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*****
/* Date:      4/24/95 5:00 pm
/*
/* Macro:     UTRLTXT2.WCM
/*
/* Purpose:   To prepare Right-to-Left text for editing.
/*
/*           The user of this macro is working with a pseudo
/*           paragraph of Right-to-Left text. A pseudo
/*           paragraph is defined such that each line ends with
/*           a carriage return and the paragraph ends with two
/*           carriage returns. The cursor can be anywhere inside
/*           the pseudo paragraph when the macro is invoked. The
/*           lines of the paragraph are reversed such that the
/*           first line becomes the last line and the last line
/*           becomes the first line. Then the paragraph is stripped
/*           of its carriage returns.
/*
/*           The resulting text is now "Upside Down" but it is
/*           in an order that inserting text or changing margins
/*           will wordwrap and preserve the proper order of the
/*           Right-to-Left text.
/*
/*           When the editing is finished the user will run the
/*           UTRLTXT2 macro which will re-order the text back.
/*
/* Notes:     If the text is not a correct pseudo paragraph the
/*           macro will issue an error MessageBox and return
/*           having done nothing!
*****
/* Application (A1; "WordPerfect"; Default; "US")
USE( "UTRLTXT1.WCM")
Display(State: Off!)
WaitMessage()
CodesRevealed:= ?RevealCodesActive
If(CodesRevealed = True)
  RevealCodes(Off!)
EndIf
SwapWhiteSpaceFirstLast()
ConvertTruePghToPseudoPgh()
ReverseLinesOfPseudoPgh()
RemoveWhiteSpaceLast()
GotoStartOfPseudoParagraph()
If(CodesRevealed = True)
  RevealCodes(On!)
EndIf

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KillWaitMessage()

Quit

```
//=====
// SwapWhiteSpaceFirstLast()
//
// This function assumes true paragraphs where all lines
// excluding the last line ends with a word wrap and the
// last line ends with a carriage return.
//
// This function essentially moves the white space from the
// end of the last line of a true paragraph and puts it on
// the start of the first line of that paragraph.
//
Function SwapWhiteSpaceFirstLast()
spaces = 0
lines = CountLinesInTrueParagraph()
toInsert = 32
While (toInsert >= 1)
  // this while loop inserts toInsert spaces
  // at a time until the line count bumps
  tLines = lines
  While(tLines = lines)
    GotoStartOfTrueParagraph()
    For(i;1;i<=toInsert;i+1)
      Type(" ")
    EndFor
    spaces = spaces + toInsert
    MacroStatusPrompt(On!; "    Calculating: "+spaces)
    tLines = CountLinesInTrueParagraph()
  EndWhile
  // oops too much space so we remove the last insert
  GotoStartOfTrueParagraph
  For(i;1;i<=toInsert;i+1)
    DeleteCharNext()
  EndFor
  spaces = spaces - toInsert
  // now set the insert amount to the next smaller increment
  If (toInsert = 2)
    toInsert = 1
  Else
    toInsert = toInsert/4
  EndIf
EndWhile
GotoStartOfTrueParagraph()
EndFunc
//=====
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// RemoveWhiteSpaceLast()
//
// This function assumes pseudo paragraphs where each line
// ends with a single return and each paragraph ends with
// a double return.
//
// Because the pseudo paragraph was created from a true
// paragraph that had been kludged by a call to the
// SwapWhiteSpaceFirstLast() function we now have unwanted
// white space on the last line. This function removes that
// white space.
//
Function RemoveWhiteSpaceLast()
lines = CountLinesInPseudoParagraph() - 1
While(lines <> 0)
  PosLineDown
  lines = lines - 1
EndWhile
PosLineBeg
spaces = 1
While(?RightChar = " ")
  MacroStatusPrompt(On!; "      Deleting spaces. "+spaces)
  DeleteCharNext
  spaces = spaces + 1
EndWhile
Type(" ")
EndFunc
//=====
// ConvertTruePghToPseudoPgh()
//
// This function assumes true paragraphs where all lines
// excluding the last line ends with a word wrap and the
// last line ends with a carriage return
//
// This function converts the true paragraph which contains
// the cursor (or start of selection) to a pseudo paragraph
// by adding a return to the end of each line excluding the
// last line.
//
// The cursor is then positioned at the start of the pseudo
// paragraph on exit.
//
Function ConvertTruePghToPseudoPgh()
ForceDoubleReturnOnTruePgh()
lines = CountLinesInTrueParagraph()
AddReturnsToLines(lines)

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GotoStartOfPseudoParagraph()
EndFunc
=====
// CountLinesInTrueParagraph()
//
// This function assumes true paragraphs where all lines
// excluding the last line ends with a word wrap and the
// last line ends with a carriage return
//
// This function counts the number of lines in a true
// paragraph.
//
// As a side effect the cursor is left positioned at
// the start of the paragraph.
//
Function CountLinesInTrueParagraph()
GotoStartOfTrueParagraph()
lines = 1
While(LineType()=1)
  lines = lines + 1
  MacroStatusPrompt(On!; "      Counting lines: "+lines)
  PosLineDown
EndWhile
GotoStartOfTrueParagraph()
return(lines)
EndFunc
=====
// ForceDoubleReturnOnTruePgh()
//
// This function assumes true paragraphs where all lines
// excluding the last line ends with a word wrap and the
// last line ends with a carriage return
//
// This function looks at the end of a true paragraph and
// forces it to end with 2 carriage returns.
//
Function ForceDoubleReturnOnTruePgh()
// force preceding CR Only
GotoStartOfTrueParagraph()
PosLineVeryBeg
If(?LeftCode<>0)
  PosLineUp
  lt = LineType()
  PosLineDown
  If(lt <> 3)
    PosLineBeg

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    HardReturn
  EndIf
EndIf
// force ending CR Only
While(LineType()=1)
  PosLineDown
EndWhile
If(LineType() = 5)
  GotoStartOfTrueParagraph()
  return
EndIf
PosLineDown
If(LineType() <>3)
  PosLineUp
  PosLineEnd
  HardReturn
EndIf
PosLineUp
GotoStartOfTrueParagraph()
EndFunc
//=====
// GotoStartOfTrueParagraph()
//
// This function assumes true paragraphs where all lines
// excluding the last line ends with a word wrap and the
// last line ends with a carriage return
//
// On input the cursor is anywhere inside such a paragraph.
// This function will move the cursor to the first character
// of such a paragraph.
//
Function GotoStartOfTrueParagraph()
done = 0
While(done=0)
  // goto to the start of this line
  // if its the start of the DOC we are done
  PosLineVeryBeg
  If(?LeftCode=0)
    done=1
  Else
    //go up one line
    PosLineUp
    Switch(LineType())
      CaseOf 2 :
        Continue
      CaseOf 3 :

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        PosLineDown
        PosLineBeg
        done = 1
    EndSwitch
EndIf
EndWhile
PosLineBeg
EndFunc
=====
// AddReturnsToLines()
//
// This function assumes true paragraphs where all lines
// excluding the last line ends with a word wrap and the
// last line ends with a carriage return
//
// Returns are added to the passed number of lines starting
// with the line containing the cursor (or start of selection).
//
Function AddReturnsToLines(lines)
While(lines <> 0)
    PosLineVeryEnd
    If(?RightCode <> 204)
        If(?LeftChar = " ")
            DeleteCharPrevious
        EndIf
        HardReturn()
        // Spaces appear to be stored after the end of wrapped
        // lines so we must delete one if it now shows up
        If(?RightChar = " ")
            DeleteCharNext
        EndIf
    EndIf
    lines = lines - 1
EndWhile
EndFunc

// Commented for later use:
// MsgBox(action;"Warning!";"LeftChar ["+?LeftChar+"] RightChar ["+?
RightChar+"] //LeftCode "+?LeftCode+" RightCode "+?RightCode;IconStop! | OK!;)

```