

Create/Modify Entities



Model courtesy of the NHTSA website: www.ncac.gwu.edu

Creating/Modifying Entities

- In PRIMER an entity is defined as any LS-DYNA keyword entity, this would include nodes, beams, shells, solids, parts etc.
- To create or modify these entities the process is essentially the same and each entities' panel can be found under the green keywords buttons.



Create Entities – Creation Panel

Creates the entity using the data currently inputted on the panel

Resets the entity creation panel to the original configuration.

Checks the current entity for errors/warnings.

Sketches the entity to preview it on the model.

Exits out of the panel.

Copies an existing entity into the one which is being created/modified.

Lists everything that references the current entity definition.

Opens up a text editor to modify/create entities in a different way

NID	X	Y	Z	TC	RC
1	0.0	0.0	0.0	0	0

Modify Entities – Modify Panel

Exits the window, saving the node modifications.

Restores the original entity data.

Options for displaying the entity. A right mouse click here gives other options for blanking and unblanking

Cancels out of the modify panel losing any modifications

The screenshot shows the 'MODIFY NODE M1/N1' dialog box. It features a toolbar with buttons: '+ Update' (highlighted with a red box and arrow), 'Reset All' (highlighted with a red box and arrow), 'Check', 'Sketch', 'Only' (dropdown menu, highlighted with a red box and arrow), 'Cancel' (highlighted with a red box and arrow), 'Copy In', 'X-Refs', and 'Text Edit'. Below the toolbar is an 'Include:' field with 'M1 <Master file>' and a folder icon. The main area is titled 'Modify NODE 1 (model 1)' and contains tabs for '_SCALAR', '_SCALAR_VALUE', and '_MERGE'. Under 'Method:', there is a 'Pick or type in coordinates' button. At the bottom is a table with columns NID, X, Y, Z, TC, and RC. The first row contains the values 1, 60.0, 30.0, 15.0, 0, and 0. The table is highlighted with a red box and an arrow pointing to it from a text box below.

NID	X	Y	Z	TC	RC
1	60.0	30.0	15.0	0	0

Shows the keyword data for the entity being modified. These fields can be modified

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