Keyword Editor

What is the keyword editor?

- There are many places in PRIMER where an explicit create/edit panel is not necessary, and a generic “keyword editor” will suffice.

- The keyword editor has the additional advantage that it lists all items of a particular type, allowing, multiple edits to be carried out with a single command.

- The keyword editor is invoked by the “Keyword” tab from the standard options available once a selection has been made from the keywords panel.

Terminology

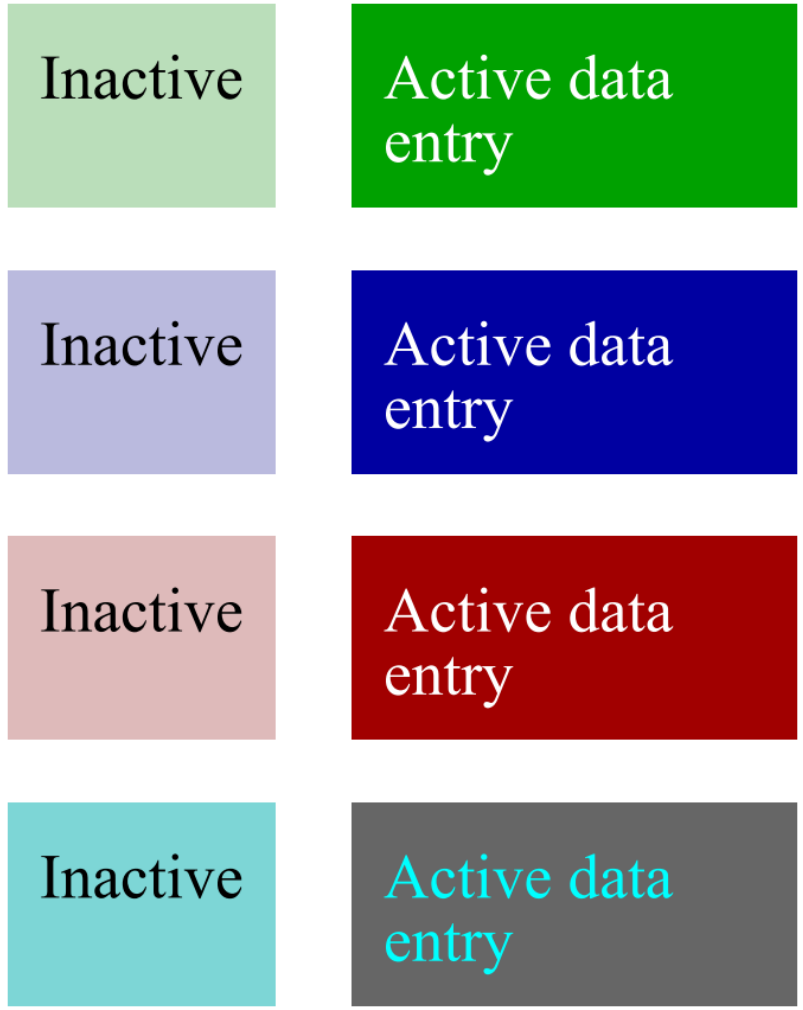
- The Acronym row – one or more rows of headers showing the acronyms for each field.
  - Hovering the mouse over a button will give more information about the data.
  - Clicking on a button other than options will sort the data by that column.

- The Entry row – one or more rows on a green background to enter new data.
  - This row will be initially blank, you must type or select data to populate it and then press create to store it in the database.

- The Data row – rows of existing data on a blue background.
  - Entries in this field can be edited by over-typing them or by selecting new values from the popup selection menus.
  - Multiple rows may be edited simultaneously by selecting the rows and then changing the required data field on any row to propagate its change to all other selected rows.

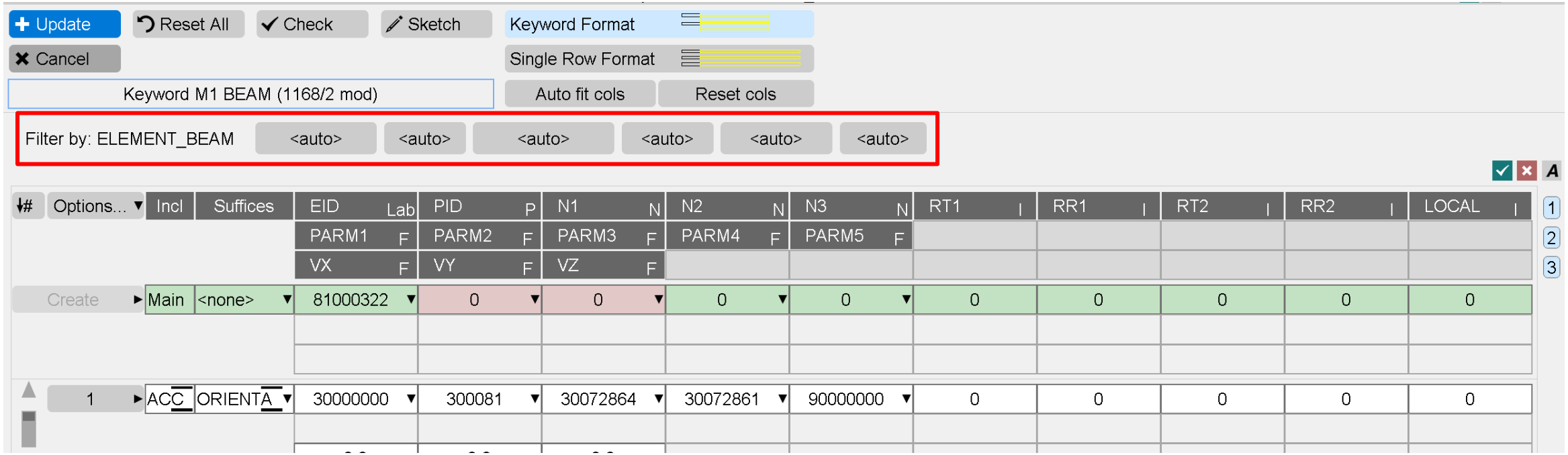
Use of button background colours

- Green is used on the Entry row to denote data fields that are grammatically correct in their current state.
- Blue is used on Data rows to denote data fields that are grammatically correct in their current state.
- Red is used on all rows to denote a field that is either invalid, or empty and requires population with data.
- Cyan is used on all rows to denote references to latent (referenced but undefined) items.



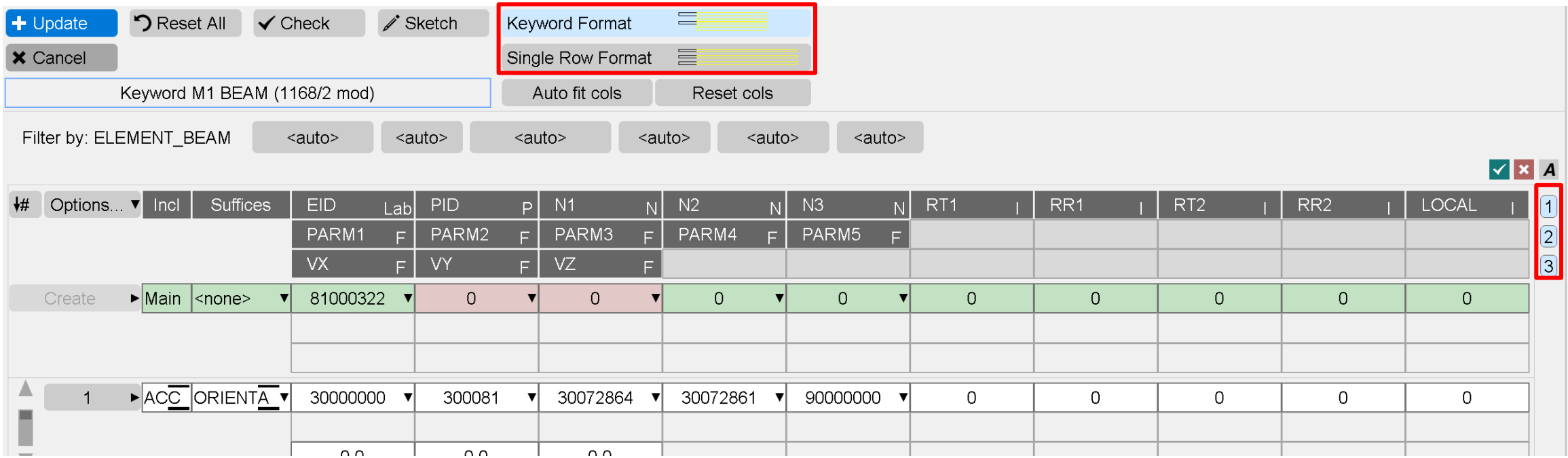
Filter by: (Controlling what is shown in the panel)

- Each keyword has a certain number of suffices associated with each one, and these suffices can be used to filter the keyword editor by that specific suffix.
- To control what is shown the user should just click on the “<auto>” buttons and this will display a list of suffices that the editor can be sorted by.
- This feature is useful when you have many lines in the keyword editor and need to filter the results to look for a specific set of entities.



Functions from the panel

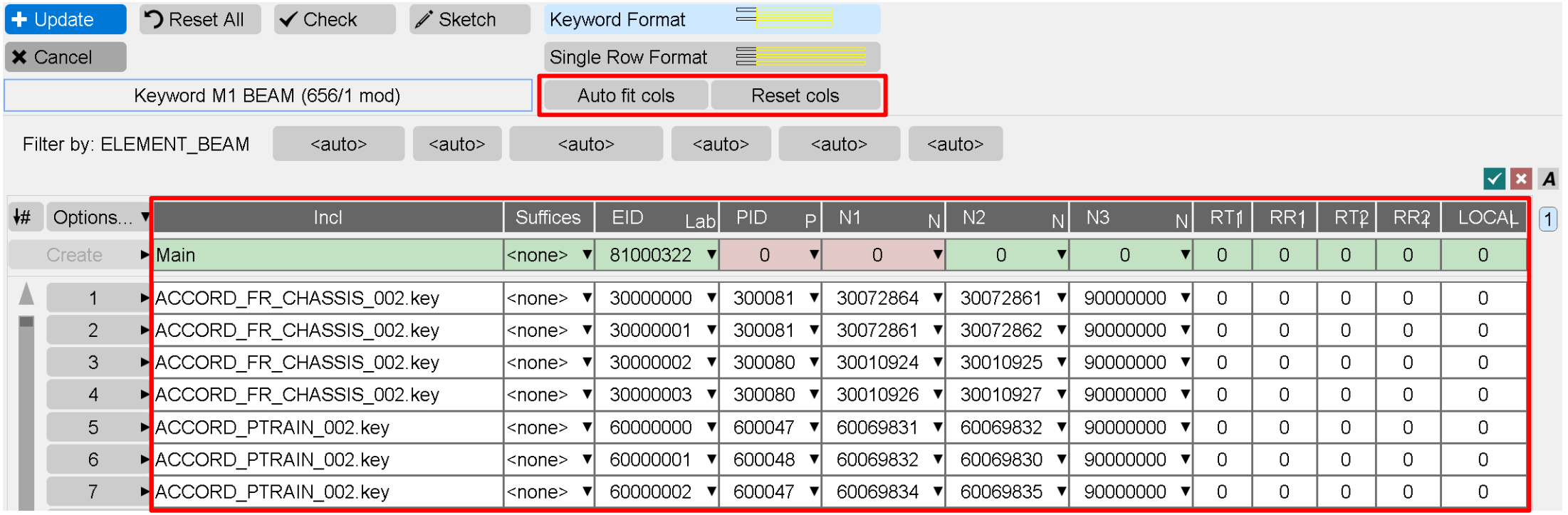
- **Keyword format** – this is the default that mimics the LS-DYNA keyword row and column layout, this layout is shown below.
- **Single row layout** – this is the alternative which condenses each item onto a single line by concatenating the rows.
- **Buttons to right of panel (“1/2/3”)** – these buttons are used to turn on/off the display of each acronym row, this can help to reduce the amount of blank space if whole rows are completely empty.



Functions from the panel

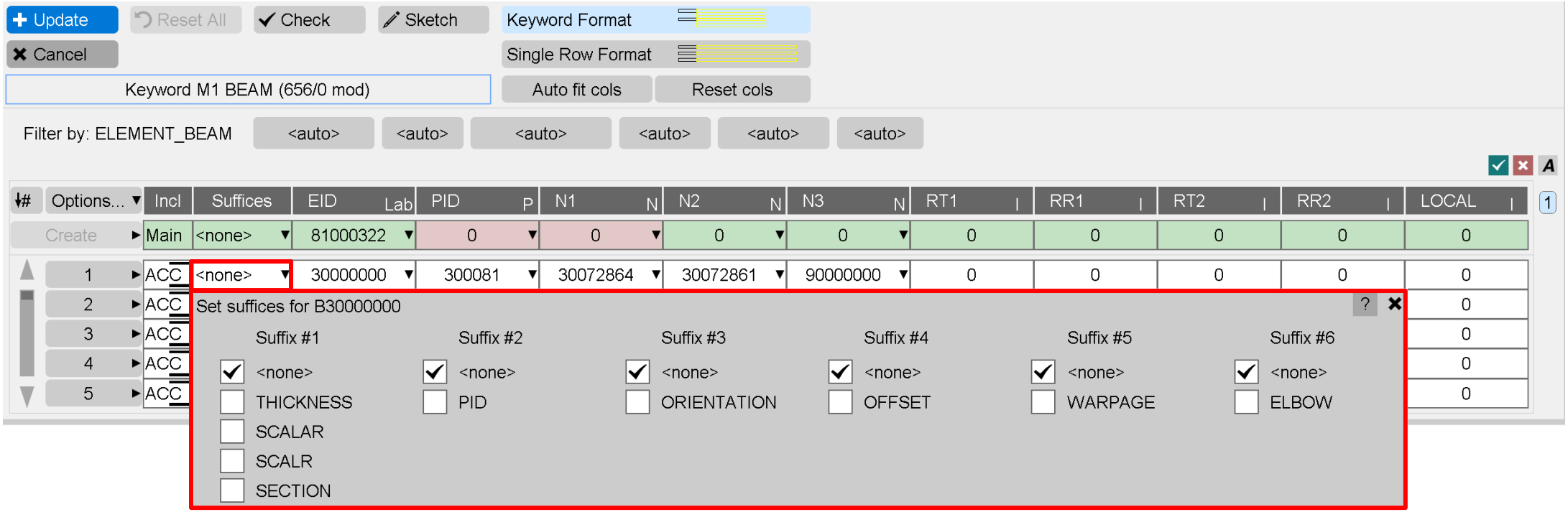
- **Auto fit cols** – this is used to resize all the column widths to fit their longest entry.

- **Reset cols** – this is used to reset all the columns resizing and return them to their default widths.



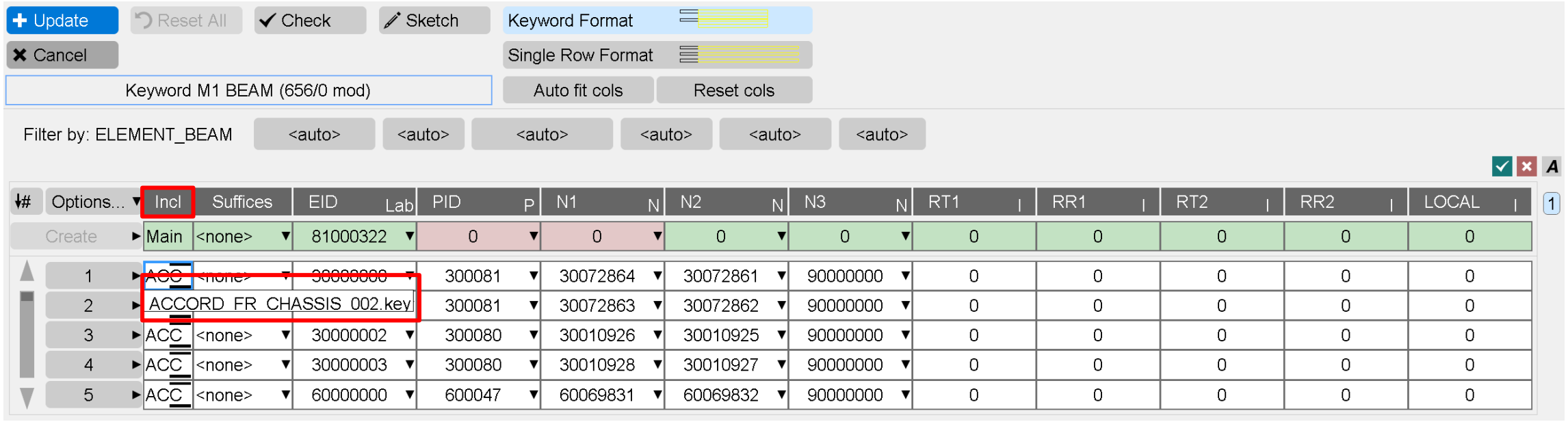
Functions from the panel

- To change one or more keyword suffices right click on the field in the Suffix column and choose the revised suffices.



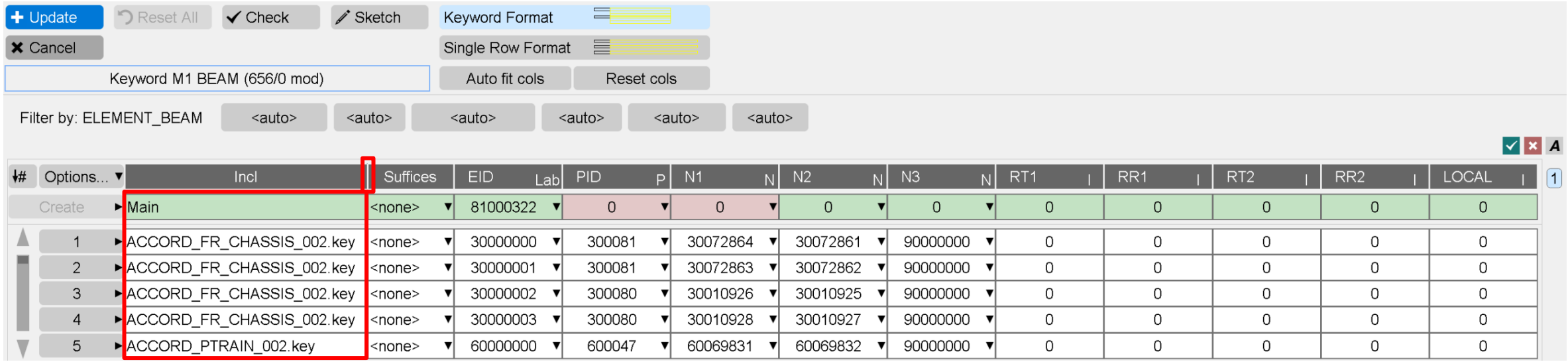
Changing the Include file of a Data row definition

- If include files are present in the model then an extra **Incl** column will be shown, and the name of each entry's include file will be listed.
- This is truncated below to a narrow column width to save space, but if you hover the mouse over an entry the full include file details will be given.



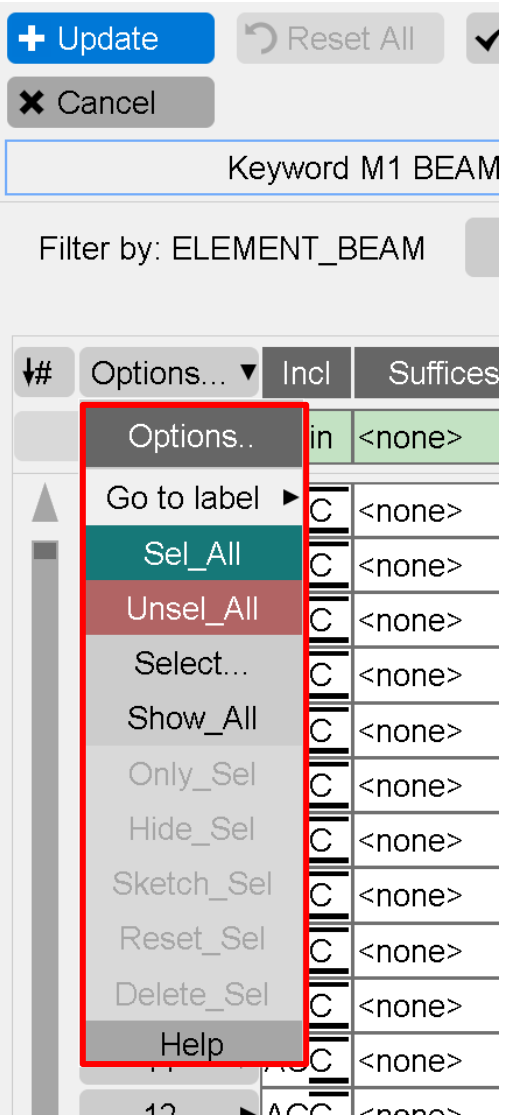
Dragging columns to make them wider

- Columns can be dragged to resize by clicking and dragging the right edge of the respective column's header field.
- Individual columns can also be resized to fit the longest entry by double clicking on the right edge of that column's header field.



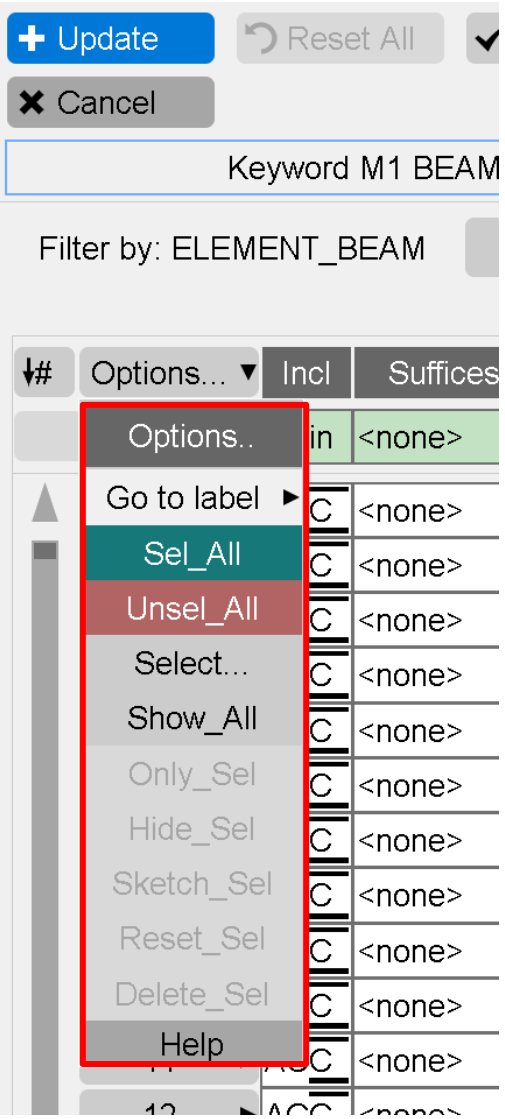
Options pop up menu

- **Sel_All** – Selects all rows.
- **Unsel_All** – Deselects all rows.
- **Select…** – Maps the standard PRIMER object menu allowing you to select items in the normal way.
- **Show_All** – Shows all data rows. Needed if only subset has been displayed using the options below.
- **Only_Sel** – Shows only those Data rows which have been selected. This can be useful if you have selected a small and diverse subset of a large number of items.



Options pop up menu

- **Hide_Sel** – The opposite of the above: shows only those Data rows which have not been selected.
- **Sketch_Sel** – Sketches the currently selected Data rows on the current model.
- **Reset_Sel** – Performs a reset of all selected Data rows, restoring them to their original unedited state.
- **Delete_Sel** – Deletes the selected Data rows, going through the same selection and confirmation procedures as deleting a single row.



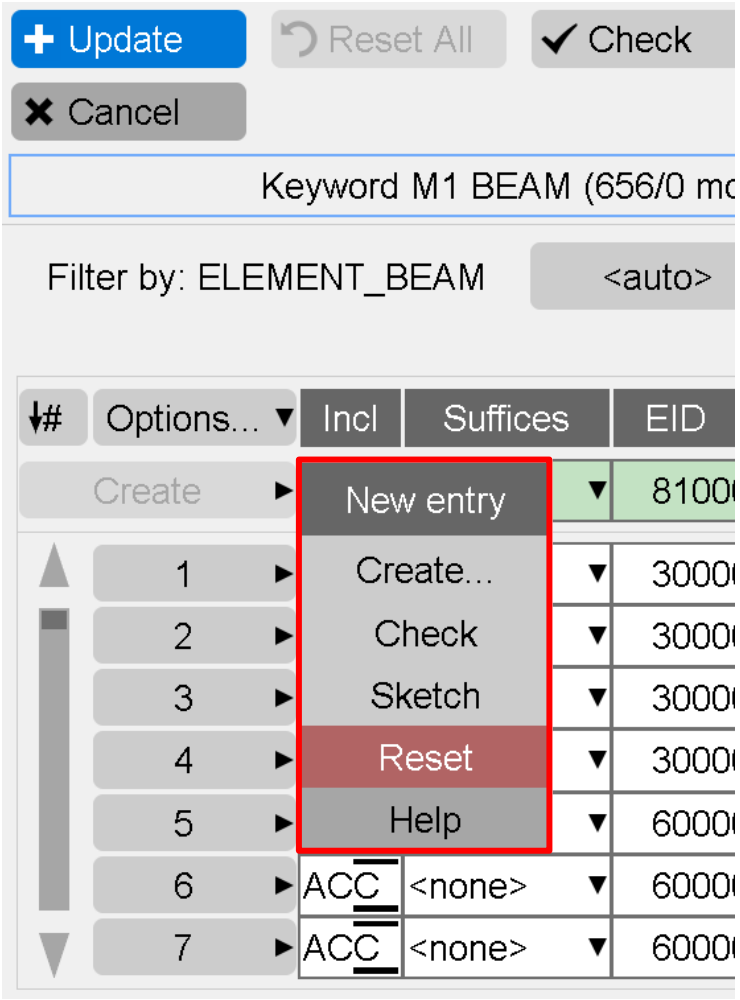
Create Button

Create Button Colours:

- **Greyed out** – this means that the row fails the “grammatical check and the entry cannot be created. One or more of the data fields will be red and must be corrected.

- **Red** - this means the row passes the “grammatical check” but that the standard “Check” function has found one or more errors. The entry can still be created, but you will be warned about the errors and may have to correct them later.

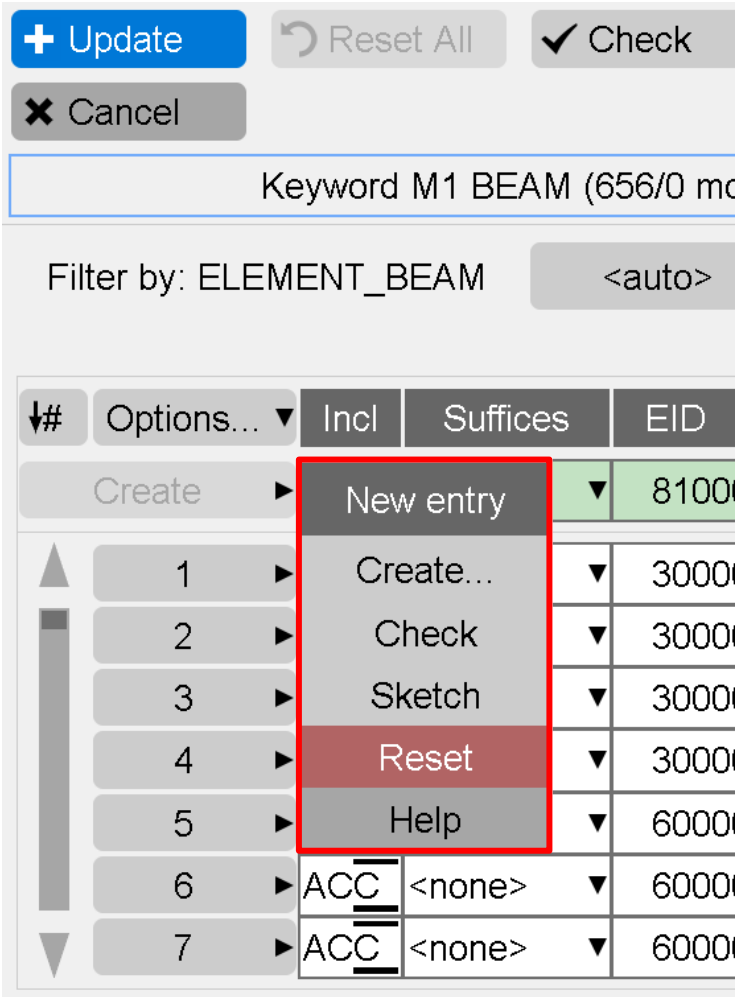
- **Green** – the row passes both grammar and contents check, and can be created with no error or warning messages.



Create Button

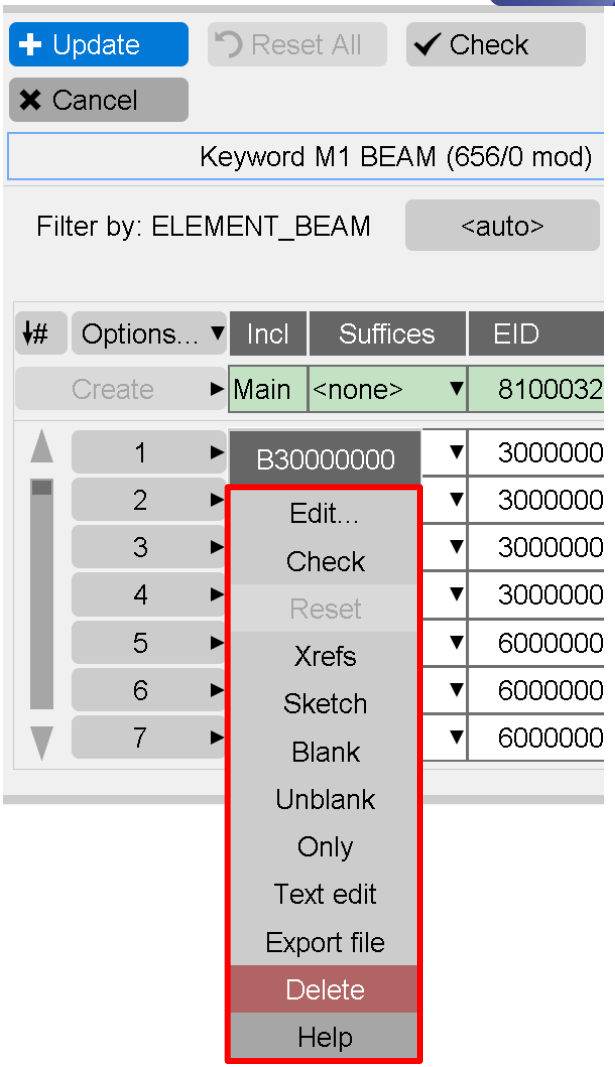
Popup Menu Options:

- **Create** – Maps the standard Create/edit panel for this item. When you exit from this the saved definition will be used to populate the Entry row. (This option will be greyed out if a create/edit function has not been written for the current data type).
- **Check** – Runs the standard check function on this definition and reports any errors.
- **Sketch** – Sketches the definition in its current form on the model.
- **Reset** – Resets the Entry row to its default (empty) state.



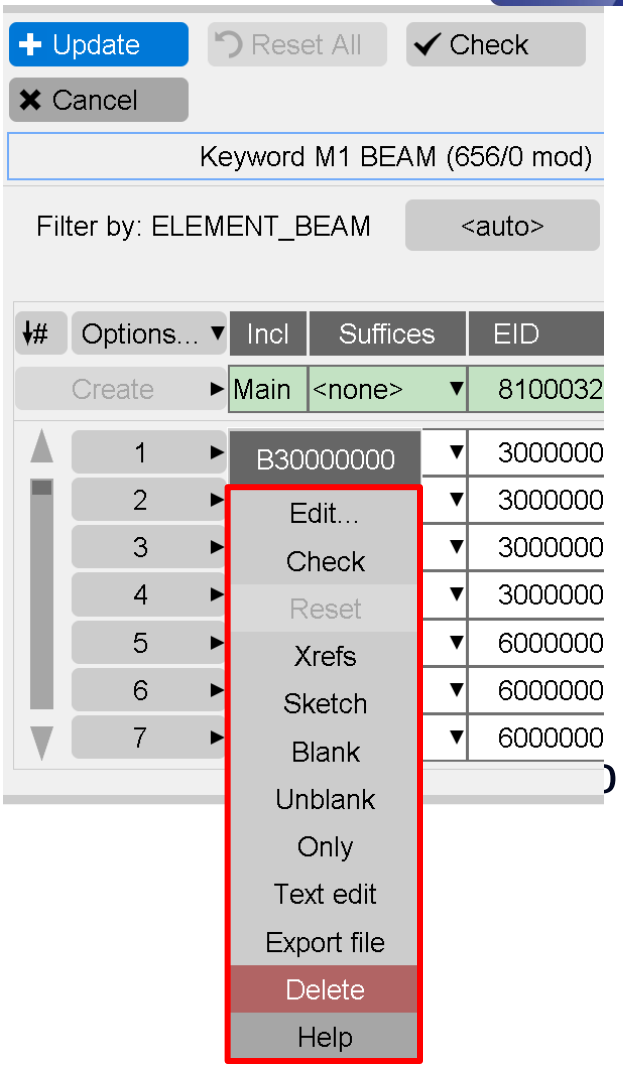
Data row index pop up options

- **Edit** – Maps the standard Create/Update panel for the current definition. When the edits are saved the Data row will be updated.
- **Check** – Runs the standard check function on this Data row.
- **Reset** – Resets this Data row back to its original condition (before any edits, not just the most recent one)
- **Xrefs** – Maps the standard cross-reference viewer panel for this item.
- **Sketch** – Sketches this item on the current model.
- **Blank** – Blanks this item from the current display.



Data row index pop up options

- **Unblank** – Unblanks this item in the current display.
- **Only** – Makes this the only item visible in the current display.
- **Text edit** – Different Slide
- **Export file** – Different Slide
- **Delete** – Using delete will map a cut-down deletion confirmation menu for Delete Items the standard PRIMER deletion confirmation dialogue will be deleted.

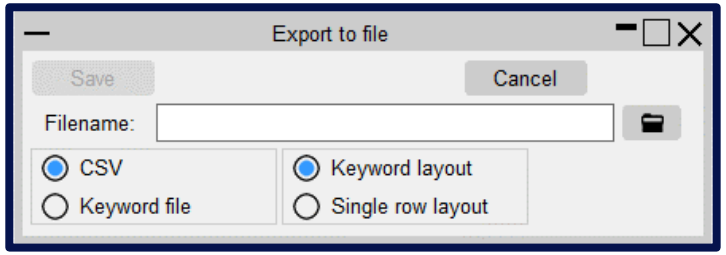


Text Edit and Export File Options

PRIMER

Text Edit:

- The external text editor works in exactly the same way as for scalar editing panels in that it performs “mini keyword output” operation to write a keyword file containing data for the selected row(s), and then performs a “mini keyword input” to read the file back in again and update the model.
- Text edit also supports the ability to update multiple keyword at the same time, by reading in all definitions found in the edited file that match the current keyword type.

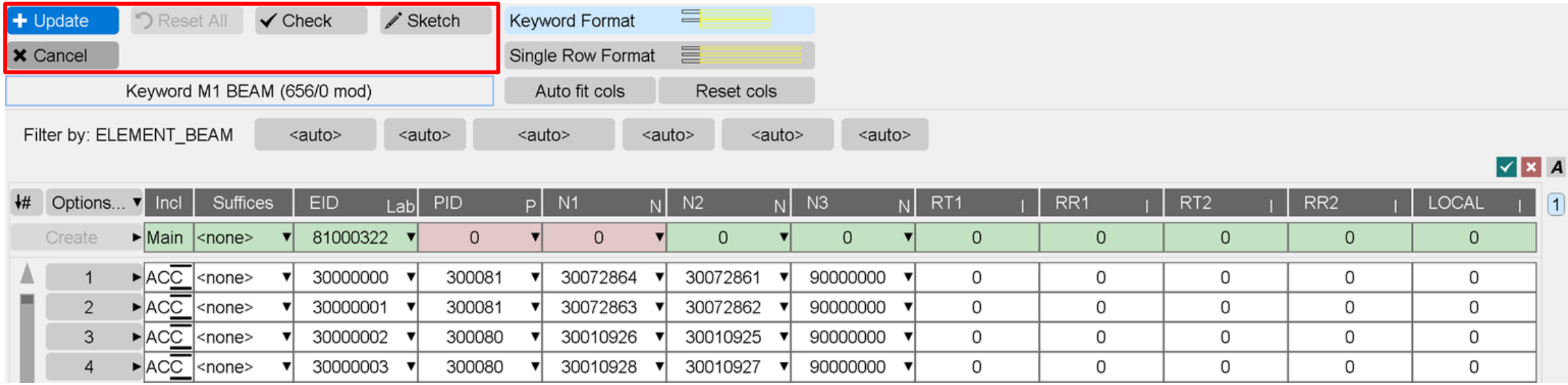


Export File:

- The button “Export file” will open a menu to select a file which the data is written to in either CSV format or keyword format.
- In the CSV mode you can select the layout of how the data is written. This is similar to the layout of the main editor:
  - In the keyword layout line breaks are written in the same way as in the keyword files.
  - When in single row layout, every keyword definition is written on just one line.

Saving and discarding changes

- **CANCEL** – Undoes all edits, and exits the editor leaving all original definitions unchanged.
- **UPDATE** – Exits the editor making all changes permanent.
- **RESET_ALL** – Undoes all edits (equivalent to a reset on every modified Data row), returning all rows to their original state.
- **CHECK** – Runs the standard checking function on the selected Data rows and reports the results.
- **SKETCH** – Sketches all the selected Data rows on the current model.

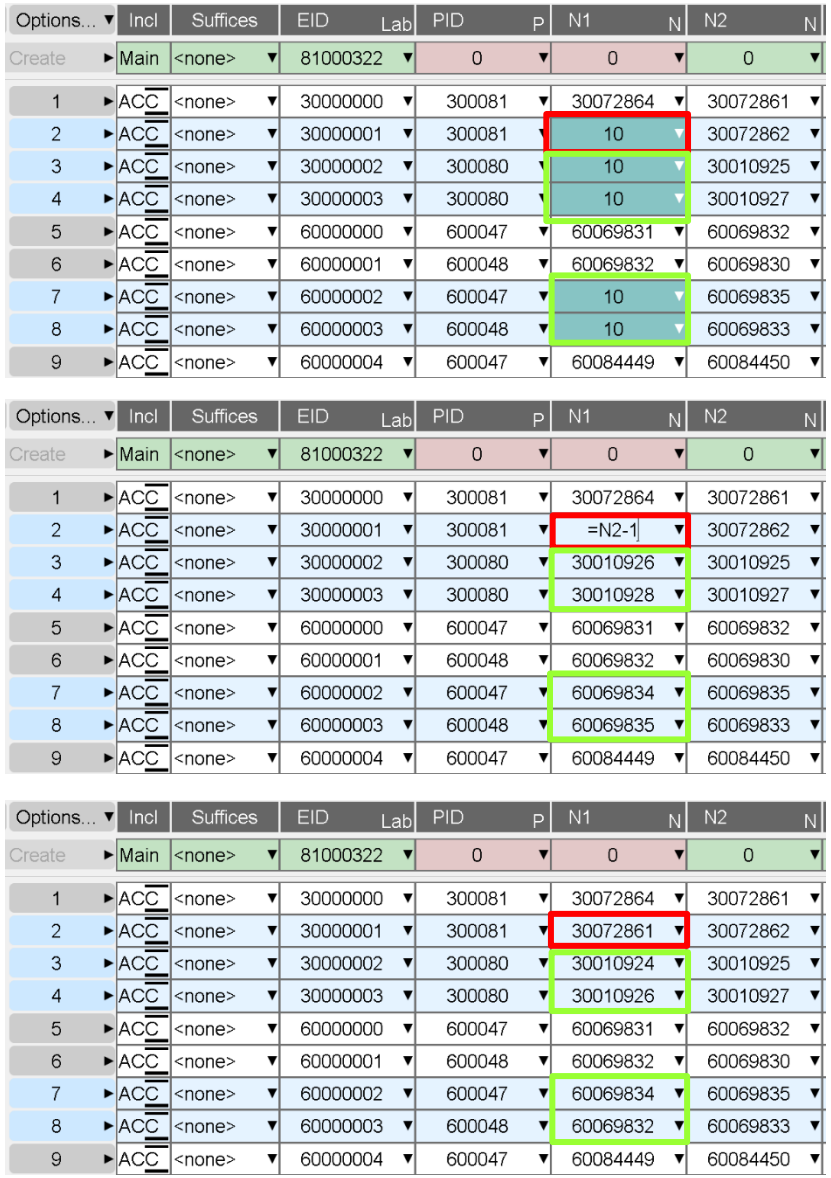


Editing entries on multiple rows

- When multiple rows have been selected then editing any field on any selected row will result in the same field on all other selected rows, if compatible, being changed to the same value.

- For example taking the image on the right, if field N1 on row 2 is changed to 10 (ie node 10), then N1 on rows 3, 4, 7 and 8 will also be changed.

- Instead of typing in a value, a formula could also be entered. It would be evaluated for all the rows that have been selected. For example, if the formula '=N2-1' is typed into the N1 field for any of the selected rows, it is automatically updated in all the other selected rows.



Options...	Incl	Suffices	EID Lab	PID P	N1 N	N2 N
Create	Main	<none>	81000322	0	0	0
1	ACC	<none>	30000000	300081	30072864	30072861
2	ACC	<none>	30000001	300081	10	30072862
3	ACC	<none>	30000002	300080	10	30010925
4	ACC	<none>	30000003	300080	10	30010927
5	ACC	<none>	60000000	600047	60069831	60069832
6	ACC	<none>	60000001	600048	60069832	60069830
7	ACC	<none>	60000002	600047	10	60069835
8	ACC	<none>	60000003	600048	10	60069833
9	ACC	<none>	60000004	600047	60084449	60084450

Options...	Incl	Suffices	EID Lab	PID P	N1 N	N2 N
Create	Main	<none>	81000322	0	0	0
1	ACC	<none>	30000000	300081	30072864	30072861
2	ACC	<none>	30000001	300081	=N2-1	30072862
3	ACC	<none>	30000002	300080	30010926	30010925
4	ACC	<none>	30000003	300080	30010928	30010927
5	ACC	<none>	60000000	600047	60069831	60069832
6	ACC	<none>	60000001	600048	60069832	60069830
7	ACC	<none>	60000002	600047	60069834	60069835
8	ACC	<none>	60000003	600048	60069835	60069833
9	ACC	<none>	60000004	600047	60084449	60084450

Options...	Incl	Suffices	EID Lab	PID P	N1 N	N2 N
Create	Main	<none>	81000322	0	0	0
1	ACC	<none>	30000000	300081	30072864	30072861
2	ACC	<none>	30000001	300081	30072861	30072862
3	ACC	<none>	30000002	300080	30010924	30010925
4	ACC	<none>	30000003	300080	30010926	30010927
5	ACC	<none>	60000000	600047	60069831	60069832
6	ACC	<none>	60000001	600048	60069832	60069830
7	ACC	<none>	60000002	600047	60069834	60069835
8	ACC	<none>	60000003	600048	60069832	60069833
9	ACC	<none>	60000004	600047	60084449	60084450

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