

***CONTROL_ADAPTIVE_CURVE**

Purpose: To refine the element mesh along a curve. All curves defined by the keyword *DEFINE_CURVE_TRIM are used in the refinement. This option provides additional refinement to that created by *CONTRO_ADAPTIVE. Additionally, mesh refinement along a predefined curve with specific distance/range is enabled when this keyword is used together with *DEFINE_CURVE_TRIM_3D, by activating the variable TCTOL.

Card 1 1 2 3 4 5 6 7 8

Variable	IDSET	ITYPE	N	SMIN	ITRIOPT			
Type	I	I	I	F	I			

<u>VARIABLE</u>	<u>DESCRIPTION</u>
IDSET	Set ID
ITYPE	Set type: EQ.1: IDSET is shell set ID. EQ.2: IDSET is part set ID.
N	Refinement option: EQ.1: Refine until there are no adaptive constraints remaining in the element mesh around the curve, subjected to the maximum refinement level of 5. GT.1: Refine no more than N levels.
SMIN	If the element dimension is smaller than this value, do not refine.
ITRIOPT	Option to refine an enclosed area of a trim curve. EQ.0: Refine the elements along the trim curve. EQ.1: Refine the elements along the trim curve and enclosed by the trim curve.

Remarks:

1. Keyword manual pages *DEFINE_CURVE_TRIM provides more details regarding mesh refinement along a curve within a user specified distance/range, useful in performing a flanging simulation in a multistage stamping die process simulation.

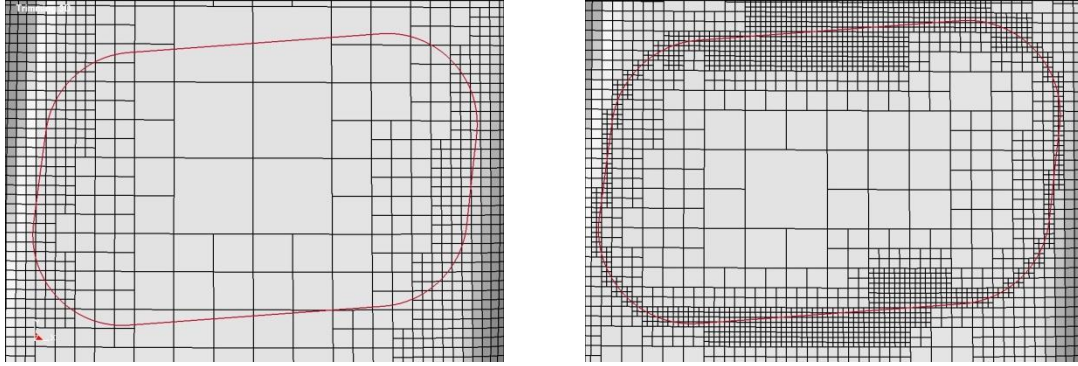


Figure 8.2. Refinement along a curve.

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***CONTROL**
