

ANSYS Class3 Error Report**ERROR NO:**

2014-04

Keywords:

CONTA171 CONTA172 CONTA173 CONTA174 CONTA175
CONTA176 CONTA177 MPC CONTACT NROTAT

Description of Error:

The displacements of contact nodes may be updated incorrectly when the following conditions are all applied:

1. MPC bonded contact is set (KEYOPT(2)=2, KEYOPT(12)=4,5,6 for contact element CONTA171 through CONTA177)
2. Any contact node is rotated to a local coordinate system (e.g. through an NROTAT command)

This will result in an incorrect solution.

Typical GUI Path(s):

Main Menu>Preprocessor>Modeling>Move /
Modify>RotateNode>To Active CS

Other Comments:

Surface-based constraints (Rigid surface constraint, Force-distributed constraint, Coupling constraint) are not affected.

First Incorrect Version:

Release 10.0

Corrected In:

Release 16.0

Suggested User Action For Running on Uncorrected Version:

Rotate all contact nodes back to the global Cartesian coordinate system.

Author Signature:

Yongyi Zhu 2/5/2014

Reviewed By QA:

Bill Bryan 2/14/2014

Approval:

Dave Conover 2/5/2014