

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.

#	Options...	Suffices	EID	La	PID	P	N1	N	N2	N	N3	N	RT1	I
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- 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.

Create	<none>	82530013	0	0	0	0	0
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- 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.

1	ORIENTA	1000001	10197	1000932	1000419	0	0
2	ORIENTA	1000002	10197	1000932	1000403	0	0
3	ORIENTA	1000003	10197	1000932	1000440	0	0

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.

Inactive

Active data
entry

Inactive

Active data
entry

Inactive

Active data
entry

Inactive

Active data
entry

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.

The screenshot shows a software interface with a toolbar at the top containing buttons for CANCEL, UPDATE, RESET_ALL, CHECK_ALL, HELP, and SKETCH_ALL. Below the toolbar is a text field containing "Keyword M1 BEAM (62400/0 mod)". A red box highlights a "Filter by:" section with the text "ELEMENT_BEAM" and six "<auto>" buttons. Below this is a table with columns for #, Options..., Suffices, EID, La, PID, P, N1, N, N2, N, N3, N, RT1, RR1, RT2, RR2, LOCAL, and a row index column. The table contains several rows of data, including one with EID 82530013 and another with EID 1000001.

#	Options...	Suffices	EID	La	PID	P	N1	N	N2	N	N3	N	RT1	RR1	RT2	RR2	LOCAL	
			PARM1	F	PARM2	F	PARM3	F	PARM4	F	PARM5	F						1
			VX	F	VY	F	VZ	F										2
																		3
	Create	<none>	82530013		0		0		0		0		0	0	0	0	0	
1	ORIENTA		1000001		10197		1000932		1000419		0		0	0	0	0	0	
			1.0039505		-0.9931035		1.0029103											

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.

The screenshot shows a software interface with a table of data. The table has columns for EID, La, PID, P, N1, N, N2, N, N3, N, RT1, RR1, RT2, RR2, LOCAL, and a row index column. The row index column has buttons 1, 2, and 3. A red box highlights the 'Key-word format' and 'Single row layout' options in the top right corner.

#	Options...	Suffices	EID	La	PID	P	N1	N	N2	N	N3	N	RT1	RR1	RT2	RR2	LOCAL	1
			PARM1	F	PARM2	F	PARM3	F	PARM4	F	PARM5	F						2
			VX	F	VY	F	VZ	F										3
Create	>	<none>	82530013		0		0		0		0		0	0	0	0	0	
1	>	ORIENTA	1000001		10197		1000932		1000419		0		0	0	0	0	0	
			1.0039505		-0.9931035		1.0029103											

Changing the Suffix of a Data row definition

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

The screenshot shows a software interface with a table of data rows. The table has columns for #, Options, Suffixes, EID, La, PID, P, N1, N2, N3, RT1, RR1, RT2, RR2, and LOCAL. A dialog box titled "Set suffixes for B2002001" is open, showing six suffixes (Suffix #1 to #6) with checkboxes for various options: THICKNESS, SCALAR, SECTION, PID, ORIENTATION, OFFSET, WARPAGE, and ELBOW. The "Suffix #1" field is highlighted with a red box.

#	Options...	Suffixes	EID	La	PID	P	N1	N2	N3	RT1	RR1	RT2	RR2	LOCAL
Create		<none>	2010000		0		0	0	0	0	0	0	0	0
1		<none>	2002001		2000001		2362482	2362483	2000000	0	0	0	0	2
2														2
3														2
4														2
5														2

Set suffixes for B2002001

Suffix #1	Suffix #2	Suffix #3	Suffix #4	Suffix #5	Suffix #6
<input checked="" type="checkbox"/> <none>					
<input type="checkbox"/> THICKNESS	<input type="checkbox"/> PID	<input type="checkbox"/> ORIENTATION	<input type="checkbox"/> OFFSET	<input type="checkbox"/> WARPAGE	<input type="checkbox"/> ELBOW
<input type="checkbox"/> SCALAR					
<input type="checkbox"/> SCALR					
<input type="checkbox"/> SECTION					

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.

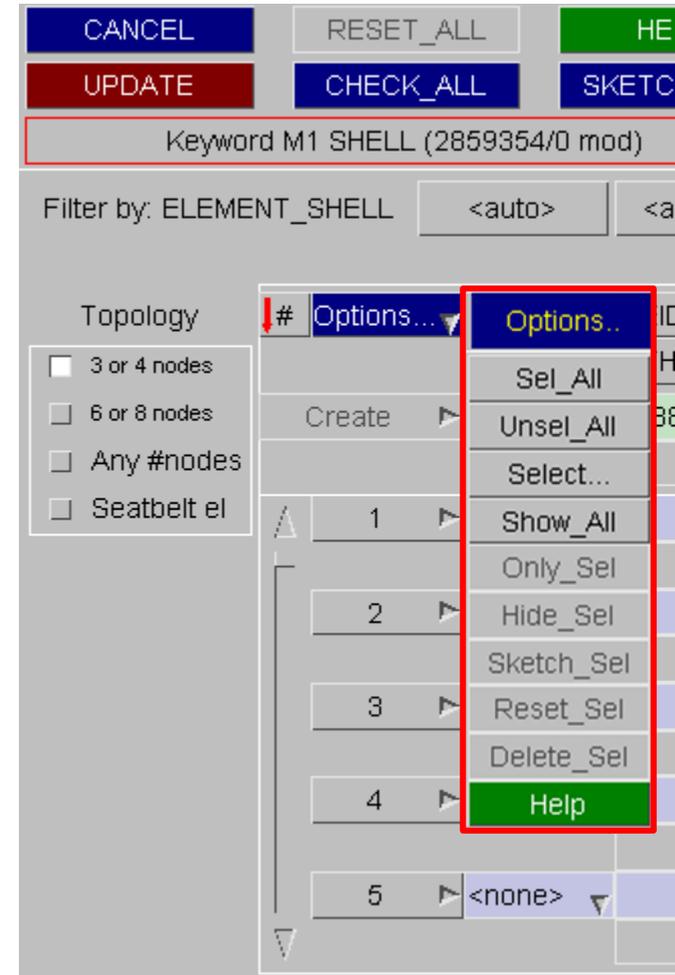
Key- word format: [dropdown]
Single row layout: [dropdown]

Filter by: ELEMENT_BEAM <auto> <auto> <auto> <auto> <auto> <auto>

#	Options...	Incl	Suffices	EID	La	PID	P	N1	N	N2	N	N3	N	RT1	RR1	RT2	RR2	LOCAL
460053	Main	<none>		460053		0		0		0		0		0	0	0	0	0
2981	cooling	Include file for B307752 cooling_pack_connect2.key						314188		155031		308880		0	0	0	0	0
2980	cooling							314210		155006		308880		0	0	0	0	0
2979	cooling	<none>		307750		184		308135		314434		308880		0	0	0	0	0
2978	cooling	<none>		307751		184		308035		314262		308880		0	0	0	0	0
2977	cooling	<none>		309271		303		309256		310002		310567		0	0	0	0	0

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.
- “**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.



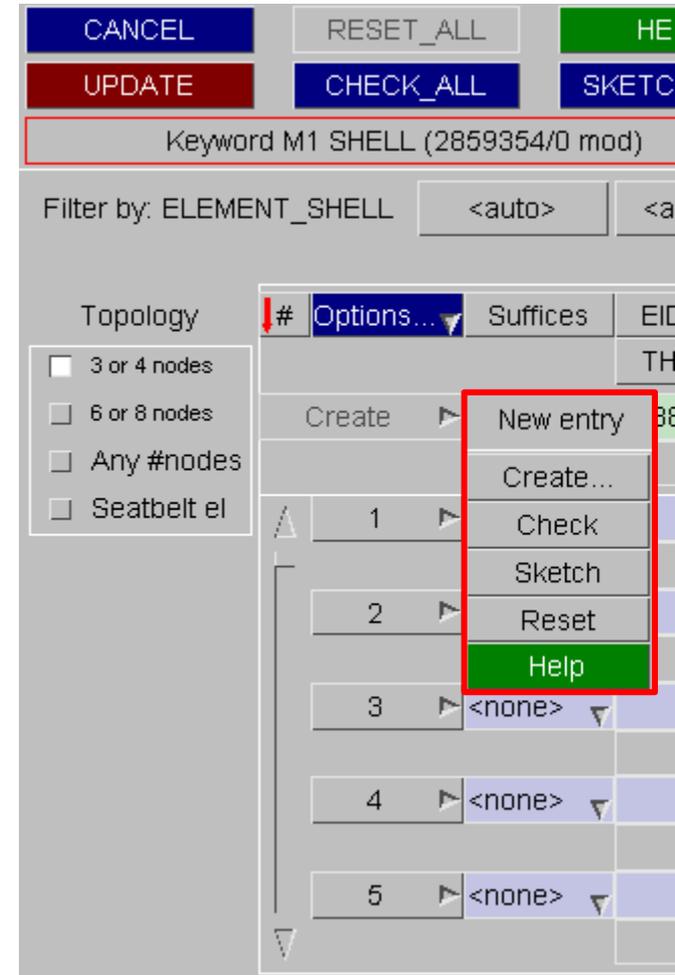
Create Button

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.

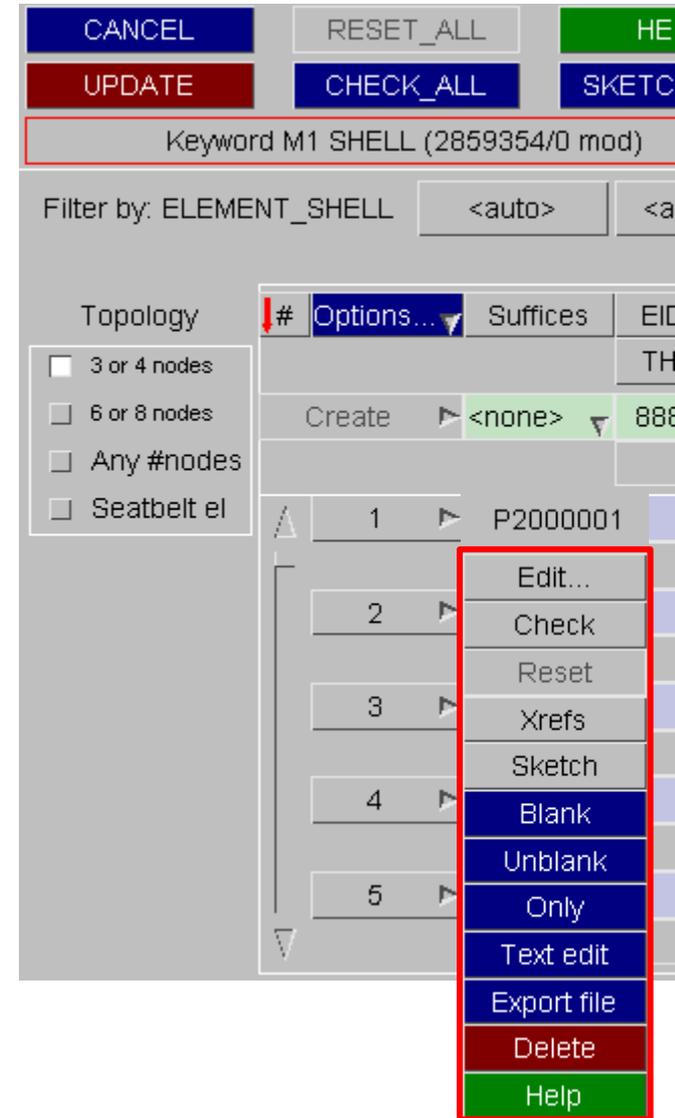
Popup Menu Options:

- **“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.

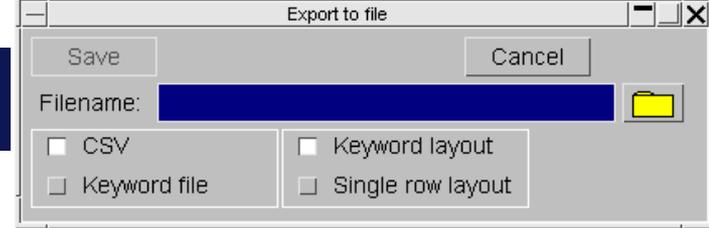


Data row index pop up options

- **“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.
- **“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 this item. If you choose to Delete Items the standard PRIMER deletion confirmation dialogue will be mapped and the item deleted.



Text Edit and Export File Options



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_ALL**” – Runs the standard checking function on all Data rows and reports the results.
- “**SKETCH_ALL**” – Sketches all the Data rows on the current model.

Keyword M1 BEAM (62400/0 mod)

Filter by: ELEMENT_BEAM <auto> <auto> <auto> <auto> <auto> <auto>

#	Options...	Suffices	EID	La	PID	P	N1	N	N2	N	N3	N	RT1	RR1	RT2	RR2	LOCAL	
			PARM1	F	PARM2	F	PARM3	F	PARM4	F	PARM5	F						1
			VX	F	VY	F	VZ	F										2
	Create	<none>	82530013		0		0		0		0		0	0	0	0	0	3
1	ORIENTA		1000001		10197		1000932		1000419		0		0	0	0	0	0	
			1.0039505		-0.9931035		1.0029103											



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