

Mar 28 2018

FRANC3D 7.1.0.9 version number skipped.

Mar 19 2018

FRANC3D 7.1.0.8 fixes the following:

- 1) add *visco support for ABAQUS
- 2) fix a Win7 compiler issue for 2D residual CFT
- 3) fix issue with add / delete of CFT
- 4) make sure local crack model load steps are consistent with global

Mar 11 2018

FRANC3D 7.1.0.7 fixes the following:

- 1) fix tie constraint and contact separation in local & global model portions
- 2) fix crash when using ANSYS volume meshing
- 3) fix dload op= type string for ABAQUS
- 4) fix ABAQUS odb file crack face tractions
- 5) fix crash in SIFs For All Fronts when analysis results are not present
- 6) fix crack growth when user turns off growth for a crack front
- 7) set better initial guess for nonlinear fretting data fitting
- 8) fix NASGRO4 xml input
- 9) fix documentation file names
- 10) check sign of equivalent K as a function of square root of all three modes
- 11) fix anisotropic toughness GUI entry

Feb 23 2018

FRANC3D 7.1.0.6 fixes the following:

- 1) ANSYS reader modified so load steps are not accidentally deleted from the global portion
- 2) SIF computation parameters no longer cleared when doing Static Analyses
- 3) additional numerical overflow checks in fatigue module
- 4) kink angle set to zero if crack extension is zero
- 5) check for consistent temperature dependent load schedule and growth rate model
- 6) fix GUI for NASGRO temperature dependent data entry

Feb 9 2018

FRANC3D 7.1.0.5 fixes:

- 1) searchTree modified to help identify points on the model surface - fixes some issues with crack growth
- 2) modified ABAQUS .fil and .dtp results reader to process more contact surface data
- 3) fretting module updates: (i) ABAQUS model/results, (ii) contour label set to fretting model,
- 4) and (iii) surface names displayed instead of "master" and "slave"
- 5) temperature dependent NASGRO data entry fixed

- 6) spectrum integration bug fix for multiple spectra
- 7) fatigue schedule load step multiplier read/write fixed

Jan 30 2018

FRANC3D 7.1.0.4 fixes:

- 1) fix crack face traction when using local + global models with no other loads
- 2) for Abaqus "*Include" INP= added; and "ENDSTEP" without space supported
- 3) material id and coordinate system id used to identify regions and boundaries
- 4) set defaults for substep and growth type in Fatigue dialog if unset

Jan 22 2018

FRANC3D 7.1.0.3 fixes:

- 1) a bug in fatigue life computation when using spectrum loading
- 2) allow multiple *ModelChange lines for Abaqus
- 3) allow for nset and elset with and without generate flag for same set for Abaqus
- 4) revised MSWindows startup folder
- 5) add tolerance when checking ends of extrapolated crack front points to make sure they are outside
- 6) add flag to Preferences to control amount of Ansys results output to the .dtp file
- 7) add flag to Preferences to increase button and text size for high resolution displays

Jan 9 2018

FRANC3D 7.1.0.2 fixes:

- 1) bug in the kink angle computation when using fatigue load schedules
- 2) Abaqus "*Boundary, submodel, step=n" data now output correctly
- 3) Registry settings moved to a new location in the User's home folder

Dec 15 2017

FRANC3D 7.1.0.1 fixes:

- 1) Transient load schedules can be defined with one load step with multiple substeps
- 2) Abaqus results output frequency is enabled in Preferences
- 3) Abaqus absolute exterior tolerance supported for *submodel command
- 4) Ansys variable surface pressure mapping is fixed
- 5) Crack growth & merging made more robust