

FEMAP v11.3.2 New Features and Corrections

Updates and Enhancements

Interfaces - NX Nastran

- FEMAP with NX Nastran bundle now includes NX Nastran 11.0.

Interfaces - Geometry

- Added support for Solid Edge with Synchronous Technology 9.
- Added support for NX 11.0.

Element - Update Existing Elements

- Updated Modify, Update Elements, Line Element Orientation to be able to update the orientation of Spring/Damper Elements, which do not have coincident nodes, using the “Equivalent Vector Orientations” and “Make Perpendicular” options. “Equivalent Vector Orientations” will work when the original orientation was specified using the “CSys”, “Node”, or “From Property” option.

API

- Added feFileReadCSVResults to allow import of comma-separated results files.
- Updated feFileAttachResults to include ability to attach to ABAQUS results files (*.ODB files), comma-separated results files (*.CSV), and FEMAP Neutral Output files (*.FNO).
- Updated feModifyOrient to add ability to specify an orientation vector in the coordinate system specified in the nNodeOrCSysID argument, via method = -1. Also, documented method = 5, which allows you to specify an Orientation Coordinate System, which is only used by Spring/Damper and Spring/Damper to Ground Elements.

Corrections

Views

- Corrected issue which caused view orientation to not be copied correctly when view is copied. (ER 7763623)

Performance Graphics

- Corrected issue which was causing the orientation vector on Spring/Damper elements to not be displayed when the element orientation was specified using an Orientation Coordinate System, either on the element or the referenced property.

GUI - General

- Corrected issue which occurred when you set a Startup View other than the default by using the File, Preferences command, then shutdown FEMAP with the PostProcessing toolbox open and visible on top of any other tabbed panes. In that case, the problem prevented FEMAP from reopening unless some data was manually cleared from the Windows Registry.

GUI - Dockable Panes

PostProcessing Toolbox - Freebody Tool

- Corrected issue which could occur when “Display Mode” is set to “Section Cut” and “Entity Selection Mode” is set to “Plane/Normal”, “Plane/Vector”, or “Vector”, which caused the “Location Slider” to become “zeroed out” when the coordinate system in the Plane or Vector definition dialog box was changed to a different coordinate system.
- Corrected issue which could occur when “Display Mode” is set to “Section Cut” and “Entity Selection Mode” is set to “Plane/Normal”, “Plane/Vector”, or “Vector”, which caused the overall “section cut path” to not be properly recalculated when the coordinate system in the Plane or Vector definition dialog box was changed to a different coordinate system. This could then allow the “Location Slider” to move the “section cut” well beyond the extents of the model for one portion/side, while not being able to reach the extents of a different portion/side.

Interfaces - Nastran

- Corrected issue when reading ACCEL1 entries which use a coordinate system ID (CID).
- Corrected issue caused by the addition of support for results in the BOUGV Data Block which could cause issues when attaching to output files containing certain types of output.
- Corrected issue when writing PBEND entry in wide field format which could cause the second half of a continuation line to not be written.

Interfaces - LS-DYNA

- Corrected issue when reading output files which contained DCOMP != 0 which directs LS-Dyna to not include output in d3plot for Rigid Elements.

Properties

- Corrected issue which occurred when creating a beam property which occurred when the beam section is a general surface with reference point.

Output and Post-Processing

- Corrected issue when using the List, Output, Results To Data Table command. Previously if you used a Results Set Processing Data Surface to create combined Results Sets then attempted to use the List, Output, Results To Data Table command to add output vectors from multiple combined output sets to the Data Table in a single command, the results shown for computed output vectors, such as Von Mises Stress were not correct, but were instead the scaled combinations of the same output vector from the underlying output sets. Now, the values are recomputed from the scaled underlying component output values.
- Corrected issue which could cause the program to become unresponsive when an ABAQUS results file (ODB) was attached, the “Double-Sided Planar Contours” option was enabled, and a “calculated” output vector (for example, von Mises Stress) was selected in the Contour drop-down (PR 7799435)

- Corrected issue which could cause the program to exit unexpectedly when using the “View, Advanced Post, Beam Cross Section” command and an element referencing a Beam or Bar cross-section set to NASTRAN was selected.

Element - Update Existing Elements

- Corrected issue when using Modify, Update Elements, Type command which limited properties available for selection to only properties currently being used by the selected elements, which hindered desired functionality. In addition, made similar correction to Modify, Update Elements, Property ID command which now allows any property in the model to be selected from the screen, then only updates any selected element if property type match individual element’s current type.
- Corrected several issues with Modify, Update Elements, Line Element Orientation which allowed updates of Spring/Damper elements with coincident nodes and Spring/Damper to Ground elements using invalid methods. If an attempt is now made to update these type of elements using an invalid method, these elements will not be updated.
- Corrected issue with Modify, Update Elements, Line Element Orientation which could cause incorrect vector orientations to be defined on line elements when using the Radial method.

API

- Corrected issue which caused feTextPut and feTextMultiPut to be artificially limited to 255 characters. Both calls now allow access to the maximum 511 characters.
- Corrected issue which caused feFileWriteAnsys to always open an Open/Save dialog box to specify a file name, regardless if one had been properly specified in the API call.
- Corrected issue which caused feFileWriteFNO to only be able to access output from a single attached Nastran output (OP2) file.