

ANSYS Class3 Error Report

ERROR NO:

2013-04R1

Keywords:

LCOPER

LCWRITE

SHELLS

LAYERED SOLIDS

MMASS

Description of Error:

Stress results from /POST1 load case operations (LCOPER) involving any load case files (LCWRITE) will be incorrect for any 3-D shell elements (SHELL63, SHELL181, SHELL281, or SOLSH190), 2-D axisymmetric shells (SHELL208 or SHELL209), or 3-D layered solid elements (SOLID185 or SOLID186) under the following conditions:

- SHELL63 with KEYOPT(11)=2, or SHELL181, SHELL281, SHELL208 or SHELL209 with KEYOPT(8)=2 (store data for TOP, BOTTOM, and MID for all layers), or
- Layered SHELL181, SHELL281, SOLSH190, SHELL208, SHELL209 elements or layered SOLID185, SOLID186 elements with KEYOPT(8)=1 (store data for TOP and BOTTOM for all layers) and the number of layers (repeated SECDATA commands) is a multiple of 3 (3, 6, 9, 12, ...)

Note that with ETCONTROL,SET (default with Workbench Mechanical), KEYOPT(8) is automatically set to 2 for SHELL181, 281, 208, and 209.

Mode combinations from spectrum analyses (ANTYPE,SPECTRUM with SPOPT,SPRS DDAM or MPRS) are also affected as they use LCWRITE/LCOPER internally (/INPUT,,MCOM).

When running multiple spectrum analyses (ANTYPE,SPECTRUM with SPOPT,SPRS or MPRS) with mode reuse (ModeReuseKey=YES on the SPOPT command) and missing mass activated (MMASS command), the stress results are also affected.

Typical GUI Path(s):

Main Menu>General Postproc>Load Case>Write Load Case

Other Comments:

First Incorrect Version:

Release 14.5

Corrected In:

Release 15.0

Suggested User Action For Running on Uncorrected Version:

Before the first SOLVE, enter the undocumented command RSTSUPPRESS,NONE. This will cause the principal stresses to be written to the rst file and avoid the error (principal stresses were removed from the rst file at R14.5).

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