPasteValues
  If j1 = 1 Then
    r_f(j1, 3).Rows(3).Columns(1).Value = p(0, 12)
    r_f(j1, 3).Rows(3).Columns(2).Value = p(0, 13)
    r_f(j1, 3).Rows(3).Columns(3).Value = p(0, 15)
    r_f(j1, 3).Rows(3).Columns(4).Value = p(0, 14)
    r_f(j1, 3).Rows(3).Columns(5).Value = IIf(p(0, 16) > 1, 1, p(0, 16))
  End If
Next j1

If p(0, 17) = "TOTS" And p(0, 1) = ANOIRPF And p(0, 18) = ANOIRPF Then gp = True Else gp = False
If gp Then
  r_f(3, 1).Copy Destination:=r_f(3, 3)
  r_f(3, 2).Copy: r_f(3, 4).PasteSpecial xlPasteValues
  r_f(3, 4).ShrinkToFit = True
End If

For j1 = 4 To 9
  r_f(j1, 1).Copy Destination:=r_f(j1, 3)
  r_f(j1, 2).Copy: r_f(j1, 4).PasteSpecial xlPasteValues
  If j1 = 4 Or j1 = 5 Then Cells(fil a + IIf(j1 = 4, 89, 137), 1).Value = Cells(fil a + IIf(j1 = 4, 89,
137), 1).Value & " (ordenació segons RTC)"
  If j1 = 6 Or j1 = 7 Then Cells(fil a + IIf(j1 = 6, 158, 206), 1).Value = Cells(fil a + IIf(j1 = 6, 158,
206), 1).Value & " (ordenació segons BIT)"
Next j1

LLIBRE_RESULTATS.Close

ActiveWindow.SelectedSheets.HPageBreaks.Add (Cells(fil a + 88, 1))
ActiveWindow.SelectedSheets.HPageBreaks.Add (Cells(fil a + 157, 1))
ActiveWindow.SelectedSheets.HPageBreaks.Add (Cells(fil a + 226, 1))
ActiveWindow.SelectedSheets.HPageBreaks.Add (Cells(fil a + 285, 1))
ActiveWindow.SelectedSheets.HPageBreaks.Add (Cells(fil a + 363, 1))

'.....
'Rangs pels gràfics
'.....

Set r_ref(3) = Range(Cells(82, 4), Cells(100, 15))

ReDim r_g(1 To IIf(gp, 7, 3), 1 To 8) As Range

Set r_g(1, 1) = r_f(4, 4).Rows(2) 'Renda total contribuent (RTC) acumulada (sim)
Set r_g(2, 1) = r_f(4, 4).Rows(44) 'Quota resultant autoliquidació(QR) acumulada (sim)
Set r_g(3, 1) = r_f(4, 4).Rows(44) 'Quota resultant autoliquidació(QR) acumulada (sim)
Set r_g(1, 2) = r_f(6, 4).Rows(4) 'Base Imposable total (BIT) acumulada (sim)
Set r_g(2, 2) = r_f(6, 4).Rows(44) 'Quota resultant autoliquidació(QR) acumulada (sim)
Set r_g(3, 2) = r_f(6, 4).Rows(44) 'Quota resultant autoliquidació(QR) acumulada (sim)
If gp Then
  Set r_g(5, 1) = r_ref(3).Rows(4) 'Renda total contribuent (RTC) acumulada (ref)
  Set r_g(6, 1) = r_ref(3).Rows(6) 'Quota resultant autoliquidació(QR) acumulada (ref)
  Set r_g(7, 1) = r_ref(3).Rows(6) 'Quota resultant autoliquidació(QR) acumulada (ref)
  Set r_g(5, 2) = r_ref(3).Rows(13) 'Base Imposable total (BIT) acumulada (ref)
  Set r_g(6, 2) = r_ref(3).Rows(15) 'Quota resultant autoliquidació(QR) acumulada (ref)

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    Set r_g(7, 2) = r_ref(3).Rows(15) 'Quota resultant autoliquidació(QR) acumulada (ref)
End If

Set r_g(1, 3) = r_f(5, 4).Rows(12) 'Tipus efectiu QR s/RTC (sim)
Set r_g(1, 4) = r_f(5, 4).Rows(11) 'Tipus efectiu QA s/RTC (sim)
If gp Then
    Set r_g(2, 3) = r_ref(3).Rows(8) 'Tipus efectiu QR s/RTC (ref)
    Set r_g(2, 4) = r_ref(3).Rows(7) 'Tipus efectiu QA s/RTC (ref)
End If

Set r_g(1, 5) = r_f(7, 4).Rows(15) 'Tipus efectiu QR s/BIT (sim)
Set r_g(1, 6) = r_f(7, 4).Rows(14) 'Tipus efectiu QA s/BIT (sim)
If gp Then
    Set r_g(2, 5) = r_ref(3).Rows(17) 'Tipus efectiu QR s/BIT (ref)
    Set r_g(2, 6) = r_ref(3).Rows(16) 'Tipus efectiu QA s/BIT (ref)
End If

Set r_g(1, 7) = r_f(7, 4).Rows(18) 'Tipus efectiu QR s/BLT (sim)
Set r_g(1, 8) = r_f(7, 4).Rows(17) 'Tipus efectiu QA s/BLT (sim)
If gp Then
    Set r_g(2, 7) = r_ref(3).Rows(19) 'Tipus efectiu QR s/BLT (ref)
    Set r_g(2, 8) = r_ref(3).Rows(18) 'Tipus efectiu QA s/BLT (ref)
End If

If gp Then
    Set r_gp(1, 1) = r_f(4, 4).Rows(43) 'Quota resultant autoliquidació (sim)
    Set r_gp(2, 1) = r_ref(3).Rows(5) 'Quota resultant autoliquidació (ref)
    Set r_gp(1, 2) = r_f(3, 4).Rows(1) '% guanyadors'
    Set r_gp(2, 2) = r_f(3, 4).Rows(4) '% perdedors'
    Set r_gp(1, 3) = r_f(3, 4).Rows(2) 'Total guanyys'
    Set r_gp(2, 3) = r_f(3, 4).Rows(5) 'Total pèrdues'
    Set r_gp(1, 4) = r_f(3, 4).Rows(3) 'Mitjana guanyadors'
    Set r_gp(2, 4) = r_f(3, 4).Rows(6) 'Mitjana perdedors'
    r_gp(2, 2).NumberFormat = "0.00%;[Red]0.00%"
End If

Call IRPF_42ESCRITURA_GRAFICS(fila + 364, gp, p(0, 17), p(0, 18), r_g, r_gp, IRESULTS(il))

fila = fila + 456 + IIf(gp, 47, 0) '442

Next il

LLIBRE_FORMATS.Close

Call COMUNS_5IMPRESSIO("IRPF", "R")

End Sub
Private Sub IRPF_41ESCRITURA_PARAMETRES(fila, p, r_parms)

Dim il As Integer, jl As Integer

Set r_parms(2) = Range(Cells(fila, 1), Cells(fila + 44, 15)) 'Paràmetres

r_parms(1).Copy Destination:=r_parms(2)
With r_parms(2)

    For il = 1 To p(0, 6) 'Tarifa BG estat
        For jl = 1 To 3
            .Rows(il + 4).Columns(jl).Value = p(8 + il, jl)
        Next jl
    Next il
    If p(0, 6) <> 10 Then
        With Range(Cells(fila + p(0, 6) + 4, 1), Cells(fila + 14, 3))
            .Interior.Pattern = xlCrissCross
            .MergeCells = True
        End With
        With Range(Cells(fila + p(0, 6) + 3, 1), Cells(fila + p(0, 6) + 3, 3)).Borders(xlEdgeBottom)
            .LineStyle = xlContinuous
            .Weight = xlMedium
        End With
    End If
    For il = 1 To p(0, 7) 'Tarifa BG CCAA
        For jl = 1 To 3
            .Rows(il + 4).Columns(jl + 3).Value = p(8 + il, jl + 3)
        Next jl
    Next il
    If p(0, 7) <> 10 Then
        With Range(Cells(fila + p(0, 7) + 4, 4), Cells(fila + 14, 6))
            .Interior.Pattern = xlCrissCross
            .MergeCells = True
        End With
        With Range(Cells(fila + p(0, 7) + 3, 4), Cells(fila + p(0, 7) + 3, 6)).Borders(xlEdgeBottom)
            .LineStyle = xlContinuous

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        .Weight = xlMedium
    End With
End If
j1 = Application.max(p(0, 6), p(0, 7))
If j1 <> 10 Then
    For i1 = j1 To 10
        Cells(fila + 4 + i1, 3).Borders(xlEdgeRight).LineStyle = xlNone
    Next i1
End If

For i1 = 1 To p(0, 8)                                'Tarifa BE
    For j1 = 1 To 4
        .Rows(i1 + 4).Columns(10 + j1).Value = p(18 + i1, j1)
    Next j1
Next i1
.Rows(5).Columns(15).Value = p(25, 1)                'Reducció dividendes
With Range(Cells(fila + p(0, 8) + 4, 11), Cells(fila + 14, 14))
    With .Borders(xlEdgeTop)
        .LineStyle = xlContinuous
        .Weight = xlMedium
    End With
    .Borders(xlEdgeRight).LineStyle = xlNone
    .Interior.Pattern = xlCrissCross
    .MergeCells = True
End With

If p(25, 2) <> 0 Then                                'Mínim exempt base estalvi
    .Rows(15).Columns(10).Value = p(25, 2)
Else
    With Range(Cells(fila + 14, 7), Cells(fila + 14, 10))
        .Interior.Pattern = xlCrissCross
        .MergeCells = True
        .Value = ""
    End With
End If

If p(0, 2) = 1 Then                                  'Mínims personals i familiars
    For j1 = 1 To 2
        For i1 = 1 To 11
            If j1 = 1 Then .Rows(i1 + 3).Columns(9).Value = p(1, i1)
            If j1 = 2 Then .Rows(i1 + 3).Columns(10).Value = p(2, i1) - p(1, i1)
        Next i1
    Next j1
End If

If p(0, 2) = 0 Then
    With Range(Cells(fila + 1, 7), Cells(fila + 13, 10))
        .Font.Bold = True
        .HorizontalAlignment = xlCenter
        .Interior.Pattern = xlCrissCross
        .MergeCells = True
        .Value = "SENSE MÍNIMS PERSONALS i FAMILIARS"
        .VerticalAlignment = xlCenter
        .WrapText = True
    End With
End If

If p(0, 3) = 1 Then                                  'Reducció Tributació conjunta
    .Rows(20).Columns(1).Value = p(3, 1)              'cònjuge
    .Rows(20).Columns(2).Value = p(3, 2)              'separació
Else
    With Range(Cells(fila + 15, 1), Cells(fila + 19, 2))
        .HorizontalAlignment = xlCenter
        .Interior.Pattern = xlCrissCross
        .MergeCells = True
        .Value = "SENSE REDUCCIÓ PER TRIBUTACIÓ CONJUNTA"
        .VerticalAlignment = xlCenter
        .WrapText = True
    End With
End If

If p(0, 4) = 1 Then                                  'Reducció rend. treball
    For i1 = 1 To 3
        For j1 = 1 To 3
            .Rows(17 + i1).Columns(j1 + 2).Value = p(3 + i1, j1)
        Next j1
    Next i1
    .Rows(19).Columns(8).Value = p(5, 1)
    .Rows(20).Columns(9).Value = p(7, 1)
    .Rows(20).Columns(10).Value = p(7, 2)
Else
    With Range(Cells(fila + 15, 3), Cells(fila + 19, 10))
        .HorizontalAlignment = xlCenter
        .Interior.Pattern = xlCrissCross

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.MergeCells = True
.Value = "SENSE REDUCCIONS PER RENDIMENTS DEL TREBALL o ACTIVITATS ECONÒMIQUES"
.VerticalAlignment = xlCenter
.WrapText = True
End With
End If

If p(0, 5) = 1 Then                                'Reducció Plans Pensions
.Rows(18).Columns(11).Value = p(8, 1)
.Rows(18).Columns(12).Value = p(8, 2)
.Rows(18).Columns(13).Value = p(8, 3)
.Rows(18).Columns(14).Value = p(8, 4)
.Rows(18).Columns(15).Value = p(8, 4)
Else
With Range(Cells(fila + 15, 11), Cells(fila + 19, 15))
With .Borders(xlEdgeTop)
.LineStyle = xlContinuous
.Weight = xlMedium
End With
.HorizontalAlignment = xlCenter
.Interior.Pattern = xlCrissCross
.MergeCells = True
.Value = "SENSE REDUCCIONS PER PLANS DE PENSIONS"
.VerticalAlignment = xlCenter
End With
End If

If p(0, 9) = 1 Then
.Rows(40).Columns(4).Value = IIf(p(26, 2) = 1, "SI", "NO")
.Rows(41).Columns(4).Value = IIf(p(26, 3) = 1, "SI", "NO")
.Rows(42).Columns(4).Value = IIf(p(26, 4) = 1, "SI", "NO")
.Rows(43).Columns(4).Value = IIf(p(26, 5) = 1, "SI", "NO")
.Rows(44).Columns(4).Value = IIf(p(26, 6) = 1, "SI", "NO")
If p(26, 1) = 1 Then                                'Deducció vivenda
.Rows(25).Columns(1).Value = p(27, 1)
.Rows(25).Columns(2).Value = p(27, 2)
.Rows(25).Columns(3).Value = p(27, 3)
.Rows(25).Columns(4).Value = p(27, 4)
.Rows(27).Columns(1).Value = p(28, 1)
.Rows(27).Columns(2).Value = p(28, 2)
.Rows(27).Columns(3).Value = p(28, 3)
.Rows(29).Columns(4).Value = p(29, 1)
.Rows(31).Columns(1).Value = p(29, 3)
.Rows(31).Columns(2).Value = p(29, 4)
.Rows(31).Columns(3).Value = p(29, 2)
.Rows(32).Columns(4).Value = p(29, 1)
.Rows(33).Columns(1).Value = p(29, 4)
.Rows(33).Columns(4).Value = p(29, 1)
.Rows(35).Columns(4).Value = p(30, 1)
.Rows(37).Columns(1).Value = p(30, 3)
.Rows(37).Columns(2).Value = p(30, 4)
.Rows(37).Columns(3).Value = p(30, 2)
.Rows(38).Columns(4).Value = p(30, 1)
.Rows(39).Columns(1).Value = p(30, 4)
.Rows(39).Columns(4).Value = p(30, 1)
Else
With Range(Cells(fila + 21, 1), Cells(fila + 38, 4))
With .Borders(xlEdgeTop)
.LineStyle = xlContinuous
.Weight = xlMedium
End With
.HorizontalAlignment = xlCenter
.Interior.Pattern = xlCrissCross
.MergeCells = True
.WrapText = True
.Value = "SENSE DEDUCCIÓ HABITATGE ESTAT i CATALUNYA"
End With
End If
Else
With Range(Cells(fila + 20, 1), Cells(fila + 43, 4))
.HorizontalAlignment = xlCenter
.Interior.Pattern = xlCrissCross
.MergeCells = True
.Value = "SENSE DEDUCCIONS GENERALS"
.VerticalAlignment = xlCenter
.WrapText = True
End With
End If

If p(0, 10) = 1 Then                                'Deduccions CA
For i1 = 1 To 10
.Rows(22 + i1).Columns(8).Value = p(30 + i1, 1)
If i1 = 2 Or i1 = 3 Or i1 = 8 Then .Rows(22 + i1).Columns(9).Value = p(30 + i1, 2)

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        If il = 4 Or il = 7 Or il = 9 Or il = 10 Then .Rows(22 + il).Columns(10).Value = p(30 + il, 2)
    Next il
Else
    With Range(Cells(fil a + 20, 5), Cells(fil a + 31, 10))
        .HorizontalAlignment = xlCenter
        .Interior.Pattern = xlCrissCross
        .MergeCells = True
        .Value = "SENSE DEDUCCIONS ESPECÍFIQUES DE CATALUNYA"
        .VerticalAlignment = xlCenter
        .WrapText = True
    End With
End If

If p(0, 11) = 1 Then                                'Altres deduccions CA
    For il = 1 To 7
        .Rows(22 + il).Columns(15).Value = p(40 + il, 1)
    Next il
    If p(48, 1) < 0 Then .Rows(30).Columns(11).Value = "" Else .Rows(30).Columns(15).Value = p(48, 1)
Else
    With Range(Cells(fil a + 19, 11), Cells(fil a + 30, 15))
        .Font.Bold = True
        .HorizontalAlignment = xlCenter
        .Interior.Pattern = xlCrissCross
        .MergeCells = True
        .Value = "SENSE ALTRES DEDUCCIONS CATALUNYA"
        .VerticalAlignment = xlCenter
        .WrapText = True
    End With
End If

If p(49, 1) <> 1 Or p(50, 1) <> 1 Or p(51, 1) <> 1 Or p(52, 1) <> 1 Or p(53, 1) <> 1 Then
    .Rows(40).Columns(15).Value = p(49, 1) - 1
    .Rows(41).Columns(15).Value = p(50, 1) - 1
    .Rows(42).Columns(15).Value = p(51, 1) - 1
    .Rows(43).Columns(15).Value = p(52, 1) - 1
    .Rows(44).Columns(15).Value = p(53, 1) - 1
Else
    With Range(Cells(fil a + 38, 11), Cells(fil a + 43, 15))
        .HorizontalAlignment = xlCenter
        .Interior.Pattern = xlCrissCross
        .MergeCells = True
        .Value = "SENSE PROJECTAR ELS RENDIMENTS"
        .VerticalAlignment = xlCenter
        .Orientation = 0
    End With
End If

End With

End Sub
Private Sub IRPF_42ESCRITURA_GRAFICS(fil a, gp, p017, p018, r_g, r_gp, sim)

Dim avisgp As Boolean, il As Integer, i2 As Integer, j1 As Integer, m, nom() As String, s_r() As Boolean

'.....
'Esriptura en el full definitiu de resultats'
'.....

With Range(Cells(fil a - 1, 1), Cells(fil a + 90, 15))
    .ColumnWidth = 6.43
    .Interior.ColorIndex = 2
    .RowHeight = 10
End With
With Range(Cells(fil a - 1, 1), Cells(fil a - 1, 1))
    .Font.Bold = True
    .Font.Size = 10
    .HorizontalAlignment = xlLeft
    .RowHeight = 14
    .Value = "GRÀFICS DE LA SIMULACIÓ-" & sim & " (Base de dades: " & ANOIRPF & _
        IIf(p018 <> ANOIRPF, " projectada al " & p018, "") & _
        IIf(p017 = "TOTS", ", Total declarants", ", només declarants obligats") & ")"
End With

ReDim nom(1 To 7, 1 To 2), s_r(1 To 7, 1 To 5)

For il = 1 To 2
    nom(1, il) = "Sim-" & sim & IIf(il = 1, "(RTC)", "(BIT)")
    nom(2, il) = "Sim-" & sim & "(QR)"
    nom(3, il) = "Sim-" & sim & "(QR relativa)"
    nom(4, il) = "Equitat"
    nom(5, il) = "Ref." & IIf(il = 1, "(RTC)", "(BIT)")
    nom(6, il) = "Ref.(QR)"
    nom(7, il) = "Ref.(QR relativa)"

```

```

If gp Then 'si hi ha referència s'ha de calcular si les corbes són iguals
  For i2 = 1 To 3
    For j1 = 1 To 12
      If Abs(r_g(i2, i1).Columns(j1) - r_g(i2 + 4, i1).Columns(j1)) > 0.005 Then
        s_r(i2 + 4, i1) = True
        Exit For
      End If
    Next j1
  Next i2
End If
Next il

If gp Then 'si hi ha referència s'ha de calcular si les corbes dels tipus són iguals

  For i1 = 1 To 6
    For j1 = 1 To 12
      If Abs(r_g(1, i1 + 2).Columns(j1) - r_g(2, i1 + 2).Columns(j1)) > 0.001 Then
        s_r(i1, 3) = True
        Exit For
      End If
    Next j1
  Next i1

  m = Round(Application.max(r_g(1, 3), r_g(2, 3), r_g(1, 4), r_g(2, 4), _
    r_g(1, 5), r_g(2, 5), r_g(1, 6), r_g(2, 6), _
    r_g(1, 7), r_g(2, 7), r_g(1, 8), r_g(2, 8)), 2)

Else 'Quan els gràfics no inclouen la referència

  m = Round(Application.max(r_g(1, 3), r_g(1, 4), r_g(1, 5), r_g(1, 6), r_g(1, 7)), 2)

End If

Call COMUNS_41GRAFICS_CORBESLORENZ(filat, gp, "IRPF", nom, r_g, s_r) 'Lorenz
Call COMUNS_42GRAFICS_TIPUS(filat + 23, gp, "IRPF", m, r_g, s_r, sim) 'Tipus efectius

If gp Then
  For j1 = 1 To 12
    If Abs(r_gp(1, 2).Columns(j1)) > 0.001 Or Abs(r_gp(2, 2).Columns(j1)) > 0.001 Then
      avisgp = True
      Exit For
    End If
  Next j1
  If avisgp Then
    Call COMUNS_43GRAFICS_GP(filat + 92, ANOIRPF, "IRPF", "(R)", r_gp, sim) 'G-P
  Else
    gp = False
  End If
End If

For il = 1 To Worksheets("IRPF(R)").Shapes.Count - 1 Step 2
  Worksheets("IRPF(R)").Shapes(il).Left = 20 'Reposicionament imatges
Next il
For il = 2 To Worksheets("IRPF(R)").Shapes.Count Step 2
  Worksheets("IRPF(R)").Shapes(il).Left = 310 'Reposicionament imatges
Next il

ActiveWindow.SelectedSheets.HPageBreaks.Add (Cells(filat + 91, 1))
If gp Then ActiveWindow.SelectedSheets.HPageBreaks.Add (Cells(filat + 138, 1))

End Sub
Private Sub IS_10PARAMETRES(opcio As Integer)

Dim il As Integer

ReDim edat1(20) As Integer, percen(100) As Integer, edat2(51) As Integer, bon(100) As Integer, tram(15) As Integer
edat2(51) = 0
For il = 100 To 0 Step -1
  If il <= 20 Then edat1(20 - il) = il
  percen(100 - il) = il
  If il <= 50 Then edat2(50 - il) = il + 50
  If il <= 15 Then tram(15 - il) = il + 1
  bon(100 - il) = il
Next il
If ISIMULS(2) <> 0 Then
  ReDim sims(1 To ISIMULS(2))
  For il = ISIMULS(2) To 1 Step -1
    sims(ISIMULS(2) - il + 1) = CIS(il)
  Next il
End If

```

```

PAGINA = -1
TORNA:
PAGINA = PAGINA + 1
ERR_LEC = True

Do While ERR_LEC
  With IS1
    .MultiPage1.Value = PAGINA
    If .MultiPage1.Value = 0 Then .Caption = "SIMCAT-IS: Reduccions"
    If .MultiPage1.Value = 1 Then .Caption = "SIMCAT-IS: Coeficients multiplicadors i tarifa"
    If .MultiPage1.Value = 2 Then .Caption = "SIMCAT-IS: Bonificacions a la quota"
    .Caption = .Caption & " (Base de dades: " & ANOIS & ")"
    .ListBox111.List = edat1
    .ListBox112.List = edat1
    .ListBox131.List = edat2
    .ListBox141.List = percen
    .ListBox142.List = percen
    .ListBox143.List = percen
    .ListBox144.List = percen
    .ListBox145.List = percen
    .ListBox146.List = percen
    .ListBox22.List = tram
    .ListBox23.List = tram
    For Each CTL In .Frame3.Controls
      If TypeName(CTL) = "ListBox" Then CTL.List = bon
    Next CTL
    .Llei.Value = True
    If ISIMULS(2) <> 0 Then
      .ListBox_SimulRef.List = sims
      .SimulRef.Visible = True
    End If
    .Show
  End With
  If SORTIR Then Exit Sub
Loop
If PAGINA < 2 Then GoTo TORNA
If PAGINA = 2 Then Exit Sub

End Sub
Private Sub IS_20SIMULACIO(temps)

Dim il As Long, it As Integer, j1 As Integer, j2 As Integer, k1 As Integer

.....
'Càlcul preliminar sobre trams i tipus impositius'
.....

ReDim tt12(1 To NTRAMS12 - IIf(NTRAMS12 <> 1, 1, 0)), tt34(1 To NTRAMS34 - IIf(NTRAMS34 <> 1, 1, 0)) As Double
tt12(1) = T12(1) * TIPUS12(1)
If NTRAMS12 > 2 Then
  For it = 2 To NTRAMS12 - 1
    tt12(it) = tt12(it - 1) + ((T12(it) - T12(it - 1)) * TIPUS12(it))
  Next it
End If
tt34(1) = T34(1) * TIPUS34(1)
If NTRAMS34 > 2 Then
  For it = 2 To NTRAMS34 - 1
    tt34(it) = tt34(it - 1) + ((T34(it) - T34(it - 1)) * TIPUS34(it))
  Next it
End If

.....
'Variables d'interès'
.....
'V03=idauto'
'V05=Expedient'
'V06=Autoliquidacio'
'V09=Grup PARENTIU'
'V10=PARENTIU'
'V11=Grau discapacitat'
'V16=Grup patrimoni'
',
'V19=C02 Participació cabal hereditari'
'V20=C03 Percepcions contractes d'assegurança'
'V21=C04 Béns addicionables'
',
'V23=C06 Valor Plé Domini'
'V24=C07 Valor Nua Propietat'
'V25=C08 Donació acumulada'
'V26=C09 Béns i drets exempts (conv. internacionals)'
',
'V34=C304 Reducció imposició decennal(real)'
'V35=C404 Reducció imposició decennal(teòrica)'

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SIMCAT v4.2: SIMULADOR DE REFORMES IMPOSITIVES

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'V38=C306 Reducció activitat empr. o prof. (real)      '
'V39=C406 Reducció activitat empr. o prof. (teòrica)  '
'V40=C307 Reducció per participació entitats(real)    '
'V41=C407 Reducció per participació entitats(teòrica)'
'V42=C308 Reducció habitatge habitual(real)          '
'V43=C408 Reducció habitatge habitual(teòrica)       '
'V44=C309 Reducció béns d'interès cultural(real)     '
'V45=C409 Reducció béns d'interès cultural(teòrica)  '
'V46=C310 Reducció explotacions agràries(real)       '
'V47=C410 Reducció explotacions agràries(teòrica)    '
'V48=C311 Reducció finques rústiques(real)           '
'V49=C411 Reducció finques rústiques teorica        '
'V50=C312 Reducció altres(real)                      '
'V51=C412 Reducció altres(teòrica)                  '
'edat      Edat del subjecte passiu                  '
'trib      Tributació real=1 o teòrica=2             '
.....
'X(i1, 1) Base Imposable                            '
'X(i1, 2) Base Liquidable                           '
'X(i1, 3) Reduccions parentiu i addicional          '
'X(i1, 4) Reduccions personals                     '
'X(i1, 5) Reducció habitatge                       '
'X(i1, 6) Resta Reduccions                         '
'X(i1, 7) Quota Íntegra                            '
'X(i1, 8) Quota Tributària abans bonificació        '
'X(i1, 9) Bonificació                              '
'X(i1, 10) Quota Tributària                         '
'X(i1, 11) Factor elevació                         '
.....

'Declaracions de variables que no venen del fitxer de lectura
.....

Dim aux, aux52, auxred52, aux53, auxred53, bl, _
    i_pag As Integer, spes2, vgp, _
    v22, v27, v28, v29, v30, v31, v32, _
    v33, v36, v37, v52, V53, V56, V57 As Double

'Declaracions de variables del fitxer de lectura'
.....

Dim V03 As String, V05 As String, V06 As String, V09 As Integer, v10 As String, v11 As Integer, v16 As Integer,
-
    v19, v20, v21, v23, v24, v25, v26, _
    v34, v35, v38, v39, v40, v41, v42, _
    v43, v44, v45, V46, V47, V48, V49, _
    v50, V51, edat As Integer, trib As Integer

'Lectura de dades'
.....

Open NOM_IS_DADES & ANOIS & ".dat" For Input As #1
Input #1, N

'Declaracions de variables després de conèixer N'
.....

ReDim IND(1 To N, 1 To 2), SUMA(1 To 11), vpag(1 To 3), vy(1 To 20, 1 To 6), X(1 To N, 1 To 11)

NT = 0
j2 = 1
spes2 = 0

For i1 = 1 To N
    i_pag = 0
    Input #1, V03, V05, V06, V09, v10, v11, v16, v19, v20, v21, v23, v24, v25, v26, v34, v35, v38, v39, v40, _
        v41, v42, v43, v44, v45, V46, V47, V48, V49, v50, V51, edat, trib, X(i1, 11)

    'Base imposable
    .....

    v22 = v19 + v20 + v21
    If v22 < 0 Then v22 = 0
    v27 = 0
    If trib = 2 Then v27 = v22 + (v23 + v25 + v26 - v24)
    If v27 < 0 Then v27 = 0
    .....

```

'Determinació Reducció parentiu V28,V29

.....

v28 = 0

If V09 = 1 Then

 v28 = R_PARENT(1, 1)

 If edat < 21 Then

 If edat >= R_PARENT(1, 3) Then

 v28 = v28 + (R_PARENT(1, 2) * (R_PARENT(1, 4) - edat + 1))

 Else

 v28 = v28 + (R_PARENT(1, 2) * (R_PARENT(1, 4) - R_PARENT(1, 3) + 1))

 End If

 End If

ElseIf V09 = 2 Then

 If v10 = "Cònjuge" Then v28 = R_PARENT(2, 1)

 If v10 = "Unió estable de parella" Then v28 = R_PARENT(2, 1)

 If v10 = "Adoptat" Then v28 = R_PARENT(3, 1)

 If v10 = "Fill o adoptat" Then v28 = R_PARENT(3, 1)

 If v10 = "Altres descendents consanguinis o assimilats" Then v28 = R_PARENT(4, 1)

 If v10 = "Descendent consanguini" Then v28 = R_PARENT(4, 1)

 If v10 = "Ascendent consanguini" Then v28 = R_PARENT(5, 1)

 If v10 = "Adoptant" Then v28 = R_PARENT(5, 1)

ElseIf V09 = 3 Then

 v28 = R_PARENT(6, 1)

ElseIf V09 = 4 Then

 v28 = R_PARENT(7, 1)

End If

If trib = 2 Then v29 = v28

.....

'Determinació Reducció discapacitat V30,V31

.....

v30 = 0

If v11 >= 33 And v11 < 65 Then v30 = R_DISCAP(1)

If v11 >= 65 Then v30 = R_DISCAP(2)

If trib = 2 Then v31 = v30

.....

'Determinació Reducció edat incompatible amb discapacitat V32,V33

.....

v32 = 0

If v30 = 0 And edat < 999 Then

 If edat >= R_EDATGR(1) Then v32 = R_EDATGR(2)

End If

If trib = 2 Then v33 = v32

.....

'Determinació Reducció assegurança V36,V37

.....

v36 = 0

If v20 <> 0 And V09 <= 2 Then

 If R_ASSEGU(2) <> 0 Then v36 = Application.min(v20 * R_ASSEGU(1), R_ASSEGU(2))

End If

If trib = 2 Then v37 = v36

.....

'Determinació reducció activitat empresarial V38,V39

.....

If v38 <> 0 Then

 v38 = (v38 / 0.95) * R_EMPRES(1)

 If R_EMPRES(2) <> 0 Then v38 = Application.min(v38, R_EMPRES(2))

End If

If v39 <> 0 Then

 v39 = (v39 / 0.95) * R_EMPRES(1)

 If R_EMPRES(2) <> 0 Then v39 = Application.min(v39, R_EMPRES(2))

End If

.....

'Determinació reducció participació entitats V40,V41

.....

If v40 <> 0 Then

 v40 = (v40 / 0.95) * R_PARTIC(1)

 If R_PARTIC(2) <> 0 Then v40 = Application.min(v40, R_PARTIC(2))

End If

If v41 <> 0 Then

 v41 = (v41 / 0.95) * R_PARTIC(1)

 If R_PARTIC(2) <> 0 Then v41 = Application.min(v41, R_PARTIC(2))

End If

```

.....
'Determinació ReduCCIó Habitatge V42,V43
.....

If v42 <> 0 Then
  v42 = (v42 / 0.95) * R_HABITA(1)
  If R_HABITA(2) <> 0 Then v42 = Application.min(v42, R_HABITA(2))
End If
If v43 <> 0 Then
  v43 = (v43 / 0.95) * R_HABITA(1)
  If R_HABITA(2) <> 0 Then v43 = Application.min(v43, R_HABITA(2))
End If

.....
'Determinació ReduCCIó Béns culturals V44,V45
.....

If v44 <> 0 Then
  v44 = (v44 / 0.95) * R_BENSCU(1)
  If R_BENSCU(2) <> 0 Then v44 = Application.min(v44, R_BENSCU(2))
End If
If v45 <> 0 Then
  v45 = (v45 / 0.95) * R_BENSCU(1)
  If R_BENSCU(2) <> 0 Then v45 = Application.min(v45, R_BENSCU(2))
End If

.....
'Determinació ReduCCIó Finques rústiques V48,V49
.....

If V48 <> 0 Then
  V48 = (V48 / 0.95) * R_FINQUE(1)
  If R_FINQUE(2) <> 0 Then V48 = Application.min(V48, R_FINQUE(2))
End If
If V49 <> 0 Then
  V49 = (V49 / 0.95) * R_FINQUE(1)
  If R_FINQUE(2) <> 0 Then V49 = Application.min(V49, R_FINQUE(2))
End If

.....
'Determinació ReduCCIó addicional parentiu V52,V53
.....

v52 = 0
If V09 = 1 Then
  v52 = R_PARENT_AD(1)
ElseIf V09 = 2 Then
  If v10 = "Cònjuge" Then v52 = R_PARENT_AD(2)
  If v10 = "Unió estable de parella" Then v52 = R_PARENT_AD(2)
  If v10 = "Adoptat" Then v52 = R_PARENT_AD(3)
  If v10 = "Fill o adoptat" Then v52 = R_PARENT_AD(3)
  If v10 = "Altre descendent consanguini o assimilat" Then v52 = R_PARENT_AD(4)
  If v10 = "Descendent consanguini" Then v52 = R_PARENT_AD(4)
  If v10 = "Adoptant" Then v52 = R_PARENT_AD(5)
  If v10 = "Ascendent consanguini" Then v52 = R_PARENT_AD(5)
ElseIf V09 = 3 Or V09 = 4 Then
  v52 = 0
End If
If trib = 2 Then V53 = v52

.....
'Ajustament ReduCCIó parentiu(V28,V29) i addicional(V52,V53) quan n'hi ha d'altres
.....

aux52 = 0.5
If v38 <> 0 Or v40 <> 0 Or v44 <> 0 Or V46 <> 0 Or V48 <> 0 Or v50 <> 0 Then
  aux52 = aux52 / 2
  v28 = v28 / 2
  v52 = v52 / 2
End If
If trib = 2 Then
  aux53 = 0.5
  If v39 <> 0 Or v41 <> 0 Or v45 <> 0 Or V47 <> 0 Or V49 <> 0 Or V51 <> 0 Then
    aux53 = aux53 / 2
    v29 = v29 / 2
    V53 = V53 / 2
  End If
End If

.....
'Ajustament final ReduCCIó addicional(V52,V53)
.....

```

```

auxred52 = v28 + v30 + v32 + v34 + v36 + v38 + v40 + v42 + v44 + V46 + V48 + v50
v52 = Application.min(v52, Application.max(0, (v22 - auxred52) * aux52))
If trib = 2 Then
  auxred53 = v29 + v31 + v33 + v35 + v37 + v39 + v41 + v43 + v45 + V47 + V49 + V51
  V53 = Application.min(V53, Application.max(0, (v27 - auxred53) * aux53))
End If

X(i1, 3) = Application.min(v22, v28 + v52)
v30 = Application.min(Application.max(0, v22 - X(i1, 3)), v30)
v32 = Application.min(Application.max(0, v22 - X(i1, 3) - v30), v32)
X(i1, 4) = Application.min(v22 - X(i1, 3), v30 + v32)
X(i1, 5) = Application.min(v22 - X(i1, 3) - X(i1, 4), v42)
X(i1, 6) = Application.min(v22 - X(i1, 3) - X(i1, 4) - X(i1, 5), v34 + v36 + v38 + v40 + v44 + V46 + V48 +
v50)

.....
'Base Liquidable
.....

V56 = Application.max(0, v22 - X(i1, 3) - X(i1, 4) - X(i1, 5) - X(i1, 6))
If trib = 2 Then V57 = Application.max(0, v27 - (v29 + v31 + v33 + v35 + v37 + v39 + v41 + v43 + v45 + V47 +
V49 + V51 + V53))
X(i1, 1) = v22
X(i1, 2) = V56

.....
'Determina la Quota íntegra segons la tarifa i trams indicats'
.....

X(i1, 7) = 0
X(i1, 8) = 0
X(i1, 9) = 0
If trib = 1 Then bl = V56 Else bl = V57

If bl > 0 Then

  i_pag = 1          'pagadors

  If V09 <= 2 Then   'tarifa grup parentiu 1 i 2

    If NTRAMS12 = 1 Then
      X(i1, 7) = bl * TIPUS12(1)
    Else
      it = NTRAMS12
      If bl <= T12(1) Then X(i1, 8) = bl * TIPUS12(1)
      If NTRAMS12 > 2 Then
        For j1 = 2 To NTRAMS12 - 1
          If bl > T12(j1 - 1) And bl <= T12(j1) Then X(i1, 7) = tt12(j1 - 1) + ((bl - T12(j1 - 1)) *
TIPUS12(j1))
        Next j1
      End If
      If bl > T12(it - 1) Then X(i1, 7) = tt12(it - 1) + ((bl - T12(it - 1)) * TIPUS12(it))
    End If

  ElseIf V09 >= 3 Then   'tarifa grup parentiu 3 i 4

    If NTRAMS34 = 1 Then
      X(i1, 7) = bl * TIPUS34(1)
    Else
      it = NTRAMS34
      If bl <= T34(1) Then X(i1, 8) = bl * TIPUS34(1)
      If NTRAMS34 > 2 Then
        For j1 = 2 To NTRAMS34 - 1
          If bl > T34(j1 - 1) And bl <= T34(j1) Then X(i1, 7) = tt34(j1 - 1) + ((bl - T34(j1 - 1)) *
TIPUS34(j1))
        Next j1
      End If
      If bl > T34(it - 1) Then X(i1, 7) = tt34(it - 1) + ((bl - T34(it - 1)) * TIPUS34(it))
    End If

  End If

.....
'Determina la quota per a ingressar amb els coeficients correctors'
.....

.....
'AIXÒ S'HA D'ARREGLAR
.....

X(i1, 8) = X(i1, 7) * COEF(V09, v16)

```

```

End If

.....
'Correcció de la tarifa pel tipus efectiu mitjà
.....

If trib = 2 And V57 <> 0 Then
  X(i1, 8) = V56 * Application.WorksheetFunction.Floor(X(i1, 8) / V57, 0.0001)
  X(i1, 7) = X(i1, 8) / COEF(V09, v16)
End If

.....
'Aplicació de les bonificacions a la tarifa
.....

If v10 = "Fill o adoptat" Then X(i1, 9) = X(i1, 8) * BONIF(1, V09)
If v10 = "Adoptat" Then X(i1, 9) = X(i1, 8) * BONIF(2, V09)
If v10 = "Descendent consanguini" Then X(i1, 9) = X(i1, 8) * BONIF(3, V09)
If v10 = "Altre descendent consanguini o assimilat" Then X(i1, 9) = X(i1, 8) * BONIF(4, V09)
If v10 = "Cònjuge" Then X(i1, 9) = X(i1, 8) * BONIF(5, 1)
If v10 = "Unió estable de parella" Then X(i1, 9) = X(i1, 8) * BONIF(6, 1)
If v10 = "Ascendent consanguini" Then X(i1, 9) = X(i1, 8) * BONIF(7, 1)
If v10 = "Adoptant" Then X(i1, 9) = X(i1, 8) * BONIF(8, 1)
If v10 = "Situació de convivència d'ajuda mútua" Then X(i1, 9) = X(i1, 8) * BONIF(9, 1)
If v10 = "Col·lateral consanguini de 2n grau" Then X(i1, 9) = X(i1, 8) * BONIF(10, 1)
If v10 = "Col·lateral consanguini de 3r grau" Then X(i1, 9) = X(i1, 8) * BONIF(11, 1)
If v10 = "Descendent per afinitat" Then X(i1, 9) = X(i1, 8) * BONIF(12, 1)
If v10 = "Ascendent per afinitat" Then X(i1, 9) = X(i1, 8) * BONIF(13, 1)
If v10 = "Col·lateral per afinitat de 2n grau" Then X(i1, 9) = X(i1, 8) * BONIF(14, 1)
If v10 = "Col·lateral per afinitat de 3n grau" Then X(i1, 9) = X(i1, 8) * BONIF(15, 1)
If v10 = "Col·lateral de 4t grau" Then X(i1, 9) = X(i1, 8) * BONIF(16, 1)
If v10 = "Sense parentiu" Then X(i1, 9) = X(i1, 8) * BONIF(17, 1)

X(i1, 10) = X(i1, 8) - X(i1, 9)

For j1 = 1 To 10
  SUMA(j1) = SUMA(j1) + (X(i1, j1) * X(i1, 11))
Next j1
SUMA(11) = SUMA(11) + X(i1, 11)
NT = NT + X(i1, 11)

.....
'Determina les variables per al càlcul dels "no-pagadors"
.....

spes2 = spes2 + (X(i1, 11) * X(i1, 11))
vpag(1) = vpag(1) + (i_pag * X(i1, 11))
vpag(2) = vpag(2) + (i_pag * X(i1, 11) * X(i1, 11))
vpag(3) = vpag(3) + (i_pag * X(i1, 11) * X(i1, 11))

.....
'Determina les variables per al càlcul descriptiu'
.....

If X(i1, 1) <> 0 Then 'Base imposable
  vy(1, 1) = vy(1, 1) + (X(i1, 1) * X(i1, 11))
  vy(1, 2) = vy(1, 2) + (X(i1, 1) * X(i1, 11) * X(i1, 11))
  vy(1, 3) = vy(1, 3) + (X(i1, 1) * X(i1, 1) * X(i1, 11) * X(i1, 11))
  vy(1, 4) = vy(1, 4) + 1
  vy(1, 5) = vy(1, 5) + X(i1, 11)
  vy(1, 6) = vy(1, 6) + (X(i1, 11) * X(i1, 11))
End If
If X(i1, 2) <> 0 Then 'Base liquidable
  vy(2, 1) = vy(2, 1) + (X(i1, 2) * X(i1, 11))
  vy(2, 2) = vy(2, 2) + (X(i1, 2) * X(i1, 11) * X(i1, 11))
  vy(2, 3) = vy(2, 3) + (X(i1, 2) * X(i1, 2) * X(i1, 11) * X(i1, 11))
  vy(2, 4) = vy(2, 4) + 1
  vy(2, 5) = vy(2, 5) + X(i1, 11)
  vy(2, 6) = vy(2, 6) + (X(i1, 11) * X(i1, 11))
End If
If X(i1, 3) <> 0 Then
  If V09 = 1 Then 'Reducció parentiu i adicional grup I
    vy(3, 1) = vy(3, 1) + (X(i1, 3) * X(i1, 11))
    vy(3, 2) = vy(3, 2) + (X(i1, 3) * X(i1, 11) * X(i1, 11))
    vy(3, 3) = vy(3, 3) + (X(i1, 3) * X(i1, 3) * X(i1, 11) * X(i1, 11))
    vy(3, 4) = vy(3, 4) + 1
    vy(3, 5) = vy(3, 5) + X(i1, 11)
    vy(3, 6) = vy(3, 6) + (X(i1, 11) * X(i1, 11))
  ElseIf V09 = 2 Then 'Reducció parentiu i adicional grup II
    If v10 = "Cònjuge" Or v10 = "Unió estable de parella" Then
      vy(4, 1) = vy(4, 1) + (X(i1, 3) * X(i1, 11))
      vy(4, 2) = vy(4, 2) + (X(i1, 3) * X(i1, 11) * X(i1, 11))
      vy(4, 3) = vy(4, 3) + (X(i1, 3) * X(i1, 3) * X(i1, 11) * X(i1, 11))

```

```

vy(4, 4) = vy(4, 4) + 1
vy(4, 5) = vy(4, 5) + X(il, 11)
vy(4, 6) = vy(4, 6) + (X(il, 11) * X(il, 11))
ElseIf v10 = "Adoptat" Or v10 = "Fill o adoptat" Then
vy(5, 1) = vy(5, 1) + (X(il, 3) * X(il, 11))
vy(5, 2) = vy(5, 2) + (X(il, 3) * X(il, 11) * X(il, 11))
vy(5, 3) = vy(5, 3) + (X(il, 3) * X(il, 3) * X(il, 11) * X(il, 11))
vy(5, 4) = vy(5, 4) + 1
vy(5, 5) = vy(5, 5) + X(il, 11)
vy(5, 6) = vy(5, 6) + (X(il, 11) * X(il, 11))
ElseIf v10 = "Altres descendents consanguinis o assimilats" Or v10 = "Descendents consanguinis" Then
vy(6, 1) = vy(6, 1) + (X(il, 3) * X(il, 11))
vy(6, 2) = vy(6, 2) + (X(il, 3) * X(il, 11) * X(il, 11))
vy(6, 3) = vy(6, 3) + (X(il, 3) * X(il, 3) * X(il, 11) * X(il, 11))
vy(6, 4) = vy(6, 4) + 1
vy(6, 5) = vy(6, 5) + X(il, 11)
vy(6, 6) = vy(6, 6) + (X(il, 11) * X(il, 11))
ElseIf v10 = "Adoptant" Or v10 = "Ascendent consanguini" Then
vy(7, 1) = vy(7, 1) + (X(il, 3) * X(il, 11))
vy(7, 2) = vy(7, 2) + (X(il, 3) * X(il, 11) * X(il, 11))
vy(7, 3) = vy(7, 3) + (X(il, 3) * X(il, 3) * X(il, 11) * X(il, 11))
vy(7, 4) = vy(7, 4) + 1
vy(7, 5) = vy(7, 5) + X(il, 11)
vy(7, 6) = vy(7, 6) + (X(il, 11) * X(il, 11))
End If
ElseIf V09 = 3 Then      'Reducció parentiu i adicional grup III
vy(8, 1) = vy(8, 1) + (X(il, 3) * X(il, 11))
vy(8, 2) = vy(8, 2) + (X(il, 3) * X(il, 11) * X(il, 11))
vy(8, 3) = vy(8, 3) + (X(il, 3) * X(il, 3) * X(il, 11) * X(il, 11))
vy(8, 4) = vy(8, 4) + 1
vy(8, 5) = vy(8, 5) + X(il, 11)
vy(8, 6) = vy(8, 6) + (X(il, 11) * X(il, 11))
ElseIf V09 = 4 Then      'Reducció parentiu i adicional grup IV
vy(9, 1) = vy(9, 1) + (X(il, 3) * X(il, 11))
vy(9, 2) = vy(9, 2) + (X(il, 3) * X(il, 11) * X(il, 11))
vy(9, 3) = vy(9, 3) + (X(il, 3) * X(il, 3) * X(il, 11) * X(il, 11))
vy(9, 4) = vy(9, 4) + 1
vy(9, 5) = vy(9, 5) + X(il, 11)
vy(9, 6) = vy(9, 6) + (X(il, 11) * X(il, 11))
End If
vy(10, 1) = vy(10, 1) + (X(il, 3) * X(il, 11))
vy(10, 2) = vy(10, 2) + (X(il, 3) * X(il, 11) * X(il, 11))
vy(10, 3) = vy(10, 3) + (X(il, 3) * X(il, 3) * X(il, 11) * X(il, 11))
vy(10, 4) = vy(10, 4) + 1
vy(10, 5) = vy(10, 5) + X(il, 11)
vy(10, 6) = vy(10, 6) + (X(il, 11) * X(il, 11))
End If
If X(il, 4) <> 0 Then      'Reduccions personals
If v30 <> 0 Then          'Reducció discapacitat
vy(11, 1) = vy(11, 1) + (v30 * X(il, 11))
vy(11, 2) = vy(11, 2) + (v30 * X(il, 11) * X(il, 11))
vy(11, 3) = vy(11, 3) + (v30 * v30 * X(il, 11) * X(il, 11))
vy(11, 4) = vy(11, 4) + 1
vy(11, 5) = vy(11, 5) + X(il, 11)
vy(11, 6) = vy(11, 6) + (X(il, 11) * X(il, 11))
End If
If v32 <> 0 Then          'Reducció Edat
vy(12, 1) = vy(12, 1) + (v32 * X(il, 11))
vy(12, 2) = vy(12, 2) + (v32 * X(il, 11) * X(il, 11))
vy(12, 3) = vy(12, 3) + (v32 * v32 * X(il, 11) * X(il, 11))
vy(12, 4) = vy(12, 4) + 1
vy(12, 5) = vy(12, 5) + X(il, 11)
vy(12, 6) = vy(12, 6) + (X(il, 11) * X(il, 11))
End If
vy(13, 1) = vy(13, 1) + (X(il, 4) * X(il, 11))
vy(13, 2) = vy(13, 2) + (X(il, 4) * X(il, 11) * X(il, 11))
vy(13, 3) = vy(13, 3) + (X(il, 4) * X(il, 4) * X(il, 11) * X(il, 11))
vy(13, 4) = vy(13, 4) + 1
vy(13, 5) = vy(13, 5) + X(il, 11)
vy(13, 6) = vy(13, 6) + (X(il, 11) * X(il, 11))
End If
If X(il, 5) <> 0 Then      'Reducció habitatge
vy(14, 1) = vy(14, 1) + (X(il, 5) * X(il, 11))
vy(14, 2) = vy(14, 2) + (X(il, 5) * X(il, 11) * X(il, 11))
vy(14, 3) = vy(14, 3) + (X(il, 5) * X(il, 5) * X(il, 11) * X(il, 11))
vy(14, 4) = vy(14, 4) + 1
vy(14, 5) = vy(14, 5) + X(il, 11)
vy(14, 6) = vy(14, 6) + (X(il, 11) * X(il, 11))
End If
If X(il, 6) <> 0 Then      'Resta reduccions
vy(15, 1) = vy(15, 1) + (X(il, 6) * X(il, 11))
vy(15, 2) = vy(15, 2) + (X(il, 6) * X(il, 11) * X(il, 11))
vy(15, 3) = vy(15, 3) + (X(il, 6) * X(il, 6) * X(il, 11) * X(il, 11))

```

```

    vy(15, 4) = vy(15, 4) + 1
    vy(15, 5) = vy(15, 5) + X(il, 11)
    vy(15, 6) = vy(15, 6) + (X(il, 11) * X(il, 11))
End If
If X(il, 3) + X(il, 4) + X(il, 5) + X(il, 6) <> 0 Then 'Total reduccions
    aux = X(il, 3) + X(il, 4) + X(il, 5) + X(il, 6)
    vy(16, 1) = vy(16, 1) + (aux * X(il, 11))
    vy(16, 2) = vy(16, 2) + (aux * X(il, 11) * X(il, 11))
    vy(16, 3) = vy(16, 3) + (aux * aux * X(il, 11) * X(il, 11))
    vy(16, 4) = vy(16, 4) + 1
    vy(16, 5) = vy(16, 5) + X(il, 11)
    vy(16, 6) = vy(16, 6) + (X(il, 11) * X(il, 11))
End If
If X(il, 7) <> 0 Then 'Quota íntegra
    vy(17, 1) = vy(17, 1) + (X(il, 7) * X(il, 11))
    vy(17, 2) = vy(17, 2) + (X(il, 7) * X(il, 11) * X(il, 11))
    vy(17, 3) = vy(17, 3) + (X(il, 7) * X(il, 7) * X(il, 11) * X(il, 11))
    vy(17, 4) = vy(17, 4) + 1
    vy(17, 5) = vy(17, 5) + X(il, 11)
    vy(17, 6) = vy(17, 6) + (X(il, 11) * X(il, 11))
End If
If X(il, 8) <> 0 Then 'Quota tributària abans bonificació
    vy(18, 1) = vy(18, 1) + (X(il, 8) * X(il, 11))
    vy(18, 2) = vy(18, 2) + (X(il, 8) * X(il, 11) * X(il, 11))
    vy(18, 3) = vy(18, 3) + (X(il, 8) * X(il, 8) * X(il, 11) * X(il, 11))
    vy(18, 4) = vy(18, 4) + 1
    vy(18, 5) = vy(18, 5) + X(il, 11)
    vy(18, 6) = vy(18, 6) + (X(il, 11) * X(il, 11))
End If
If X(il, 9) <> 0 Then 'Bonificació
    vy(19, 1) = vy(19, 1) + (X(il, 9) * X(il, 11))
    vy(19, 2) = vy(19, 2) + (X(il, 9) * X(il, 11) * X(il, 11))
    vy(19, 3) = vy(19, 3) + (X(il, 9) * X(il, 9) * X(il, 11) * X(il, 11))
    vy(19, 4) = vy(19, 4) + 1
    vy(19, 5) = vy(19, 5) + X(il, 11)
    vy(19, 6) = vy(19, 6) + (X(il, 11) * X(il, 11))
End If
If X(il, 10) <> 0 Then 'Quota tributària
    vy(20, 1) = vy(20, 1) + (X(il, 10) * X(il, 11))
    vy(20, 2) = vy(20, 2) + (X(il, 10) * X(il, 11) * X(il, 11))
    vy(20, 3) = vy(20, 3) + (X(il, 10) * X(il, 10) * X(il, 11) * X(il, 11))
    vy(20, 4) = vy(20, 4) + 1
    vy(20, 5) = vy(20, 5) + X(il, 11)
    vy(20, 6) = vy(20, 6) + (X(il, 11) * X(il, 11))
End If

If j2 <= 10 Then
    If il / N >= j2 / 10 Then
        Application.ScreenUpdating = True
        Application.StatusBar = "Processat " & (j2 * 8) & "%"
        Application.ScreenUpdating = False
        j2 = j2 + 1
    End If
End If

Next il
Close #1

ReDim MITJANA(1 To 11), PAG(1 To 3)

For j1 = 1 To 10
    MITJANA(j1) = SUMA(j1) / NT
Next j1
MITJANA(11) = NT / N

.....
'Guarda(Descriptiu) a VT'
.....

ReDim VT(1 To 78, 12)
VT(1, 0) = "Descriptiu"
For j1 = 1 To 20
    If vy(j1, 4) <> 0 Then
        VT(j1, 1) = vy(j1, 1) / vy(j1, 5)
        VT(j1, 2) = (Sqr(vy(j1, 3) - (2 * VT(j1, 1) * vy(j1, 2))) + ((VT(j1, 1) ^ 2) * vy(j1, 6))) / vy(j1, 5)
        VT(j1, 3) = VT(j1, 1) - 1.95996 * VT(j1, 2)
        VT(j1, 4) = VT(j1, 1) + 1.95996 * VT(j1, 2)
        VT(j1, 5) = vy(j1, 1) / 1000000
        VT(j1, 6) = Sqr(vy(j1, 3) - ((vy(j1, 1) ^ 2) / vy(j1, 4))) / 1000000
        VT(j1, 7) = VT(j1, 5) - 1.95996 * VT(j1, 6)
        VT(j1, 8) = VT(j1, 5) + 1.95996 * VT(j1, 6)
    End If
Next j1

```

```

PAG(1) = vpag(1) / NT
aux = (Sqr(vpag(3) - (2 * PAG(1) * vpag(2)) + ((PAG(1) ^ 2) * spes2)) / NT)
PAG(2) = PAG(1) - 1.95996 * aux
PAG(3) = PAG(1) + 1.95996 * aux

Call IS_21ORDENA(0)
Application.ScreenUpdating = True
Application.StatusBar = "Processat 85%"
Application.ScreenUpdating = False

Call IS_22DECILS_GP_INDEXS(11, UBound(X, 2))
Application.ScreenUpdating = True
Application.StatusBar = "Processat 95%"
Application.ScreenUpdating = False

temps = Timer - temps

End Sub
Private Sub IS_21ORDENA(opcio As Integer)

Dim il As Long, it As Integer
ReDim y(1 To N)

For it = 1 To 2                                'ord. 1==>BI ord. 2==>BL

    For il = 1 To N
        y(il) = X(il, it) + ((il / N) ^ 0.001) 'Suma quantitat per eliminar repeticions
        IND(il, it) = il
    Next il

    Call COMUNS_2ORDENA_AUX(1, N, it)           'Crida a la rutina per a ordenar

Next it

End Sub
Private Sub IS_22DECILS_GP_INDEXS(pes, p2)

'pes=posicio pes (11)
'UBound(X, 2)=nombre variables

Dim axx_b, axx_p, il As Long, it As Integer, j1 As Integer

ReDim p(1 To 12, 2), xx_b(1 To N, 1 To 2), xx_p(1 To N) As Double

.....
'Calcula: xx_b(1 to N, 1 to 2) = (BI, BL * factor) acumulades / s(variables * factor)
'Calcula: xx_p(1 to N)           = població acumulada/NT
.....

For it = 1 To 2
    For j1 = 1 To 2
        If SUMA(j1) <> 0 Then
            axx_b = 0
            For il = 1 To N
                axx_b = axx_b + (X(IND(il, it), j1) * X(IND(il, it), pes))
                xx_b(il, j1) = axx_b / SUMA(j1) 'BI, BL
            Next il
        End If
    Next j1
    axx_p = 0
    For il = 1 To N
        axx_p = axx_p + X(IND(il, it), pes)
        xx_p(il) = axx_p / NT                'pes
    Next il

    If it = 1 Then Call IS_23DECILS(p, pes, xx_b, xx_p)    'DECILS
    Call IS_24INDEXS(it, pes, xx_b, xx_p)                'INDEXS

Next it

End Sub
Private Sub IS_23DECILS(p, pes, xx_b, xx_p)

Dim axx_r, il As Long, i2 As Long, j1 As Integer, k1 As Integer, l1 As Long

ReDim ds((pes - 1) * 2, 12), ts(2, 12), xx_r(1 To N, 1 To pes - 3) As Double

.....
'Calcula: xx_r(1 to N, 1 to pes-3)=(resta * factor) acumulades / s(variables * factor)
.....

For j1 = 1 To pes - 3

```

```

If SUMA(j1 + 2) <> 0 Then
  axx_r = 0
  For il = 1 To N
    axx_r = axx_r + (X(IND(il, 1), j1 + 2) * X(IND(il, 1), pes))
    xx_r(il, j1) = axx_r / SUMA(j1 + 2) 'resta variables
  Next il
End If
Next j1

For k1 = 1 To 12
  p(k1, 1) = IIf(k1 < 10, k1 / 10, IIf(k1 = 10, 0.95, IIf(k1 = 11, 0.98, 1)))
  p(k1, 2) = IIf(k1 < 10, 0.1, IIf(k1 = 10, 0.05, IIf(k1 = 11, 0.03, 0.02)))
Next k1

i2 = 1
For k1 = 1 To 11
  For il = i2 To N
    If xx_p(il) >= p(k1, 1) Then
      p(k1, 0) = il
      i2 = il
      Exit For
    End If
  Next il
Next k1
p(12, 0) = N

'.....
'DECILS (1a dimensió parell decil acumulat)'
'.....
'ds( 1, 1 to 12)=Base imposable
'ds( 3, 1 to 12)=Base liquidable
'.....
'ds(13, 1 to 12)=Quota íntegra
'ds(19, 1 to 12)=Quota tributària
'.....

For k1 = 1 To 12
  l1 = p(k1, 0)
  For j1 = 1 To 2
    ds(2 * j1, k1) = xx_b(l1, j1)
    If k1 = 1 Then ds(2 * j1 - 1, k1) = ds(2 * j1, k1)
    If k1 > 1 Then ds(2 * j1 - 1, k1) = ds(2 * j1, k1) - ds(2 * j1, k1 - 1)
  Next j1
  For j1 = 3 To pes - 1
    ds(2 * j1, k1) = xx_r(l1, j1 - 2)
    If k1 = 1 Then ds(2 * j1 - 1, k1) = ds(2 * j1, k1)
    If k1 > 1 Then ds(2 * j1 - 1, k1) = ds(2 * j1, k1) - ds(2 * j1, k1 - 1)
  Next j1
Next k1

'tipus efectius
'ts( 1,1 to 12)= QT s/ BI'
'ts( 2,1 to 12)= QT s/ BL'

For k1 = 1 To 12
  If SUMA(1) <> 0 And ds(1, k1) <> 0 Then
    ts(1, k1) = (ds(((pes - 1) * 2) - 1, k1) * SUMA(pes - 1)) / (ds(1, k1) * SUMA(1))
  End If
  If SUMA(2) <> 0 And ds(3, k1) <> 0 Then
    ts(2, k1) = (ds(((pes - 1) * 2) - 1, k1) * SUMA(pes - 1)) / (ds(3, k1) * SUMA(2))
  End If
Next k1

'Guarda límits i mitjanes, decils i tipus a VT

VT(21, 0) = "Límits i mitjanes"
VT(23, 0) = "Decils"
VT(43, 0) = "Tipus"
For k1 = 1 To 12
  VT(21, k1) = (X(IND(p(k1, 0), 1), 1))
  VT(22, k1) = (ds(1, k1) * SUMA(1) / (NT * IIf(k1 < 10, 0.1, IIf(k1 = 10, 0.05, IIf(k1 = 11, 0.03, 0.02)))))
  For j1 = 1 To 20
    VT(22 + j1, k1) = ds(j1, k1)
  Next j1
  VT(43, k1) = ts(1, k1)
  VT(44, k1) = ts(2, k1)
Next k1

```

```

End Sub
Private Sub IS_24INDEXS(it, pes, xx_b, xx_p)

.....
'INDEXS 30
.....
'Gini: g 2
.....
'Concentració: c 7
'Kakwani: k 7
'Suits: s 7
'Efecte Redistributiu: e 7
.....

Dim aconc, aefre, agini, asuit, daux(1 To 4), _
    il As Long, j1 As Integer, k1 As Integer, l1 As Integer, sxx_b As Double

Dim g As Double
ReDim c(1 To 8), k(1 To 8), s(1 To 8), e(1 To 8) As Double

agini = 0
sxx_b = 0
If SUMA(it) <> 0 Then

    For il = 1 To N
        daux(1) = X(IND(il, it), it) - MITJANA(it)
        daux(2) = xx_p(il) - MITJANA(pes)
        daux(3) = X(IND(il, it), pes)
        agini = agini + (daux(1) * daux(2) * daux(3))
        sxx_b = sxx_b + xx_b(il, it) 's.acum. BII,BIT,BLT
    Next il

    If agini <> 0 Then g = 2 / MITJANA(it) * (agini / NT) 'gini

End If

For j1 = 1 To pes - 3

    aconc = 0
    aefre = 0
    asuit = 0
    If SUMA(j1 + 2) <> 0 Then

        For il = 1 To N
            daux(1) = X(IND(il, it), j1 + 2) - MITJANA(j1 + 2)
            daux(2) = xx_p(il) - MITJANA(pes)
            daux(3) = X(IND(il, it), pes)
            daux(4) = xx_b(il, it) - (sxx_b / N)
            aconc = aconc + (daux(1) * daux(2) * daux(3))
            asuit = asuit + (daux(1) * daux(4) * daux(3))
        Next il

        If aconc <> 0 Then c(j1) = 2 / MITJANA(j1 + 2) * (aconc / NT) 'concentració
        k(j1) = c(j1) - g 'kakwani
        s(j1) = (2 * (asuit / NT) / MITJANA(j1 + 2)) - g 'suits

        If SUMA(it) <> 0 Then aefre = SUMA(j1 + 2) / SUMA(it)
        e(j1) = (aefre / (1 - aefre)) * k(j1) 'ef red.

    End If
Next j1

.....
'Guarda els resultats(Índexs) a VT'
.....

If it = 1 Then VT(45, 0) = "Índexs"
VT(44 + it, it) = g
For k1 = 1 To 4
    For j1 = 1 To 8
        l1 = (8 * (k1 - 1)) + j1
        If k1 = 1 Then VT(46 + l1, it) = c(j1)
        If k1 = 2 Then VT(46 + l1, it) = k(j1)
        If k1 = 3 Then VT(46 + l1, it) = s(j1)
        If k1 = 4 Then VT(46 + l1, it) = e(j1)
    Next j1
Next k1

End Sub
Private Sub IS_25GP(p, pes)

Dim axx_gp(1 To 4), il As Long, j1 As Integer, k1 As Integer

```

```

ReDim gp(1 To 6, 1 To 12), xx_gp(1 To N, 1 To 4), y(4, 12) As Double

.....
'Calcula: xx_gp(1 to N, pes + 1 to pes + 4) = (GP * factor) acumulades
.....

For j1 = 1 To 4
'   If SUMA(j1) <> 0 Then
       axx_gp(j1) = 0
       For i1 = 1 To N
           axx_gp(j1) = axx_gp(j1) + (X(IND(i1, 1), j1 + pes) * X(IND(i1, 1), pes))
           xx_gp(i1, j1) = axx_gp(j1)
       Next i1
'   End If
Next j1

For k1 = 1 To 12
    i1 = p(k1, 0)
    For j1 = 1 To 4
        y(j1, k1) = xx_gp(i1, j1)
        gp(IIf(j1 <= 2, j1, j1 + 1), k1) = y(j1, k1) - y(j1, k1 - 1)
    Next j1
Next k1

For k1 = 1 To 12
    For j1 = 3 To 6 Step 3
        If gp(j1 - 2, k1) <> 0 Then gp(j1, k1) = gp(j1 - 1, k1) / gp(j1 - 2, k1) Else gp(j1, k1) = 0
    Next j1
    For j1 = 1 To 5
        If j1 <> 3 Then gp(j1, k1) = gp(j1, k1) * IIf(j1 = 1 Or j1 = 4, 1 / (p(k1, 2) * NT), 0.001)
    Next j1
Next k1

For k1 = 1 To 12
    For j1 = 1 To 4 Step 3
        If gp(j1, k1) >= 0.995 Then gp(j1, k1) = 1
        If gp(j1, k1) <= 0.005 Then gp(j1, k1) = 0
    Next j1
'   gp(4, k1) = -gp(4, k1)
Next k1

.....
'Guarda(Guanyadors) a VT
.....

VT(71, 0) = "Guanyadors"
For k1 = 1 To 12
    For j1 = 1 To 6
        VT(70 + j1, k1) = IIf(j1 = 4, -1, 1) * gp(j1, k1)
    Next j1
Next k1

End Sub
Private Sub IS_30COMPARACIO(opcio As Integer)

Dim aux, i1 As Long, j1 As Integer, k1 As Integer
ReDim ds(1 To 4, 1 To 12), gp(1 To 6, 1 To 12), s(1 To 7) As Double

Open NOM_IS_SIMUL & "GP" & ANOIS & "_" & Trim(Str(COMP(1))) & ".dat" For Input As #1
Open NOM_IS_SIMUL & "GP" & ANOIS & "_" & Trim(Str(COMP(2))) & ".dat" For Input As #2

Input #1, N
Input #2, N

ReDim X(1 To N, 1 To 7), IND(1 To N)

For i1 = 1 To N
    Input #1, IND(i1), X(i1, 1), X(i1, 7)
    Input #2, aux, X(i1, 2), aux
    aux = X(i1, 1) - X(i1, 2)
    If Abs(aux) > 1 Then
        If aux > 0 Then
            X(i1, 3) = 1
            X(i1, 5) = 0
        Else
            X(i1, 3) = 0
            X(i1, 5) = 1
        End If
        X(i1, 4) = aux * X(i1, 3)
        X(i1, 6) = aux * X(i1, 5)
    End If
    For j1 = 1 To 6
        s(j1) = s(j1) + (X(i1, j1) * X(i1, 7))
    Next j1

```

```

      s(7) = s(7) + X(i1, 7)
Next i1
Close #1
Close #2

Call IS_31COMPARACIO_DECILS_GP(ds, gp, s)
Call IS_32COMPARACIO_ESCRIPTURA(ds, gp, s(1), s(2), s(7))
Call COMUNS_5IMPRESSIO("IS", "G-P")

End Sub
Private Sub IS_31COMPARACIO_DECILS_GP(ds, gp, s)

Dim aux, i1 As Long, i2 As Long, j1 As Integer, k1 As Integer, l1 As Long
ReDim p(1 To 12, 2), xx(1 To N, 1 To 7), y(4, 12) As Double

.....
'Calcula xx(1 to N, 1 to 6)=(variables * factor) acumulades / s(variables * factor)
'      xx(1 to N, 7)      = població acumulada/s(7)      s(7)=NT
.....

aux = 0
For j1 = 1 To 6
  If s(j1) <> 0 Then
    aux = 0
    For i1 = 1 To N
      aux = aux + (X(IND(i1), j1) * X(IND(i1), 7))
      xx(i1, j1) = aux / IIf(j1 <= 2, s(j1), 1)
    Next i1
  End If
Next j1

aux = 0
For i1 = 1 To N
  aux = aux + X(IND(i1), 7)
  xx(i1, 7) = aux / s(7)
Next i1

For j1 = 1 To 12
  p(j1, 1) = IIf(j1 < 10, j1 / 10, IIf(j1 = 10, 0.95, IIf(j1 = 11, 0.98, 1)))
  p(j1, 2) = IIf(j1 < 10, 0.1, IIf(j1 = 10, 0.05, IIf(j1 = 11, 0.03, 0.02)))
Next j1

i2 = 1
For j1 = 1 To 11
  For i1 = i2 To N
    If xx(i1, 7) >= p(j1, 1) Then
      p(j1, 0) = i1
      i2 = i1
      Exit For
    End If
  Next i1
Next j1
p(12, 0) = N

.....
'DECILS'
.....

For k1 = 1 To 12
  l1 = p(k1, 0)
  For j1 = 1 To 2
    ds(2 * j1, k1) = xx(l1, j1)
    If k1 = 1 Then ds(2 * j1 - 1, k1) = ds(2 * j1, k1)
    If k1 > 1 Then ds(2 * j1 - 1, k1) = ds(2 * j1, k1) - ds(2 * j1, k1 - 1)
  Next j1
Next k1

.....
'GUANYADORS-PERDEDORS'
.....

For k1 = 1 To 12
  l1 = p(k1, 0)
  For j1 = 1 To 4
    y(j1, k1) = xx(l1, j1 + 2)
    gp(IIf(j1 <= 2, j1, j1 + 1), k1) = y(j1, k1) - y(j1, k1 - 1)
  Next j1
Next k1
For j1 = 1 To 12
  For k1 = 3 To 6 Step 3
    If gp(k1 - 2, j1) <> 0 Then gp(k1, j1) = gp(k1 - 1, j1) / gp(k1 - 2, j1) Else gp(k1, j1) = 0
  Next k1
  For k1 = 1 To 5

```

```

    If k1 <> 3 Then gp(k1, j1) = gp(k1, j1) * IIf(k1 = 1 Or k1 = 4, 1 / (p(j1, 2) * s(7)), 0.001)
Next k1
Next j1
For j1 = 1 To 12
    For k1 = 1 To 4 Step 3
        If gp(k1, j1) >= 0.995 Then gp(k1, j1) = 1
        If gp(k1, j1) <= 0.005 Then gp(k1, j1) = 0
    Next k1
    gp(4, j1) = -gp(4, j1)
Next j1

```

End Sub

Private Sub IS_32COMPARACIO_ESCRIPTURA(ds, gp, s1, s2, s7)

Dim avisgp As Boolean, nom As String, i1 As Integer, llibre As Integer, nota As String, _
r_f(1 To 2, 1 To 3) As Range

```

.....
'r_f(1 to 2, 1)==> formats del llibre "FORMATS", full "IS"
'r_f(1 to 2, 2)==> formats del llibre "SIMCAT", full "(G-P)"
'r_f(1 to 2, 3)==> formats del llibre "SIMCAT", full "(G-P)" (només valors)'
.....

```

Application.ScreenUpdating = False

nom = ThisWorkbook.Path & "\DADES\Formats.XLSX"

Set LLIBRE_FORMATS = Workbooks.Open(nom)

llibre = Workbooks.Count

Workbooks(llibre).Activate 'llibre "FORMATS"

Sheets("IS").Activate

Set r_f(1, 1) = Range(Cells(146, 1), Cells(154, 15)) 'Decils

Set r_f(2, 1) = Range(Cells(137, 1), Cells(144, 15)) 'Guanyadors

```

.....
'Crea el full de càlcul on escriu els resultats definitius'
.....

```

ThisWorkbook.Activate 'llibre "SIMCAT"

Call COMUNS_ONOMSFULLS("IS(G-P)")

ActiveWorkbook.Unprotect (SECRET)

Sheets("SIMULADOR REFORMES IMPOSITIVES").Activate

Sheets("IS(G-P)").Activate

```

.....
'Configura el rang d'escriptura'
.....

```

With Range(Cells(1, 1), Cells(66, 15))

.ColumnWidth = 6.43

With .Font

.Name = "Arial"

.Size = 7

End With

.HorizontalAlignment = xlCenter

.Interior.ColorIndex = 2

.RowHeight = 11

End With

With Range(Cells(1, 1), Cells(2, 1))

.Font.Bold = True

.Font.Size = 10

.HorizontalAlignment = xlLeft

.RowHeight = 14

End With

Cells(1, 1).Value = "IMPOST DE SUCCESIONS"

Cells(2, 1).Value = "COMPARACIÓ SIMULACIÓ-" & COMP(1) & " vs. SIMULACIÓ-" & COMP(2) & _
" (Base de dades: " & ANOIS & ")"

Set r_f(1, 2) = Range(Cells(3, 1), Cells(11, 15)) 'Decils Rangs d'escriptura

Set r_f(2, 2) = Range(Cells(13, 1), Cells(20, 15)) 'Guanyadors Rangs d'escriptura

Set r_f(1, 3) = Range(Cells(6, 4), Cells(9, 15)) 'Decils Rangs de valors

Set r_f(2, 3) = Range(Cells(15, 4), Cells(20, 15)) 'Guanyadors Rangs de valors

```

.....
'Escriu els resultats numèrics'
.....

```

```

r_f(1, 1).Copy Destination:=r_f(1, 2)
r_f(1, 2).Rows(4).Columns(1).Value = "Quota SIMULACIÓ-" & COMP(1)
r_f(1, 2).Rows(6).Columns(1).Value = "Quota SIMULACIÓ-" & COMP(2)
r_f(1, 2).Rows(8).Columns(2).Value = "SIMULACIÓ-" & COMP(1)
r_f(1, 2).Rows(8).Columns(4).Value = s1
r_f(1, 2).Rows(9).Columns(4).Value = s2
If s1 = s2 Then
    nota = "Neutral"
ElseIf s1 > s2 Then
    nota = "Pèrdua en recaptació"
Else
    nota = "Guany en recaptació"
End If
r_f(1, 2).Rows(8).Columns(6).Value = nota
If nota <> "Neutral" Then
    r_f(1, 2).Rows(8).Columns(8).Value = s2 - s1
Else
    With Range(Cells(10, 8), Cells(11, 13))
        .Interior.Pattern = xlCrissCross
        .MergeCells = True
        .Value = ""
    End With
End If
r_f(1, 2).Rows(8).Columns(14).Value = s7
r_f(1, 2).Rows(9).Columns(2).Value = "SIMULACIÓ-" & COMP(2)
r_f(2, 1).Copy Destination:=r_f(2, 2)
r_f(1, 3).Value = ds

r_f(2, 3).Value = gp
r_f(2, 3).ShrinkToFit = True

LLIBRE_FORMATS.Close

'Gràfics G-P'

For il = 1 To 12
    If Abs(r_f(2, 3).Rows(1).Columns(il)) > 0.001 Or _
        Abs(r_f(2, 3).Rows(4).Columns(il)) > 0.001 Then
        avisgp = True
        Exit For
    End If
Next il

If avisgp Then

    Dim r_gp(1 To 2, 1 To 4) As Range

    Set r_gp(1, 1) = r_f(1, 3).Rows(1) 'Quota Simulació-1'
    Set r_gp(2, 1) = r_f(1, 3).Rows(3) 'Quota Simulació-2'
    Set r_gp(1, 2) = r_f(2, 3).Rows(1) '% guanyadors'
    Set r_gp(2, 2) = r_f(2, 3).Rows(4) '% perdedors'
    Set r_gp(1, 3) = r_f(2, 3).Rows(2) 'Total guanys'
    Set r_gp(2, 3) = r_f(2, 3).Rows(5) 'Total pèrdues'
    Set r_gp(1, 4) = r_f(2, 3).Rows(3) 'Mitjana guanyadors'
    Set r_gp(2, 4) = r_f(2, 3).Rows(6) 'Mitjana perdedors'
    r_gp(2, 2).NumberFormat = "0.00%;[Red]0.00%"

    Call COMUNS_43GRAFICS_GP(23, ANOIS, "IS", "(G-P)", r_gp, 1)

    For il = 1 To Worksheets("IS(G-P)").Shapes.Count
        Worksheets("IS(G-P)").Shapes(il).Left = IIf(il = 1 Or il = 3, 10, 280) 'Reposicionament imatges
    Next il

End If

ActiveWindow.SelectedSheets.HPageBreaks.Add (Cells(67, 1))

End Sub
Private Sub IS_40ESCRIPURA(opcio As Integer)

Dim fila As Integer, i As Integer, il As Integer, j1 As Integer, llibre(1 To 2) As Integer, nom As String, _
    r_ref(1 To 2) As Range, r_f(1 To 4, 1 To 4) As Range, r_parms(1 To 2) As Range

'.....
'r_f(1 to 4, 1)==> formats del llibre "FORMATS", full "IS" '
'r_f(1 to 4, 2)==> formats del llibre "RESULTATS" temporals '
'r_f(1 to 4, 3)==> formats del llibre "SIMCAT", full "IS(R)" '
'r_f(1 to 4, 3)==> formats del llibre "SIMCAT", full "IS(R)" (només valors)'
'.....

Application.ScreenUpdating = False

```

```

nom = ThisWorkbook.Path & "\DADES\Formats.XLSX"
Set LLIBRE_FORMATS = Workbooks.Open(nom)
llibre(1) = Workbooks.Count

Workbooks(llibre(1)).Activate           'llibre "FORMATS"

Sheets("IS").Activate

Set r_parms(1) = Range(Cells(2, 1), Cells(39, 15)) 'Paràmetres

Set r_f(1, 1) = Range(Cells(41, 1), Cells(66, 12)) 'Descriptiu
Set r_f(2, 1) = Range(Cells(68, 1), Cells(71, 13)) 'Límits i mitjana per decils
Set r_f(3, 1) = Range(Cells(73, 1), Cells(97, 15)) 'Decils
Set r_f(4, 1) = Range(Cells(99, 1), Cells(135, 6)) 'Índexs

Set r_ref(1) = Range(Cells(156, 1), Cells(171, 11)) 'Referència

.....
'Crea el full de càlcul on escriu els resultats definitius
.....

ThisWorkbook.Activate                   'llibre "SIMCAT"

Call COMUNS_ONOMSFULLS("IS(R)")

ActiveWorkbook.Unprotect (SECRET)

.....
'Escriu els resultats de la referència'
.....

fila = 18

Sheets("SIMULADOR REFORMES IMPOSITIVES").Activate
Sheets("IS(R)").Activate
Set r_ref(2) = Range(Cells(1, 1), Cells(fila - 2, 11))
With r_ref(2)
    .ColumnWidth = 6.43
    .RowHeight = 11
End With
r_ref(2).Rows(2).RowHeight = 14
r_ref(1).Copy Destination:=r_ref(2)
ActiveWindow.SelectedSheets.HPageBreaks.Add (Cells(fila - 1, 1))

For il = 1 To UBound(IRESULTS)

    .....
    'Lectura en els arxius temporals de resultats'
    .....

    nom = NOM_IS_SIMUL & "S" & ANOIS & "_" & Trim(Str(IRESULTS(il))) & ".xlsx"
    Set LLIBRE_RESULTATS = Workbooks.Open(nom)
    llibre(2) = Workbooks.Count

    Workbooks(llibre(2)).Activate           'llibre "RESULTATS"

    Sheets("PARAMETRES").Activate           'Paràmetres
    ReDim p(47, 10)
    For i = 0 To UBound(p, 1)
        For j1 = 1 To UBound(p, 2)
            p(i, j1) = Cells(i + 1, j1)
        Next j1
    Next i

    Sheets("DESCRIPTIU").Activate           'Descriptiu
    Set r_f(1, 2) = Range(Cells(1, 1), Cells(20, 8))

    Sheets("LIMITS-MITJANES").Activate       'Límits i mitjanes
    Set r_f(2, 2) = Range(Cells(1, 1), Cells(2, 12))

    Sheets("DECILS-TIPUS").Activate          'Decils BI i Tipus efectius QT s/BI QT s/BL
    Set r_f(3, 2) = Range(Cells(1, 1), Cells(22, 12))

    Sheets("INDEXS").Activate                'Índexs
    Set r_f(4, 2) = Range(Cells(1, 1), Cells(34, 2))

    .....
    'Esriptura en el full definitiu de resultats'
    .....

ThisWorkbook.Activate                   'llibre "SIMCAT"

```

```

With Range(Cells(fila - 1, 1), Cells(fila + 133, 15))
.ColumnWidth = 6.43
With .Font
.Name = "Arial"
.Size = 7
End With
.HorizontalAlignment = xlCenter
.Interior.ColorIndex = 2
.RowHeight = 11
End With
With Range(Cells(fila - 1, 1), Cells(fila - 1, 1))
With .Font
.Bold = True
.Size = 10
End With
.HorizontalAlignment = xlLeft
.RowHeight = 14
.Value = "SIMULACIÓ-" & IRESULTS(i1) & " (Base de dades: " & ANOIS & ")"
End With

Call IS_41ESCRITURA_PARAMETRES(fila, p, r_parms)

.....
'Rangs per a l'escriptura en el llibre SIMCAT full IS(R)'
.....

Set r_f(1, 3) = Range(Cells(fila + 39, 1), Cells(fila + 64, 12))      'Descriptiu
Set r_f(1, 4) = Range(Cells(fila + 43, 5), Cells(fila + 62, 12))
Set r_f(2, 3) = Range(Cells(fila + 66, 1), Cells(fila + 69, 13))      'Límits i mitjanes per decils
Set r_f(2, 4) = Range(Cells(fila + 68, 2), Cells(fila + 69, 13))
Set r_f(3, 3) = Range(Cells(fila + 71, 1), Cells(fila + 95, 15))      'Decils
Set r_f(3, 4) = Range(Cells(fila + 74, 4), Cells(fila + 95, 15))
Set r_f(4, 3) = Range(Cells(fila + 97, 1), Cells(fila + 123, 6))      'Índexs
Set r_f(4, 4) = Range(Cells(fila + 100, 5), Cells(fila + 123, 6))

For j1 = 1 To 4
r_f(j1, 1).Copy Destination:=r_f(j1, 3)
r_f(j1, 2).Copy: r_f(j1, 4).PasteSpecial xlPasteValues
If j1 = 1 Then
r_f(j1, 3).Rows(26).Columns(7).Value = p(0, 5)
r_f(j1, 3).Rows(26).Columns(10).Value = p(0, 7)
r_f(j1, 3).Rows(26).Columns(11).Value = p(0, 6)
r_f(j1, 3).Rows(26).Columns(12).Value = IIf(p(0, 8) > 1, 1, p(0, 8))
End If
Next j1

LLIBRE_RESULTATS.Close

ActiveWindow.SelectedSheets.HPageBreaks.Add (Cells(fila + 70, 1))
ActiveWindow.SelectedSheets.HPageBreaks.Add (Cells(fila + 134, 1))

.....
'Rangs dels gràfics
.....

ReDim r_g(1 To 3, 1 To 4) As Range

Set r_g(1, 1) = r_f(3, 4).Rows(2)      'BI acum. (sim)
Set r_g(2, 1) = r_f(3, 4).Rows(20)     'QT acum. (sim)
Set r_g(3, 1) = r_f(3, 4).Rows(20)     'QT acum. (sim)
Set r_g(1, 2) = r_f(3, 4).Rows(4)      'BL acum. (sim)
Set r_g(2, 2) = r_f(3, 4).Rows(20)     'QT acum. (sim)
Set r_g(3, 2) = r_f(3, 4).Rows(20)     'QT acum. (sim)
Set r_g(1, 3) = r_f(3, 4).Rows(21)     'QT s/BI (sim)
Set r_g(1, 4) = r_f(3, 4).Rows(22)     'QT s/BL (sim)

Call IS_42ESCRITURA_GRAFICS(fila + 135, r_g, IRESULTS(i1))
fila = fila + 181
Next i1

SALTA:
LLIBRE_FORMATS.Close

Call COMUNS_5IMPRESSIO("IS", "R")

End Sub
Private Sub IS_41ESCRITURA_PARAMETRES(fila, p, r_parms)

Dim i1 As Integer, j1 As Integer

Set r_parms(2) = Range(Cells(fila, 1), Cells(fila + 19, 15))      'Paràmetres

r_parms(1).Copy Destination:=r_parms(2)

```

```

With r_parms(2)

    .Font.Size = 8

    For il = 1 To 7
        .Rows(3 + il).Columns(10).Value = p(1, il)      'parentiu
    Next il
    For jl = 2 To 4
        .Rows(4).Columns(jl + 9).Value = p(1, 6 + jl)
    Next jl

    For il = 1 To 5
        .Rows(14 + il).Columns(15).Value = p(2, il)    'aditional parentiu
    Next il

    .Rows(17).Columns(9).Value = p(3, 1)
    .Rows(18).Columns(9).Value = p(3, 2)

    .Rows(19).Columns(8).Value = p(4, 1)
    .Rows(19).Columns(9).Value = p(4, 2)

    .Rows(7).Columns(14).Value = p(5, 1)
    .Rows(7).Columns(15).Value = p(5, 2)

    .Rows(8).Columns(14).Value = p(6, 1)
    .Rows(8).Columns(15).Value = p(6, 2)

    For il = 1 To 4
        .Rows(8 + il).Columns(14).Value = p(6 + il, 1)
        .Rows(8 + il).Columns(15).Value = p(6 + il, 2)
    Next il

    For il = 2 To 4
        For jl = 1 To 4
            .Rows(il + 11).Columns(jl + 7).Value = p(il + 10, jl)
        Next jl
    Next il

    For il = 1 To p(0, 2)
        For jl = 1 To 3
            .Rows(3 + il).Columns(jl).Value = p(14 + il, jl)
        Next jl
    Next il
    If p(0, 2) <> 16 Then
        With Range(Cells(fila + p(0, 2) + 3, 1), Cells(fila + 18, 3))
            .Interior.Pattern = xlCrissCross
            .MergeCells = True
            .Value = ""
        End With
        With Range(Cells(fila + p(0, 2) + 3, 1), Cells(fila + p(0, 2) + 3, 3))
            With .Borders(xlEdgeTop)
                .LineStyle = xlContinuous
                .Weight = xlMedium
            End With
        End With
    End If

    For il = 1 To p(0, 3)
        For jl = 1 To 3
            .Rows(3 + il).Columns(jl + 3).Value = p(14 + il, jl + 4)
        Next jl
    Next il
    If p(0, 3) <> 16 Then
        With Range(Cells(fila + p(0, 3) + 3, 4), Cells(fila + 18, 6))
            .Interior.Pattern = xlCrissCross
            .MergeCells = True
            .Value = ""
        End With
        With Range(Cells(fila + p(0, 3) + 3, 4), Cells(fila + p(0, 3) + 3, 6))
            With .Borders(xlEdgeTop)
                .LineStyle = xlContinuous
                .Weight = xlMedium
            End With
        End With
    End If

    If p(0, 2) <> 16 And p(0, 3) <> 16 Then
        With Range(Cells(fila + Application.max(p(0, 2), p(0, 3)) + 3, 3), Cells(fila + 18, 3))
            .Borders(xlEdgeRight).LineStyle = xlNone
        End With
    End If

```

```

For il = 1 To 4                                     'Bonificacions Grup 1 i 2
  .Rows(il + 21).Columns(6).Value = p(30 + il, 1)
  .Rows(il + 21).Columns(7).Value = p(30 + il, 2)
  .Rows(il + 25).Columns(7).Value = p(34 + il, 1)
Next il
For il = 1 To 7                                     'Bonificacions Grup 3
  .Rows(il + 29).Columns(8).Value = p(38 + il, 1)
Next il
For il = 1 To 2                                     'Bonificacions Grup 4
  .Rows(il + 36).Columns(9).Value = p(45 + il, 1)
Next il

End With

End Sub
Private Sub IS_42ESCRITURA_GRAFICS(filas, r_g, sim)

Dim avisgp As Boolean, i1 As Integer, i2 As Integer, j1 As Integer, m, nom() As String, s_r() As Boolean

.....
'Escriptura en el full definitiu de resultats'
.....

With Range(Cells(filas - 1, 1), Cells(filas + 44, 15)) '78
  .ColumnWidth = 6.43
  .Interior.ColorIndex = 2
  .RowHeight = 10
End With
With Range(Cells(filas - 1, 1), Cells(filas - 1, 1))
  .Font.Bold = True
  .Font.Size = 10
  .HorizontalAlignment = xlLeft
  .RowHeight = 14
  .Value = "GRÀFICS DE LA SIMULACIÓ-" & sim & " (Base de dades: " & ANOIS & ")"
End With

ReDim nom(1 To 4, 1 To 2), s_r(1 To 5, 1 To 3)

For il = 1 To 2
  nom(1, il) = "Sim-" & sim & IIf(il = 1, "(BI)", "(BL)")
  nom(2, il) = "Sim-" & sim & "(QT)"
  nom(3, il) = "Sim-" & sim & "(QT relativa)"
  nom(4, il) = "Equitat"
Next il

m = Round(Application.max(r_g(1, 3), r_g(1, 4)), 2) + 0.01

Call COMUNS_41GRAFICS_CORBESLORENZ(filas, False, "IS", nom, r_g, s_r)           'Lorenz
Call COMUNS_42GRAFICS_TIPUS(filas + 23, False, "IS", m, r_g, s_r, sim)         'Tipus efectius

For il = 1 To Worksheets("IS(R)").Shapes.Count - 1 Step 2
  Worksheets("IS(R)").Shapes(il).Left = 20                                     'Reposicionament imatges
Next il
For il = 2 To Worksheets("IS(R)").Shapes.Count Step 2
  Worksheets("IS(R)").Shapes(il).Left = 310                                   'Reposicionament imatges
Next il

ActiveWindow.SelectedSheets.HPageBreaks.Add (Cells(filas + 45, 1))

End Sub
Private Sub ISD_10PARAMETRES(opcio As Integer)

Dim il As Integer

ReDim percen(100) As Integer, edat(22) As Integer, tram(9) As Integer
For il = 100 To 0 Step -1
  percen(100 - il) = il
  If il <= 22 Then edat(22 - il) = il + 18
  If il <= 9 Then tram(9 - il) = il + 1
Next il
If ISIMULS(3) <> 0 Then
  ReDim sims(1 To ISIMULS(3))
  For il = ISIMULS(3) To 1 Step -1
    sims(ISIMULS(3) - il + 1) = CID(il)
  Next il
End If

PAGINA = -1
TORNA:
PAGINA = PAGINA + 1
ERR_LEC = True

Do While ERR_LEC

```

```

With IS2
.MultiPage1.Value = PAGINA
If .MultiPage1.Value = 0 Then .Caption = "SIMCAT-ID: Reduccions a la Base Imposable"
If .MultiPage1.Value = 1 Then .Caption = "SIMCAT-ID: Coeficients multiplicadors, Tarifa i Bonificacions"
.Caption = .Caption & " (Base de dades: " & ANOID & ")"
.ListBox11.List = percen
.ListBox12.List = percen
.ListBox13.List = percen
.ListBox15.List = percen
.ListBox16.List = percen
.ListBox161.List = edat
.ListBox22.List = tram
.ListBox23.List = tram
.ListBox241.List = percen
.ListBox243.List = percen
.ListBox244.List = percen
.Llei.Value = True
If ISIMULS(3) <> 0 Then
.ListBox_SimulRef.List = sims
.SimulRef.Visible = True
End If
.Show
End With
If SORTIR Then Exit Sub
Loop
If PAGINA < 1 Then GoTo TORNA
If PAGINA = 1 Then Exit Sub

End Sub
Private Sub ISD_20SIMULACIO(temps)

Dim it As Integer

'.....
'Càlcul preliminar sobre trams i tipus impositius'
'.....

ReDim tt12(1 To NTRAMS12 - IIf(NTRAMS12 <> 1, 1, 0)), tt34(1 To NTRAMS34 - IIf(NTRAMS34 <> 1, 1, 0)) As Double
tt12(1) = T12(1) * TIPUS12(1)
If NTRAMS12 > 2 Then
For it = 2 To NTRAMS12 - 1
tt12(it) = tt12(it - 1) + ((T12(it) - T12(it - 1)) * TIPUS12(it))
Next it
End If
tt34(1) = T34(1) * TIPUS34(1)
If NTRAMS34 > 2 Then
For it = 2 To NTRAMS34 - 1
tt34(it) = tt34(it - 1) + ((T34(it) - T34(it - 1)) * TIPUS34(it))
Next it
End If

'.....
'Declaracions de variables del fitxer de lectura'
'.....

Dim V06 As Integer, V08 As Integer, V09 As String, _
C01, C02, C03, C04, C06, C08, _
C09, C10, C11, _
C101R, C101T, C102R, C102T, C103R, C103T, _
C104R, C104T, C105R, C105T, edat As Integer, trib As Integer

'.....
'Declaracions de variables utilitzades en els càlculs'
'.....

Dim aux, bit, bl, blt, il As Long, j1 As Integer, j2 As Integer, _
redt As Double

'.....
'Lectura de dades'
'.....

Open NOM_ID_DADES & ANOID & ".dat" For Input As #1
Input #1, N

'.....
'Declaracions de variables després de conèixer N'
'.....

ReDim ID_I(1 To N, 1 To 3) As String, IND(1 To N, 1 To 6), _
i_grup(1 To N) As Integer, i_pag(1 To N, 1 To 3) As Integer, X3(1 To N, 1 To 6)

j2 = 1

```

```

NT = 0
N1 = 0
N2 = 0
NT1 = 0
NT2 = 0

```

```
For i1 = 1 To N
```

```

Input #1, ID_I(i1, 1), ID_I(i1, 2), ID_I(i1, 3), V06, V08, V09, _
C01, C02, C03, C04, C06, C08, C09, C10, C11, _
C101R, C101T, C102R, C102T, C103R, C103T, C104R, C104T, C105R, C105T, _
edat, trib, X3(i1, 6)

```

```

'Variables d'interès
'ID_I(, 1) = ID
'ID_I(, 2) = Numero expedient
'ID_I(, 3) = Número autoliquidació
'V06 = Grup parentiu
'V08 = Grau discapacitat
'V09 = Parentiu
'C01 = Béns urbans
'C02 = Béns rústics
'C03 = Valor participacions
'C04 = Altres béns
'C06 = Càrregues de la donació
'C08 = Valor Plé domini
'C09 = Valor Nua propetat
'C10 = Valor donació acumulada
'C11 = Valor donació fora territori
'C101R = Reducció per activitats empr. o profess. real
'C102R = Reducció per participacions real
'C103R = Reducció per béns culturals real
'C104R = Reducció per explotacions agràries real
'C105R = Reducció per altres béns real
'C101T = Reducció per activitats empr. o profess. teòrica
'C102T = Reducció per participacions t
'C103T = Reducció per béns culturals teòrica
'C104T = Reducció per explotacions agràries teòrica
'C105T = Reducció per altres béns teòrica
'QT = Quota tributària referència
'EDAT = Edat subjecte passiu
'trib = Tipus de tributació (real=1 o teòrica=2)
'X3(i1, 1) = Base Imposable
'X3(i1, 2) = Base Liquidable
'X3(i1, 3) = Reduccions
'X3(i1, 4) = Quota Íntegra
'X3(i1, 5) = Quota tributària
'X3(i1, 6) = Factor elevació = 1 sempre
'X(i1, 1, 1 to 3) = Base Imposable
'X(i1, 2, 1 to 3) = Base Liquidable
'X(i1, 3, 1 to 3) = Reduccions
'X(i1, 4, 1 to 3) = Quota Íntegra
'X(i1, 5, 1 to 3) = Quota tributària
'X(i1, 6, 1 to 3) = Factor elevació
'La 3a. dimensió 1=Parentiu 1i2, 2=Parentiu 3i4, 3=Total
' 0 quan X(i1, 2, 1 to 3)=0
'i_pag(i1, 1 to 3)=
' 1 quan X(i1, 2, 1 to 3)>0
'X3(i1, 6) = 1 'quan no es volen pesos
i_grup(i1) = IIf(V06 <= 2, 1, 2) 'Indicador grup parentiu

```

```

'Base Imposable

```

```

X3(i1, 1) = Application.max(0, C01 + C02 + C03 + C04 - C06)
If trib = 2 Then bit = Application.max(0, X3(i1, 1) + C08 + C10 + C11 - C09) Else bit = 0

```

```

'Reduccions

```

```

C101R = (C101R / 0.95) * R_BASE(1, 1) 'Reducció per activitats empr. o profess. real
C102R = (C102R / 0.95) * R_BASE(2, 1) 'Reducció per participacions real
C103R = (C103R / 0.95) * R_BASE(3, 1) 'Reducció per béns culturals real

```

```

If C105R <> 0 Then
  If C105R > 125000 Then
    C105R = Application.min(C105R * R_BASE(5, 1), IIf(V08 < 33, R_BASE(5, 2), R_BASE(5, 3)))
  Else
    'Reducció Altres(2)
    If edat <= R_BASE(6, 4) Or V08 >= 65 Then
      C105R = Application.min(C105R * R_BASE(6, 1), IIf(V08 < 65, R_BASE(6, 2), R_BASE(6, 3)))
    Else
      C105R = 0
    End If
  End If
End If

X3(i1, 3) = Application.min(X3(i1, 1), C101R + C102R + C103R + C104R + C105R)
If trib = 2 Then redt = Application.min(bit, C101R + C102R + C103R + C104R + C105R) Else redt = 0

.....
'Base Liquidable
.....

X3(i1, 2) = X3(i1, 1) - X3(i1, 3)
If trib = 2 Then blt = bit - redt Else blt = 0

.....
'Determina la Quota íntegra segons la tarifa i trams indicats'
.....

X3(i1, 4) = 0
X3(i1, 5) = 0
If trib = 1 Then bl = X3(i1, 2) Else bl = blt

If bl > 0 Then

  i_pag(i1, 3) = 1

  If V06 <= 2 Then
    If NTRAMS12 = 1 Then
      X3(i1, 4) = bl * TIPUS12(1)
    Else
      it = NTRAMS12
      If bl <= T12(1) Then X3(i1, 4) = bl * TIPUS12(1)
      If NTRAMS12 > 2 Then
        For j1 = 2 To NTRAMS12 - 1
          If bl > T12(j1 - 1) And bl <= T12(j1) Then X3(i1, 4) = tt12(j1 - 1) + ((bl - T12(j1 - 1)) *
TIPUS12(j1))
        Next j1
      End If
      If bl > T12(it - 1) Then X3(i1, 4) = tt12(it - 1) + ((bl - T12(it - 1)) * TIPUS12(it))
    End If
  Else
    If NTRAMS34 = 1 Then
      X3(i1, 4) = bl * TIPUS34(1)
    Else
      it = NTRAMS34
      If bl <= T34(1) Then X3(i1, 4) = bl * TIPUS34(1)
      If NTRAMS34 > 2 Then
        For j1 = 2 To NTRAMS34 - 1
          If bl > T34(j1 - 1) And bl <= T34(j1) Then X3(i1, 4) = tt34(j1 - 1) + ((bl - T34(j1 - 1)) *
TIPUS34(j1))
        Next j1
      End If
    End If
    If bl > T34(it - 1) Then X3(i1, 4) = tt34(it - 1) + ((bl - T34(it - 1)) * TIPUS34(it))
  End If

  .....
  'Determina la quota per a ingressar amb els coeficients correctors'
  .....

  X3(i1, 5) = X3(i1, 4) * COEF(V06)

End If

.....
'Correcció de la tarifa pel tipus efectiu mitjà
.....

If trib = 2 And blt <> 0 Then
  X3(i1, 5) = X3(i1, 2) * Application.WorksheetFunction.Floor(X3(i1, 5) / blt, 0.0001)
  X3(i1, 4) = X3(i1, 5) / COEF(V06)
End If

```

```

.....
'Aplicació de les bonificacions a la tarifa
.....

X3(i1, 5) = (1 - BONIF(V06)) * X3(i1, 5)

NT = NT + X3(i1, 6)

If i_grup(i1) = 1 Then
  N1 = N1 + 1
  NT1 = NT1 + X3(i1, 6)
Else
  N2 = N2 + 1
  NT2 = NT2 + X3(i1, 6)
End If

If j2 <= 10 Then
  If i1 / N >= j2 / 10 Then
    Application.ScreenUpdating = True
    Application.StatusBar = "Processat " & (j2 * 8) & "%"
    Application.ScreenUpdating = False
    j2 = j2 + 1
  End If
End If

Next i1
Close #1

Dim k1 As Integer, k2 As Integer, obs As Long, p As Integer, _
    spes2(1 To 3), tobs, v As Integer, _
    vpag(1 To 3, 1 To 3), vy(1 To 5, 1 To 6, 1 To 3) As Double

ReDim MITJANA(1 To 6, 1 To 3), SUMA(1 To 6, 1 To 3), VT(1 To 102, 1 To 12), X(1 To N, 1 To 18)

.....
'Discrimina les variables per grup de parentiu'
.....

For i1 = 1 To N
  If i_grup(i1) = 1 Then
    i_pag(i1, 1) = i_pag(i1, 3)
    For j1 = 1 To 6
      X(i1, j1) = X3(i1, j1)
    Next j1
  Else
    i_pag(i1, 2) = i_pag(i1, 3)
    For j1 = 1 To 6
      X(i1, j1 + 6) = X3(i1, j1)
    Next j1
  End If
  For j1 = 1 To 6
    X(i1, j1 + 12) = X3(i1, j1)
  Next j1
Next i1

.....
'Determina les variables per al càlcul descriptiu vx
'Determina les variables per al càlcul dels "no-pagadors" vpag'
.....

For k1 = 1 To 3
  k2 = (k1 - 1) * 6      'nombre de variables
  p = 6 + k2            'posició del pes
  For j1 = 1 To 5
    v = j1 + k2         'posició de les variables
    For i1 = 1 To N
      If X(i1, v) <> 0 Then
        vy(j1, 1, k1) = vy(j1, 1, k1) + (X(i1, v) * X(i1, p))
        vy(j1, 2, k1) = vy(j1, 2, k1) + (X(i1, v) * X(i1, p) * X(i1, p))
        vy(j1, 3, k1) = vy(j1, 3, k1) + (X(i1, v) * X(i1, v) * X(i1, p) * X(i1, p))
        vy(j1, 4, k1) = vy(j1, 4, k1) + 1
        vy(j1, 5, k1) = vy(j1, 5, k1) + X(i1, p)
        vy(j1, 6, k1) = vy(j1, 6, k1) + (X(i1, p) * X(i1, p))
      End If
    Next i1
  Next j1
  For i1 = 1 To N
    spes2(k1) = spes2(k1) + (X(i1, p) * X(i1, p))
    vpag(1, k1) = vpag(1, k1) + (i_pag(i1, k1) * X(i1, p))
    vpag(2, k1) = vpag(2, k1) + (i_pag(i1, k1) * X(i1, p) * X(i1, p))
    vpag(3, k1) = vpag(3, k1) + (i_pag(i1, k1) * i_pag(i1, k1) * X(i1, p) * X(i1, p))
  Next i1
  For j1 = 1 To 6
    v = j1 + k2

```

```

    For il = 1 To N
        SUMA(j1, k1) = SUMA(j1, k1) + (X(il, v) * X(il, p))
    Next il
Next j1
Next k1

MITJANA(6, 1) = NT1 / N1
MITJANA(6, 2) = NT2 / N2
MITJANA(6, 3) = NT / N

For k1 = 1 To 3
    For j1 = 1 To 6
        MITJANA(j1, k1) = SUMA(j1, k1) / IIf(k1 = 1, NT1, IIf(k1 = 2, NT2, NT))
    Next j1
Next k1

.....
'Guarda(Descriptiu) a VT'
.....

For k1 = 1 To 3
    For j1 = 1 To 5
        v = 3 * (j1 - 1) + k1
        If vy(j1, 4, k1) <> 0 Then
            VT(v, 1) = vy(j1, 1, k1) / vy(j1, 5, k1)
            VT(v, 2) = (Sqr(vy(j1, 3, k1) - (2 * (vy(j1, 1, k1) / vy(j1, 5, k1)) * vy(j1, 2, k1)) + _
                ((vy(j1, 1, k1) / vy(j1, 5, k1)) ^ 2) * vy(j1, 6, k1))) / vy(j1, 5, k1))
            VT(v, 3) = VT(v, 1) - 1.95996 * VT(v, 2)
            VT(v, 4) = VT(v, 1) + 1.95996 * VT(v, 2)
            VT(v, 5) = vy(j1, 1, k1) / 1000000
            VT(v, 6) = Sqr(vy(j1, 3, k1) - ((vy(j1, 1, k1) / 1000000) ^ 2) / vy(j1, 4, k1)) / 1000000
            VT(v, 7) = VT(v, 5) - 1.95996 * VT(v, 6)
            VT(v, 8) = VT(v, 5) + 1.95996 * VT(v, 6)
        End If
    Next j1
    VT(15 + k1, 4) = VT(12 + k1, 5) / VT(k1, 5)
    VT(15 + k1, 5) = VT(12 + k1, 5) / VT(k1 + 3, 5)
Next k1

VT(16, 1) = NT1           'Declarants 1 i 2
VT(17, 1) = NT2           'Declarants 3 i 4
VT(18, 1) = NT            'Declarants total

VT(16, 7) = vpag(1, 1) / NT1    'pagadors 1 i 2
aux = (Sqr(vpag(3, 1) - (2 * VT(16, 7) * vpag(2, 1)) + ((VT(16, 7) ^ 2) * spes2(1))) / NT1)
VT(16, 6) = VT(16, 7) - 1.95996 * aux
VT(16, 8) = VT(16, 7) + 1.95996 * aux
If VT(16, 8) > 1 Then VT(16, 8) = 1

VT(17, 7) = vpag(1, 2) / NT2    'pagadors 3 i 4
aux = (Sqr(vpag(3, 2) - (2 * VT(17, 7) * vpag(2, 2)) + ((VT(17, 7) ^ 2) * spes2(2))) / NT2)
VT(17, 6) = VT(17, 7) - 1.95996 * aux
VT(17, 8) = VT(17, 7) + 1.95996 * aux
If VT(17, 8) > 1 Then VT(17, 8) = 1

VT(18, 7) = vpag(1, 3) / NT     'pagadors total
aux = (Sqr(vpag(3, 3) - (2 * VT(18, 7) * vpag(2, 3)) + ((VT(18, 7) ^ 2) * spes2(3))) / NT)
VT(18, 6) = VT(18, 7) - 1.95996 * aux
VT(18, 8) = VT(18, 7) + 1.95996 * aux
If VT(18, 8) > 1 Then VT(18, 8) = 1

Call ISD_21ORDENA(0)
Application.ScreenUpdating = True
Application.StatusBar = "Processat 85%"
Application.ScreenUpdating = False

Call ISD_22DECILS_GP_INDEXS(6, UBound(X, 2) / 3)
Application.ScreenUpdating = True
Application.StatusBar = "Processat 95%"
Application.ScreenUpdating = False

temps = Timer - temps

End Sub
Private Sub ISD_21ORDENA(opcio As Integer)

Dim d As Integer, il As Long, it As Integer, it1 As Integer, k1 As Integer, v As Integer
ReDim y(1 To N)

d = (UBound(X, 2) / 3)

For it = 1 To 2                                'ord. 1==>BI ord. 2==>BLT

```

```

For k1 = 1 To 3

    it1 = it + 2 * (k1 - 1)
    v = it + d * (k1 - 1)

    For il = 1 To N
        y(il) = X(il, v) + ((il / N) ^ 0.001) 'Suma quantitat per eliminar repeticions
        IND(il, it1) = il
    Next il

    Call COMUNS_2ORDENA_AUX(1, N, it1)          'Crida a la rutina per a ordenar

Next k1

Next it

End Sub
Private Sub ISD_22DECILS_GP_INDEXS(p1, p2)

'p1=posicio pes (6)
'UBound(X, 2) / 3=nombre variables

Dim axx_b(1 To 2), axx_p, _
    il As Long, it As Integer, it1 As Integer, j1 As Integer, k1 As Integer, _
    nobs As Long, ntobs, p(1 To 12, 2), p3 As Integer, p4 As Integer

ReDim xx_b(1 To N, 1 To 2), xx_p(1 To N) As Double

For j1 = 1 To 12
    p(j1, 1) = Iif(j1 < 10, j1 / 10, Iif(j1 = 10, 0.95, Iif(j1 = 11, 0.98, 1)))
    p(j1, 2) = Iif(j1 < 10, 0.1, Iif(j1 = 10, 0.05, Iif(j1 = 11, 0.03, 0.02)))
Next j1

.....
'Calcula: xx_b(1 to N, 1 to 2) = (BI, BL * factor) acumulades / s(variables * factor)
'Calcula: xx_p(1 to N)          = població acumulada/NT1,NT2,NT
.....

For it = 1 To 2

    For k1 = 1 To 3

        p3 = p2 * (k1 - 1)                'posició BI i BL
        it1 = it + 2 * (k1 - 1)          'index ordenació segons BI, BL per grups
        p4 = p1 + p3                      'posicio pes
        nobs = Iif(k1 = 1, N1, Iif(k1 = 2, N2, N)) 'observacions per grups
        ntobs = Iif(k1 = 1, NT1, Iif(k1 = 2, NT2, NT)) 'declarants per grups

        For j1 = 1 To 2
            axx_b(j1) = 0
            If SUMA(j1, k1) <> 0 Then
                For il = 1 To N
                    axx_b(j1) = axx_b(j1) + (X(IND(il, it1), j1 + p3) * X(IND(il, it1), p4))
                    xx_b(il, j1) = axx_b(j1) / SUMA(j1, k1) 'BI, BL
                Next il
            End If
        Next j1
        axx_p = 0
        For il = 1 To N
            axx_p = axx_p + X(IND(il, it1), p4)
            xx_p(il) = axx_p / ntobs          'pes
        Next il
        If it = 1 Then Call ISD_23DECILS(it1, k1, nobs, ntobs, p, p3, p4, xx_b, xx_p) 'DECILS

        Call ISD_24INDEXS(it, it1, k1, nobs, ntobs, p3, p4, xx_b, xx_p)          'INDEXS

    Next k1

Next it

End Sub
Private Sub ISD_23DECILS(it1, k1, nobs, ntobs, p, p3, p4, xx_b, xx_p)

'it1= index ordenació segons BI, BL per grups
'p3 = posició BI i BL per grups
'p4 = posicio pes per grups

.....
'Calcula: xx_r(1 to N, 1 to 3)=(resta * factor) acumulades/s(variables*factor)
.....

Dim ats, il As Long, i2 As Long, j1 As Integer, j2 As Integer, l1 As Long

```

```

ReDim axx_r(1 To 3), ds(10, 12), ts(1 To 2, 12), xx_r(1 To N, 1 To 3) As Double

For j1 = 1 To 3
  axx_r(j1) = 0
  If SUMA(j1 + 2, k1) <> 0 Then
    For il = 1 To N
      axx_r(j1) = axx_r(j1) + (X(IND(il, it1), j1 + 2 + p3) * X(IND(il, it1), p4))
      xx_r(il, j1) = axx_r(j1) / SUMA(j1 + 2, k1) 'resta variables
    Next il
  End If
Next j1

i2 = 1
For j2 = 1 To 11
  For il = i2 To N
    If xx_p(il) >= p(j2, 1) Then
      p(j2, 0) = il 'p(1 to 12, 0=Observació on comença
    End If
  Next il
Next j2
p(12, 0) = N

.....
'Límits i mitjanes 6=2*k1 3 límits 3 mitjanes
.....
'DECILS 30=5*k1*2 (dimensió parell decil acumulat)
.....
'TIPUS 6=3*k1 (3 QT s/BI i 3 QT s/BL)
.....

For j2 = 1 To 12
  l1 = p(j2, 0)
  For j1 = 1 To 5
    If j1 <= 2 Then ds(2 * j1, j2) = xx_b(l1, j1) 'DECILS BI, BL
    If j1 >= 3 Then ds(2 * j1, j2) = xx_r(l1, j1 - 2) 'DECILS resta
    If j2 = 1 Then ds(2 * j1 - 1, j2) = ds(2 * j1, j2)
    If j2 > 1 Then ds(2 * j1 - 1, j2) = ds(2 * j1, j2) - ds(2 * j1, j2 - 1)
  Next j1
Next j2

For j2 = 1 To 12
  If SUMA(1, k1) <> 0 And ds(1, j2) <> 0 Then
    ts(1, j2) = (ds(9, j2) * SUMA(5, k1)) / (ds(1, j2) * SUMA(1, k1)) 'TIPUS QT s/BI
  End If
  If SUMA(2, k1) <> 0 And ds(3, j2) <> 0 Then
    ts(2, j2) = (ds(9, j2) * SUMA(5, k1)) / (ds(3, j2) * SUMA(2, k1)) 'TIPUS QT s/BL
  End If
Next j2

.....
'Guarda límits i mitjanes, decils i tipus a VT
.....

Dim v As Integer

For j2 = 1 To 12
  v = 18 + (k1 - 1) + k1
  VT(v, j2) = X(IND(p(j2, 0), it1), p3 + 1) 'límit
  VT(v + 1, j2) = ds(1, j2) * SUMA(1, k1) / (ntobs * p(j2, 2)) 'mitjana
Next j2
For j1 = 1 To 9 Step 2
  v = 24 + ((2 * k1) - 1) + (3 * (j1 - 1))
  For j2 = 1 To 12
    VT(v, j2) = ds(j1, j2) 'Decil
  Next j2
Next j1
For j1 = 2 To 10 Step 2
  v = 25 + ((2 * k1) - 1) + (3 * (j1 - 2))
  For j2 = 1 To 12
    VT(v, j2) = ds(j1, j2) 'Decil acumulat
  Next j2
Next j1
For j1 = 1 To 2
  v = 54 + 3 * (j1 - 1) + k1
  For j2 = 1 To 12
    VT(v, j2) = ts(j1, j2) 'Tipus
  Next j2
Next j1

```

```

End Sub
Private Sub ISD_24INDEXS(it, it1, k1, nobs, ntobs, p3, p4, xx_b, xx_p)

.....
'INDEXS 2*3 + 3*3*4
.....
'Gini: g (6)'
.....
'Concentració: c 3*3'
'Kakwani: k 3*3'
'Suits: s 3*3'
'Efecte Redistributiu: e 3*3'
.....

Dim aconc, aefre, agini, asuit, daux(1 To 4), _
    il As Long, j1 As Integer, sxx_b As Double

Dim g As Double
ReDim c(1 To 3), k(1 To 3), s(1 To 3), e(1 To 3) As Double

agini = 0
sxx_b = 0
If SUMA(it, k1) <> 0 Then

    For il = 1 To N
        daux(1) = X(IND(il, it1), it + p3) - MITJANA(it, k1)
        daux(2) = xx_p(il) - MITJANA(6, k1)
        daux(3) = X(IND(il, it1), p4)
        agini = agini + (daux(1) * daux(2) * daux(3))
        sxx_b = sxx_b + xx_b(il, it) 's.acum. BI,BL
    Next il

    If agini <> 0 Then g = 2 / MITJANA(it, k1) * (agini / ntobs) 'gini

End If

For j1 = 1 To 3

    aconc = 0
    aefre = 0
    asuit = 0
    If SUMA(j1 + 2, k1) <> 0 Then

        For il = 1 To N
            daux(1) = X(IND(il, it1), j1 + 2) - MITJANA(j1 + 2, k1)
            daux(2) = xx_p(il) - MITJANA(6, k1)
            daux(3) = X(IND(il, it1), p4)
            daux(4) = xx_b(il, it) - (sxx_b / nobs)
            aconc = aconc + (daux(1) * daux(2) * daux(3))
            asuit = asuit + (daux(1) * daux(4) * daux(3))
        Next il

        If aconc <> 0 Then c(j1) = 2 / MITJANA(j1 + 2, k1) * (aconc / ntobs) 'concentració
        k(j1) = c(j1) - g 'kakwani
        s(j1) = (2 * (asuit / ntobs) / MITJANA(j1 + 2, k1)) - g 'suits

        If SUMA(it, k1) <> 0 Then aefre = SUMA(j1 + 2, k1) / SUMA(it, k1)
        e(j1) = (aefre / (1 - aefre)) * k(j1) 'ef red.

    End If
Next j1

.....
'Guarda els resultats(Índexs) a VT'
.....

Dim v1 As Integer, v2 As Integer, v3 As Integer, j2 As Integer

v1 = 61
v2 = (k1 - 1)
If it = 1 Then VT(v1 + v2 + 3 * (it - 1), 2) = "----"
If it = 2 Then VT(v1 + v2 + 3 * (it - 1), 1) = "----"
VT(v1 + v2 + 3 * (it - 1), it) = g 'gini
For j2 = 1 To 4
    For j1 = 1 To 3
        v3 = 3 * (j1 - 1) + 9 * (j2 - 1) + 6
        If j2 = 1 Then VT(v1 + v2 + v3, it) = c(j1) 'concentració
        If j2 = 2 Then VT(v1 + v2 + v3, it) = k(j1) 'kakwani
        If j2 = 3 Then VT(v1 + v2 + v3, it) = s(j1) 'suits
        If j2 = 4 Then VT(v1 + v2 + v3, it) = e(j1) 'efecte redistributiu
    Next j1
Next j2

```

```

End Sub
Private Sub ISD_30COMPARACIO(opcio As Integer)

Dim aux, i1 As Long, j1 As Integer, k1 As Integer, k2 As Integer, nom(1 To 2) As String

ReDim ds(1 To 12, 1 To 12), gp(1 To 18, 1 To 12), _
      nobs(1 To 3) As Long, ntobs(1 To 3), s(1 To 6, 1 To 3) As Double

nom(1) = NOM_ID_SIMUL & "GP" & ANOID & "_" & Trim(Str(COMP(1))) & ".dat"
nom(2) = NOM_ID_SIMUL & "GP" & ANOID & "_" & Trim(Str(COMP(2))) & ".dat"

Open nom(1) For Input As #1
Open nom(2) For Input As #2

Input #1, nobs(1), nobs(2), nobs(3), ntobs(1), ntobs(2), ntobs(3)
Input #2, aux, aux, aux, aux, aux, aux

N = nobs(3)
ReDim X(1 To N, 1 To 21), IND(1 To N, 1 To 3)

For i1 = 1 To N
  Input #1, IND(i1, 1), X(i1, 1), X(i1, 7), _
        IND(i1, 2), X(i1, 8), X(i1, 14), _
        IND(i1, 3), X(i1, 15), X(i1, 21)
  Input #2, aux, X(i1, 2), aux, aux, X(i1, 9), aux, aux, X(i1, 16), aux
Next i1

Close #1
Close #2

For k1 = 1 To 3
  k2 = 7 * (k1 - 1) + 1
  For i1 = 1 To N
    aux = X(i1, k2) - X(i1, k2 + 1)
    If Abs(aux) > 1 Then
      If aux > 0 Then
        X(i1, k2 + 2) = 1
        X(i1, k2 + 4) = 0
      Else
        X(i1, k2 + 2) = 0
        X(i1, k2 + 4) = 1
      End If
      X(i1, k2 + 3) = aux * X(i1, k2 + 2)
      X(i1, k2 + 5) = aux * X(i1, k2 + 4)
    End If
    For j1 = 1 To 6
      s(j1, k1) = s(j1, k1) + (X(i1, k2 + j1 - 1) * X(i1, k2 + 6))
    Next j1
  Next i1

  Call ISD_31COMPARACIO_DECILS_GP(ds, gp, k1, k2, nobs, ntobs, s)

Next k1

Call ISD_32COMPARACIO_ESCRIPTURA(ds, gp, nobs, ntobs, s)
Call COMUNS_5IMPRESSIO("ID", "G-P")

End Sub
Private Sub ISD_31COMPARACIO_DECILS_GP(ds, gp, k1, k2, nobs, ntobs, s)

Dim axx(1 To 6), axx_p, i1 As Long, i2 As Long, j1 As Integer, l1 As Long
ReDim p(1 To 12, 2), xx(1 To N, 1 To 7), y(4, 12) As Double

'.....
'Calcula xx(1 to N, 1 to 6)=(variables * factor) acumulades / s(variables * factor)
'      xx(1 to N, 7)      = població acumulada/s(7)      s(7)=NT
'.....

For j1 = 1 To 6
  axx(j1) = 0
  If s(j1, k1) <> 0 Then
    For i1 = 1 To N
      axx(j1) = axx(j1) + (X(IND(i1, k1), k2 + j1 - 1) * X(IND(i1, k1), k2 + 6))
      xx(i1, j1) = axx(j1) / IIf(j1 <= 2, s(j1, k1), 1)
    Next i1
  End If
Next j1

axx_p = 0
For i1 = 1 To N
  axx_p = axx_p + X(IND(i1, k1), k2 + 6)
  xx(i1, 7) = axx_p / ntobs(k1)

```

```

Next i1

For j1 = 1 To 12
  p(j1, 1) = IIf(j1 < 10, j1 / 10, IIf(j1 = 10, 0.95, IIf(j1 = 11, 0.98, 1)))
  p(j1, 2) = IIf(j1 < 10, 0.1, IIf(j1 = 10, 0.05, IIf(j1 = 11, 0.03, 0.02)))
Next j1

i2 = 1
For j1 = 1 To 11
  For i1 = i2 To N
    If xx(i1, 7) >= p(j1, 1) Then
      p(j1, 0) = i1          'p(1 to 12, 0 = Observació on comença cada decil
      i2 = i1
      Exit For
    End If
  Next i1
Next j1
p(12, 0) = N

.....
'DECILS'
.....

Dim v As Integer, k3 As Integer
ReDim gpaux(1 To 6, 1 To 12) As Double

For k3 = 1 To 12
  l1 = p(k3, 0)
  For j1 = 2 To 8 Step 6
    v = (2 * k1) + j1 - 2
    ds(v, k3) = xx(l1, IIf(j1 = 2, 1, 2))
    If k3 = 1 Then ds(v - 1, k3) = ds(v, k3)
    If k3 > 1 Then ds(v - 1, k3) = ds(v, k3) - ds(v, k3 - 1)
  Next j1
Next k3

.....
'GUANYADORS-PERDEDORES'
.....

For k3 = 1 To 12
  l1 = p(k3, 0)
  For j1 = 1 To 4
    y(j1, k3) = xx(l1, j1 + 2)
    gpaux(IIf(j1 <= 2, j1, j1 + 1), k3) = y(j1, k3) - y(j1, k3 - 1)
  Next j1
Next k3

For j1 = 1 To 12
  For k3 = 3 To 6 Step 3
    If gpaux(k3 - 2, j1) <> 0 Then
      gpaux(k3, j1) = gpaux(k3 - 1, j1) / gpaux(k3 - 2, j1)
    Else
      gpaux(k3, j1) = 0
    End If
  Next k3
  For k3 = 1 To 5
    If k3 <> 3 Then
      gpaux(k3, j1) = gpaux(k3, j1) * IIf(k3 = 1 Or k3 = 4, 1 / (p(j1, 2) * ntobs(k1)), 0.001)
    End If
  Next k3
Next j1

For j1 = 1 To 12
  For k3 = 1 To 4 Step 3
    If gpaux(k3, j1) >= 0.995 Then gpaux(k3, j1) = 1
    If gpaux(k3, j1) <= 0.005 Then gpaux(k3, j1) = 0
  Next k3
  gpaux(4, j1) = -gpaux(4, j1)
Next j1

For j1 = 1 To 12
  For k3 = 1 To 6
    v = 3 * (k3 - 1) + k1
    gp(v, j1) = gpaux(k3, j1)
  Next k3
Next j1

End Sub
Private Sub ISD_32COMPARACIO_ESCRIPTURA(ds, gp, nobs, ntobs, s)

Dim avisgpp(1 To 3) As Boolean, fila As Integer, ig As Integer, i1 As Integer, j1 As Integer, _
  llibre As Integer, nom As String, nota(1 To 3) As String, r_f(1 To 2, 1 To 3) As Range

.....
'r_f(1 to 2, 1)=> formats del llibre "FORMATS", full "ID"

```

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```
'r_f(1 to 2, 2)==> formats del llibre "SIMCAT", full "(G-P)"
'r_f(1 to 2, 3)==> formats del llibre "SIMCAT", full "(G-P)" (només valors)'
.....

Application.ScreenUpdating = False

nom = ThisWorkbook.Path & "\DADES\Formats.XLSX"
Set LLIBRE_FORMATS = Workbooks.Open(nom)
llibre = Workbooks.Count

Workbooks(llibre).Activate          'llibre "FORMATS"

Sheets("ID").Activate

Set r_f(1, 1) = Range(Cells(160, 1), Cells(180, 15))    'Decils
Set r_f(2, 1) = Range(Cells(138, 1), Cells(158, 15))    'Guanyadors

.....
'Crea el full de càlcul on escriu els resultats definitius'
.....

ThisWorkbook.Activate          'llibre "SIMCAT"

Call COMUNS_ONOMSFULLS("ID(G-P)")

ActiveWorkbook.Unprotect (SECRET)

Sheets("SIMULADOR REFORMES IMPOSITIVES").Activate
Sheets("ID(G-P)").Activate

.....
'Configura el rang d'escriptura'
.....

With Range(Cells(1, 1), Cells(45, 15))
    .ColumnWidth = 6.43
    With .Font
        .Name = "Arial"
        .Size = 7
    End With
    .HorizontalAlignment = xlCenter
    .Interior.ColorIndex = 2
    .RowHeight = 11
End With
With Range(Cells(1, 1), Cells(2, 1))
    .Font.Bold = True
    .Font.Size = 10
    .HorizontalAlignment = xlLeft
    .RowHeight = 14
End With
Cells(1, 1).Value = "IMPOST DE DONACIONS"
Cells(2, 1).Value = "COMPARACIÓ SIMULACIÓ-" & COMP(1) & " vs. SIMULACIÓ-" & COMP(2) & _
    " (Base de dades: " & ANOID & ")"

Set r_f(1, 2) = Range(Cells(3, 1), Cells(23, 15))    'Decils      Rangs d'escriptura
Set r_f(2, 2) = Range(Cells(25, 1), Cells(45, 15))    'Guanyadors  Rangs d'escriptura
Set r_f(1, 3) = Range(Cells(6, 4), Cells(17, 15))    'Decils      Rangs de valors
Set r_f(2, 3) = Range(Cells(28, 4), Cells(45, 15))    'Guanyadors  Rangs de valors

.....
'Escriu els resultats numèrics'
.....

r_f(1, 1).Copy Destination:=r_f(1, 2)
r_f(1, 2).Rows(4).Columns(1).Value = "Quota      SIMULACIÓ-" & COMP(1)
r_f(1, 2).Rows(10).Columns(1).Value = "Quota      SIMULACIÓ-" & COMP(2)
r_f(1, 2).Rows(16).Columns(1).Value = "SIMULACIÓ-" & COMP(1)
r_f(1, 2).Rows(19).Columns(1).Value = "SIMULACIÓ-" & COMP(2)
For il = 1 To 3
    r_f(1, 2).Rows(15 + il).Columns(4).Value = s(1, il)
    r_f(1, 2).Rows(18 + il).Columns(4).Value = s(2, il)
    If s(1, il) = s(2, il) Then
        nota(il) = "Neutral"
    ElseIf s(1, il) > s(2, il) Then
        nota(il) = "Pèrdua en recaptació"
    Else
        nota(il) = "Guany en recaptació"
    End If
    r_f(1, 2).Rows(18).Columns(6 + 2 * (il - 1)).Value = nota(il)
    If nota(il) <> "Neutral" Then
        r_f(1, 2).Rows(19).Columns(6 + 2 * (il - 1)).Value = s(2, il) - s(1, il)
    Else
        With Range(Cells(21, 6 + 2 * (il - 1)), Cells(23, 6 + 2 * (il - 1)))
```

```

        .Interior.Pattern = xlCrissCross
        .MergeCells = True
        .Value = ""
    End With
End If
    r_f(1, 2).Rows(18 + il).Columns(15).Value = nobs(il)
Next il
r_f(1, 3).Value = ds

r_f(2, 1).Copy Destination:=r_f(2, 2)
r_f(2, 3).Value = gp
r_f(2, 3).ShrinkToFit = True

LLIBRE_FORMATS.Close

ActiveWindow.SelectedSheets.HPageBreaks.Add (Cells(46, 1))

'Gràfics G-P'

fila = 0
For il = 1 To 3

    For j1 = 1 To 12
        If Abs(r_f(1, 3).Rows(il).Columns(j1)) > 0.001 Or _
            Abs(r_f(2, 3).Rows(9 + il).Columns(j1)) > 0.001 Then
            avisgp(il) = True
            Exit For
        End If
    Next j1

    If avisgp(il) Then

        If il = 1 And avisgp(1) Then fila = fila + 45
        If il = 2 And avisgp(2) Then fila = fila + 45
        If il = 3 And avisgp(3) Then fila = fila + 45

        ReDim r_gp(1 To 2, 1 To 4) As Range

        Set r_gp(1, 1) = r_f(1, 3).Rows(2 * (il - 1) + 1) 'Quota Simulació-1'
        Set r_gp(2, 1) = r_f(1, 3).Rows(2 * (il - 1) + 7) 'Quota Simulació-2'
        Set r_gp(1, 2) = r_f(2, 3).Rows(il) ' % guanyadors'
        Set r_gp(2, 2) = r_f(2, 3).Rows(9 + il) ' % perdedors'
        Set r_gp(1, 3) = r_f(2, 3).Rows(3 + il) 'Total guanyys'
        Set r_gp(2, 3) = r_f(2, 3).Rows(12 + il) 'Total pèrdues'
        Set r_gp(1, 4) = r_f(2, 3).Rows(6 + il) 'Mitjana guanyadors'
        Set r_gp(2, 4) = r_f(2, 3).Rows(15 + il) 'Mitjana perdedors'
        r_gp(2, 2).NumberFormat = "0.00%;[Red]0.00%"

        With Range(Cells(fila + 1, 1), Cells(fila + 45, 15))
            .ColumnWidth = 6.43
            With .Font
                .Name = "Arial"
                .Size = 7
            End With
            .HorizontalAlignment = xlCenter
            .Interior.ColorIndex = 2
            .RowHeight = 11
        End With
        With Cells(fila + 1, 1)
            .Font.Bold = True
            .Font.Size = 10
            .HorizontalAlignment = xlLeft
            .RowHeight = 14
            .Value = "Grups de parentiu: " & IIf(il = 1, "1 i 2", IIf(il = 2, "3 i 4", "Tots"))
        End With

        Call COMUNS_43GRAFICS_GP(fila + 2, ANOID, "ID", "(G-P)", r_gp, 1)

        ActiveWindow.SelectedSheets.HPageBreaks.Add (Cells(fila + 46, 1))
    End If

Next il

For il = 1 To Worksheets("ID(G-P)").Shapes.Count - 1 Step 2
    Worksheets("ID(G-P)").Shapes(il).Left = 10 'Reposicionament imatges
Next il
For il = 2 To Worksheets("ID(G-P)").Shapes.Count Step 2
    Worksheets("ID(G-P)").Shapes(il).Left = 280 'Reposicionament imatges
Next il

```

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```

End Sub
Private Sub ISD_40ESCRIPURA(opcio)

Dim fila As Integer, i As Integer, il As Integer, j1 As Integer, k1 As Integer, llibre(1 To 2) As Integer, _
    nom As String, r_ref(1 To 2) As Range, r_f(1 To 4, 1 To 4) As Range, r_parms(1 To 2) As Range

ReDim ns(1 To 3), PAG(1 To 3, 1 To 3), ts(1 To 3, 1 To 2)

'.....
'r_f(1 to 5, 1)==> formats del llibre "FORMATS", full "ID"
'r_f(1 to 5, 2)==> formats del llibre "RESULTATS" temporals
'r_f(1 to 5, 3)==> formats del llibre "SIMCAT", full "ID(R)"
'r_f(1 to 5, 4)==> formats del llibre "SIMCAT", full "ID(R)" (només valors)
'.....

Application.ScreenUpdating = False

nom = ThisWorkbook.Path & "\DADES\Formats.XLSX"
Set LLIBRE_FORMATS = Workbooks.Open(nom)
llibre(1) = Workbooks.Count

Workbooks(llibre(1)).Activate           'llibre "FORMATS"

Sheets("ID").Activate

Set r_parms(1) = Range(Cells(1, 1), Cells(16, 13))    'Paràmetres

Set r_f(1, 1) = Range(Cells(18, 1), Cells(40, 12))   'Descriptiu
Set r_f(2, 1) = Range(Cells(42, 1), Cells(50, 14))   'Límits i mitjana per decils
Set r_f(3, 1) = Range(Cells(52, 1), Cells(90, 15))   'Decils
Set r_f(4, 1) = Range(Cells(92, 1), Cells(136, 6))   'Índexs

Set r_ref(1) = Range(Cells(182, 1), Cells(205, 12))  'Referència

'.....
'Crea el full de càlcul on escriu els resultats definitius
'.....

ThisWorkbook.Activate           'llibre "SIMCAT"

Call COMUNS_ONOMSFULLS("ID(R)")

ActiveWorkbook.Unprotect (SECRET)

'.....
'Escriu els resultats de la referència'
'.....

fila = 26

Sheets("SIMULADOR REFORMES IMPOSITIVES").Activate
Sheets("ID(R)").Activate
Set r_ref(2) = Range(Cells(1, 1), Cells(24, 12)) 'Referencia
With r_ref(2)
    .ColumnWidth = 6.43
    .RowHeight = 11
End With
r_ref(2).Rows(2).RowHeight = 14
r_ref(1).Copy Destination:=r_ref(2)
ActiveWindow.SelectedSheets.HPageBreaks.Add (Cells(fila - 1, 1))

For il = 1 To UBound(IRESULTS)

'.....
'Lectura en els arxius temporals de resultats'
'.....

nom = NOM_ID_SIMUL & "S" & ANOID & "_" & Trim(Str(IRESULTS(il))) & ".xlsx"
Set LLIBRE_RESULTATS = Workbooks.Open(nom)
llibre(2) = Workbooks.Count

Workbooks(llibre(2)).Activate           'llibre "RESULTATS"

Sheets("PARAMETRES").Activate           'Paràmetres
ReDim p(18, 6)
For i = 0 To 18
    For j1 = 1 To 6
        p(i, j1) = Cells(i + 1, j1)
    Next j1
Next i

Sheets("DESCRIPTIU").Activate           'Descriptiu
Set r_f(1, 2) = Range(Cells(1, 1), Cells(15, 8))

```

```

For i = 1 To 3
  ns(i) = Cells(15 + i, 1)
  ts(i, 1) = Cells(15 + i, 4)
  ts(i, 2) = Cells(15 + i, 5)
  For j1 = 1 To 3
    PAG(i, j1) = Cells(15 + i, j1 + 5)
  Next j1
Next i

Sheets("LIMITS-MITJANES").Activate          'Límits i mitjanes
Set r_f(2, 2) = Range(Cells(1, 1), Cells(6, 12))

Sheets("DECILS-TIPUS").Activate             'Decils i Tipus
Set r_f(3, 2) = Range(Cells(1, 1), Cells(36, 12))

Sheets("INDEXS").Activate                   'Índexs
Set r_f(4, 2) = Range(Cells(1, 1), Cells(42, 2))

.....
'Escriptura en el full definitiu de resultats'
.....

ThisWorkbook.Activate                       'llibre "SIMCAT"

With Range(Cells(fila - 1, 1), Cells(fila - 1 + 161, 15))
  .ColumnWidth = 6.43
  With .Font
    .Name = "Arial"
    .Size = 7
  End With
  .HorizontalAlignment = xlCenter
  .Interior.ColorIndex = 2
  .RowHeight = 10
End With
With Range(Cells(fila - 1, 1), Cells(fila - 1, 1))
  With .Font
    .Bold = True
    .Size = 10
  End With
  .HorizontalAlignment = xlLeft
  .RowHeight = 14
  .Value = "SIMULACIÓ-" & IRESULTS(i1) & " (Base de dades: " & ANOID & ")"
End With

Call ISD_41ESCRIPURA_PARAMETRES(fila, p, r_parms)

.....
'Rangs per a l'escriptura en el llibre SIMCAT full ID(R)'
.....

Set r_f(1, 3) = Range(Cells(fila + 17, 1), Cells(fila + 39, 12))   'Descriptiu
Set r_f(1, 4) = Range(Cells(fila + 21, 5), Cells(fila + 35, 12))
Set r_f(2, 3) = Range(Cells(fila + 41, 1), Cells(fila + 49, 14))   'Límits i mitjanes per decils
Set r_f(2, 4) = Range(Cells(fila + 44, 3), Cells(fila + 49, 14))
Set r_f(3, 3) = Range(Cells(fila + 51, 1), Cells(fila + 89, 15))   'Decils
Set r_f(3, 4) = Range(Cells(fila + 54, 4), Cells(fila + 89, 15))
Set r_f(4, 3) = Range(Cells(fila + 91, 1), Cells(fila + 135, 6))   'Índexs
Set r_f(4, 4) = Range(Cells(fila + 94, 5), Cells(fila + 135, 6))

For j1 = 1 To 4
  r_f(j1, 1).Copy Destination:=r_f(j1, 3)
  r_f(j1, 2).Copy: r_f(j1, 4).PasteSpecial xlPasteValues
Next j1

With Range(Cells(fila + 90, 1), Cells(fila + 90, 1))
  With .Font
    .Bold = True
    .Size = 10
  End With
  .HorizontalAlignment = xlLeft
  .RowHeight = 14
  .Value = "SIMULACIÓ-" & IRESULTS(i1) & " (Base de dades: " & ANOID & ")"
End With

For i = 1 To 3
  r_f(1, 3).Rows(20 + i).Columns(5).Value = ns(i)
  r_f(1, 3).Rows(20 + i).Columns(8).Value = ts(i, 1)
  r_f(1, 3).Rows(20 + i).Columns(9).Value = ts(i, 2)
  For j1 = 1 To 3
    r_f(1, 3).Rows(20 + i).Columns(j1 + 9).Value = PAG(i, j1)
  Next j1
Next i

```

```

LLIBRE_RESULTATS.Close

ActiveWindow.SelectedSheets.HPageBreaks.Add (Cells(fil a + 90, 1))
ActiveWindow.SelectedSheets.HPageBreaks.Add (Cells(fil a + 136, 1)) '161

'.....
'Rangs dels gràfics
'.....

ReDim r_g(1 To 3, 1 To 4) As Range

For k1 = 1 To 3
    j1 = 2 * (k1 - 1)
    Set r_g(1, 1) = r_f(3, 4).Rows(2 + j1)      'BI acum. (sim)
    Set r_g(2, 1) = r_f(3, 4).Rows(26 + j1)   'QT acum. (sim)
    Set r_g(3, 1) = r_f(3, 4).Rows(26 + j1)   'QT acum. (sim)
    Set r_g(1, 2) = r_f(3, 4).Rows(8 + j1)    'BL acum. (sim)
    Set r_g(2, 2) = r_f(3, 4).Rows(26 + j1)   'QT acum. (sim)
    Set r_g(3, 2) = r_f(3, 4).Rows(26 + j1)   'QT acum. (sim)

    Set r_g(1, 3) = r_f(3, 4).Rows(30 + k1)    'QT s/BI (sim)
    Set r_g(1, 4) = r_f(3, 4).Rows(33 + k1)    'QT s/BL (sim)

    Call ISD_42ESCRIPURA_GRAFICS(fil a + 137 + (k1 - 1) * 46, k1, r_g, IRESULTS(il))

Next k1

fil a = fil a + 276 '441
If il < UBound(IRESULTS) Then ActiveWindow.SelectedSheets.HPageBreaks.Add (Cells(fil a - 1, 1)) '161

Next il

LLIBRE_FORMATS.Close

Call COMUNS_5IMPRESSIO("ID", "R")

End Sub
Private Sub ISD_41ESCRIPURA_PARAMETRES(fil a, p, r_parms)

Dim il As Integer, j1 As Integer

Set r_parms(2) = Range(Cells(fil a, 1), Cells(fil a + 16, 13)) 'Paràmetres
r_parms(1).Copy Destination:=r_parms(2)

With r_parms(2)

    .Font.Size = 8

    For il = 1 To p(0, 2)                                'tarifa Grups 1 i 2
        For j1 = 1 To 3
            .Rows(3 + il).Columns(j1).Value = p(7 + il, j1)
        Next j1
    Next il
    If p(0, 2) <> 10 Then
        With Range(Cells(fil a + p(0, 2) + 3, 1), Cells(fil a + 12, 3))
            .Interior.Pattern = xlCrissCross
            .MergeCells = True
            .Value = ""
        End With
        With Range(Cells(fil a + p(0, 2) + 2, 1), Cells(fil a + p(0, 2) + 2, 3))
            With .Borders(xlEdgeBottom)
                .LineStyle = xlContinuous
                .Weight = xlMedium
            End With
        End With
    End If

    For il = 1 To p(0, 3)                                'tarifa Grups 3 i 4
        For j1 = 1 To 3
            .Rows(3 + il).Columns(3 + j1).Value = p(7 + il, j1 + 3)
        Next j1
    Next il
    If p(0, 3) <> 10 Then
        With Range(Cells(fil a + p(0, 3) + 3, 4), Cells(fil a + 12, 6))
            .Interior.Pattern = xlCrissCross
            .MergeCells = True
            .Value = ""
        End With
        With Range(Cells(fil a + p(0, 3) + 2, 4), Cells(fil a + p(0, 3) + 2, 6))
            With .Borders(xlEdgeBottom)
                .LineStyle = xlContinuous
                .Weight = xlMedium
            End With
        End With
    End If
End Sub

```

```

        End With
    End With
End If
j1 = Application.max(p(0, 2), p(0, 3))
If j1 <> 10 Then
    For il = j1 + 1 To 10
        Cells(fila + 2 + il, 4).Borders(xlEdgeLeft).LineStyle = xlNone
    Next il
End If

For j1 = 2 To 4                                'coeficients correctors
    .Rows(16).Columns(j1 - 1).Value = p(7, j1)
Next j1

If p(18, 1) <> 0 Or p(18, 2) <> 0 Or p(18, 3) <> 0 Or p(18, 4) <> 0 Then
    For j1 = 2 To 4                                'bonificacions quota
        .Rows(16).Columns(j1 + 2).Value = p(18, j1)
    Next j1
Else
    With Range(Cells(fila + 13, 4), Cells(fila + 15, 6))
        .Borders(xlEdgeTop).LineStyle = xlNone
        .Interior.Pattern = xlCrisssCross
        .MergeCells = True
        .Value = ""
    End With
End If

For il = 1 To 3                                    'reduccions
    .Rows(il + 3).Columns(10).Value = p(il, 1)
Next il
.Rows(7).Columns(10).Value = 0.95                'explotacions agràries

.Rows(10).Columns(10).Value = p(5, 1)           'Alres(1)
.Rows(10).Columns(11).Value = p(5, 2)
.Rows(10).Columns(12).Value = p(5, 3)
.Rows(11).Columns(10).Value = p(6, 1)           'Altres(2)
.Rows(11).Columns(11).Value = p(6, 2)
.Rows(11).Columns(12).Value = p(6, 3)
.Rows(11).Columns(13).Value = p(6, 4)

End With

End Sub
Private Sub ISD_42ESCRIPTURA_GRAFICS(fila, k1, r_g, sim)

Dim il As Integer, i2 As Integer, j1 As Integer, m, nom() As String, s_r() As Boolean

.....
'Esriptura en el full definitiu de resultats'
.....

With Range(Cells(fila - IIf(k1 = 1, 1, 0), 1), Cells(fila + 46 - IIf(k1 = 1, 1, 0), 15)) '46
    .ColumnWidth = 6.43
    .Interior.ColorIndex = 2
    .RowHeight = 10
End With
With Range(Cells(fila - IIf(k1 = 1, 1, 0), 1), Cells(fila - IIf(k1 = 1, 1, 0), 1))
    .Font.Bold = True
    .Font.Size = 10
    .HorizontalAlignment = xlLeft
    .RowHeight = 14
    .Value = "GRÀFICS DE LA SIMULACIÓ-" & sim & " (Base de dades: " & ANOID & _
        ", Grups de parentiu: " & IIf(k1 = 1, "1 i 2)", IIf(k1 = 2, "3 i 4)", "Tots)")
End With

ReDim nom(1 To 4, 1 To 2), s_r(1 To 5, 1 To 3)

For il = 1 To 2
    nom(1, il) = "Sim-" & sim & IIf(il = 1, "(BI)", "(BL)")
    nom(2, il) = "Sim-" & sim & "(QT)"
    nom(3, il) = "Sim-" & sim & "(QT relativa)"
    nom(4, il) = "Equitat"
Next il

m = Round(Application.max(r_g(1, 3), r_g(1, 4)), 2)
If m = 0 Then m = 0.001

Call COMUNS_41GRAFICS_CORBESLORENZ(fila + IIf(k1 >= 2, 1, 0), False, "ID", nom, r_g, s_r) 'Lorenz
Call COMUNS_42GRAFICS_TIPUS(fila + 23 + IIf(k1 >= 2, 1, 0), False, "ID", m, r_g, s_r, sim) 'Tipus efectius

If k1 = 2 Then ActiveWindow.SelectedSheets.HPageBreaks.Add (Cells(fila + 46, 1)) '92

If k1 = 3 Then

```

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```

For il = 1 To Worksheets("ID(R)").Shapes.Count - 1 Step 2
    Worksheets("ID(R)").Shapes(il).Left = 20 'Reposicionament de les imatges'
Next il
For il = 2 To Worksheets("ID(R)").Shapes.Count Step 2
    Worksheets("ID(R)").Shapes(il).Left = 310 'Reposicionament de les imatges'
Next il
End If

End Sub
Private Sub IT_10PARAMETRES(opcio As Integer)

Dim il As Integer

ReDim aux(100) As Integer, aux1(1000), tram(8) As Integer

For il = 100 To 0 Step -1
    aux(100 - il) = il
    If il <= 8 Then tram(8 - il) = il + 1
Next il
For il = -500 To 500
    aux1(500 - il) = il / 10
Next il

If ISIMULS(4) <> 0 Then
    ReDim sims(1 To ISIMULS(4))
    For il = ISIMULS(4) To 1 Step -1
        sims(ISIMULS(4) - il + 1) = CIT(il)
    Next il
End If

ERR_LEC = True

Do While ERR_LEC
    With ITPOAJDOS
        .Caption = "SIMCAT-ITPOOSAJD: Tarifes" & " (Base de dades: " & ANOIT & ")"

        .ListBox112.List = tram
        .ListBox_TUB.List = aux
        .ListBox_TPO.List = aux1
        .ListBox_OS.List = aux1
        .ListBox_AJD.List = aux1
        .Llei.Value = True
        If ISIMULS(4) <> 0 Then
            .ListBox_SimulRef.List = sims
            .SimulRef.Visible = True
        End If
        .Show
    End With
    If SORTIR Then Exit Sub
Loop

End Sub
Private Sub IT_20SIMULACIO(temps)

'.....
'Variables d'interès
'.....
'v1 = Identificador
'v2 = TPO: 1 si meritacio abans de 30/06/2010, 2 entre 01/07/2010 i 31/07/2013, 3 a partir de 01/08/2013'
'v2 = OS: 1 sempre
'v2 = AJD: 1 si meritacio abans de 30/06/2010, 2 entre 01/07/2010 i 23/03/2012, 3 a partir de 24/03/2012'
'v67 = (1=TPO, 2=OS, 3=AJD)
'v8 = codi tarifa
'tpo = tarifes numerades TPO
'os = tarifes numerades OS
'ajd = tarifes numerades AJD
'v45 = Base imposable
'v50 = percentatge reducció
'v64 = percentatge bonificació
'v66 = quota tributària
'.....

'.....
'Declaracions de variables del fitxer de lectura'
'.....

Dim ajd As Integer, os As Integer, tpo As Integer, v1 As Long, v2 As Integer, v67 As String, v8 As String, _
    v45 As Double, v52 As Double, v64 As Double, v66 As Double

'.....
'Declaracions de variables utilitzades
'.....

```

```
Dim aux, i1 As Long, j0 As Integer, j1 As Integer, j2 As Integer, k1 As Integer, k2 As Integer, v66b As Double
ReDim l(43) As Long, SUMA(1 To 2, 1 To 3), VT(55, 10), vx(43, 1 To 6), y(1 To 3)
```

```
.....
'Primera lectura de dades'
.....

j0 = 1
NT1 = 0
NT2 = 0
NT3 = 0

Open NOM_IT_DADES & ANOIT & ".dat" For Input As #1

.....
'Open "C:\SIMCAT\errors.dat" For Output As #10
.....

Input #1, N1, N2, N3

N = N1 + N2 + N3
ReDim IND(1 To N, 1 To 1), X(1 To N, 1 To 3)

For i1 = 1 To N

    Input #1, v1, v2, v67, v8, tpo, os, ajd, v45, v52, v64, v66
    y(3) = 1                                     'pes fictici

    If i1 <= N1 Then

        v45 = v45 * PROJ(1)

        For j1 = 1 To 17
            If tpo = j1 Then
                l(j1) = l(j1) + 1
                v66b = v52 * PROJ(1) * TIPUS_TPO(j1)      'Tarifes TPO (Projectant BI)
            End If
        Next j1

        If v64 <> 0 Then
            If tpo = 1 Then
                v66b = v66b * (1 - IIf(v64 = 70, BON_TUB, v64 / 100))  'Rectificació bonificació tarifa TUB
            Else
                v66b = v66b * (1 - (v64 / 100))
            End If
        End If
        NT1 = NT1 + y(3)

    ElseIf i1 <= N1 + N2 Then

        v45 = v45 * PROJ(2)
        For j1 = 1 To 7
            If os = j1 Then
                l(18 + j1) = l(18 + j1) + 1
                v66b = v52 * PROJ(2) * TIPUS_OS(j1)      'Tarifes OS (Projectant la BI)
            End If
        Next j1
        If v64 <> 0 Then v66b = v66b * (1 - (v64 / 100))
        NT2 = NT2 + y(3)

    Else

        v45 = v45 * PROJ(3)
        For j1 = 1 To 17
            If ajd = j1 Then
                l(26 + j1) = l(26 + j1) + 1
                v66b = v52 * PROJ(3) * TIPUS_AJD(j1)    'Tarifes AJD (Projectant la BI)
            End If
        Next j1
        If v64 <> 0 Then v66b = v66b * (1 - (v64 / 100))
        NT3 = NT3 + y(3)
    End If

    .....
    'If Abs(v66 - v66b) > 1 Then Write #10, V1, v30062010, v23032012, v31072013, v67, v8, tpo, os, ajd, v45, v52,
    v64, v66, v66b
    .....
    .....

j2 = IIf(i1 <= N1, 0, IIf(i1 <= N1 + N2, 18, 26))
For k1 = 1 To 2
```

```

y(k1) = Iif(k1 = 1, v45, v66b)
k2 = 3 * (k1 - 1)
If y(k1) <> 0 Then
  vx(j2, k2 + 1) = vx(j2, k2 + 1) + (y(k1) * y(3))
  vx(j2, k2 + 2) = vx(j2, k2 + 2) + ((y(k1) ^ 2) * (y(3) ^ 2))
  vx(j2, k2 + 3) = vx(j2, k2 + 3) + 1
  For j1 = 1 To Iif(il <= N1, 17, Iif(il <= N1 + N2, 7, 17))
    If Iif(il <= N1, tpo, Iif(il <= N1 + N2, os, ajd)) = j1 Then
      vx(j1 + j2, k2 + 1) = vx(j1 + j2, k2 + 1) + (y(k1) * y(3))
      vx(j1 + j2, k2 + 2) = vx(j1 + j2, k2 + 2) + ((y(k1) ^ 2) * (y(3) ^ 2))
      vx(j1 + j2, k2 + 3) = vx(j1 + j2, k2 + 3) + 1
    End If
  Next j1
End If
Next k1

If j0 <= 10 Then
  If il / N >= j0 / 10 Then
    Application.ScreenUpdating = True
    Application.StatusBar = "Processat " & (j0 * 9) & "%"
    Application.ScreenUpdating = False
    j0 = j0 + 1
  End If
End If

X(il, 1) = v45
X(il, 2) = v66b
X(il, 3) = 1

Next il
Close #1

.....
'Close #10
.....

.....
'Guarda(Descriptiu) a VT'
.....

l(0) = N1
l(18) = N2
l(26) = N3
For j1 = 0 To 17
  VT(j1, 1) = IT_TARIFA_TPO(j1)
  VT(j1, 2) = l(j1)
Next j1
For j1 = 0 To 7
  VT(18 + j1, 1) = IT_TARIFA_OS(j1)
  VT(18 + j1, 2) = l(18 + j1)
Next j1
For j1 = 0 To 17
  VT(26 + j1, 1) = IT_TARIFA_AJD(j1)
  VT(26 + j1, 2) = l(26 + j1)
Next j1

For k1 = 1 To 2
  k2 = 3 * (k1 - 1)
  For j1 = 0 To 43
    VT(j1, Iif(k1 = 1, 3, 7)) = vx(j1, k2 + 1)
    If VT(j1, 2) > 300 Then
      If vx(j1, k2 + 2) - ((vx(j1, k2 + 1) ^ 2) / vx(j1, k2 + 3)) > 0 Then
        VT(j1, Iif(k1 = 1, 4, 8)) = Sqr(vx(j1, k2 + 2) - ((vx(j1, k2 + 1) ^ 2) / vx(j1, k2 + 3)))
        VT(j1, Iif(k1 = 1, 5, 9)) = VT(j1, Iif(k1 = 1, 3, 7)) - 1.96 * VT(j1, Iif(k1 = 1, 4, 8))
        VT(j1, Iif(k1 = 1, 6, 10)) = VT(j1, Iif(k1 = 1, 3, 7)) + 1.96 * VT(j1, Iif(k1 = 1, 4, 8))
      End If
    End If
  Next j1
Next k1

For j1 = 1 To 44
  If VT(j1, 2) = 0 Then
    For k1 = 3 To 10
      VT(j1, k1) = "-----"
    Next k1
  End If
  If VT(j1, 4) = 0 Or VT(j1, 5) < 0 Then
    VT(j1, 4) = "-----"
    VT(j1, 5) = "-----"
    VT(j1, 6) = "-----"
  End If
  If VT(j1, 8) = 0 Or VT(j1, 9) < 0 Then
    VT(j1, 8) = "-----"

```

```

        VT(j1, 9) = "----"
        VT(j1, 10) = "----"
    End If
Next j1

SUMA(1, 1) = VT(0, 3)
SUMA(2, 1) = VT(0, 7)
SUMA(1, 2) = VT(18, 3)
SUMA(2, 2) = VT(18, 7)
SUMA(1, 3) = VT(26, 3)
SUMA(2, 3) = VT(26, 7)

Call IT_21ORDENA(0)
Application.ScreenUpdating = True
Application.StatusBar = "Processat 95%"
Application.ScreenUpdating = False

Call IT_22INDEXS(3)
Application.ScreenUpdating = True
Application.StatusBar = "Processat 98%"
Application.ScreenUpdating = False

temps = Timer - temps

End Sub
Private Sub IT_20SIMULACIO_antic(temps)
.....
'Variables d'interès
.....
'v1 = Identificador
'v2 = TPO: 1 si meritacio abans de 30/06/2010, 2 entre 01/07/2010 i 31/07/2013, 3 a partir de 01/08/2013'
'v2 = OS: 1 sempre
'v2 = AJD: 1 si meritacio abans de 30/06/2010, 2 entre 01/07/2010 i 23/03/2012, 3 a partir de 24/03/2012'
'v67 = (1=TPO, 2=OS, 3=AJD)
'v8 = codi tarifa
'tpo = tarifes numerades TPO
'os = tarifes numerades OS
'ajd = tarifes numerades AJD
'v45 = Base imposable
'v50 = percentatge reducció
'v64 = percentatge bonificació
'v66 = quota tributària
.....

.....
'Declaracions de variables del fitxer de lectura'
.....

Dim ajd As Integer, os As Integer, tpo As Integer, v1 As Long, v2 As Integer, v67 As String, v8 As String, _
    v45 As Double, v52 As Double, v64 As Double, v66 As Double

.....
'Declaracions de variables utilitzades
.....

Dim aux, aux1, il As Long, j0 As Integer, j1 As Integer, j2 As Integer, k1 As Integer, k2 As Integer, v66b As
Double
ReDim l(43) As Long, SUMA(1 To 2, 1 To 3), VT(55, 10), vx(43, 1 To 6), y(1 To 3)

.....
'Primera lectura de dades'
.....

j0 = 1
NT1 = 0
NT2 = 0
NT3 = 0

Open NOM_IT_DADES & ANOIT & ".dat" For Input As #1

.....
'Open "C:\SIMCAT\errors.dat" For Output As #10
.....

Input #1, N1, N2, N3

N = N1 + N2 + N3
ReDim IND(1 To N, 1 To 1), X(1 To N, 1 To 3)

For il = 1 To N

```

```

    auxt = 0
de meritació                                     'Per a calcular la tarifa segons la data

Input #1, v1, v2, v67, v8, tpo, os, ajd, v45, v52, v64, v66
y(3) = 1                                         'pes fictici

If i1 <= N1 Then

    v45 = v45 * PROJ(1)

.....
'
' Per a calcular la tarifa segons la data de meritació
'
' If v8 = "TUB" Or v8 = "TRT" Or v8 = "TV0" Or v8 = "TAM" Then
'   If v2 = 1 Then auxt = 0.01
'   End If
'
.....

For j1 = 1 To 17
  If tpo = j1 Then
    l(j1) = l(j1) + 1
    If j1 <> 13 Then
      v66b = v52 * PROJ(1) * (TIPUS_TPO(j1) - auxt)      'Tarifes TPO (Projectant BI)
    End If
  End If
Next j1

If tpo = 13 Then                                     'Tarifa AUR-TPO
  v52 = v52 * PROJ(1)
  For j1 = 1 To NTRAMS_AUR
    If j1 = 1 Then
      If v52 <= TRAMS_AUR(j1) Then
        v66b = IMPORT_AUR(j1)
        GoTo FORATRAMS
      End If
    ElseIf j1 > 1 And j1 <= NTRAMS_AUR Then
      If v52 > TRAMS_AUR(j1 - 1) And v52 <= TRAMS_AUR(j1) Then
        v66b = IMPORT_AUR(j1)
        GoTo FORATRAMS
      End If
    End If
  Next j1
FORATRAMS:
  If v52 > TRAMS_AUR(NTRAMS_AUR) Then
    aux = (v52 - TRAMS_AUR(NTRAMS_AUR)) / TRAMS_AUR(NTRAMS_AUR + 1)
    v66b = IMPORT_AUR(NTRAMS_AUR) + IMPORT_AUR(NTRAMS_AUR + 1) * aux
  End If
End If

If v64 <> 0 Then
  If tpo = 1 Then
    v66b = v66b * (1 - IIf(v64 = 70, BON_TUB, v64 / 100))  'Rectificació bonificació tarifa TUB
  Else
    v66b = v66b * (1 - (v64 / 100))
  End If
End If
NT1 = NT1 + y(3)

ElseIf i1 <= N1 + N2 Then

  v45 = v45 * PROJ(2)
  For j1 = 1 To 7
    If os = j1 Then
      l(18 + j1) = l(18 + j1) + 1
      v66b = v52 * PROJ(2) * TIPUS_OS(j1)                  'Tarifes OS (Projectant la BI)
    End If
  Next j1
  If v64 <> 0 Then v66b = v66b * (1 - (v64 / 100))
  NT2 = NT2 + y(3)

Else

.....
'
' Per a calcular la tarifa segons la data de meritació
'
' If v8 = "AJ0" Or v8 = "AJ1" Or v8 = "AJ2" Or v8 = "AJ3" Or v8 = "AJ4" Or _
'   v8 = "AJ6" Or v8 = "AJ7" Or v8 = "AJ8" Or v8 = "AIC" Or v8 = "AIM" Then
'   If v2 = 1 Then auxt = 0.005
'   If v2 = 2 Then auxt = 0.003
'   End If
'   If v8 = "AJ5" And v2 <> 3 Then auxt = 0.003
'
.....

```

```

v45 = v45 * PROJ(3)
For j1 = 1 To 17
  If ajd = j1 Then
    l(26 + j1) = l(26 + j1) + 1
    v66b = v52 * PROJ(3) * (TIPUS_AJD(j1) - aux1)          'Tarifes AJD (Projectant la BI)
  End If
Next j1
If v64 <> 0 Then v66b = v66b * (1 - (v64 / 100))
NT3 = NT3 + Y(3)
End If

.....
'If Abs(v66 - v66b) > 1 Then Write #10, V1, v30062010, v23032012, v31072013, v67, v8, tpo, os, ajd, v45, v52,
v64, v66, v66b
.....

j2 = IIf(i1 <= N1, 0, IIf(i1 <= N1 + N2, 18, 26))
For k1 = 1 To 2
  y(k1) = IIf(k1 = 1, v45, v66b)
  k2 = 3 * (k1 - 1)
  If y(k1) <> 0 Then
    vx(j2, k2 + 1) = vx(j2, k2 + 1) + (y(k1) * y(3))
    vx(j2, k2 + 2) = vx(j2, k2 + 2) + ((y(k1) ^ 2) * (y(3) ^ 2))
    vx(j2, k2 + 3) = vx(j2, k2 + 3) + 1
    For j1 = 1 To IIf(i1 <= N1, 17, IIf(i1 <= N1 + N2, 7, 17))
      If IIf(i1 <= N1, tpo, IIf(i1 <= N1 + N2, os, ajd)) = j1 Then
        vx(j1 + j2, k2 + 1) = vx(j1 + j2, k2 + 1) + (y(k1) * y(3))
        vx(j1 + j2, k2 + 2) = vx(j1 + j2, k2 + 2) + ((y(k1) ^ 2) * (y(3) ^ 2))
        vx(j1 + j2, k2 + 3) = vx(j1 + j2, k2 + 3) + 1
      End If
    Next j1
  End If
Next k1

If j0 <= 10 Then
  If i1 / N >= j0 / 10 Then
    Application.ScreenUpdating = True
    Application.StatusBar = "Processat " & (j0 * 9) & "%"
    Application.ScreenUpdating = False
    j0 = j0 + 1
  End If
End If

X(i1, 1) = v45
X(i1, 2) = v66b
X(i1, 3) = 1

Next i1
Close #1

.....
'Close #10
.....

'Guarda(Descriptiu) a VT'
.....

l(0) = N1
l(18) = N2
l(26) = N3
For j1 = 0 To 17
  VT(j1, 1) = IT_TARIFA_TPO(j1)
  VT(j1, 2) = l(j1)
Next j1
For j1 = 0 To 7
  VT(18 + j1, 1) = IT_TARIFA_OS(j1)
  VT(18 + j1, 2) = l(18 + j1)
Next j1
For j1 = 0 To 17
  VT(26 + j1, 1) = IT_TARIFA_AJD(j1)
  VT(26 + j1, 2) = l(26 + j1)
Next j1

For k1 = 1 To 2
  k2 = 3 * (k1 - 1)
  For j1 = 0 To 43
    VT(j1, IIf(k1 = 1, 3, 7)) = vx(j1, k2 + 1)
    If VT(j1, 2) > 300 Then
      If vx(j1, k2 + 2) - ((vx(j1, k2 + 1) ^ 2) / vx(j1, k2 + 3)) > 0 Then
        VT(j1, IIf(k1 = 1, 4, 8)) = Sqr(vx(j1, k2 + 2) - ((vx(j1, k2 + 1) ^ 2) / vx(j1, k2 + 3)))
      End If
    End If
  Next j1
Next k1

```

```

        VT(j1, IIf(k1 = 1, 5, 9)) = VT(j1, IIf(k1 = 1, 3, 7)) - 1.96 * VT(j1, IIf(k1 = 1, 4, 8))
        VT(j1, IIf(k1 = 1, 6, 10)) = VT(j1, IIf(k1 = 1, 3, 7)) + 1.96 * VT(j1, IIf(k1 = 1, 4, 8))
    End If
End If
Next j1
Next k1

For j1 = 1 To 44
    If VT(j1, 2) = 0 Then
        For k1 = 3 To 10
            VT(j1, k1) = "-----"
        Next k1
    End If
    If VT(j1, 4) = 0 Or VT(j1, 5) < 0 Then
        VT(j1, 4) = "-----"
        VT(j1, 5) = "-----"
        VT(j1, 6) = "-----"
    End If
    If VT(j1, 8) = 0 Or VT(j1, 9) < 0 Then
        VT(j1, 8) = "-----"
        VT(j1, 9) = "-----"
        VT(j1, 10) = "-----"
    End If
Next j1

SUMA(1, 1) = VT(0, 3)
SUMA(2, 1) = VT(0, 7)
SUMA(1, 2) = VT(18, 3)
SUMA(2, 2) = VT(18, 7)
SUMA(1, 3) = VT(26, 3)
SUMA(2, 3) = VT(26, 7)

Call IT_21ORDENA(0)
Application.ScreenUpdating = True
Application.StatusBar = "Processat 95%"
Application.ScreenUpdating = False

Call IT_22INDEXS(3)
Application.ScreenUpdating = True
Application.StatusBar = "Processat 98%"
Application.ScreenUpdating = False

temps = Timer - temps

End Sub
Private Sub IT_21ORDENA(opcio As Integer)

Dim i1 As Long, i2 As Long, i3 As Long, k1 As Integer
ReDim y(1 To N)

For k1 = 1 To 3
    'k1=1 ==>TPO k1=2 ==>OS k1=3 ==>AJD

    i2 = IIf(k1 = 1, 1, IIf(k1 = 2, N1 + 1, N1 + N2 + 1))
    i3 = IIf(k1 = 1, N1, IIf(k1 = 2, N1 + N2, N1 + N2 + N3))

    For i1 = i2 To i3

        y(i1) = X(i1, 1) + ((i1 / N) ^ 0.001) 'Suma quantitat per eliminar repeticions
        IND(i1, 1) = i1

    Next i1

    Call COMUNS_2ORDENA_AUX(i2, i3, 1) 'Crida a la rutina per a ordenar

Next k1

End Sub
Private Sub IT_22INDEXS(pes)

'pes=posicio pes (3)

Dim aconc, agini, asuit, auxm1, auxm2, auxmp, auxn As Long, _
    auxnt, axx_b, axx_p, c, daux(1 To 4), g, il As Long, _
    i2 As Long, i3 As Long, j1 As Integer, k, s, sxx_b As Double
ReDim xx_b(1 To N), xx_p(1 To N) As Double

.....
'Calcula: xx_b(1 to N) = (BI * factor) acumulades / s(variables * factor)
'Calcula: xx_p(1 to N) = població acumulada/NT
.....

For j1 = 1 To 3

```

```

i2 = IIf(j1 = 1, 1, IIf(j1 = 2, N1 + 1, N1 + N2 + 1))
i3 = IIf(j1 = 1, N1, IIf(j1 = 2, N1 + N2, N1 + N2 + N3))
auxn = IIf(j1 = 1, N1, IIf(j1 = 2, N2, N3))
auxnt = IIf(j1 = 1, NT1, IIf(j1 = 2, NT2, NT3))

axx_b = 0
If SUMA(1, j1) <> 0 Then
  For il = i2 To i3
    axx_b = axx_b + (X(IND(il, 1), 1) * X(IND(il, 1), pes))
    xx_b(il) = axx_b / SUMA(1, j1) 'BI
  Next il
End If

axx_p = 0
For il = i2 To i3
  axx_p = axx_p + X(IND(il, 1), pes)
  xx_p(il) = axx_p / auxnt 'pes
Next il

auxm1 = SUMA(1, j1) / auxnt
auxm2 = SUMA(2, j1) / auxnt
auxmp = auxnt / auxn

agini = 0
sxx_b = 0

If SUMA(1, j1) <> 0 Then

  For il = i2 To i3
    daux(1) = X(IND(il, 1), 1) - auxm1
    daux(2) = xx_p(il) - auxmp
    daux(3) = X(IND(il, 1), pes)
    agini = agini + (daux(1) * daux(2) * daux(3))
    sxx_b = sxx_b + xx_b(il) 's.acum. BI
  Next il

  If agini <> 0 Then g = 2 / auxm1 * (agini / auxnt) 'gini
End If

aconc = 0
asuit = 0
If SUMA(2, j1) <> 0 Then

  For il = i2 To i3
    daux(1) = X(IND(il, 1), 2) - auxm2
    daux(2) = xx_p(il) - auxmp
    daux(3) = X(IND(il, 1), pes)
    daux(4) = xx_b(il) - (sxx_b / auxn)
    aconc = aconc + (daux(1) * daux(2) * daux(3))
    asuit = asuit + (daux(1) * daux(4) * daux(3))
  Next il

  If aconc <> 0 Then c = 2 / auxm2 * (aconc / auxnt) 'concentració
  k = c - g 'kakwani
  s = (2 * (asuit / auxnt) / auxm2) - g 'suits
End If

.....
'Guarda els resultats(Índexs) a VT'
.....

VT(44, 0) = "Índexs" '42
VT(43 + j1, 1) = g '41
VT(46 + j1, 1) = c '44
VT(49 + j1, 1) = k '47
VT(52 + j1, 1) = s '50

Next j1

End Sub
Private Sub IT_30COMPARACIO(opcio As Integer)

Dim nom As String, llibre(1 To 3) As Integer, llibre_r(1 To 3) As Workbook, r_f(7) As Range

.....
'r_f(0) ==> formats del llibre QUOTA Simulació-COMP(1) Tarifes '
'r_f(1) ==> formats del llibre QUOTA Simulació-COMP(1) '
'r_f(2) ==> formats del llibre QUOTA Simulació-COMP(2) '
'r_f(1) ==> formats del llibre "FORMATS", full "ITPOOSAJD" '
'r_f(4) ==> formats del llibre "SIMCAT", full "ITPOOSAJD(G-P)" '
'r_f(5) ==> formats del llibre "SIMCAT", full "ITPOOSAJD(G-P)" (només valors)'

```

```

.....

Application.ScreenUpdating = False

nom = NOM_IT_SIMUL & "S" & ANOIT & "_" & Trim(Str(COMP(1))) & ".xlsx"
Set llibre_r(1) = Workbooks.Open(nom)
llibre(1) = Workbooks.Count

Workbooks(llibre(1)).Activate           'llibre Simulació COMP(1)
Sheets("DESCRIPTIU").Activate
Set r_f(0) = Range(Cells(1, 1), Cells(44, 1)) 'Tarifes
Set r_f(1) = Range(Cells(1, 7), Cells(44, 7)) 'Quota COMP(1)

N = Cells(Range(Cells(1, 2), Cells(1, 2)).End(xlDown).Row, 2) 'Recupera el nombre de liquidacions total

nom = NOM_IT_SIMUL & "S" & ANOIT & "_" & Trim(Str(COMP(2))) & ".xlsx"
Set llibre_r(2) = Workbooks.Open(nom)
llibre(2) = Workbooks.Count

Workbooks(llibre(2)).Activate           'llibre Simulació COMP(2)
Sheets("DESCRIPTIU").Activate
Set r_f(2) = Range(Cells(1, 7), Cells(44, 7)) 'Quota COMP(2)

nom = ThisWorkbook.Path & "\DADES\Formats.XLSX"
Set llibre_r(3) = Workbooks.Open(nom)
llibre(3) = Workbooks.Count

Workbooks(llibre(3)).Activate           'llibre "FORMATS"
Sheets("ITPOOSAJD").Activate
Set r_f(3) = Range(Cells(89, 1), Cells(136, 6)) 'Comparació

'.....
'Crea el full de càlcul on escriu els resultats definitius'
'.....

ThisWorkbook.Activate                   'llibre "SIMCAT"

Call COMUNS_ONOMSFULLS("ITPOOSAJD(G-P)")

ActiveWorkbook.Unprotect (SECRET)

Sheets("SIMULADOR REFORMES IMPOSITIVES").Activate
Sheets("ITPOOSAJD(G-P)").Activate

'.....
'Configura el rang d'escriptura'
'.....

With Range(Cells(1, 1), Cells(48, 6))
    .Font.Bold = True
    .Font.Name = "Arial"
    .Font.Size = 8
    .RowHeight = 10
End With
Cells(1, 1).RowHeight = 12
Set r_f(4) = Range(Cells(2, 1), Cells(49, 6))
Set r_f(5) = Range(Cells(5, 2), Cells(48, 2))
Set r_f(6) = Range(Cells(5, 3), Cells(48, 3))
Set r_f(7) = Range(Cells(5, 4), Cells(48, 4))

Cells(1, 1).Value = "COMPARACIÓ SIMULACIÓ-" & COMP(1) & " vs. SIMULACIÓ-" & COMP(2) & " (Base de dades: " &
ANOIT & ")"
r_f(3).Copy Destination:=r_f(4)           'Format COMPARACIÓ
r_f(0).Copy: r_f(5).PasteSpecial xlPasteValues 'Tarifes
r_f(1).Copy: r_f(6).PasteSpecial xlPasteValues 'Quota COMP(1)
r_f(2).Copy: r_f(7).PasteSpecial xlPasteValues 'Quota COMP(2)
Cells(4, 3).Value = "Simulació-" & COMP(1)
Cells(4, 4).Value = "Simulació-" & COMP(2)

llibre_r(1).Close
llibre_r(2).Close
llibre_r(3).Close

Call COMUNS_5IMPRESSIO("ITPOOSAJD", "G-P")

End Sub
Private Sub IT_40ESCRIPURA(opcio)

Dim fila As Integer, i As Integer, il As Integer, jl As Integer, _
    llibre(1 To 2) As Integer, nom As String, _
    r_ref(1 To 3) As Range, r_f(1 To 2, 1 To 4) As Range, r_parms(1 To 2) As Range

```

```

'r_f(1 to 2, 1) ==> formats del llibre "FORMATS", full "ITPOOSAJD"
'r_f(1 to 2, 2) ==> formats del llibre "RESULTATS" temporals
'r_f(1 to 2, 3) ==> formats del llibre "SIMCAT", full "ITPOOSAJD(R)"
'r_f(1 to 2, 4) ==> formats del llibre "SIMCAT", full "ITPOOSAJD(R)" (només valors)
.....

Application.ScreenUpdating = False

nom = ThisWorkbook.Path & "\DADES\Formats.XLSX"
Set LLIBRE_FORMATS = Workbooks.Open(nom)
llibre(1) = Workbooks.Count

Workbooks(llibre(1)).Activate          'llibre "FORMATS"

Sheets("ITPOOSAJD").Activate

Set r_parms(1) = Range(Cells(1, 1), Cells(22, 9))  'Paràmetres

Set r_f(1, 1) = Range(Cells(24, 1), Cells(72, 11)) 'Descriptiu
Set r_f(2, 1) = Range(Cells(74, 1), Cells(87, 5))  'Indexs

Set r_ref(1) = Range(Cells(138, 1), Cells(210, 11)) 'Referència

.....
'Crea el full de càlcul on escriu els resultats definitius'
.....

ThisWorkbook.Activate                  'llibre "SIMCAT"

Call COMUNS_ONOMSFULLS("ITPOOSAJD(R)")

ActiveWorkbook.Unprotect (SECRET)

.....
'Escriu els resultats de la referència
.....

Sheets("SIMULADOR REFORMES IMPOSITIVES").Activate
Sheets("ITPOOSAJD(R)").Activate
Set r_ref(2) = Range(Cells(1, 1), Cells(73, 11))
With r_ref(2)
    .ColumnWidth = 11
    .RowHeight = 10
End With
r_ref(1).Copy Destination:=r_ref(2)
ActiveWindow.SelectedSheets.HPageBreaks.Add (Cells(74, 1))

fila = 75

For il = 1 To UBound(IRESULTS)

    .....
    'Lectura en els arxius temporals de resultats'
    .....

    nom = NOM_IT_SIMUL & "S" & ANOIT & "_" & Trim(Str(IRESULTS(il))) & ".xlsx"
    Set LLIBRE_RESULTATS = Workbooks.Open(nom)
    llibre(2) = Workbooks.Count

    Workbooks(llibre(2)).Activate          'llibre "RESULTATS"

    Sheets("PARAMETRES").Activate          'Paràmetres
    ReDim p(19, 9)
    For i = 0 To UBound(p, 1)
        For j1 = 1 To UBound(p, 2)
            p(i, j1) = Cells(i + 1, j1)
        Next j1
    Next i

    Sheets("DESCRIPTIU").Activate          'Descriptiu
    Set r_f(1, 2) = Range(Cells(1, 1), Cells(44, 10))

    Sheets("INDEXS").Activate              'Indexs
    Set r_f(2, 2) = Range(Cells(1, 1), Cells(12, 1))

    .....
    'Esriptura en el full definitiu de resultats'
    .....

    ThisWorkbook.Activate                  'llibre "SIMCAT"

    With Range(Cells(fila - 1, 1), Cells(fila + 86, 11))
        .ColumnWidth = 11

```

```

With .Font
    .Bold = True
    .Name = "Arial"
    .Size = 8
End With
.HorizontalAlignment = xlCenter
.Interior.ColorIndex = 2
.RowHeight = 10
End With
With Range(Cells(fil a - 1, 1), Cells(fil a - 1, 1))
    .HorizontalAlignment = xlLeft
    .Value = "SIMULACIÓ-" & IRESULTS(i1) & " (Base de dades: " & ANOIT & ")"
End With

Call IT_41ESCRITURA_PARAMETRES(fil a, p, r_parms)

'.....
'Rangs per a l'escriptura en el llibre SIMCAT full IT(R)'
'.....

Set r_f(1, 3) = Range(Cells(fil a + 23, 1), Cells(fil a + 71, 11)) 'Descriptiu
Set r_f(1, 4) = Range(Cells(fil a + 27, 2), Cells(fil a + 70, 11))
Set r_f(2, 3) = Range(Cells(fil a + 73, 1), Cells(fil a + 86, 5)) 'Índexs
Set r_f(2, 4) = Range(Cells(fil a + 75, 5), Cells(fil a + 86, 5))

For j1 = 1 To 2
    r_f(j1, 1).Copy Destination:=r_f(j1, 3)
    r_f(j1, 2).Copy: r_f(j1, 4).PasteSpecial xlPasteValues
Next j1

LLIBRE_RESULTATS.Close

ActiveWindow.SelectedSheets.HPageBreaks.Add (Cells(fil a + 87, 1))
fil a = fil a + 88

Next i1

LLIBRE_FORMATS.Close

Call COMUNS_5IMPRESSIO("ITPOOSAJD", "R")

End Sub
Private Sub IT_41ESCRITURA_PARAMETRES(fil a, p, r_parms)

Dim i1 As Integer, j1 As Integer

Set r_parms(2) = Range(Cells(fil a, 1), Cells(fil a + 21, 9)) 'Paràmetres

r_parms(1).Copy Destination:=r_parms(2)

With r_parms(2)

    For i1 = 1 To 16 'TPO tarifes tipus únic
        For j1 = 2 To 2
            .Rows(i1 + 3).Columns(j1).Value = IIf(i1 < 13, p(i1, j1), p(i1 + 1, j1))
        Next j1
    Next i1

    .Rows(22).Columns(1).Value = p(18, 2) 'Bonificació Tarifa TUB

    For i1 = 1 To p(0, 2) 'TPO Tarifa AUR
        For j1 = 1 To 3
            .Rows(i1 + 4).Columns(2 + j1).Value = p(i1, 2 + j1)
        Next j1
    Next i1

    .Rows(14).Columns(4).Value = p(p(0, 2) + 1, 3)
    .Rows(14).Columns(5).Value = p(p(0, 2) + 1, 4)
    .Rows(15).Columns(4).Value = p(p(0, 2) + 1, 5)
    If p(0, 2) <> 9 Then
        With Range(Cells(fil a + p(0, 2) + 5, 3), Cells(fil a + 13, 5))
            .Interior.Pattern = xlCrissCross
            .MergeCells = True
            With .Borders(xlEdgeTop)
                .LineStyle = xlContinuous
                .Weight = xlMedium
            End With
        End With
    End If

    For i1 = 1 To 7 'OS tarifes tipus únic
        For j1 = 2 To 2
            .Rows(i1 + 3).Columns(5 + j1).Value = p(i1, 5 + j1)
        Next j1
    Next i1

```

```

Next il

For il = 1 To 17
    For j1 = 2 To 2
        .Rows(il + 3).Columns(7 + j1).Value = p(il, 7 + j1)
    Next j1
Next il

If p(19, 1) <> 1 Or p(19, 2) <> 1 Or p(19, 3) <> 1 Then
    .Rows(19).Columns(5) = IIf(p(19, 1) <> 1, p(19, 1) - 1, "'-----")
    .Rows(20).Columns(5) = IIf(p(19, 2) <> 1, p(19, 2) - 1, "'-----")
    .Rows(21).Columns(5) = IIf(p(19, 3) <> 1, p(19, 3) - 1, "'-----")
Else
    With Range(Cells(fila + 17, 4), Cells(fila + 20, 5))
        .Interior.Pattern = xlCrissCross
        .MergeCells = True
        .Value = "SENSE PROJECCIONS"
        With .Borders(xlEdgeTop)
            .LineStyle = xlContinuous
            .Weight = xlMedium
        End With
    End With
End If

End With

End Sub
Private Sub IPPF_10PARAMETRES(opcio As Integer)

Dim il As Integer

ReDim lim(8) As Integer, aproj(300), tram(11) As Integer
For il = -150 To 150
    If il >= 0 And il <= 8 Then lim(8 - il) = 10 * (il + 1)
    If il >= 0 And il <= 11 Then tram(11 - il) = il + 1
    aproj(150 - il) = il / 10
Next il

If ISIMULS(5) <> 0 Then
    ReDim sims(1 To ISIMULS(5))
    For il = ISIMULS(5) To 1 Step -1
        sims(ISIMULS(5) - il + 1) = CIPPF(il)
    Next il
End If

PAGINA = -1
TORNA:
PAGINA = PAGINA + 1
ERR_LEC = True

Do While ERR_LEC
    With IPPF
        .MultiPage1.Value = PAGINA
        If .MultiPage1.Value = 0 Then .Caption = "SIMCAT-IPPF: Determinació dels béns i drets exempts i dels mínims exempts"
        If .MultiPage1.Value = 1 Then .Caption = "SIMCAT-IPPF: Trams i tipus impositius. Reducció personal. Connexió IRPF. Projeccions"
        .Caption = .Caption & " (Base de dades: " & ANOIPPF & ")"
        If ISIMULS(5) <> 0 Then
            .ListBox_SimulRef.List = sims
            .SimulRef.Visible = True
        End If
        .ListBox22.List = tram
        .ListBox231.List = lim
        .ListBox232.List = lim
        .ListBox241.List = aproj
        .ListBox242.List = aproj
        .ListBox243.List = aproj
        .Llei.Value = True
        .Show
    End With
    If SORTIR Then Exit Sub
Loop
If PAGINA < 1 Then GoTo TORNA
If PAGINA = 1 Then Exit Sub

End Sub
Private Sub IPPF_20SIMULACIO(temps)

Dim il As Long, it As Integer, j1 As Integer, j2 As Integer, aux As Double

.....
'Càlcul preliminar sobre trams i tipus impositius'

```

```

.....

ReDim tt(1 To NTRAMS - IIf(NTRAMS <> 1, 1, 0)) As Double
tt(1) = T(1) * TIPUS(1)
If NTRAMS > 2 Then
  For it = 2 To NTRAMS - 1
    tt(it) = tt(it - 1) + ((T(it) - T(it - 1)) * TIPUS(it))
  Next it
End If

.....
'per a fer comprovacions
.....
'Open "C:\SIMCAT\Errors.txt" For Output As #100
'Write #100, "nif", "X(il,3)", "v(42)", "v(43)", "v(44)", "v(55)"
.....

.....
'Declaració de les variables del fitxer de lectura de les utilitzades a la simulació'
.....

Dim nif As Long, minus As Integer, p29s As Double, EPN As Double

.....
'Lectura de dades'
.....

Open NOM_IPPF_DADES & ANOIPPF & ".dat" For Input As #1
Input #1, N

.....
'Declaracions de variables després de conèixer N'
.....

Dim spes2, vgp, i_pag As Integer
ReDim IND(1 To N, 2), MITJANA(1 To 5), PAG(1 To 3), SUMA(1 To 9), vpag(1 To 4), VT(1 To 28, 12), _
vx(1 To 4, 1 To 6), X(1 To N, 9)
NT = 0
spes2 = 0
j2 = 1
For il = 1 To N
  ReDim v(1 To 63) As Double
  i_pag = 0
  Input #1, nif, minus, v(2), v(3), v(4), v(5), v(6), v(7), v(8), v(9), v(10), v(11), v(12), v(13), v(14), _
v(15), v(16), v(17), v(18), v(19), v(20), v(21), v(22), v(24), v(28), v(30), v(31), v(32), v(34), _
-
v(35), v(41), v(42), v(50), v(55), v(60), v(61), v(63), p29s, EPN

  X(il, 5) = 1 'Factor elevació

  .....
  'Actualitza béns i drets amb els coeficients de projecció'
  .....

  For j1 = 2 To 63
    If j1 = 2 Or j1 = 60 Or j1 = 62 Or j1 = 63 Then v(j1) = v(j1) * PROJ(1)
    If j1 >= 8 And j1 <= 13 Then v(j1) = v(j1) * PROJ(2)
    If j1 >= 3 And j1 <= 7 Or j1 >= 14 And j1 <= 22 Then v(j1) = v(j1) * PROJ(3)
  Next j1

  .....
  'Variables d'interès
  .....
  'X(il,0) = Patrimoni exempt + no exempt'
  'X(il,1) = Base Imposable
  'X(il,2) = Base Liquidable
  'X(il,3) = Quota per a ingressar
  'X(il,4) = Patrimoni exempt
  'X(il,5) = Factor elevació
  .....
  'X(il,6) = 1 (guanyadors)
  'X(il,7) = X(il,6)*guany
  'X(il,8) = 1 (perdedors)
  'X(il,9) = X(il,8)*pèrdua
  .....

  .....
  'Determina la BI descomptant els mínims exempts (cas particular per a v(1))
  .....

  X(il, 1) = IIf(BENS_E(1) = 1, 0, Application.max(0, v(60) - MINIMS_E(1)) + v(63))
  For j1 = 2 To 22
    X(il, 1) = X(il, 1) + IIf(BENS_E(j1) = 1, 0, Application.max(0, v(j1) - MINIMS_E(j1)))

```

```

Next j1
X(il, 1) = Application.max(0, X(il, 1) - v(24)) 'Descompta deutes deduïbles

.....
'Determina el Patrimoni exempt (sumant bens exempts i minims exempts, cas particular per a v(1))
.....

X(il, 4) = IIf(BENS_E(1) = 1, v(60) + v(63), Application.min(v(60), MINIMS_E(1)))
For j1 = 2 To 22
  X(il, 4) = X(il, 4) + IIf(BENS_E(j1) = 1, v(j1), Application.min(v(j1), MINIMS_E(j1)))
Next j1

.....
'Determina la BL descomptant la reducció per obligació personal
.....

X(il, 2) = Application.max(0, X(il, 1) - IIf(minus < 65, REDUCCIO(1), REDUCCIO(2)))
If v(28) <> 0 Then X(il, 2) = X(il, 2) + v(28) 'Recalcula BL pels especials (exempts)

.....
'Determina la Quota íntegra segons la tarifa i trams indicats'
.....

X(il, 3) = 0
If X(il, 2) > 0 Then
  If NTRAMS = 1 Then
    X(il, 3) = X(il, 2) * TIPUS(1)
  Else
    it = NTRAMS
    If X(il, 2) <= T(1) Then X(il, 3) = X(il, 2) * TIPUS(1)
    If NTRAMS > 2 Then
      For j1 = 2 To NTRAMS - 1
        If X(il, 2) > T(j1 - 1) And X(il, 2) <= T(j1) Then X(il, 3) = tt(j1 - 1) + ((X(il, 2) - T(j1 -
1)) * TIPUS(j1))
      Next j1
    End If
    If X(il, 2) > T(it - 1) Then X(il, 3) = tt(it - 1) + ((X(il, 2) - T(it - 1)) * TIPUS(it))
  End If
End If

.....
'Recalcula la quota pels especials "exempts"
.....

If v(28) <> 0 Then
  X(il, 3) = (X(il, 2) - v(28)) * Round(X(il, 3) / X(il, 2), 4)
  X(il, 2) = X(il, 2) - v(28) 'Recalcula BL pels especials (exempts)
End If

.....
'Connexió amb l'IRPF: determina els límits per obligació personal'
.....

If X(il, 3) <> 0 Then
  v(33) = LIMITS(1) * Application.max(0, v(30) + v(31) - v(32))
  If X(il, 1) <> 0 Then v(36) = EPN * X(il, 3) / X(il, 1)
  v(37) = v(34) - v(35) + v(36)
  If v(33) < v(37) Then
    v(38) = (v(37) - v(33)) * p29s
    v(39) = LIMITS(2) * X(il, 3)
    X(il, 3) = X(il, 3) - Application.min(v(38), v(39))
  End If
End If

.....
'Descompta de la Quota:
' - deducció per impostos a l'estranger v(41)
' - bonificació per béns a Ceuta i Melilla v(44)
' - bonificació autonòmica v(50)
.....

If v(42) <> 0 Then
  v(43) = v(42) / X(il, 1) * X(il, 3)
  v(44) = 0.75 * Application.min(v(43), X(il, 3))
End If

X(il, 3) = Application.max(0, X(il, 3) - v(41) - v(44))
X(il, 3) = Application.max(0, X(il, 3) - v(50))

.....
'Càlcul pagadors'
.....

```

```

If X(il, 3) > 0 Then i_pag = 1

.....
'Càlcul de guanyadors-perdedors'
.....

If ANOIPPF = IPPF_ANYREF Then
  vgp = v(55) - X(il, 3)
  If Abs(vgp) > 1 Then
.....
'Write #100, nif, X(il, 3), v(42), v(43), v(44), v(55)
.....
    If vgp > 0 Then
      X(il, 6) = 1
      X(il, 8) = 0
    Else
      X(il, 6) = 0
      X(il, 8) = 1
    End If
    X(il, 7) = vgp * X(il, 6)
    X(il, 9) = vgp * X(il, 8)
  End If
End If

.....
'Determina les variables per al càlcul descriptiu'
.....

For j1 = 1 To 4
  If X(il, j1) <> 0 Then
    vx(j1, 1) = vx(j1, 1) + (X(il, j1) * X(il, 5))
    vx(j1, 2) = vx(j1, 2) + (X(il, j1) * X(il, 5) * X(il, 5))
    vx(j1, 3) = vx(j1, 3) + (X(il, j1) * X(il, j1) * X(il, 5) * X(il, 5))
    vx(j1, 4) = vx(j1, 4) + 1
    vx(j1, 5) = vx(j1, 5) + X(il, 5)
    vx(j1, 6) = vx(j1, 6) + (X(il, 5) * X(il, 5))
  End If
Next j1

.....
'Determina les variables per al càlcul dels "no-pagadors"'
.....

spes2 = spes2 + (X(il, 5) * X(il, 5))
vpag(1) = vpag(1) + (i_pag * X(il, 5))
vpag(2) = vpag(2) + (i_pag * X(il, 5) * X(il, 5))
vpag(3) = vpag(3) + (i_pag * X(il, 5) * X(il, 5))

NT = NT + X(il, 5)

If j2 <= 10 Then
  If il / N >= j2 / 10 Then
    Application.ScreenUpdating = True
    Application.StatusBar = "Processat " & (j2 * 8) & "%"
    Application.ScreenUpdating = False
    j2 = j2 + 1
  End If
End If
Next il
Close #1
.....
'Close #100
.....

For j1 = 1 To 4
  SUMA(j1) = vx(j1, 1)
  MITJANA(j1) = SUMA(j1) / NT
Next j1
MITJANA(5) = NT / N

.....
'Guarda(Descriptiu) a VT'
.....

VT(1, 0) = "Descriptiu"
For j1 = 1 To 4
  If vx(j1, 4) <> 0 Then
    VT(j1, 1) = (vx(j1, 1) / vx(j1, 5)) / 1000
    VT(j1, 2) = (Sqr(vx(j1, 3)) - (2 * VT(j1, 1) * vx(j1, 2)) + ((VT(j1, 1) ^ 2) * vx(j1, 6))) / vx(j1, 5) /
1000
    VT(j1, 3) = VT(j1, 1) - 1.96 * VT(j1, 2)
    VT(j1, 4) = VT(j1, 1) + 1.96 * VT(j1, 2)
    VT(j1, 5) = vx(j1, 1) / 1000000

```

```

VT(j1, 6) = Sqr(vx(j1, 3) - ((vx(j1, 1) ^ 2) / vx(j1, 4))) / 1000000
VT(j1, 7) = VT(j1, 5) - 1.96 * VT(j1, 6)
VT(j1, 8) = VT(j1, 5) + 1.96 * VT(j1, 6)
End If
Next j1

PAG(1) = vpag(1) / NT
vpag(4) = (Sqr(vpag(3) - (2 * PAG(1) * vpag(2)) + ((PAG(1) ^ 2) * spes2)) / NT)
PAG(2) = PAG(1) - 1.95996 * vpag(4)
PAG(3) = PAG(1) + 1.95996 * vpag(4)

Call IPPF_21ORDENA(0)
Application.ScreenUpdating = True
Application.StatusBar = "Processat 85%"
Application.ScreenUpdating = False

Call IPPF_22DECILS_INDEXS_GP(5, UBound(X, 2))
Application.ScreenUpdating = True
Application.StatusBar = "Processat 95%"
Application.ScreenUpdating = False

temps = Timer - temps

End Sub
Private Sub IPPF_21ORDENA(opcio As Integer)

Dim il As Long, it As Integer, no0 As Long, si0 As Long
ReDim ord(1 To N) As Long, y(1 To N)

For il = 1 To N
    IND(il, 0) = il                'ordenació 0 és la del fitxer de dades llegit
Next il

For it = 1 To 2                    'ord. 1==>BIT ord. 2==>BLT
    no0 = 0
    For il = 1 To N
        If X(il, it) <> 0 Then
            no0 = no0 + 1
            y(no0) = X(il, it)
            IND(no0, it) = il
        End If
    Next il

    Call COMUNS_2ORDENA_AUX(1, no0, it)    'Crida a la rutina per a ordenar

    For il = 1 To no0
        ord(N - no0 + il) = IND(il, it)
    Next il

    si0 = 0
    For il = 1 To N
        If X(il, it) = 0 Then
            si0 = si0 + 1
            ord(si0) = il
        End If
    Next il

    For il = 1 To N
        IND(il, it) = ord(il)
    Next il

Next it

End Sub
Private Sub IPPF_22DECILS_INDEXS_GP(pes, p2)

'pes=posicio pes (9)
'UBound(X, 2)=nombre variables

Dim axx_b, axx_p, il As Long, it As Integer, j1 As Integer

ReDim p(1 To 12, 2), xx_b(1 To N, 1 To 2), xx_p(1 To N) As Double

.....
'Calcula: xx_b(1 to N, 1 to 2)=(BI,BL*factor) acumulades / s(variables*factor)
'Calcula: xx_p(1 to N)          =població acumulada/NT
.....

For it = 1 To 2
    For j1 = 1 To 2
        If SUMA(j1) <> 0 Then
            axx_b = 0
            For il = 1 To N

```

```

        axx_b = axx_b + (X(IND(il, it), j1) * X(IND(il, it), pes))
        xx_b(il, j1) = axx_b / SUMA(j1) 'BIT,BLT
    Next il
End If
Next j1
axx_p = 0
For il = 1 To N
    axx_p = axx_p + X(IND(il, it), pes)
    xx_p(il) = axx_p / NT 'pes
Next il

If it = 1 Then Call IPPF_23DECILS(p, pes, xx_b, xx_p) 'DECILS
Call IPPF_24INDEXS(it, pes, xx_b, xx_p) 'INDEXS

Next it

If ANOIPPF = IPPF_ANYREF Then Call IPPF_25GP(p, pes) 'G-P

End Sub
Private Sub IPPF_23DECILS(p, pes, xx_b, xx_p)

Dim axx_r, il As Long, i2 As Long, j1 As Integer, k1 As Integer, l1 As Long

ReDim ds(8, 12), ts(2, 12), xx_r(1 To N, 1 To pes - 3) As Double

.....
'Calcula: xx_r(1 to N, 1 to pes-3)=(resta * factor) acumulades / s(variables * factor)
.....

For j1 = 1 To pes - 3
    If SUMA(j1 + 2) <> 0 Then
        axx_r = 0
        For il = 1 To N
            axx_r = axx_r + (X(IND(il, 1), j1 + 2) * X(IND(il, 1), pes))
            xx_r(il, j1) = axx_r / SUMA(j1 + 2) 'resta variables
        Next il
    End If
Next j1

For k1 = 1 To 12
    p(k1, 1) = IIf(k1 < 10, k1 / 10, IIf(k1 = 10, 0.95, IIf(k1 = 11, 0.98, 1)))
    p(k1, 2) = IIf(k1 < 10, 0.1, IIf(k1 = 10, 0.05, IIf(k1 = 11, 0.03, 0.02)))
Next k1

i2 = 1
For k1 = 1 To 11
    For il = i2 To N
        If xx_p(il) >= p(k1, 1) Then
            p(k1, 1) = il 'p(1 to 12, 0 = Observació on comença cada decil
            i2 = il
        End If
    Next il
Next k1
p(12, 0) = N

.....
'Càlcul DECILS (1a dimensió parell decil acumulat)
.....
'VT(7, 1 to 12)=Base imposable (1)=ds(1, 1 to 12)'
'VT(9, 1 to 12)=Base liquidable (2)=ds(3, 1 to 12)'
'VT(11,1 to 12)=Quota (3)=ds(5, 1 to 12)'
'VT(13,1 to 12)=Patrimoni exempt (4)=ds(7, 1 to 12)'
.....

For k1 = 1 To 12
    l1 = p(k1, 0)
    For j1 = 1 To 2
        ds(2 * j1, k1) = xx_b(l1, j1) 'BIT, BLT
        If k1 = 1 Then ds(2 * j1 - 1, k1) = ds(2 * j1, k1)
        If k1 > 1 Then ds(2 * j1 - 1, k1) = ds(2 * j1, k1) - ds(2 * j1, k1 - 1)
    Next j1
    For j1 = 3 To pes - 1
        ds(2 * j1, k1) = xx_r(l1, j1 - 2) 'resta
        If k1 = 1 Then ds(2 * j1 - 1, k1) = ds(2 * j1, k1)
        If k1 > 1 Then ds(2 * j1 - 1, k1) = ds(2 * j1, k1) - ds(2 * j1, k1 - 1)
    Next j1
Next k1

.....
'Càlcul tipus efectius
.....
'VT(15,1 to 12)= QPI s/BI (3/1)=ts( 1, 1 to 12)'

```

```

'VT(16,1 to 12)= QPI s/BL (3/2)=ts( 2, 1 to 12)'
.....

For k1 = 1 To 12
  If SUMA(1) <> 0 And ds(1, k1) <> 0 Then
    ts(1, k1) = (ds(5, k1) * SUMA(3)) / (ds(1, k1) * SUMA(1))
  End If
  If SUMA(2) <> 0 And ds(3, k1) <> 0 Then
    ts(2, k1) = (ds(5, k1) * SUMA(3)) / (ds(3, k1) * SUMA(2))
  End If
Next k1

.....
'Guarda límits i mitjanes, decils i tipus a VT
.....

VT(5, 0) = "Límits i mitjanes "
VT(7, 0) = "Decils"
VT(15, 0) = "Tipus"
For k1 = 1 To 12
  VT(5, k1) = (X(IND(p(k1, 0), 1), 1)) / 1000
  VT(6, k1) = (ds(1, k1) * SUMA(1) / (NT * Iif(k1 < 10, 0.1, Iif(k1 = 10, 0.05, Iif(k1 = 11, 0.03, 0.02)))) /
1000
  For j1 = 1 To 8
    VT(6 + j1, k1) = ds(j1, k1)
  Next j1
  For j1 = 1 To 2
    VT(14 + j1, k1) = ts(j1, k1)
  Next j1
Next k1

End Sub
Private Sub IPPF_24INDEXS(it, pes, xx_b, xx_p)

.....
'INDEXS 55
.....
'Gini:          g 2
.....
'Concentració: c 2
'Kakwani:      k 2
'Suits:       s 2
'Efecte Redistributiu: e 2
.....

Dim aconc, aefre, agini, asuit, daux(1 To 4), _
  il As Long, j1 As Integer, k1 As Integer, l1 As Integer, sxx_b As Double
Dim g, c, k, s, e As Double

agini = 0
sxx_b = 0
If SUMA(it) <> 0 Then

  For il = 1 To N
    daux(1) = X(IND(il, it), it) - MITJANA(it)
    daux(2) = xx_p(il) - MITJANA(pes)
    daux(3) = X(IND(il, it), pes)
    agini = agini + (daux(1) * daux(2) * daux(3))
    sxx_b = sxx_b + xx_b(il, it)
  Next il

  If agini <> 0 Then g = 2 / MITJANA(it) * (agini / NT)

End If

aconc = 0
aefre = 0
asuit = 0
If SUMA(j1 + 2) <> 0 Then

For il = 1 To N
  daux(1) = X(IND(il, it), 3) - MITJANA(3)
  daux(2) = xx_p(il) - MITJANA(pes)
  daux(3) = X(IND(il, it), pes)
  daux(4) = xx_b(il, it) - (sxx_b / N)
  aconc = aconc + (daux(1) * daux(2) * daux(3))
  asuit = asuit + (daux(1) * daux(4) * daux(3))
Next il

If aconc <> 0 Then c = 2 / MITJANA(3) * (aconc / NT)
k = c - g
s = (2 * (asuit / NT) / MITJANA(3)) - g

```

```

If SUMA(it) <> 0 Then aefre = SUMA(3) / SUMA(it)
    e = (aefre / (1 - aefre)) * k 'ef red.
End If

.....
'Guarda els resultats(Índexs) a VT'
.....

If it = 1 Then VT(17, 0) = "Índexs"
VT(16 + it, it) = g
VT(19, it) = c
VT(20, it) = k
VT(21, it) = s
VT(22, it) = e

End Sub
Private Sub IPPF_25GP(p, pes)

Dim axx_gp(1 To 4), il As Long, j1 As Integer, k1 As Integer

ReDim gp(1 To 6, 1 To 12), xx_gp(1 To N, 1 To 4), y(4, 12) As Double

.....
'Calcula: xx_gp(1 to N, pes + 1 to pes + 4) = (GP * factor) acumulades
.....

For j1 = 1 To 4
    ' If SUMA(j1) <> 0 Then
        axx_gp(j1) = 0
        For il = 1 To N
            axx_gp(j1) = axx_gp(j1) + (X(IND(il, 0), j1 + pes) * X(IND(il, 0), pes))
            xx_gp(il, j1) = axx_gp(j1)
        Next il
    ' End If
Next j1

For k1 = 1 To 12
    il = p(k1, 0)
    For j1 = 1 To 4
        y(j1, k1) = xx_gp(il, j1)
        gp(IIf(j1 <= 2, j1, j1 + 1), k1) = y(j1, k1) - y(j1, k1 - 1)
    Next j1
Next k1

For k1 = 1 To 12
    For j1 = 3 To 6 Step 3
        If gp(j1 - 2, k1) <> 0 Then gp(j1, k1) = gp(j1 - 1, k1) / gp(j1 - 2, k1) Else gp(j1, k1) = 0
    Next j1
    For j1 = 1 To 5
        If j1 <> 3 Then gp(j1, k1) = gp(j1, k1) * IIf(j1 = 1 Or j1 = 4, 1 / (p(k1, 2) * NT), 0.001)
    Next j1
Next k1

For k1 = 1 To 12
    For j1 = 1 To 4 Step 3
        If gp(j1, k1) >= 0.995 Then gp(j1, k1) = 1
        If gp(j1, k1) <= 0.005 Then gp(j1, k1) = 0
    Next j1
    If gp(1, k1) < 0.001 Then
        gp(2, k1) = 0
        gp(3, k1) = 0
    End If
    If gp(4, k1) < 0.001 Then
        gp(5, k1) = 0
        gp(6, k1) = 0
    End If
Next k1

.....
'Guarda(Guanyadors) a VT'
.....

VT(23, 0) = "Guanyadors"
For k1 = 1 To 12
    For j1 = 1 To 6
        VT(22 + j1, k1) = IIf(j1 = 4, -1, 1) * gp(j1, k1)
    Next j1
Next k1

End Sub
Private Sub IPPF_30COMPARACIO(opcio As Integer)

Dim aux, il As Long, j1 As Integer, k1 As Integer
ReDim ds(1 To 4, 1 To 12), gp(1 To 6, 1 To 12), s(1 To 7) As Double

```

```
Open NOM_IPPF_SIMUL & "GP" & ANOIPPF & "_" & Trim(Str(COMP(1))) & ".dat" For Input As #1
Open NOM_IPPF_SIMUL & "GP" & ANOIPPF & "_" & Trim(Str(COMP(2))) & ".dat" For Input As #2
```

```
Input #1, N
Input #2, N
```

```
ReDim X(1 To N, 1 To 7), IND(1 To N)
```

```
For il = 1 To N
  Input #1, IND(il), X(il, 1), X(il, 7)
  Input #2, aux, X(il, 2), aux
  aux = X(il, 1) - X(il, 2)
  If Abs(aux) > 1 Then
    If aux > 0 Then
      X(il, 3) = 1
      X(il, 5) = 0
    Else
      X(il, 3) = 0
      X(il, 5) = 1
    End If
    X(il, 4) = aux * X(il, 3)
    X(il, 6) = aux * X(il, 5)
  End If
  For j1 = 1 To 6
    s(j1) = s(j1) + (X(il, j1) * X(il, 7))
  Next j1
  s(7) = s(7) + X(il, 7)
Next il
Close #1
Close #2
```

```
Call IPPF_31COMPARACIO_DECILS_GP(ds, gp, s)
Call IPPF_32COMPARACIO_ESCRIPTURA(ds, gp, s(1), s(2), s(7))
Call COMUNS_5IMPRESSIO("IPPF", "G-P")
```

```
End Sub
Private Sub IPPF_31COMPARACIO_DECILS_GP(ds, gp, s)
```

```
Dim aux, il As Long, i2 As Long, j1 As Integer, k1 As Integer, l1 As Long
ReDim p(1 To 12, 2), xx(1 To N, 1 To 7), y(4, 12) As Double
```

```
.....
'Calcula xx(1 to N, 1 to 6)=(variables * factor) acumulades / s(variables * factor)
'      xx(1 to N, 7)      = població acumulada/s(7)      s(7)=NT
.....
```

```
aux = 0
For j1 = 1 To 6
  If s(j1) <> 0 Then
    aux = 0
    For il = 1 To N
      aux = aux + (X(IND(il), j1) * X(IND(il), 7))
      xx(il, j1) = aux / IIf(j1 <= 2, s(j1), 1)
    Next il
  End If
Next j1
```

```
aux = 0
For il = 1 To N
  aux = aux + X(IND(il), 7)
  xx(il, 7) = aux / s(7)
Next il
```

```
For j1 = 1 To 12
  p(j1, 1) = IIf(j1 < 10, j1 / 10, IIf(j1 = 10, 0.95, IIf(j1 = 11, 0.98, 1)))
  p(j1, 2) = IIf(j1 < 10, 0.1, IIf(j1 = 10, 0.05, IIf(j1 = 11, 0.03, 0.02)))
Next j1
```

```
i2 = 1
For j1 = 1 To 11
  For il = i2 To N
    If xx(il, 7) >= p(j1, 1) Then
      p(j1, 0) = il
      i2 = il
      Exit For
    End If
  Next il
Next j1
p(12, 0) = N
```

```
.....
'DECILS'
.....
```

```

For k1 = 1 To 12
  l1 = p(k1, 0)
  For j1 = 1 To 2
    ds(2 * j1, k1) = xx(l1, j1)
    If k1 = 1 Then ds(2 * j1 - 1, k1) = ds(2 * j1, k1)
    If k1 > 1 Then ds(2 * j1 - 1, k1) = ds(2 * j1, k1) - ds(2 * j1, k1 - 1)
  Next j1
Next k1

.....
'GUANYADORS-PERDEDORS'
.....

For k1 = 1 To 12
  l1 = p(k1, 0)
  For j1 = 1 To 4
    y(j1, k1) = xx(l1, j1 + 2)
    gp(IIf(j1 <= 2, j1, j1 + 1), k1) = y(j1, k1) - y(j1, k1 - 1)
  Next j1
Next k1

For j1 = 1 To 12
  For k1 = 3 To 6 Step 3
    If gp(k1 - 2, j1) <> 0 Then gp(k1, j1) = gp(k1 - 1, j1) / gp(k1 - 2, j1) Else gp(k1, j1) = 0
  Next k1
  For k1 = 1 To 5
    If k1 <> 3 Then gp(k1, j1) = gp(k1, j1) * IIf(k1 = 1 Or k1 = 4, 1 / (p(j1, 2) * s(7)), 0.001)
  Next k1
Next j1

For j1 = 1 To 12
  For k1 = 1 To 4 Step 3
    If gp(k1, j1) >= 0.995 Then gp(k1, j1) = 1
    If gp(k1, j1) <= 0.005 Then gp(k1, j1) = 0
  Next k1
  gp(4, j1) = -gp(4, j1)
Next j1

End Sub
Private Sub IPPF_32COMPARACIO_ESCRIPTURA(ds, gp, s1, s2, s7)

Dim avisgp As Boolean, nom As String, il As Integer, llibre As Integer, nota As String, _
  r_f(1 To 2, 1 To 3) As Range

.....
'r_f(1 to 2, 1)==> formats del llibre "FORMATS", full "IPPF"
'r_f(1 to 2, 2)==> formats del llibre "SIMCAT", full "(G-P)"
'r_f(1 to 2, 3)==> formats del llibre "SIMCAT", full "(G-P)" (només valors)'
.....

Application.ScreenUpdating = False

nom = ThisWorkbook.Path & "\DADES\Formats.XLSX"
Set LLIBRE_FORMATS = Workbooks.Open(nom)
llibre = Workbooks.Count

Workbooks(llibre).Activate          'llibre "FORMATS"

Sheets("IPPF").Activate

Set r_f(1, 1) = Range(Cells(78, 1), Cells(86, 15)) 'Decils
Set r_f(2, 1) = Range(Cells(69, 1), Cells(76, 15)) 'Guanyadors

.....
'Crea el full de càlcul on escriu els resultats definitius'
.....

ThisWorkbook.Activate          'llibre "SIMCAT"

Call COMUNS_ONOMSFULLS("IPPF(G-P)")

ActiveWorkbook.Unprotect (SECRET)

Sheets("SIMULADOR REFORMES IMPOSITIVES").Activate
Sheets("IPPF(G-P)").Activate

.....
'Configura el rang d'escriptura'
.....

With Range(Cells(1, 1), Cells(66, 15))
  .ColumnWidth = 6.43
  With .Font
    .Name = "Arial"
  End With
End With

```

```

        .Size = 7
    End With
    .HorizontalAlignment = xlCenter
    .Interior.ColorIndex = 2
    .RowHeight = 11
End With
With Range(Cells(1, 1), Cells(2, 1))
    .Font.Bold = True
    .Font.Size = 10
    .HorizontalAlignment = xlLeft
    .RowHeight = 14
End With
Cells(1, 1).Value = "IMPOST DEL PATRIMONI DE LES PERSONES FÍSiques"
Cells(2, 1).Value = "COMPARACIÓ SIMULACIÓ-" & COMP(1) & " vs. SIMULACIÓ-" & COMP(2) & _
    " (Base de dades: " & ANOIPPF & ")"

Set r_f(1, 2) = Range(Cells(3, 1), Cells(11, 15)) 'Decils Rangs d'escriptura
Set r_f(2, 2) = Range(Cells(13, 1), Cells(20, 15)) 'Guanyadors Rangs d'escriptura
Set r_f(1, 3) = Range(Cells(6, 4), Cells(9, 15)) 'Decils Rangs de valors
Set r_f(2, 3) = Range(Cells(15, 4), Cells(20, 15)) 'Guanyadors Rangs de valors

'.....
'Escriu els resultats numèrics'
'.....

r_f(1, 1).Copy Destination:=r_f(1, 2)
r_f(1, 2).Rows(4).Columns(1).Value = "Quota SIMULACIÓ-" & COMP(1)
r_f(1, 2).Rows(6).Columns(1).Value = "Quota SIMULACIÓ-" & COMP(2)
r_f(1, 2).Rows(8).Columns(2).Value = "SIMULACIÓ-" & COMP(1)
r_f(1, 2).Rows(8).Columns(4).Value = s1
r_f(1, 2).Rows(9).Columns(4).Value = s2
If s1 = s2 Then
    nota = "Neutral"
ElseIf s1 > s2 Then
    nota = "Pèrdua en recaptació"
Else
    nota = "Guany en recaptació"
End If
r_f(1, 2).Rows(8).Columns(6).Value = nota
If nota <> "Neutral" Then
    r_f(1, 2).Rows(8).Columns(8).Value = s2 - s1
Else
    With Range(Cells(10, 8), Cells(11, 13))
        .Interior.Pattern = xlCrissCross
        .MergeCells = True
        .Value = ""
    End With
End If
r_f(1, 2).Rows(8).Columns(14).Value = s7
r_f(1, 2).Rows(9).Columns(2).Value = "SIMULACIÓ-" & COMP(2)
r_f(2, 1).Copy Destination:=r_f(2, 2)
r_f(1, 3).Value = ds

r_f(2, 3).Value = gp
r_f(2, 3).ShrinkToFit = True

LLIBRE_FORMATS.Close

'.....
'Gràfics G-P'
'.....

For il = 1 To 12
    If Abs(r_f(2, 3).Rows(1).Columns(il)) > 0.001 Or _
        Abs(r_f(2, 3).Rows(4).Columns(il)) > 0.001 Then
        avisgp = True
        Exit For
    End If
Next il

If avisgp Then

    Dim r_gp(1 To 2, 1 To 4) As Range

    Set r_gp(1, 1) = r_f(1, 3).Rows(1) 'Quota Simulació-1'
    Set r_gp(2, 1) = r_f(1, 3).Rows(3) 'Quota Simulació-2'
    Set r_gp(1, 2) = r_f(2, 3).Rows(1) '% guanyadors'
    Set r_gp(2, 2) = r_f(2, 3).Rows(4) '% perdedors'
    Set r_gp(1, 3) = r_f(2, 3).Rows(2) 'Total guanys'
    Set r_gp(2, 3) = r_f(2, 3).Rows(5) 'Total pèrdues'
    Set r_gp(1, 4) = r_f(2, 3).Rows(3) 'Mitjana guanyadors'
    Set r_gp(2, 4) = r_f(2, 3).Rows(6) 'Mitjana perdedors'
    r_gp(2, 2).NumberFormat = "0.00%;[Red]0.00%"

```

```

Call COMUNS_43GRAFICS_GP(23, ANOIPPF, "IPPF", "(G-P)", r_gp, 1)

For i1 = 1 To Worksheets("IPPF(G-P)").Shapes.Count
    Worksheets("IPPF(G-P)").Shapes(i1).Left = IIf(i1 = 1 Or i1 = 3, 10, 280) 'Reposicionament imatges
Next i1

End If

ActiveWindow.SelectedSheets.HPageBreaks.Add (Cells(67, 1))

End Sub
Private Sub IPPF_40ESCRITURA(opcio As Integer)

Dim fila As Integer, gp As Boolean, i As Integer, il As Integer, jl As Integer, _
    llibre(1 To 2) As Integer, nom As String, _
    r_ref(1 To 3) As Range, r_f(1 To 5, 1 To 4) As Range, r_parms(1 To 2) As Range, _
    r_gp(1 To 2, 1 To 4) As Range

'.....
'r_f(1 to 6, 1)==> formats del llibre "FORMATS", full "IPPF"
'r_f(1 to 6, 2)==> formats del llibre "RESULTATS" temporals
'r_f(1 to 6, 3)==> formats del llibre "SIMCAT", full "IPPF(R)"
'r_f(1 to 6, 3)==> formats del llibre "SIMCAT", full "IPPF(R)" (només valors)'
'.....

Application.ScreenUpdating = False

nom = ThisWorkbook.Path & "\DADES\Formats.XLSX"
Set LLIBRE_FORMATS = Workbooks.Open(nom)
llibre(1) = Workbooks.Count

Workbooks(llibre(1)).Activate 'llibre "FORMATS"

Sheets("IPPF").Activate

Set r_parms(1) = Range(Cells(2, 1), Cells(27, 9)) 'Paràmetres

Set r_f(1, 1) = Range(Cells(29, 1), Cells(38, 11)) 'Descriptiu
Set r_f(2, 1) = Range(Cells(40, 1), Cells(43, 13)) 'Límits i mitjana per decils
Set r_f(3, 1) = Range(Cells(45, 1), Cells(57, 15)) 'Decils
Set r_f(4, 1) = Range(Cells(59, 1), Cells(67, 6)) 'Índexs
Set r_f(5, 1) = Range(Cells(69, 1), Cells(76, 15)) 'Guanyadors

Set r_ref(1) = Range(Cells(88, 1), Cells(144, 15)) 'Referència

'.....
'Crea el full de càlcul on escriu els resultats definitius
'.....

ThisWorkbook.Activate 'llibre "SIMCAT"

Call COMUNS_ONOMSFULLS("IPPF(R)")

ActiveWorkbook.Unprotect (SECRET)

'.....
'Escriu els resultats de la referència'
'.....

fila = 59

Sheets("SIMULADOR REFORMES IMPOSITIVES").Activate
Sheets("IPPF(R)").Activate
Set r_ref(2) = Range(Cells(1, 1), Cells(fila - 2, 15))
With r_ref(2)
    .ColumnWidth = 6.43
    .RowHeight = 11
End With
r_ref(2).Rows(2).RowHeight = 14
r_ref(2).Rows(29).RowHeight = 12
r_ref(2).Rows(43).RowHeight = 12
r_ref(2).Rows(48).RowHeight = 12
r_ref(1).Copy Destination:=r_ref(2)
ActiveWindow.SelectedSheets.HPageBreaks.Add (Cells(fila - 1, 1))

For i1 = 1 To UBound(IRESULTS)

'.....
'Lectura en els arxius temporals de resultats'
'.....

nom = NOM_IPPF_SIMUL & "S" & ANOIPPF & "_" & Trim(Str(IRESULTS(i1))) & ".xlsx"

```

```

Set LLIBRE_RESULTATS = Workbooks.Open(nom)
llibre(2) = Workbooks.Count

Workbooks(llibre(2)).Activate           'llibre "RESULTATS"

Sheets("PARAMETRES").Activate           'Paràmetres
ReDim p(37, 8)
For i = 0 To 37
    For j1 = 1 To 7
        p(i, j1) = Cells(i + 1, j1)
    Next j1
Next i

Sheets("DESCRIPTIU").Activate           'Descriptiu
Set r_f(1, 2) = Range(Cells(1, 1), Cells(4, 8))

Sheets("LIMITS-MITJANES").Activate      'Límits i mitjanes
Set r_f(2, 2) = Range(Cells(1, 1), Cells(2, 12))

Sheets("DECILS-TIPUS").Activate         'Decils BI i Tipus efectius QT s/BI QT s/BL
Set r_f(3, 2) = Range(Cells(1, 1), Cells(10, 12))

Sheets("INDEXS").Activate               'Índexs
Set r_f(4, 2) = Range(Cells(1, 1), Cells(6, 2))

Sheets("G-P").Activate                  'Guanyadors-Perdedors
Set r_f(5, 2) = Range(Cells(1, 1), Cells(6, 12))

Close

'.....
'Esriptura en el full definitiu de resultats'
'.....

ThisWorkbook.Activate                   'llibre "SIMCAT"

With Range(Cells(fila - 1, 1), Cells(fila + 74, 15))
    .ColumnWidth = 6.43
    With .Font
        .Name = "Arial"
        .Size = 7
    End With
    .HorizontalAlignment = xlCenter
    .Interior.ColorIndex = 2
    .RowHeight = 11
End With
With Range(Cells(fila - 1, 1), Cells(fila - 1, 1))
    With .Font
        .Bold = True
        .Size = 10
    End With
    .HorizontalAlignment = xlLeft
    .RowHeight = 14
    .Value = "SIMULACIÓ-" & IRESULTS(i1) & " (Base de dades: " & ANOIPPF & ")"
End With

Call IPPF_41ESCRIPURA_PARAMETRES(fila, p, r_parms)

'.....
'Rangs per a l'escriptura en el llibre SIMCAT full IPPF(R)'
'.....

Set r_f(1, 3) = Range(Cells(fila + 27, 1), Cells(fila + 36, 11))           'Descriptiu
Set r_f(1, 4) = Range(Cells(fila + 31, 4), Cells(fila + 34, 11))
Set r_f(2, 3) = Range(Cells(fila + 38, 1), Cells(fila + 41, 13))           'Límits i mitjanes per decils
Set r_f(2, 4) = Range(Cells(fila + 40, 2), Cells(fila + 41, 13))
Set r_f(3, 3) = Range(Cells(fila + 43, 1), Cells(fila + 55, 15))           'Decils
Set r_f(3, 4) = Range(Cells(fila + 46, 4), Cells(fila + 55, 15))
Set r_f(4, 3) = Range(Cells(fila + 57, 1), Cells(fila + 66, 6))           'Índexs
Set r_f(4, 4) = Range(Cells(fila + 60, 5), Cells(fila + 66, 6))
Set r_f(5, 3) = Range(Cells(fila + 67, 1), Cells(fila + 75, 15))           'Guanyadors
Set r_f(5, 4) = Range(Cells(fila + 69, 4), Cells(fila + 75, 15))

For j1 = 1 To 4
    r_f(j1, 1).Copy Destination:=r_f(j1, 3)
    r_f(j1, 2).Copy: r_f(j1, 4).PasteSpecial xlPasteValues
    If j1 = 1 Then
        r_f(j1, 3).Rows(10).Columns(6).Value = p(0, 5)
        r_f(j1, 3).Rows(10).Columns(7).Value = p(0, 6)
        r_f(j1, 3).Rows(10).Columns(8).Value = p(0, 7)
        r_f(j1, 3).Rows(10).Columns(10).Value = p(0, 4)
    End If
Next j1

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If p(0, 1) = ANOIPPF Then gp = True Else gp = False
If gp Then
  r_f(5, 1).Copy Destination:=r_f(5, 3)
  r_f(5, 2).Copy: r_f(5, 4).PasteSpecial xlPasteValues
  r_f(5, 4).ShrinkToFit = True
End If

LLIBRE_RESULTATS.Close

ActiveWindow.SelectedSheets.HPageBreaks.Add (Cells(filà + 75, 1))

.....
'Rangs dels gràfics
.....

Set r_ref(3) = Range(Cells(48, 4), Cells(filà - 2, 15))

ReDim r_g(1 To IIf(gp, 7, 3), 1 To 4) As Range

Set r_g(1, 1) = r_f(3, 4).Rows(2)      'BI acum. (sim)
Set r_g(2, 1) = r_f(3, 4).Rows(6)      'QPI acum. (sim)
Set r_g(3, 1) = r_f(3, 4).Rows(6)      'QPI acum. (sim)
Set r_g(1, 2) = r_f(3, 4).Rows(4)      'BL acum. (sim)
Set r_g(2, 2) = r_f(3, 4).Rows(6)      'QPI acum. (sim)
Set r_g(3, 2) = r_f(3, 4).Rows(6)      'QPI acum. (sim)
If gp Then
  Set r_g(5, 1) = r_ref(3).Rows(2)      'BI acum. (ref)
  Set r_g(6, 1) = r_ref(3).Rows(6)      'QPI acum. (ref)
  Set r_g(7, 1) = r_ref(3).Rows(6)      'QPI acum. (ref)
  Set r_g(5, 2) = r_ref(3).Rows(4)      'BL acum. (ref)
  Set r_g(6, 2) = r_ref(3).Rows(6)      'QPI acum. (ref)
  Set r_g(7, 2) = r_ref(3).Rows(6)      'QPI acum. (ref)
End If

Set r_g(1, 3) = r_f(3, 4).Rows(9)      'QPI s/BI (sim)
Set r_g(1, 4) = r_f(3, 4).Rows(10)     'QPI s/BL (sim)
If gp Then
  Set r_g(2, 3) = r_ref(3).Rows(9)      'QPI s/BI (ref)
  Set r_g(2, 4) = r_ref(3).Rows(10)     'QPI s/BL (ref)
End If

If gp Then
  Set r_gp(1, 1) = r_f(3, 4).Rows(5)    'QPI (sim)
  Set r_gp(2, 1) = r_ref(3).Rows(5)     'QPI (ref)          'ull
  Set r_gp(1, 2) = r_f(5, 4).Rows(1)    '% guanyadors'
  Set r_gp(2, 2) = r_f(5, 4).Rows(4)    '% perdedors'
  Set r_gp(1, 3) = r_f(5, 4).Rows(2)    'Total guanys'
  Set r_gp(2, 3) = r_f(5, 4).Rows(5)    'Total pèrdues'
  Set r_gp(1, 4) = r_f(5, 4).Rows(3)    'Mitjana guanyadors'
  Set r_gp(2, 4) = r_f(5, 4).Rows(6)    'Mitjana perdedors'
  r_gp(2, 2).NumberFormat = "0.00%;[Red]0.00%"
End If

Call IPPF_42ESCRITURA_GRAFICS(filà + 76, gp, r_g, r_gp, IRESULTS(il))
filà = filà + 168

Next il

LLIBRE_FORMATS.Close

Call COMUNS_5IMPRESSIO("IPPF", "R")

End Sub
Private Sub IPPF_41ESCRITURA_PARAMETRES(filà, p, r_parms)

Dim il As Integer, jl As Integer

Set r_parms(2) = Range(Cells(filà, 1), Cells(filà + 25, 9)) 'Paràmetres
r_parms(1).Copy Destination:=r_parms(2)

With r_parms(2)

  .Font.Size = 8

  For il = 1 To 22
    .Rows(4 + il).Columns(2).Value = IIf(p(il, 1) = "x", "EXEMPT", "")
    .Rows(4 + il).Columns(3).Value = IIf(p(il, 2) <> 0, p(il, 2), "")
  Next il

  For il = 1 To p(0, 2)
    .Rows(4 + il).Columns(4).Value = p(23 + il, 1)
  Next il
End With

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.Rows(4 + il).Columns(6).Value = p(23 + il, 2)
.Rows(4 + il).Columns(8).Value = p(23 + il, 3)
Next il
If p(0, 2) <> 12 Then
  With Range(Cells(fila + p(0, 2) + 4, 4), Cells(fila + 15, 8))
    .Interior.Pattern = xlCrissCross
    .MergeCells = True
    .Value = ""
  End With
  With Range(Cells(fila + p(0, 2) + 4, 4), Cells(fila + p(0, 2) + 4, 8))
    With .Borders(xlEdgeTop)
      .LineStyle = xlContinuous
      .Weight = xlMedium
    End With
  End With
End If
If p(0, 2) <> 12 Then
  For il = p(0, 2) To 12
    Cells(fila + 4 + il, 8).Borders(xlEdgeRight).LineStyle = xlNone
  Next il
End If

.Rows(18).Columns(7) = p(23, 1)           'reducció general
.Rows(19).Columns(7) = p(23, 2)           'reducció discapacitats

If p(0, 3) Then
  .Rows(21).Columns(8).Value = p(36, 1)    'BI IRPF
  .Rows(22).Columns(8).Value = p(36, 2)    'QI IPPF
Else
  With Range(Cells(fila + 19, 4), Cells(fila + 21, 8))
    .Font.Bold = True
    .HorizontalAlignment = xlCenter
    .Interior.Pattern = xlCrissCross
    .MergeCells = True
    .Value = "SENSE CONNEXIÓ IRPF"
  End With
End If

If p(37, 1) <> 1 Or p(37, 2) <> 1 Or p(37, 3) <> 1 Then
  .Rows(24).Columns(8).Value = p(37, 1)    'Projecció immobles
  .Rows(25).Columns(8).Value = p(37, 2)    'Projecció cotitzacions
  .Rows(26).Columns(8).Value = p(37, 3)    'Projecció resta de béns
Else
  With Range(Cells(fila + 22, 4), Cells(fila + 25, 8))
    .Font.Bold = True
    .HorizontalAlignment = xlCenter
    .Interior.Pattern = xlCrissCross
    .MergeCells = True
    .Value = "SENSE PROJECCIONS"
  End With
End If

End With

End Sub
Private Sub IPPF_42ESCRITURA_GRAFICS(fila, gp, r_g, r_gp, sim)

Dim avisgp As Boolean, il As Integer, i2 As Integer, j1 As Integer, m, nom() As String, s_r() As Boolean

'.....
'Eschriftura en el full definitiu de resultats'
'.....

With Range(Cells(fila - 1, 1), Cells(fila + 90, 15)) '78
  .ColumnWidth = 6.43
  .Interior.ColorIndex = 2
  .RowHeight = 10
End With
With Range(Cells(fila - 1, 1), Cells(fila - 1, 1))
  .Font.Bold = True
  .Font.Size = 10
  .HorizontalAlignment = xlLeft
  .RowHeight = 14
  .Value = "GRÀFICS DE LA SIMULACIÓ-" & sim & " (Base de dades: " & ANOIPPF & ")"
End With

ReDim nom(1 To 7, 1 To 2), s_r(1 To 7, 1 To 3)

For il = 1 To 2
  nom(1, il) = "Sim-" & sim & IIf(il = 1, "(BI)", "(BL)")
  nom(2, il) = "Sim-" & sim & "(QPI)"
  nom(3, il) = "Sim-" & sim & "(QPI relativa)"
  nom(4, il) = "Equitat"

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nom(5, il) = "Ref." & IIf(il = 1, "(BI)", "(BL)")
nom(6, il) = "Ref.(QPI)"
nom(7, il) = "Ref.(QPI relativa)"

If gp Then 'si hi ha referència s'ha de calcular si les corbes són iguals
  For i2 = 1 To 3
    For j1 = 1 To 12
      If Abs(r_g(i2, il).Columns(j1) - r_g(i2 + 4, il).Columns(j1)) > 0.005 Then
        s_r(i2 + 4, il) = True
        Exit For
      End If
    Next j1
  Next i2

  For j1 = 1 To 12
    If Abs(r_g(1, il + 2).Columns(j1) - r_g(2, il + 2).Columns(j1)) > 0.001 Then
      s_r(il, 3) = True
      Exit For
    End If
  Next j1
End If

Next il

If gp Then 'si hi ha referència s'ha de calcular si les corbes són iguals
  m = Round(Application.max(r_g(1, 3), r_g(2, 3), r_g(1, 4), r_g(2, 4)), 2)
Else
  m = Round(Application.max(r_g(1, 3), r_g(1, 4)), 2)
End If

Call COMUNS_41GRAFICS_CORBESLORENZ(fil, gp, "IPPF", nom, r_g, s_r) 'Lorenz
Call COMUNS_42GRAFICS_TIPUS(fil + 23, gp, "IPPF", m, r_g, s_r, sim) 'Tipus efectius

If gp Then
  For j1 = 1 To 12
    If Abs(r_gp(1, 2).Columns(j1)) > 0.001 Or Abs(r_gp(2, 2).Columns(j1)) > 0.001 Then
      avisgp = True
      Exit For
    End If
  Next j1
  If avisgp Then
    Call COMUNS_43GRAFICS_GP(fil + 46, ANOIPPF, "IPPF", "(R)", r_gp, sim) 'G-P
  Else
    gp = False
  End If
End If

For il = 1 To Worksheets("IPPF(R)").Shapes.Count - 1 Step 2
  Worksheets("IPPF(R)").Shapes(il).Left = 20 'Reposicionament imatges
Next il
For il = 2 To Worksheets("IPPF(R)").Shapes.Count Step 2
  Worksheets("IPPF(R)").Shapes(il).Left = 310 'Reposicionament imatges
Next il

ActiveWindow.SelectedSheets.HPageBreaks.Add (Cells(fil + 91, 1))

End Sub

```