

ANSYS Class3 Error Report**ERROR NO:**

2013-10

Keywords:

BEAM188 KEYOPT(3) CDWRITE EBLOCK

Description of Error:

For higher order (KEYOPT(3)=2 or KEYOPT(3)=3) BEAM188 elements, database archiving before solution via the CDWRITE command omits the BEAM188 orientation nodes. Specifying KEYOPT(3)=2 or KEYOPT(3)=3 creates internal nodes, but not until solution. Although the CDWRITE command anticipates the existence of internal nodes when determining element connectivity, the internal nodes do not actually exist when the CDWRITE command is issued before SOLVE and the CDB file is invalid.

Typical GUI Path(s):

Main Menu>Preprocessor>Archive Model>Write

Main Menu>Preprocessor>Element Type>Add/Edit/Delete

Other Comments:

The CDWRITE command handles higher order PIPE288 elements correctly at revision 12.0.

First Incorrect Version:

Release 12.0

Corrected In:

Release 13.0

Suggested User Action For Running on Uncorrected Version:

When the model contains higher order BEAM188 elements, archive the model via CDWRITE after solution. The user may also switch to KEYOPT(3)=0 to preserve BEAM188 orientation nodes prior to solution.

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