

**ANSYS Workbench Class3****Error Report****ERROR NO:**

WB2014-08

**Keywords:**

MECHANICAL    FORCE REACTION PROBE    CONSTRUCTION SURFACE    CONTOUR  
LEGEND

**Description of Error:**

If a Mechanical model contains shell or plane stress bodies and if a force reaction probe is scoped to a construction surface, then:

1. the legend in the graphics display window can contain incorrect minimum and maximum values for the nodal vector field, and
2. the contour coloration of the vector field can be incorrect.

For this probe, the intended design of the display window is to place a reaction force vector at each node in the scoping. The color of the vector is a function of its magnitude.

However, when the node lies on shell bodies or plane stress bodies, the reaction force contributions from the shell or plane stress elements are incorrectly added twice to the resultant vector. This leads to incorrect MIN/MAX values in the legend and incorrect contour coloration of the vectors in the display window.

**Typical GUI Path(s):**

Solution->Insert->Probe->Force Reaction Location  
Method->Surface

**Other Comments:**

The defect is limited to the display window. The numerical values in the "Details of Force Reaction" are NOT affected by the defect.

Moment reaction probes scoped to construction surfaces are NOT affected since Mechanical does not currently support a vector field / legend display for moments.

**First Incorrect Version:**

Release 14.5

**Corrected In:**

Release 16.0

**Suggested User Action For Running on Uncorrected Version:**

Ignore the legend colors and min/max and rely on the Details of Force Reaction.

**Author Signature:**

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**Reviewed By QA:**

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**Approval:**

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