Public Function GetUBound(ByVal DataArray As Variant) As Long

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' Procedure : GetUBound

' Author : Adiv Abramson

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' Purpose : Use if there's a chance that the array will not have any elements.

' : Normally, calling UBound() on an empty dynamic array throws an error. This

' : wrapper function returns a -1 if the array has no elements.

' : Invoking Ubound() on an empty fixed size array returns -1 without errors.

' : E.g. Ubound(Array()) => -1 and GetUbound(Array()) => -1

' :

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'Numerics:

'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Dim lngUbound As Long

'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

10 On Error GoTo ErrProc

20 GetUBound = -1

'========================================================

'Validate input

'========================================================

30 If Not IsArray(DataArray) Then Exit Function

40 On Error Resume Next

50 lngUbound = UBound(DataArray)

60 If Err <> 0 Then

70 Err.Clear

80 Exit Function

90 End If

100 On Error GoTo ErrProc

110 GetUBound = lngUbound

120 Exit Function

ErrProc:

130 GetUBound = -1

140 MsgBox "Error " & Err.Number & " (" & Err.Description & ") at line " \_

& Erl & " in procedure GetUBound of Module " & MODULE\_NAME

End Function