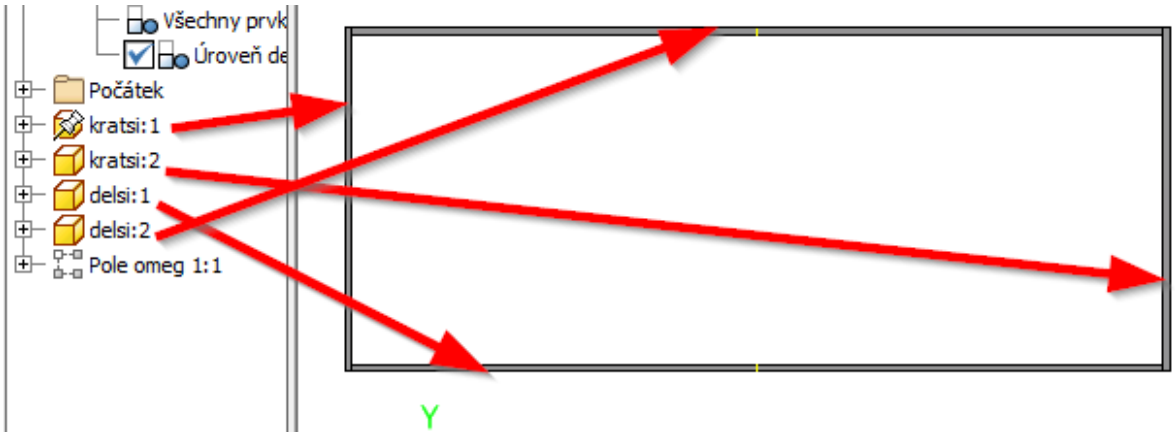
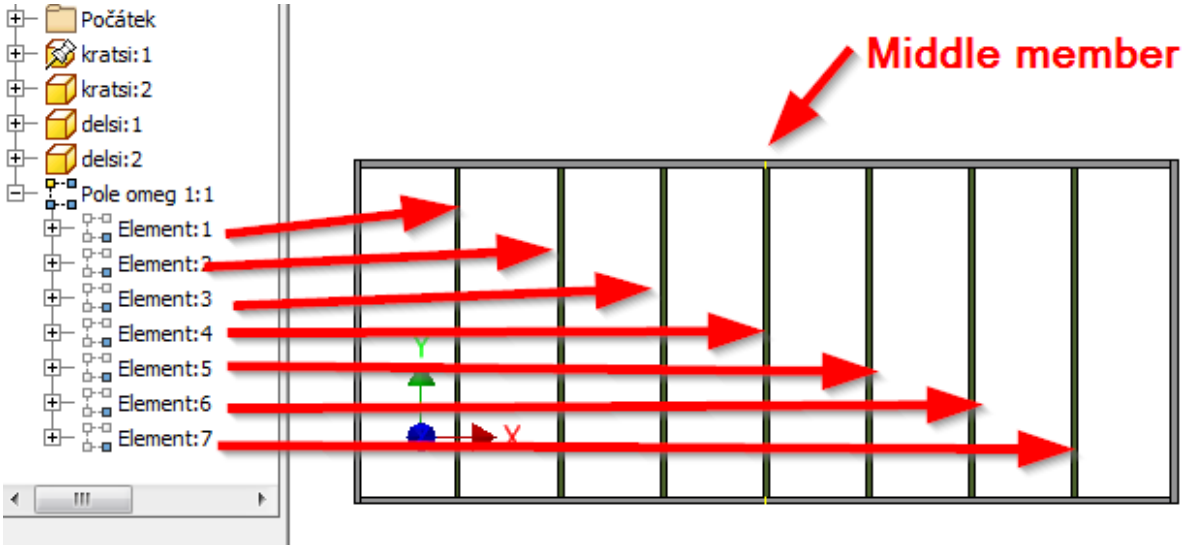
Hello everybody,

I've been wandering through the forum to find some solution on suppressing the component occurrence in an assembly using the iLogic code but nothing that has been discussed seems to fit on my problem. Or I don't understand it well... I'll try to describe it.

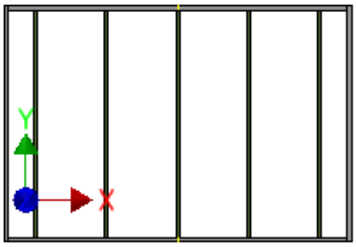
1. I have a simple rectangular assembly consisting of a four bars. Size (length and width) of the assembly is driven from within the assembly using the iLogic code (therefore I modify the dimensions of the bars from the assembly level). I CAN CHANGE THE LENGTH AND WIDTH OF THE RECTANGULAR FRAME.



2. Inside the rectangular frame I have some inner bars (crosspieces) that are positioned from the left to the right so that the middle bar is always in the center of the longer side of the rectangular frame. Position, number and spacing of the crosspieces is also driven using the iLogic code to ensure that the inner bars are always evenly spaced and centered inside the rectangular frame. I CAN CHANGE THE SPACING (ROZTEC_OMEGA parameter) OF THE INNER BARS (SELECTION FROM 2 VALUES), OTHER DIMENSIONS ARE ADJUSTED AUTOMATICALLY.



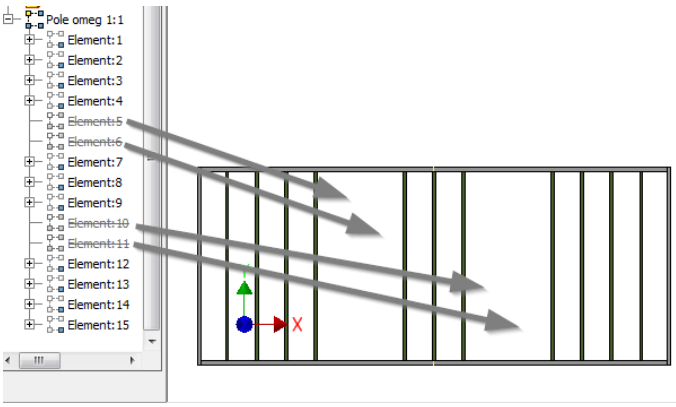
3. If I change the dimensions of the rectangular frame or the spacing of the inner bars, the assembly is adjusted accordingly.



Parametry

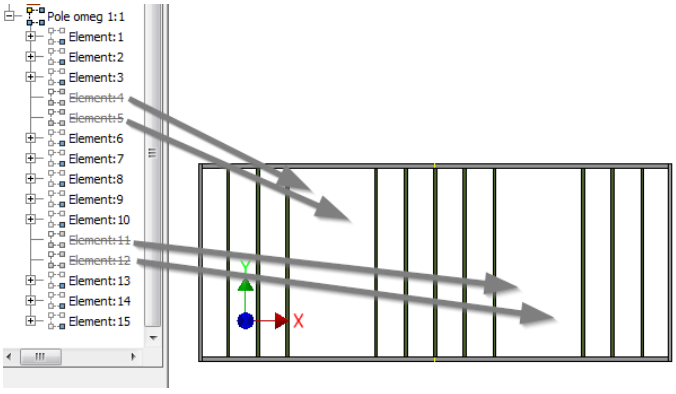
Název parametru	Jednotka/Typ	Výraz
Parametry modelu		
Uživatelské parametry		
DELKA **Length**	mm	2989 mm
SIRKA **Width**	mm	2035 mm
stred_pole	mm	1494.5 mm
prvni_zleva	mm	274.5 mm
pocet_omeg	ul	5 ul
ROZTEC_OMEGA **Spacing**	mm	610 mm
redukovana_DELKA_pul	mm	1439.5 mm
pocet_omeg_na_polovine	ul	2 ul

4. And now the tricky part (at least for me...). I have another parameter called ROZTEC_VZV that can be set to 1 of 2 values. Based on this parameter and spacing of the inner bars (ROZTEC_OMEGA) I want selectively suppress some inner bars so it may look like in the pictures below... This also should be done using the iLogic.



Parametry

Název parametru	Jednotka/Typ	Výraz
Parametry modelu		
Uživatelské parametry		
DELKA	mm	4885 mm
SIRKA	mm	2035 mm
stred_pole	mm	2442.5 mm
prvni_zleva	mm	307.5 mm
pocet_omeg	ul	15 ul
ROZTEC_OMEGA	mm	305 mm
redukovana_DELKA_pul	mm	2387.5 mm
pocet_omeg_na_polovine	ul	7 ul
ROZTEC_VZV	mm	1660 mm
stredni_omega	ul	8 ul



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Parametry modelu		
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DELKA	mm	4885 mm
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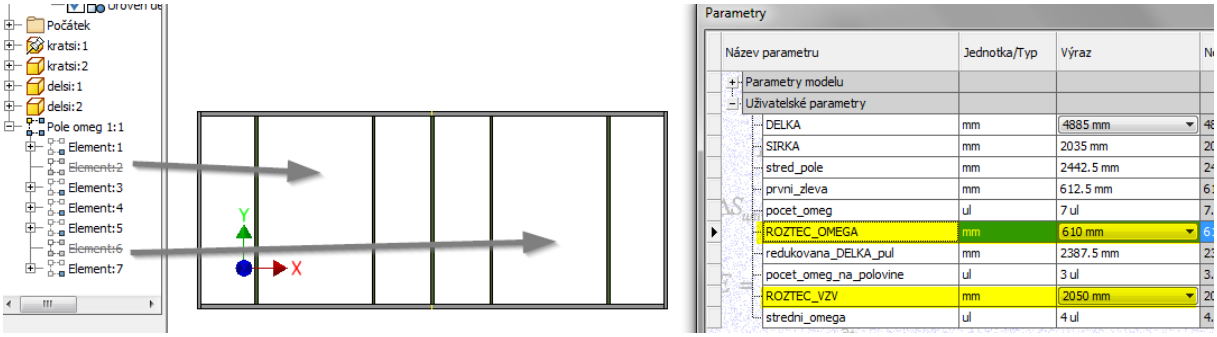
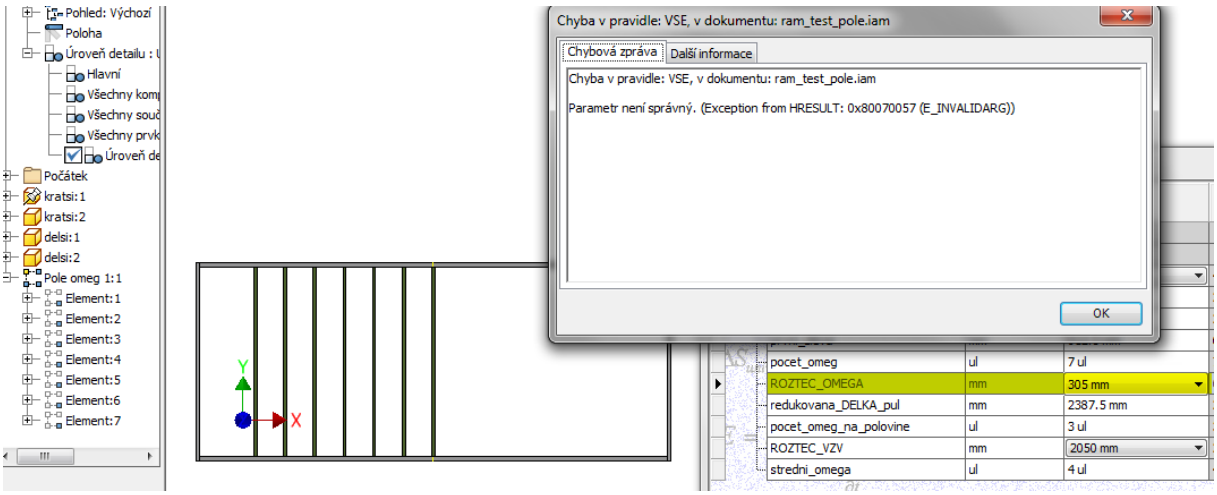
stred_pole	mm	2442.5 mm
prvni_zleva	mm	307.5 mm
pocet_omeg	ul	15 ul
ROZTEC_OMEGA	mm	305 mm
redukovana_DELKA_pul	mm	2387.5 mm
pocet_omeg_na_polovine	ul	7 ul
ROZTEC_VZV	mm	2050 mm
stredni_omega	ul	8 ul



5. The problem is that when I change any parameter (for example the length or the spacing), it sometimes works and sometimes it pop-ups some nice error windows like in the picture below. It seems to me that Inventor somehow does not know about the parameter that has changed (or I don't know how to tell Inventor that the parameter has changed).



Below is the iLogic code I have created to achieve the desired functionality. I also attached the assembly to test its functionality.

```
Parameter("delsi:1", "delka_delsi") = DELKA - 2*Parameter("kratsi:1", "sirka_kratsi")
Parameter("kratsi:1", "delka_kratsi") = SIRKA
Parameter("omega:1", "omega_delka") = SIRKA - 2*Parameter("delsi:1", "sirka_delsi")

iLogicVb.UpdateWhenDone = True

'Aby se pole správně tvořilo, je potřeba vhodně zavazbit první element pole - v tomto případě je vytvořena vazba mezi
'střední rovinou omegy a VNĚJŠÍ plochou rámu (protože pracuji s maximálním vnějším rozměrem kontejneru).
'================================================================================================================
'URČENÍ STŘEDU POLE
stred_pole = DELKA/2

'POMOCNÁ HODNOTA REDUKOVANÉ DÉLKY PŮL (zahrnutí šířky rohů a šířky omegy, aby se pole nevytvářelo až do kraje)
redukovana_DELKA_pul = DELKA/2 - Parameter("kratsi:1", "sirka_kratsi") - Parameter("omega:1", "omega_sirka")/2

'POČET OMEG NA JEDNÉ POLOVINĚ (zaokrouhlení dolů na celé číslo)
pocet_omeg_na_polovine = Floor(redukovana_DELKA_pul/ROZTEC_OMEGA)

'POLOHA PRVNÍHO PRVKU ZLEVA
prvni_zleva = DELKA/2 - (pocet_omeg_na_polovine * ROZTEC_OMEGA)

'CELKOVÝ POČET OMEG NA PODLAZE
pocet_omeg = ((DELKA - 2*prvni_zleva) / ROZTEC_OMEGA) + 1

'STŘEDNÍ OMEGA (pro určení indexu prvku pole, který má být vypnut)
stredni_omega = Floor(pocet_omeg / 2) + 1

iLogicVb.UpdateWhenDone = True
```

Dimensions of the rectangular frame and the length of the inner bars.

Compute the center of the inner bars pattern

Help parameter for the pattern to be created INSIDE the rectangular frame

Number of inner bars on the one half of the rectangular frame

Position of the first left inner bar

Total number of the inner bars

Getting the index of the middle bar for the suppression of adjacent bars

Code for suppression of the inner bars

```
Dim oDoc As AssemblyDocument
oDoc = ThisApplication.ActiveDocument
'ODKAZOVÁNÍ POLE V SESTAVĚ
Dim oPattern As OccurrencePattern
oPattern = oDoc.ComponentDefinition.OccurrencePatterns.Item("Pole omeg 1:1") 'identifikujeme pole podle jména
'DEFINICE ELEMENTŮ POLE
Dim oElement As OccurrencePatternElement
oElements = oPattern.OccurrencePatternElements

'RESET POLE PŘED KAŽDOU ZMĚNOU ROZTEČÍ (zapnutí všech prvků pole)
For Each oElement In oElements
    oElement.Suppressed=False 'zapnutí (=zrušení vypnutí) prvků
Next

Select Case ROZTEC_OMEGA
    Case 610
        Select Case ROZTEC_VZV
            Case 950
            oPattern.OccurrencePatternElements.Item(stredni_omega+1).Suppressed=True
            oPattern.OccurrencePatternElements.Item(stredni_omega-1).Suppressed=True
            Case 1660
            oPattern.OccurrencePatternElements.Item(stredni_omega+1).Suppressed=True
            oPattern.OccurrencePatternElements.Item(stredni_omega-1).Suppressed=True
            Case 2050
            oPattern.OccurrencePatternElements.Item(stredni_omega+2).Suppressed=True
            oPattern.OccurrencePatternElements.Item(stredni_omega-2).Suppressed=True
            Case Else

        End Select
    Case 305
        Select Case ROZTEC_VZV
            Case 950
            oPattern.OccurrencePatternElements.Item(stredni_omega+1).Suppressed=True
            oPattern.OccurrencePatternElements.Item(stredni_omega-1).Suppressed=True
            oPattern.OccurrencePatternElements.Item(stredni_omega+2).Suppressed=True
            oPattern.OccurrencePatternElements.Item(stredni_omega-2).Suppressed=True
            Case 1660
            oPattern.OccurrencePatternElements.Item(stredni_omega+2).Suppressed=True
            oPattern.OccurrencePatternElements.Item(stredni_omega-2).Suppressed=True
            oPattern.OccurrencePatternElements.Item(stredni_omega+3).Suppressed=True
            oPattern.OccurrencePatternElements.Item(stredni_omega-3).Suppressed=True
            Case 2050
            oPattern.OccurrencePatternElements.Item(stredni_omega+3).Suppressed=True
            oPattern.OccurrencePatternElements.Item(stredni_omega-3).Suppressed=True
            oPattern.OccurrencePatternElements.Item(stredni_omega+4).Suppressed=True
            oPattern.OccurrencePatternElements.Item(stredni_omega-4).Suppressed=True
        End Select
End Select

iLogicVb.UpdateWhenDone = True
```

Reset of the array before any change of the spacing (all occurences are ON)

I would greatly appreciate any help.