SHELL 19.1

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Oasys

LS-DYNA Panel Reorganisation

LS-DYNA Panel Reorganisation

- The LS-DYNA Submission panel has been re-organised to account for new and future submission options.

- It is now organised in a 'tabbed' format, with additional options accessed through these tabs instead of individual buttons within main submission window.

- Frequently used LS-DYNA job submission options are kept in "Submission" tab.

Submission option tabs
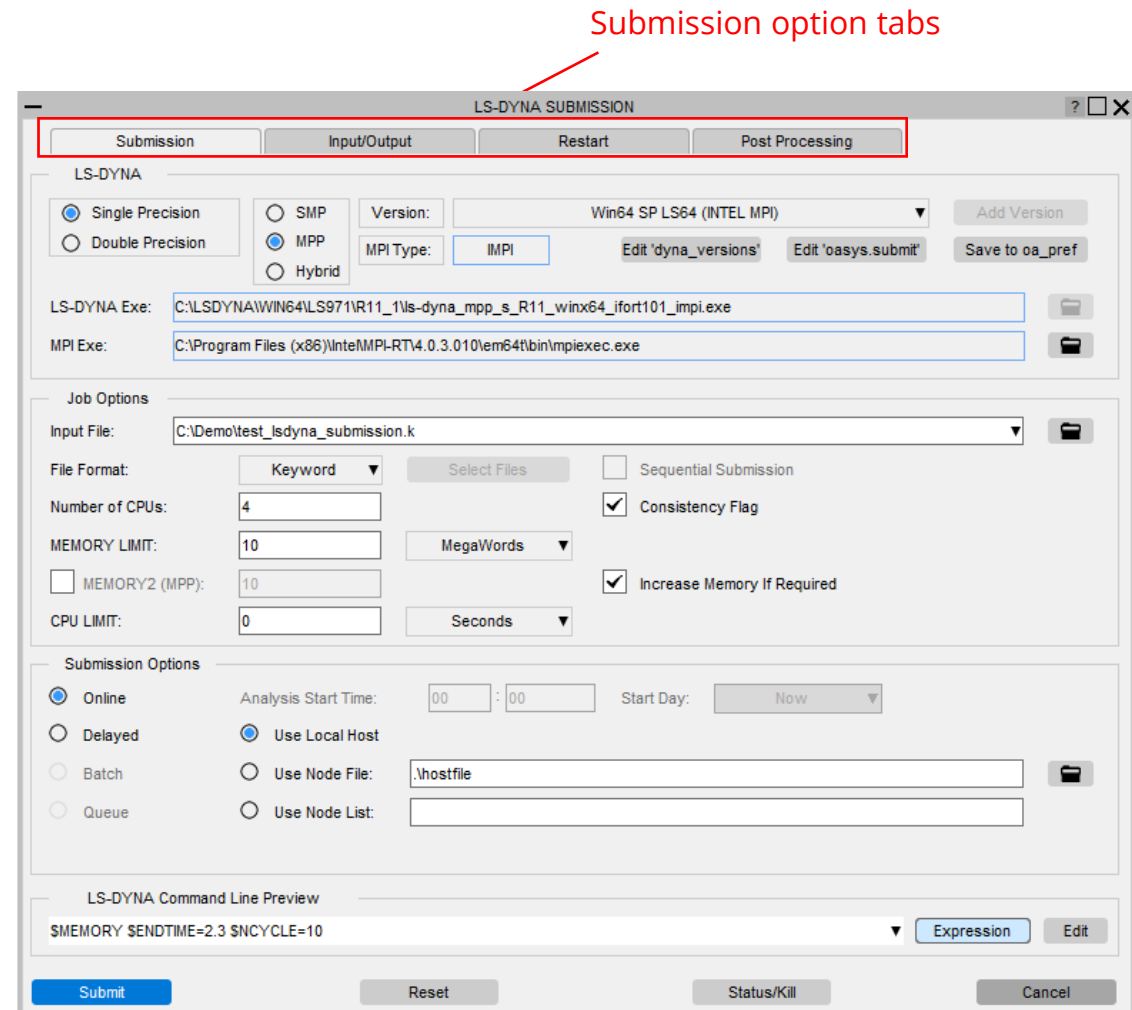
Tabs in LS-DYNA Submission Panel

- Input or Output files related options are
  kept in the "Input/Output" tab.
  (Previously these were accessed via the
  button "Optional files")
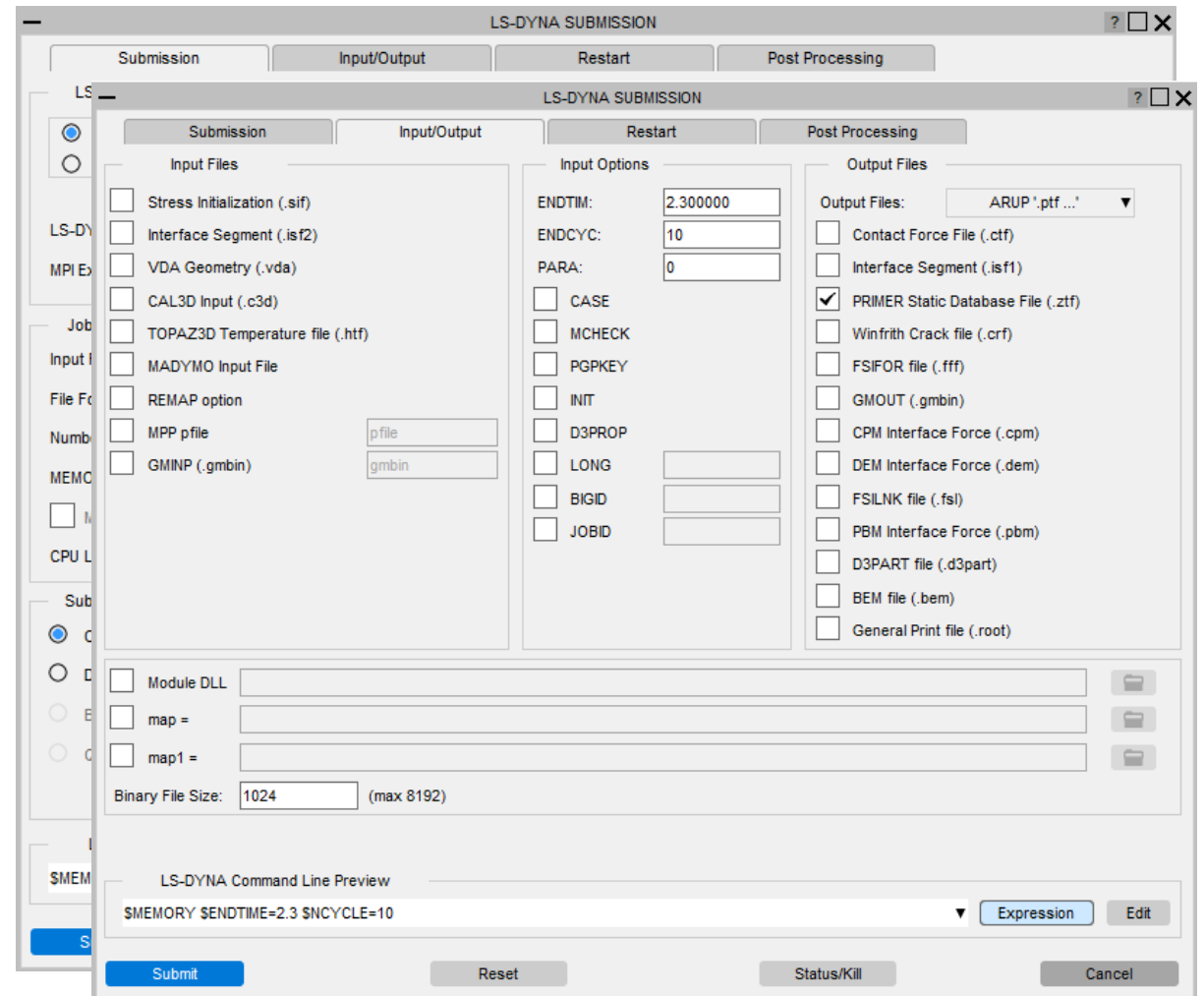
Tabs in LS-DYNA Submission Panel

- Restart options and Post-processing related options are now kept in respective tab panels.
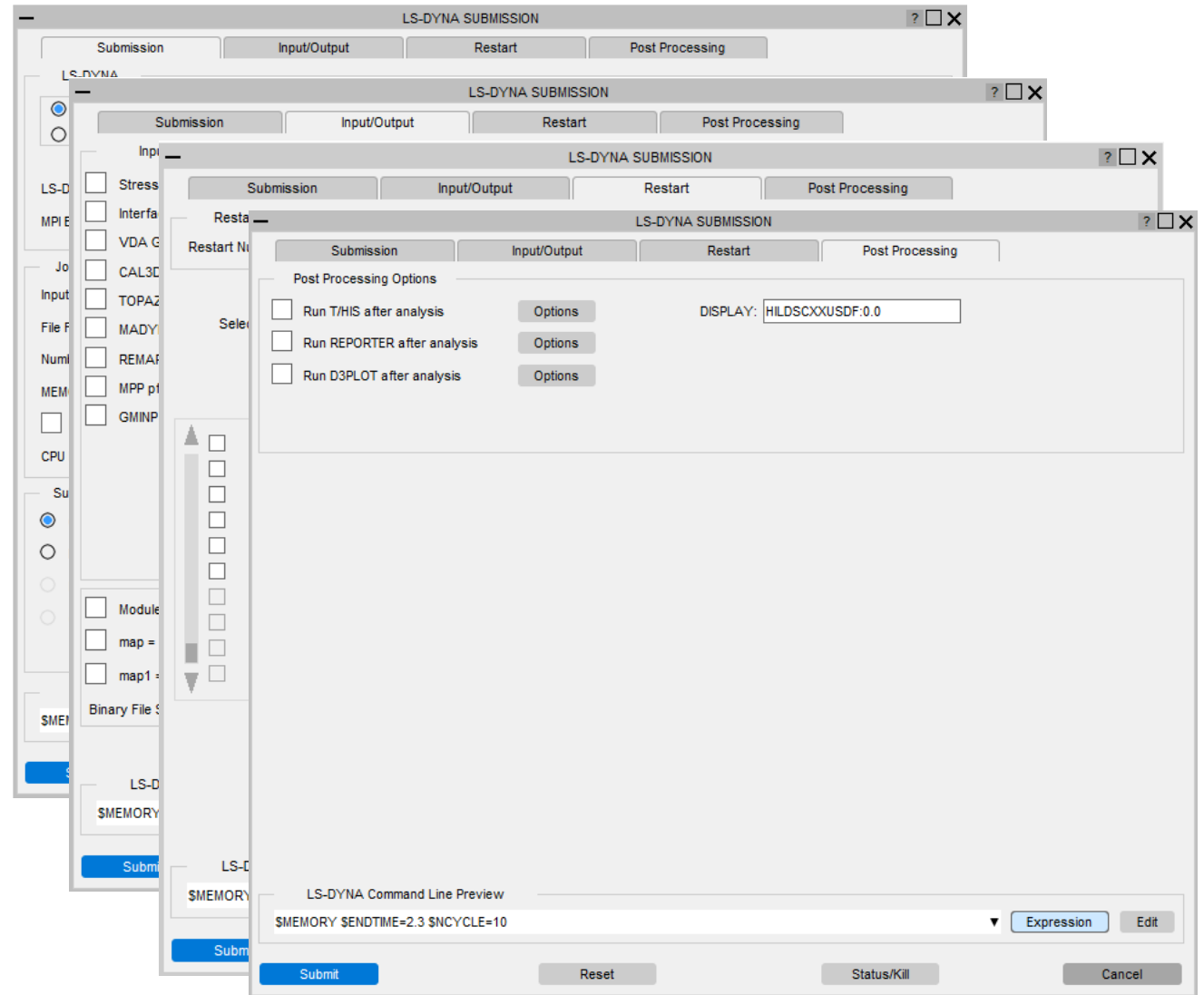
# Option to specify MPI Executable

Option to specify MPI Executable

- The user can now specify the path to the MPI executable in the "Submission Tab" .

View/Edit the SHELL system files

View/Edit the SHELL system files

- The users can now view/edit the following SHELL system files from within the SHELL:
  - **dyna_versions** : Located in the <OA_INSTALL> area, the file lists the paths to the LS-DYNA executables along with their types. The file is used to create the "**Versions**" menu.
  - **oasys.submit**: Located in the <OA_INSTALL> area, this is a user-configurable to setup and include commands run the LS-DYNA jobs.
  - **oasys_queue**: Located in the <OA_INSTALL> area, this file lists alternative batch queues and queue directives.
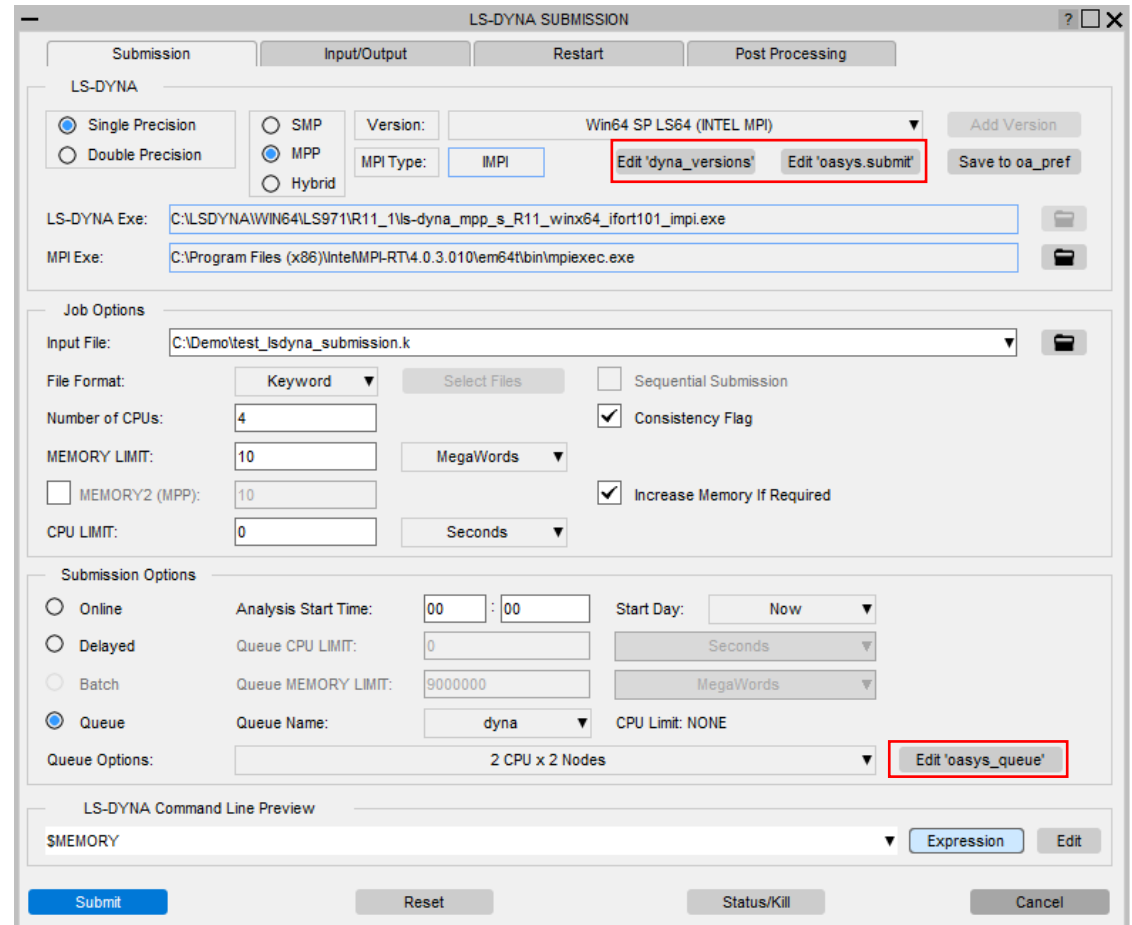
Preferences to set default LS-DYNA Executable

Preferences to set default LS-DYNA Executable

- In the Submission tab, the LS-DYNA executable type (code/precision), MPI executable type and path values for the LS-DYNA and MPI executables can be set as a default into the HOME preference file by pressing the **'Save to oa_pref**' button

- This sets up the "Default" LS-DYNA executable related preferences for the SHELL.
  - The "default" LS-DYNA entry is given the tag **<DEFAULT>** in the Versions menu list.

- The "**default_ls_dyna_executable**" preference assigns the given LS-DYNA executable path for a given values of the LS-DYNA type related preferences.
  - "**default_code_type**": Values are SMP/MPP/HYBRID
  - "**default_precision**": Values are Single/Double
  - "**default_mpi_type**"

- The default MPI executable can be given via the "**default_mpi_executable**" SHELL preference.

LS-DYNA Command Line Preview

LS-DYNA Command Line Preview

- New LS-DYNA command-line preview has been added in the LS-DYNA submission panel so the user can view and modify LS-DYNA command line inputs.

- The preview can be switched between command-line "Expression" or "Detailed" preview .

- The SHELL also saves the command-line expressions values from the previously completed LS-DYNA submissions.
    - This is for an easy and quick re-submission to LS-DYNA and can be picked up using the **'Recent command-line expressions**' popup menu.

- The LS-DYNA command line can be edited using a text-editor.
    - Job would be submitted using exactly the same command-line input by the user in the editor .

- The text editor can be chosen using the SHELL preference (default for Windows is MS Wordpad):
    - **shell*text_editor**: "C:\Program Files\Windows\NT\Accessories\wordpad.exe"

'Expression' preview

Switches between the "Expression" and the "Detailed preview"

Edit launches text editor

Recent command-line expressions list

'Detailed' preview
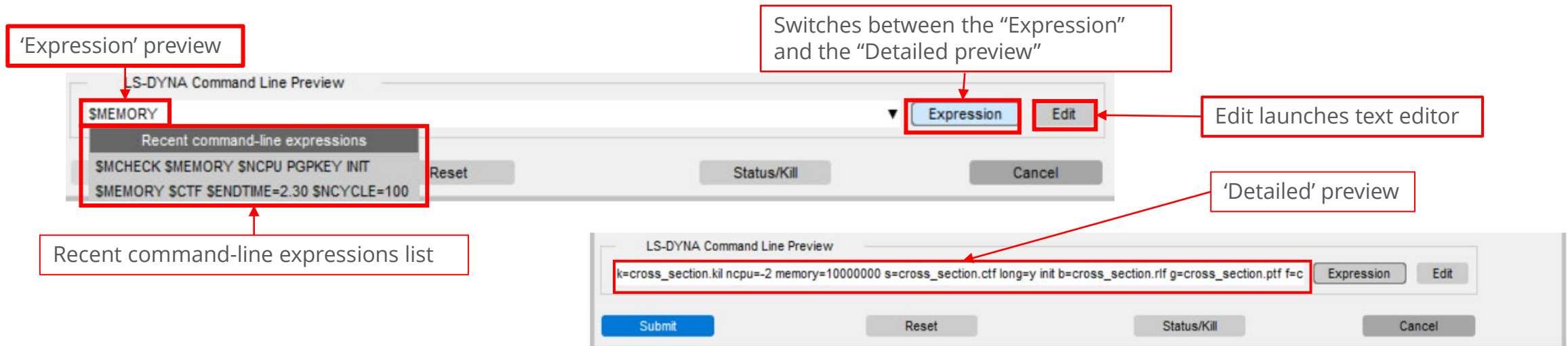
D3PLOT Options

D3PLOT Options

- Renamed the "3D Viewer Export" option to more appropriate "D3PLOT Viewer"

- Added a new option to output uncompressed D3PLOT Viewer files.

  - The uncompressed files are 5-10 times larger in size than their compressed files.

  - The uncompressed files are compatible with Microsoft PowerPoint and other 3D viewers.
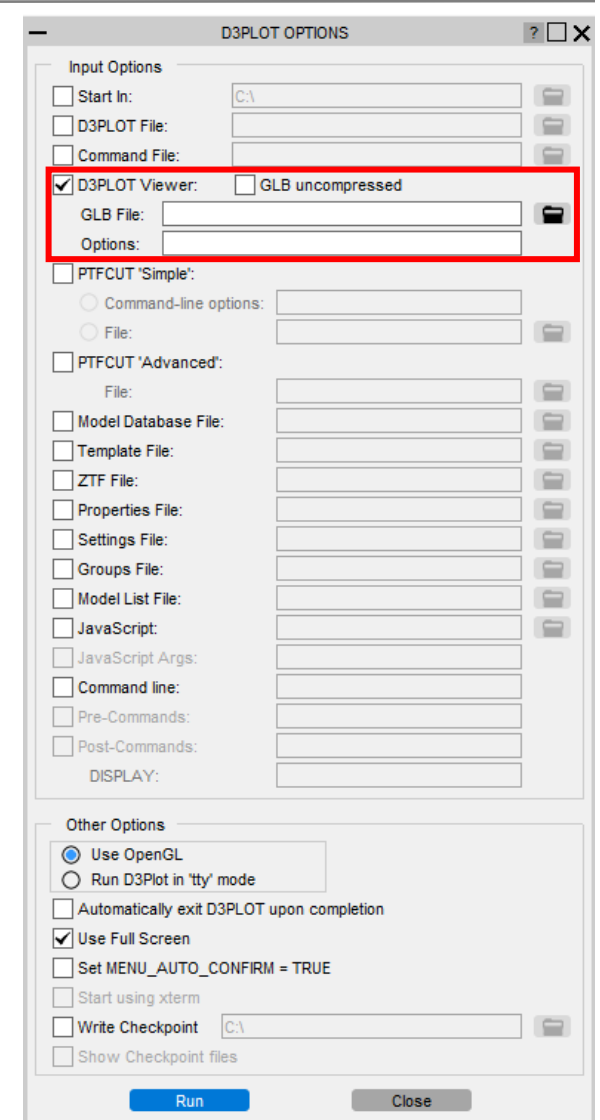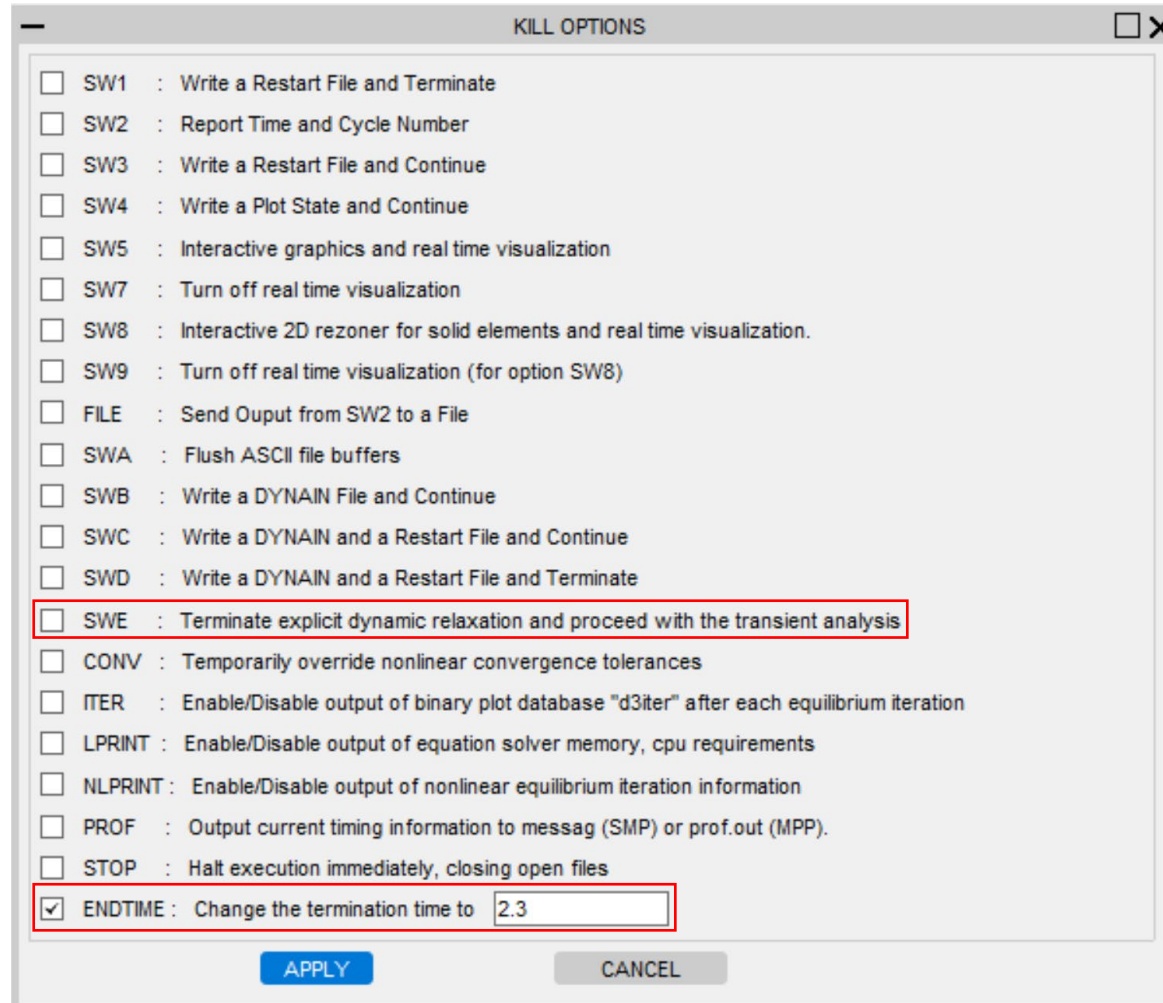
Help text for widgets

Help text for widgets

- Added hover text bubbles to all the widgets (buttons or labels) in all the panels in the SHELL, explaining the significance of those widgets.

New Sense Controls in SHELL for LS-DYNA R13

# New Sense Controls in SHELL for LS-DYNA R13

- SHELL V19 now supports the two new sense controls for LS-DYNA R13

SHELL 19.1 Updates

SHELL 19.1 Updates

- Added Help buttons to top right corner of all the SHELL panels, to launch appropriate manual pages.

- Updated the exiting option for GMBIN (.gmbin) in input files section of Input/Output tab to allow users to specify the filename.
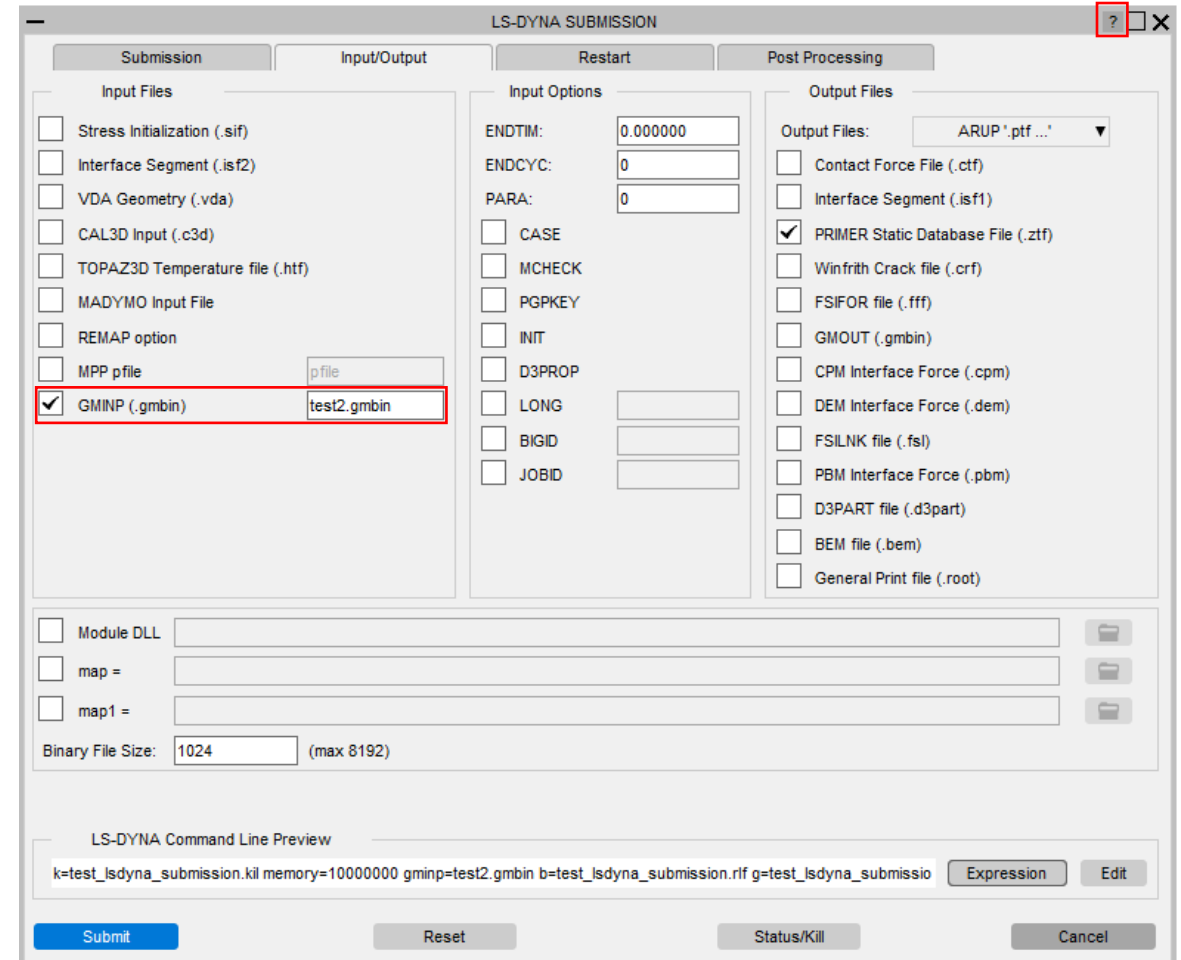
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