## Element Files ("Elements" Table)

Each element for each element group has exactly one record in this database
All elements are oriented and numbered as described in the ALGOR User's Guide. If a given processor requires a different orientation, it is the responsibility of the processor to re-orient the element during the read operation. For this database, there are definitive assignments for nodes in this table. In accordance with the ALGOR User's Guide, lower-order elements may have duplicate node numbers.
The access routines enforce that the combination of group number / element number is unique within the model.

| Field <br> Name | Type | Description |
| :--- | :--- | :--- |
| Group | Integer | The element group number. |
| Element | Integer | Element number. The element number must be unique within an element group and <br> always greater than 0. All elements within an element group (same number for Group) <br> must be numbered consecutively from 1 to EGroup(i).General.Count. |
| Mat_ID | Integer | Pointer to the material data. Must be 0 if not applicable. |
| Prop_ID | Integer | Pointer to a property block within the Egroup. Must be 0 if not applicable. |
| N01 | Integer | End node number. |
| N02 | Integer | End node number. |
| N03 | Integer | End node number. |
| N04 | Integer | End node number. |
| N05 | Integer | End node number. |
| N06 | Integer | End node number. |
| N07 | Integer | End node number. |
| N08 | Integer | End node number. |
| N09 | Integer | Mid-side node number. |
| N10 | Integer | Mid-side node number. |
| N11 | Integer | Mid-side node number. |
| N12 | Integer | Mid-side node number. |
| N13 | Integer | Mid-side node number. |
| N14 | Integer | Mid-side node number. |
| N15 | Integer | Mid-side node number. |
| N16 | Integer | Mid-side node number. |
| N |  |  |


| N17 | Integer | Mid-side node number. |
| :--- | :--- | :--- |
| N18 | Integer | Mid-side node number. |
| N19 | Integer | Mid-side node number. |
| N20 | Integer | Mid-side node number. |
| N21 | Integer | Supplemental node number. Specific meaning: <br> - Center of a brick element <br> - Center of a plate/shell element <br> - Orientation (K) node of a beam element |

Additional requirements for specific element types:

- If Egroup(i).General.Type is 1 or 3 and you have a triangle, N04 must be zero (do not duplicate NO3).


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