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Rem =====
Rem A_Xalc Row Calculation_OOoBasic Program (Copyright:Shuichi Sunaga)
Rem (2005/06/07:238)(2009/10/14:407)(2011/12/09:411)(2012/06/27:457)
Rem Translation into English (2012/08/14:369)
Rem -----
Rem Sub LineCalcX()
Rem Sub LineCalcN()
Rem Sub LineCalcB()
Rem Sub LineCalc(ByVal XN$)
Rem Sub CalcPRM(ByVal iRow&, ByVal CTXCol%, sXN, ByVal stxcd$)
Rem Sub PostBKBF(ByVal iRow&)
Rem Sub CalcBKBal(ByVal iRow&)
Rem Sub ChngAlloc(ByVal fAmount&, ByVal iRow&)
Rem =====
Option Explicit
Sub LineCalcX()
    LineCalc("X")
End Sub
Sub LineCalcN()
    LineCalc("N")
End Sub
Sub LineCalcB()
    LineCalc("B")
End Sub
Sub LineCalc(ByVal XN$)
    dim wGross&, IGross&, IAmount&, wCTax&, ICTax&, IBKChg&
    dim iRow&, iCol%, IQty&, IUnit&, IFxRate&, funcCD1$, funcCD2$
    dim CTXMult as double
    dim taxcd$, sActCD$, MsgTxt$
    Rem -----
    IntroTo3D()
    If Not StopOrGo("LineCalc") then
        MsgTxt$ = "This row calculation command is unusable on this "&aSName$&" sheet."
        MsgTtl$ = "Test of applicability of row calculation to this sheet"
        resp% = MsgBox(MsgTxt$, 16, MsgTtl$)
    End
End If
getPagePlan aSName$, cMonth%
Rem -----
iRow& = SelectionRow()
sActCD$ = CellString(aSheet, iRow&, Col_ActCD%)
If WS_BS(Val(sActCD$)) then
    taxcd$ = CellString(WkBS, getFSRow%(WkBS, sActCD$, ActCol), 3)
Else
    taxcd$ = CellString(WkPL, getFSRow%(WkPL, sActCD$, ActCol), 3)
End If
CTXMult = CTXRate/(100 + CTXRate)
Rem -----
Select Case aSName$
    Case "BK"
        If CellString(aSheet, iRow&, Col_LineNo%) = "0" then
            PostBKBF(iRow&)
            CalcBKBal(iRow&+1)
            Exit Sub
        End If
        wGross& = CellValue(aSheet, iRow&, Col_Gross%-1)
        IGross& = CellValue(aSheet, iRow&, Col_Gross%)
        IBKChg& = CellValue(aSheet, iRow&, Col_BKChg%)
        wCTax& = 0
        ICTax& = 0
        If XN$ = "X" then
            ClearCell iRow&, Col_CXCr%
            ClearCell iRow&, Col_CXDr%
            if taxcd$ = "S" then
                If Col_CXCr% < 52 Then
                    wCTax& = Int(Abs(wGross&) * CTXMult + 0.49) * mySigma(wGross&)
                    ICTax& = Int(Abs(IGross&) * CTXMult + 0.1) * mySigma(IGross&)
                    SetCellValue aSheet, iRow&, Col_CXCr%, -wCTax& + ICTax&
                Elseif A_VSLsCD(sActCD$) then
                    MsgTxt$ = "Make the journal entry on AR sheet, because revenues code is used"
                End
            End
        End
    End
End Select

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1 Rem =====
2 Rem A_Xalc Row Calculation Excel VBA Program (Copyright:Shuichi Sunaga)
3 Rem (2012/06/26:370)
4 Rem Translation into English(2012/08/14:373)
5 Rem -----
6 Rem Sub LineCalcX()
7 Rem Sub LineCalcN()
8 Rem Sub LineCalcB()
9 Rem Sub LineCalc(ByVal XN$)
10 Rem Sub CalcPRM(ByVal iRow&, ByVal CTXCol%, sXN, ByVal stxcd$)
11 Rem Sub PostBKBF(ByVal iRow&)
12 Rem Sub CalcBKBal(ByVal iRow&)
13 Rem Sub ChngAlloc(ByVal fAmount&, ByVal iRow&)
14 Rem =====
15 Option Explicit
16 Sub LineCalcX()
17     LineCalc ("X")
18 End Sub
19 Sub LineCalcN()
20     LineCalc ("N")
21 End Sub
22 Sub LineCalcB()
23     LineCalc ("B")
24 End Sub
25 Sub LineCalc(ByVal XN$)
26     Dim wGross&, IGross&, IAmount&, wCTax&, ICTax&, IBKChg&
27     Dim iRow&, iCol%, IQty&, IUnit&, IFxRate&, funcCD1$, funcCD2$
28     Dim CTXMult As Double
29     Dim taxcd$, sActCD$
30     Rem -----
31     IntroTo3D()
32     If Not StopOrGo("LineCalc") Then
33         MsgTxt$ = "This row calculation command is unusable on this "&aSName$&" sheet."
34         MsgTtl$ = "Test of applicability of row calculation to this sheet"
35         resp% = MsgBox(MsgTxt$, 16, MsgTtl$)
36     End
37 End If
38 getPagePlan aSName$, cMonth%
39 Rem -----
40 iRow& = SelectionRow
41 sActCD$ = CellString(aSheet, iRow&, Col_ActCD%)
42 If WS_BS(Val(sActCD$)) Then
43     taxcd$ = CellString(WkBS, getFSRow%(WkBS, sActCD$, ActCol), 3)
44 Else
45     taxcd$ = CellString(WkPL, getFSRow%(WkPL, sActCD$, ActCol), 3)
46 End If
47 CTXMult = CTXRate / (100 + CTXRate)
48 Rem -----
49 Select Case aSName$
50     Case "BK"
51         If CellString(aSheet, iRow&, Col_LineNo%) = "0" Then
52             PostBKBF (iRow&)
53             CalcBKBal (iRow& + 1)
54             Exit Sub
55         End If
56         wGross& = CellValue(aSheet, iRow&, Col_Gross% - 1)
57         IGross& = CellValue(aSheet, iRow&, Col_Gross%)
58         IBKChg& = CellValue(aSheet, iRow&, Col_BKChg%)
59         wCTax& = 0
60         ICTax& = 0
61         If XN$ = "X" Then
62             ClearCell iRow&, Col_CXCr%
63             ClearCell iRow&, Col_CXDr%
64             If taxcd$ = "S" Then
65                 If Col_CXCr% < 52 Then
66                     wCTax& = Int(Abs(wGross&) * CTXMult + 0.49) * mySigma(wGross&)
67                     ICTax& = Int(Abs(IGross&) * CTXMult + 0.1) * mySigma(IGross&)
68                     SetCellValue aSheet, iRow&, Col_CXCr%, -wCTax& + ICTax&
69                 Elseif A_VSLsCD(sActCD$) Then
70                     MsgTxt$ = "Make the journal entry on AR sheet, because revenues code is u

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        MsgTtl$ = "Test of taxable revenues code"
        resp%=Msgbox(MsgTxt$, 0, MsgTtl$)
    ElseIf A_VEOPX(sActCD$) then
        MsgTxt$ = "Make the journal entry for VAT received using "&chr(13)
        MsgTxt$ = MsgTxt$ & "an independent and seperate row."
        MsgTtl$ = "Test of VAT received code"
        resp%=Msgbox(MsgTxt$, 0, MsgTtl$)
    End If
    elseif taxcd$ = "T" then
        wCTax& = Int(Abs(wGross&) * CTXMult + 0.49) * mySigma(wGross&)
        ICTax& = Int(Abs(lGross&) * CTXMult + 0.1) * mySigma(lGross&)
        SetCellValue aSheet, iRow&, Col_CXDr%, -wCTax& + ICTax&
    end if
    ElseIf XN$ = "B" then
        ClearCell iRow&, Col_CXCr%
        ClearCell iRow&, Col_CXDr%
    Else
        wCTax& = CellValue(aSheet, iRow&, Col_CXCr%)
        ICTax& = CellValue(aSheet, iRow&, Col_CXDr%)
    End If
    If myIsEmpty(aSheet, iRow&, Col_ActCD%) then
        ClearCell iRow&, Col_Amount%
    Else
        lAmount& = -wGross& + lGross& +wCTax& - ICTax&
        SetCellValue aSheet, iRow&, Col_Amount%, lAmount&
    End If
    CalcBKBal(iRow&)
Case "JV"
lGross& = CellValue(aSheet, iRow&, Col_Gross%)
If XN$ = "X" then
    ICTax& = Int(Abs(lGross&) * CTXMult + 0.1) * mySigma(lGross&)
    ClearCell iRow&, Col_CXCr%
    ClearCell iRow&, Col_CXDr%
    if taxcd$ = "S" then
        SetCellValue aSheet, iRow&, Col_CXCr%, ICTax&
    elseif taxcd$ = "T" then
        SetCellValue aSheet, iRow&, Col_CXDr%, ICTax&
    else
        ICTax& = 0
    end if
    ElseIf XN$ = "B" then
        ClearCell iRow&, Col_CXCr%
        ClearCell iRow&, Col_CXDr%
        ICTax& = 0
    Else
        wCTax& = CellValue(aSheet, iRow&, Col_CXCr%)
        ICTax& = wCTax& + CellValue(aSheet, iRow&, Col_CXDr%)
    End If
    lAmount& = lGross& - ICTax&
    SetCellValue aSheet, iRow&, Col_Amount%, lAmount&
Case "AP", "AR"
    if CellValue(aSheet, iRow&, Col_ValMo%) <> cMonth% then
        MsgTxt$ = "Amount change for prior months is not allowed"
        MsgTtl$ = "Test of transaction for current month"
        resp% = MsgBox(MsgTxt$, 16, MsgTtl$)
        end
    end if
Case "MW"
    If XN$ = "X" then
        lQty = CellValue(aSheet, iRow&, Col_Descr% + 1) * 1000
        lUnit = CellValue(aSheet, iRow&, Col_Descr% + 3) * 10000
        SetCellValue aSheet, iRow&, Col_Descr% +4, lQty * lUnit/10000000
        lGross& = CellValue(aSheet, iRow&, Col_Gross%) * 1000
        lFxRate& = CellValue(aSheet, iRow&, Col_PaidMo%-1) * 100
        lAmount& = Int(lGross * lFxRate/100000)
        SetCellValue aSheet, iRow&, Col_Amount%, lAmount&
    Else
        lGross& = CellValue(aSheet, iRow&, Col_Gross%) * 1000
        lFxRate& = CellValue(aSheet, iRow&, Col_PaidMo%-1) * 100
        lAmount& = Int(lGross * lFxRate/100000)

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        MsgTtl$ = "Test of taxable revenues code"
        resp% = MsgBox(MsgTxt$, 0, MsgTtl$)
    ElseIf A_VEOPX(sActCD$) Then
        MsgTxt$ = "Make the journal entry for VAT received using " & Chr(13)
        MsgTxt$ = MsgTxt$ & "an independent and seperate row."
        MsgTtl$ = "Test of VAT received code"
        resp% = MsgBox(MsgTxt$, 0, MsgTtl$)
    End If
    ElseIf taxcd$ = "T" Then
        wCTax& = Int(Abs(wGross&) * CTXMult + 0.49) * mySigma(wGross&)
        ICTax& = Int(Abs(lGross&) * CTXMult + 0.1) * mySigma(lGross&)
        SetCellValue aSheet, iRow&, Col_CXDr%, -wCTax& + ICTax&
    End If
    ElseIf XN$ = "B" Then
        ClearCell iRow&, Col_CXCr%
        ClearCell iRow&, Col_CXDr%
    Else
        wCTax& = CellValue(aSheet, iRow&, Col_CXCr%)
        ICTax& = CellValue(aSheet, iRow&, Col_CXDr%)
    End If
    If myIsEmpty(aSheet, iRow&, Col_ActCD%) Then
        ClearCell iRow&, Col_Amount%
    Else
        lAmount& = -wGross& + lGross& + wCTax& - ICTax&
        SetCellValue aSheet, iRow&, Col_Amount%, lAmount&
    End If
    CalcBKBal (iRow&)
Case "JV"
lGross& = CellValue(aSheet, iRow&, Col_Gross%)
If XN$ = "X" Then
    ICTax& = Int(Abs(lGross&) * CTXMult + 0.1) * mySigma(lGross&)
    ClearCell iRow&, Col_CXCr%
    ClearCell iRow&, Col_CXDr%
    If taxcd$ = "S" Then
        SetCellValue aSheet, iRow&, Col_CXCr%, ICTax&
    ElseIf taxcd$ = "T" Then
        SetCellValue aSheet, iRow&, Col_CXDr%, ICTax&
    Else
        ICTax& = 0
    End If
    ElseIf XN$ = "B" Then
        ClearCell iRow&, Col_CXCr%
        ClearCell iRow&, Col_CXDr%
        ICTax& = 0
    Else
        wCTax& = CellValue(aSheet, iRow&, Col_CXCr%)
        ICTax& = wCTax& + CellValue(aSheet, iRow&, Col_CXDr%)
    End If
    lAmount& = lGross& - ICTax&
    SetCellValue aSheet, iRow&, Col_Amount%, lAmount&
Case "AP", "AR"
    If CellValue(aSheet, iRow&, Col_ValMo%) <> cMonth% Then
        MsgTxt$ = "Amount change for prior months is not allowed"
        MsgTtl$ = "Test of transaction for current month"
        resp% = MsgBox(MsgTxt$, 16, MsgTtl$)
        End
    End If
Case "MW"
    If XN$ = "X" Then
        lQty = CellValue(aSheet, iRow&, Col_Descr% + 1) * 1000
        lUnit = CellValue(aSheet, iRow&, Col_Descr% + 3) * 10000
        SetCellValue aSheet, iRow&, Col_Descr% + 4, lQty * lUnit / 10000000
        lGross& = CellValue(aSheet, iRow&, Col_Gross%) * 1000
        lFxRate& = CellValue(aSheet, iRow&, Col_PaidMo% - 1) * 100
        lAmount& = Int(lGross * lFxRate / 100000)
        SetCellValue aSheet, iRow&, Col_Amount%, lAmount&
    Else
        lGross& = CellValue(aSheet, iRow&, Col_Gross%) * 1000
        lFxRate& = CellValue(aSheet, iRow&, Col_PaidMo% - 1) * 100
        lAmount& = Int(lGross * lFxRate / 100000)

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        SetCellValue aSheet, iRow&, Col_Amount%, IAmount&
    End If
End Select
Select Case aSName$
    Case "BK", "JV", "MW"
        If CorpOrIndv = "Indv" then
            IndvChngAlloc IAmount&, iRow&
        ElseIf IsMultiDP Then
            ChngAlloc IAmount&, iRow&
        End If
    Case "AP"
        CalcPRM iRow&, Col_CXDr%, XN$, taxcd$
    Case "AR"
        CalcPRM iRow&, Col_CXCr%, XN$, taxcd$
End Select
End Sub
Sub CalcPRM(ByVal iRow&, CTXCol%, sXN$, stxcd$)
    Dim IGross&, ICTax&, IAmount&
    MsgTtl$ = "Test of applicability to this sheet"
    Select Case aSName$
        Case "AP"
            If stxcd$ = "S" then
                MsgTxt$ = "Input of revenues code is not allowed on this AP sheet."
                resp% = MsgBox(MsgTxt$, 16, MsgTtl$)
            End If
        Case "AR"
            If stxcd$ = "T" then
                MsgTxt$ = "Input of cost of revenues code is not allowed on this AR sheet."
                resp% = MsgBox(MsgTxt$, 16, MsgTtl$)
            End If
    End Select
    If sXN$ = "X" then
        If AP_UQP Or AR_UQP then
            IAmount& = CLng(Int(CellValue(aSheet, iRow&, Col_Gross%-2) * CellValue(aSheet, iRow&, Col_Gross%-
            If (aSName$ = "AP" and stxcd$ = "T") or (aSName$ = "AR" and stxcd$ = "S") then
                ICTax& = Int(Abs(IAmount&) * CTXRate/100 + 0.5) * mySigma(IAmount&)
                SetCellValue aSheet, iRow&, CTXCol%, ICTax&
            else
                ICTax& = 0
                ClearCell iRow&, CTXCol%
            end if
            IGross& = IAmount& + ICTax&
        Else
            IGross& = CellValue(aSheet, iRow&, Col_Gross%)
            If (aSName$ = "AP" and stxcd$ = "T") or (aSName$ = "AR" and stxcd$ = "S") then
                ICTax& = Int(Abs(IGross&) * CTXRate/(100 + CTXRate)) * mySigma(IGross&)
                SetCellValue aSheet, iRow&, CTXCol%, ICTax&
            else
                ICTax& = 0
                ClearCell iRow&, CTXCol%
            end if
            IAmount& = IGross& - ICTax&
        End If
        SetCellValue aSheet, iRow&, Col_Gross%, IGross&
        SetCellValue aSheet, iRow&, Col_Amount%, IAmount&
    ElseIf sXN$ = "B" then
        IGross& = CellValue(aSheet, iRow&, Col_Gross%)
        If (aSName$ = "AP" and stxcd$ = "T") or (aSName$ = "AR" and stxcd$ = "S") then
            IAmount& = IGross&
            ClearCell iRow&, CTXCol%
            SetCellValue aSheet, iRow&, Col_Amount%, IAmount&
        Else
            ICTax& = 0
            ClearCell iRow&, CTXCol%
            SetCellValue aSheet, iRow&, Col_Amount%, IGross&
        End If
    Else
        IGross& = CellValue(aSheet, iRow&, Col_Gross%)

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        SetCellValue aSheet, iRow&, Col_Amount%, IAmount&
    End If
End Select
Select Case aSName$
    Case "BK", "JV", "MW"
        If CorpOrIndv = "Indv" Then
            IndvChngAlloc IAmount&, iRow&
        ElseIf IsMultiDP Then
            ChngAlloc IAmount&, iRow&
        End If
    Case "AP"
        CalcPRM iRow&, Col_CXDr%, XN$, taxcd$
    Case "AR"
        CalcPRM iRow&, Col_CXCr%, XN$, taxcd$
End Select
End Sub
Sub CalcPRM(ByVal iRow&, CTXCol%, sXN$, stxcd$)
    Dim IGross&, ICTax&, IAmount&
    MsgTtl$ = "Test of applicability to this sheet"
    Select Case aSName$
        Case "AP"
            If stxcd$ = "S" Then
                MsgTxt$ = "Input of revenues code is not allowed on this AP sheet."
                resp% = MsgBox(MsgTxt$, 16, MsgTtl$)
            End If
        Case "AR"
            If stxcd$ = "T" Then
                MsgTxt$ = "Input of cost of revenues code is not allowed on this AR sheet."
                resp% = MsgBox(MsgTxt$, 16, MsgTtl$)
            End If
    End Select
    If sXN$ = "X" Then
        If AP_UQP Or AR_UQP Then
            IAmount& = CLng(Int(CellValue(aSheet, iRow&, Col_Gross% - 2) * CellValue(aSheet, iRow&
            If (aSName$ = "AP" And stxcd$ = "T") Or (aSName$ = "AR" And stxcd$ = "S") Then
                ICTax& = Int(Abs(IAmount&) * CTXRate / 100 + 0.5) * mySigma(IAmount&)
                SetCellValue aSheet, iRow&, CTXCol%, ICTax&
            Else
                ICTax& = 0
                ClearCell iRow&, CTXCol%
            End If
            IGross& = IAmount& + ICTax&
        Else
            IGross& = CellValue(aSheet, iRow&, Col_Gross%)
            If (aSName$ = "AP" And stxcd$ = "T") Or (aSName$ = "AR" And stxcd$ = "S") Then
                ICTax& = Int(Abs(IGross&) * CTXRate / (100 + CTXRate)) * mySigma(IGross&)
                SetCellValue aSheet, iRow&, CTXCol%, ICTax&
            Else
                ICTax& = 0
                ClearCell iRow&, CTXCol%
            End If
            IAmount& = IGross& - ICTax&
        End If
        SetCellValue aSheet, iRow&, Col_Gross%, IGross&
        SetCellValue aSheet, iRow&, Col_Amount%, IAmount&
    ElseIf sXN$ = "B" Then
        IGross& = CellValue(aSheet, iRow&, Col_Gross%)
        If (aSName$ = "AP" And stxcd$ = "T") Or (aSName$ = "AR" And stxcd$ = "S") Then
            IAmount& = IGross&
            ClearCell iRow&, CTXCol%
            SetCellValue aSheet, iRow&, Col_Amount%, IAmount&
        Else
            ICTax& = 0
            ClearCell iRow&, CTXCol%
            SetCellValue aSheet, iRow&, Col_Amount%, IGross&
        End If
    Else
        IGross& = CellValue(aSheet, iRow&, Col_Gross%)

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        ICTax& = CellValue(aSheet, iRow&, CTXCol%)
        IAmount& =IGross& - ICTax&
        SetCellValue aSheet, iRow&, Col_Amount%, IAmount&
    End If
    If CorpOrIndv = "Indv" then
        IndvChngAlloc IAmount&, iRow&
    ElseIf IsMultiDP Then
        ChngAlloc IAmount&, iRow&
    End If
End Sub
Sub PostBKBF(ByVal iRow&)
    Dim MBKC%, tVal&, MBKCRow&, mM%
    Dim oRange as object
    If CellValue(aSheet, iRow, Col_ValMo%) <> cMonth then
        MsgTxt$ = "The input month does not agree with the current month."&chr(13)
        MsgTxt$ = MsgTxt$ & "Agree them and retry this command"
        MsgTtl$ = "Test of accrued month vs current month"
        resp% = MsgBox (MsgTxt$, 0, MsgTtl$)
        End
    End If
    MsgTxt$ = "Will make this row a brought forward row."
    MsgTtl$ = "Confirmation of the brought forward row"
    resp% = MsgBox (MsgTxt$, 33, MsgTtl$)
    If resp% = 1 Then
        MBKC% = CellValue(WkBK, iRow&, Col_BKCD%)
        SetCellString WkBK, iRow&, Col_Descr%, BFName
        MBKCRow = getFSRow%(WkBS, CStr(MBKC%), ActCol)
        If CorpOrIndv = "Indv" Then
            If MBKC%=OWNCD then
                If CBS_CM% = CBS_YB% then
                    tVal& = 0
                Else
                    tVal& = CellValue(WkBS, MBKCRow, CBS_CM%-1)
                End If
            Else
                tVal& = CellValue(WkBS, MBKCRow, CBS_CM%-1)
            End If
        Else
            tVal& = CellValue(WkBS, MBKCRow, CBS_CM%-1)
        End If
        ClearRange WkBK, iRow&, Col_Descr%+1, iRow&, Col_CXDr%
        ClearRange WkBK, iRow&, Col_ActCD%, iRow&, Col_Border%-1
        SetCellValue WkBK, iRow&, Col_BKChg%+1, tVal&
        RNM$ = cna$ & Cstr(iRow&) & cjc$ & CAlpha(Col_Border% -1) & Cstr(iRow&)
        Set oRange = WkBK.getCellRangeByName(RNM$)
        oRange.HoriJustify = com.sun.star.table.CellHoriJustify.CENTER
        oRange.CharWeight = com.sun.star.awt.FontWeight.BOLD
        mM = val(right(CStr(cMonth),2)) MOD 6
        Select Case mM
            Case 0
                oRange.CellBackColor = RGB(255,222,173) 'beige
            Case 1
                oRange.CellBackColor = RGB(255,218,185) 'pink beige
            Case 2
                oRange.CellBackColor = RGB(215,194,195) 'cherry grey
            Case 3
                oRange.CellBackColor = RGB(230,230,250) 'light grey purple
            Case 4
                oRange.CellBackColor = RGB(176,196,222) 'light blue grey
            Case 5
                oRange.CellBackColor = RGB(224,255,255) 'light moss green
        End Select
        RNM$ = CAlpha(Col_BKCD%) & Cstr(iRow&) & cjc$ & CAlpha(Col_ValMo%) & Cstr(iRow&)
        Set oRange = WkBK.getCellRangeByName(RNM$)
        oRange.HoriJustify = com.sun.star.table.CellHoriJustify.Center
        Set oRange = WkBK.getCellByPosition(Col_BKChg%, iRow&-1)
        oRange.HoriJustify = com.sun.star.table.CellHoriJustify.RIGHT
    End If
End Sub
Rem ----(These steps are always unconditionally performed)-----

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211         ICTax& = CellValue(aSheet, iRow&, CTXCol%)
212         IAmount& = IGross& - ICTax&
213         SetCellValue aSheet, iRow&, Col_Amount%, IAmount&
214     End If
215     If CorpOrIndv = "Indv" Then
216         IndvChngAlloc IAmount&, iRow&
217     ElseIf IsMultiDP Then
218         ChngAlloc IAmount&, iRow&
219     End If
220 End Sub
221 Sub PostBKBF(ByVal iRow&)
222     Dim MBKC%, tVal&, MBKCRow&, mM%
223     Dim oRange As Range
224     If CellValue(aSheet, iRow, Col_ValMo%) <> cMonth Then
225         MsgTxt$ = "The input month does not agree with the current month." & Chr(13)
226         MsgTxt$ = MsgTxt$ & "Agree them and retry this command"
227         MsgTtl$ = "Test of accrued month vs current month"
228         resp% = MsgBox(MsgTxt$, 0, MsgTtl$)
229         End
230     End If
231     MsgTxt$ = "Will make this row a brought forward row."
232     MsgTtl$ = "Confirmation of the brought forward row"
233     resp% = MsgBox(MsgTxt$, 33, MsgTtl$)
234     If resp% = 1 Then
235         MBKC% = CellValue(WkBK, iRow&, Col_BKCD%)
236         SetCellString WkBK, iRow&, Col_Descr%, BFName
237         MBKCRow = getFSRow%(WkBS, CStr(MBKC%), ActCol)
238         If CorpOrIndv = "Indv" Then
239             If MBKC% = OWNCD Then
240                 If CBS_CM% = CBS_YB% Then
241                     tVal& = 0
242                 Else
243                     tVal& = CellValue(WkBS, MBKCRow, CBS_CM% - 1)
244                 End If
245             Else
246                 tVal& = CellValue(WkBS, MBKCRow, CBS_CM% - 1)
247             End If
248         Else
249             tVal& = CellValue(WkBS, MBKCRow, CBS_CM% - 1)
250         End If
251         ClearRange WkBK, iRow&, Col_Descr% + 1, iRow&, Col_CXDr%
252         ClearRange WkBK, iRow&, Col_ActCD%, iRow&, Col_Border% - 1
253         SetCellValue WkBK, iRow&, Col_BKChg% + 1, tVal&
254         RNM$ = "$A$" & CStr(iRow&) & ":" & CAlpha(Col_Border% - 1) & CStr(iRow&)
255         Set oRange = WkBK.Range(RNM$)
256         oRange.HorizontalAlignment = xlCenter
257         oRange.Font.Bold = True
258         mM = Val(Right(CStr(cMonth), 2)) Mod 6
259         Select Case mM
260             Case 0
261                 oRange.Interior.Color = RGB(255, 222, 173) 'beige
262             Case 1
263                 oRange.Interior.Color = RGB(255, 218, 185) 'pink beige
264             Case 2
265                 oRange.Interior.Color = RGB(215, 194, 195) 'cherry grey
266             Case 3
267                 oRange.Interior.Color = RGB(230, 230, 250) 'light grey purple
268             Case 4
269                 oRange.Interior.Color = RGB(176, 196, 222) 'light blue grey
270             Case 5
271                 oRange.Interior.Color = RGB(224, 255, 255) 'light moss green
272         End Select
273         RNM$ = CAlpha(Col_BKCD%) & CStr(iRow&) & ":" & CAlpha(Col_ValMo%) & CStr(iRow&)
274         Set oRange = WkBK.Range(RNM$)
275         oRange.HorizontalAlignment = xlCenter
276         Set oRange = WkBK.Cells(iRow&, Col_BKChg% + 1)
277         oRange.HorizontalAlignment = xlRight
278     End If
279 End Sub
280 Rem ----(These steps are always unconditionally performed)-----

```

```

Sub CalcBKBal(ByVal iRow&)
    Dim nBal&, cRow&, MBKC%
    cRow& = iRow&
    MBKC% = CellValue(WkBK, cRow&, Col_BKCD%)
    Do while cRow& < dbMonthBtm& + 2
        If CellValue(WkBK, cRow&, Col_ValMo%) = cMonth% then
            if CellValue(WkBK, cRow&, Col_BKCD%) = MBKC% then
                nBal& = CellValue(WkBK, cRow& - 1, Col_BKChg%+1)
                nBal& = nBal& + CellValue(WkBK, cRow&, Col_Gross%-1)
                nBal& = nBal& - CellValue(WkBK, cRow&, Col_Gross%)
                nBal& = nBal& - CellValue(WkBK, cRow&, Col_BKChg%-1)
                nBal& = nBal& - CellValue(WkBK, cRow&, Col_BKChg%)
                SetCellValue WkBK, cRow&, Col_BKChg% + 1, nBal&
            else
                exit do
            end if
        Else
            exit do
        EndIf
        cRow& = cRow& + 1
    Loop
End Sub
Sub ChngAlloc(ByVal fAmount&, ByVal iRow&)
    dim WkApp As Object, sActCD$
    dim AllHC As Variant, PtlHC As Variant, LastDpt As Variant
    dim i%, t%, AppRow&, UnVal&, TTamt&, AlloAmt&
    dim aAmt(1 to NumDpt) As Variant, EachHC(1 to NumDpt)
    Rem -----
    Set WkApp = oSheets.getByName("Apportion")
    AppRow& = getFSRow%(WkApp, CStr(cMonth%), 1)
    sActCD$ = CellString(aSheet, iRow&, Col_ActCD%)
    If A_VAllocCD(Val(sActCD$)) Then
        UnVal& = fAmount&
        TTamt& = 0
        AllHC = 0
        PtlHC = 0
        LastDpt = 0
        Rem ===== get apportionment factor =====
        For i% = 1 to NumDpt
            aAmt(i%) = CellValue(aSheet, iRow&, Col_Amount% + i%)
            EachHC(i%) = CellValue(WkApp, AppRow&, 1 + i%)
            AllHC = AllHC + EachHC(i%)
            If aAmt(i%) <> 0 Then
                TTamt& = TTamt& + aAmt(i%)
                PtlHC = PtlHC + EachHC(i%)
                LastDpt = LastDpt + 1
            End If
        Next i%
        Rem ===== Test of apportionment factor if input or not =====
        If AllHC = 0 Then
            MsgBox "ApportionmentFactor"
            aController.ActiveSheet = WkApp
            End
        End If
        Rem ===(Where empty, stop allocation and show the message for the non-input)===
        MsgTtl$ = "Test of factors for apportionment"
        If TTamt& = 0 then
            MsgTxt$ = "Could not allocate JE Amount into departrments due to "&chr(13)
            MsgTxt$ = MsgTxt$ & "no indication found for the departments to be allocated."
            resp% = MsgBox(MsgTxt$, 0, MsgTtl$)
        Elseif TTamt& = fAmount& then
            Rem At this stage, all the other consistency test is cleared than apportionment
            MsgTxt$ = "The total of apportioned amounts agree with JE amount." & chr(13)
            MsgTxt$ = MsgTxt$ & "So, recalculation of apportionment is not done." & chr(13)
            MsgTxt$ = MsgTxt$ & "Should there be a change in some apportionment factor," & chr(13)
            MsgTxt$ = MsgTxt$ & "change the applicable department amount to 1," & chr(13)
            MsgTxt$ = MsgTxt$ & "and retry row calculation."
            resp% = MsgBox(MsgTxt$, 0, MsgTtl$)
            Exit Sub
        Rem ===(Allocation based on the apportionment factor among the departments with figure)

```

```

281 Sub CalcBKBal(ByVal iRow&)
282     Dim nBal&, cRow&, MBKC%
283     cRow& = iRow&
284     MBKC% = CellValue(WkBK, cRow&, Col_BKCD%)
285     Do While cRow < dbMonthBtm& + 2
286         If CellValue(WkBK, cRow&, Col_ValMo%) = cMonth% Then
287             If CellValue(WkBK, cRow&, Col_BKCD%) = MBKC% Then
288                 nBal& = CellValue(WkBK, cRow& - 1, Col_BKChg% + 1)
289                 nBal& = nBal& + CellValue(WkBK, cRow&, Col_Gross% - 1)
290                 nBal& = nBal& - CellValue(WkBK, cRow&, Col_Gross%)
291                 nBal& = nBal& - CellValue(WkBK, cRow&, Col_BKChg% - 1)
292                 nBal& = nBal& - CellValue(WkBK, cRow&, Col_BKChg%)
293                 SetCellValue WkBK, cRow&, Col_BKChg% + 1, nBal&
294             Else
295                 Exit Do
296             End If
297         Else
298             Exit Do
299         End If
300         cRow& = cRow& + 1
301     Loop
302 End Sub
303 Sub ChngAlloc(ByVal fAmount&, ByVal iRow&)
304     Dim WkApp As Worksheet, sActCD$
305     Dim AllHC As Variant, PtlHC As Variant, LastDpt As Variant
306     Dim i%, t%, AppRow&, UnVal&, TTamt&, AlloAmt&
307     Dim aAmt(1 To NumDpt) As Variant, EachHC(1 To NumDpt)
308     Rem -----
309     Set WkApp = Workbooks(GLName).Worksheets("Apportion")
310     AppRow& = getFSRow%(WkApp, CStr(cMonth%), 1)
311     sActCD$ = CellString(aSheet, iRow&, Col_ActCD%)
312     If A_VAllocCD(Val(sActCD$)) Then
313         UnVal& = fAmount&
314         TTamt& = 0
315         AllHC = 0
316         PtlHC = 0
317         LastDpt = 0
318         Rem ===== get apportionment factor =====
319         For i% = 1 To NumDpt
320             aAmt(i%) = CellValue(aSheet, iRow&, Col_Amount% + i%)
321             EachHC(i%) = CellValue(WkApp, AppRow&, 1 + i%)
322             AllHC = AllHC + EachHC(i%)
323             If aAmt(i%) <> 0 Then
324                 TTamt& = TTamt& + aAmt(i%)
325                 PtlHC = PtlHC + EachHC(i%)
326                 LastDpt = LastDpt + 1
327             End If
328         Next i%
329         Rem ===== Test of apportionment factor if input or not =====
330         If AllHC = 0 Then
331             MsgBox "ApportionmentFactor"
332             WkApp.Activate
333             End
334         End If
335         Rem ===(Where empty, stop allocation and show the message for the non-input)===
336         MsgTtl$ = "Test of factors for apportionment"
337         If TTamt& = 0 Then
338             MsgTxt$ = "Could not allocate JE Amount into departrments due to "&chr(13)
339             MsgTxt$ = MsgTxt$ & "no indication found for the departments to be allocated."
340             resp% = MsgBox(MsgTxt$, 0, MsgTtl$)
341         Elseif TTamt& = fAmount& Then
342             Rem At this stage, all the other consistency test is cleared than apportionment
343             MsgTxt$ = "The total of apportioned amounts agree with JE amount." & Chr(13)
344             MsgTxt$ = MsgTxt$ & "So, recalculation of apportionment is not done." & Chr(13)
345             MsgTxt$ = MsgTxt$ & "Should there be a change in some apportionment factor," & Chr(13)
346             MsgTxt$ = MsgTxt$ & "change the applicable department amount to 1," & Chr(13)
347             MsgTxt$ = MsgTxt$ & "and retry row calculation."
348             resp% = MsgBox(MsgTxt$, 0, MsgTtl$)
349             Exit Sub
350         Rem ===(Allocation based on the apportionment factor among the departments with figure)

```

```

Else
    t% = 1
    For i% = 1 To NumDpt
        If aAmt(i%) <> 0 Then
            if t% = LastDpt Then 'apportionment residue is allocated to the last department
                AlloAmt& = UnVal&
            else
                AlloAmt& = Int(fAmount& * EachHC(i%) / PtlHC + 0.5)
                UnVal& = UnVal& - AlloAmt
            end if
            SetCellValue aSheet, iRow&, Col_Amount% + i%, AlloAmt&
            t% = t% + 1
        End If
    Next i%
End If
Else
    ClearRange aSheet, iRow&, Col_Amount%+1, iRow&, Col_Amount%+NumDpt
End If
End Sub

```

```

351 Else
352     t% = 1
353     For i% = 1 To NumDpt
354         If aAmt(i%) <> 0 Then
355             If t% = LastDpt Then 'apportionment residue is allocated to the last department
356                 AlloAmt& = UnVal&
357             Else
358                 AlloAmt& = Int(fAmount& * EachHC(i%) / PtlHC + 0.5)
359                 UnVal& = UnVal& - AlloAmt
360             End If
361             SetCellValue aSheet, iRow&, Col_Amount% + i%, AlloAmt&
362             t% = t% + 1
363         End If
364     Next i%
365 End If
366 Else
367     ClearRange aSheet, iRow&, Col_Amount% + 1, iRow&, Col_Amount% + NumDpt
368 End If
369 End Sub

```