*CONTROL_ADAPTIVE (major update in R9)

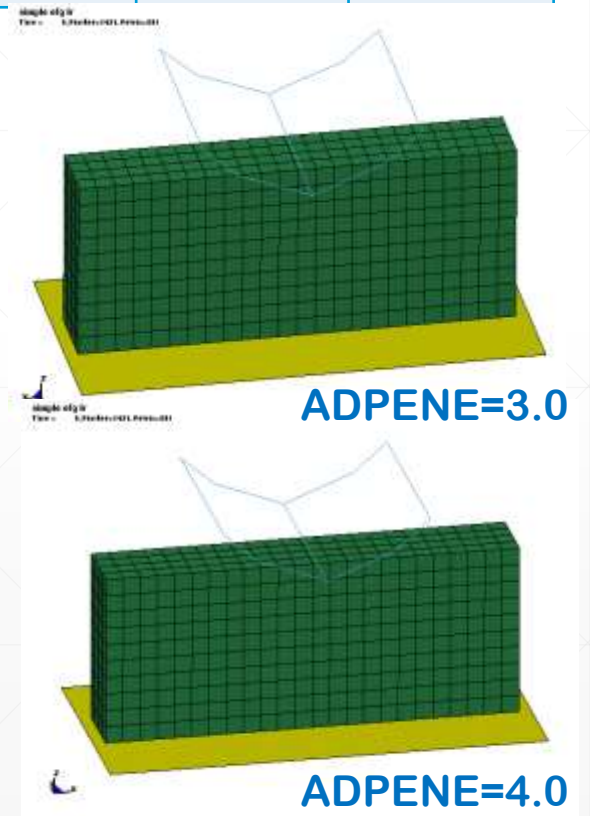- Card 2

Variable	ADPSIZE	ADPASS	IREFLG	ADPENE	ADPTH	MEMORY	ORIENT	MAXEL
Type	F	I	I	F	F	I	I	I
Default		0	0	0.0			0	

- **ADPENE** EQ.0: global remeshing

  GT.0: local refinement

- The mesh size of local refinement is based on contact surface curvature

- Bigger **ADPENE**, larger and smoother transition from fine to coarse mesh

- Works for contacts defined between adaptive part and

  (1) rigid / deformable / adaptive solid part

  (2) rigid / deformable shell part

- Supporting contact types: SURFACE_TO_SURFACE (SOFT=0,1)

  Recommend FORMING_, AUTOMATIC_, _MORTAR

- ONLY supporting 3D general TET remesher

ADPENE=3.0

ADPENE=4.0

Adaptive remesh: mesh size (3-1)

- **Local refinement**

  - **ADPENE**=1

  - **Self-riveting application**
    - Two adaptive EFG parts
    - *CONTACT_FORMING_SURFACE_TO_SURFACE_MORTAR_THERMAL
    - MPP Implicit analysis
    - Thermal-mechanical coupling

  - **Avoid unnecessary refinement (if possible)**
    - Extend the tool edges beyond adaptive part boundaries and symmetric planes
    - Use multiple tool parts to construct corners

Deformable tool

Adaptive parts