

IDENTITY at /NASTRAN/RESULT/MATRIX/GENERAL/ [cbar_k

Table

0-based

| | NAME | FORM | ROW | COLUMN | NON_ZERO | COLUMN_POS | DATA_POS | DOMAIN_ID |
|---|------|------|-----|--------|----------|------------|----------|-----------|
| 0 | KAA | 6 | 6 | 6 | 10 | 0 | 0 | 1 |
| 1 | MAA | 6 | 6 | 6 | 3 | 6 | 10 | 1 |

the left column here is indicating the actual matrix column (you start at 0 for each new matrix, and add 1)

this is telling you how many terms will be used from the DATA set for each matrix

this is telling you at which 'row' of the COLUMN set this matrix begins

COLUMN at /...

| | POSITION | Column | Delta |
|----|----------|--------|-------|
| 0 | 0 | 1 | 1 |
| 1 | 1 | 2 | 2 |
| 2 | 3 | 3 | 2 |
| 3 | 5 | 4 | 1 |
| 4 | 6 | 5 | 2 |
| 5 | 8 | 6 | 2 |
| 6 | 10 | 1 | 1 |
| 7 | 11 | 2 | 1 |
| 8 | 12 | 3 | 1 |
| 9 | 13 | 4 | 0 |
| 10 | 13 | 5 | 0 |
| 11 | 13 | 6 | 0 |
| 12 | 13 | | |

the right column here is indicating the 'position' or left most column of the DATA set

anything beyond the last 'non-zero' term at the end is to be ignored

Use the 'delta' number of values from this position to the next... this tells you how many rows worth of data go into this column

since there are only 13 'rows' in the DATA set (which would be 0-12), the 13th tag above means nothing

DATA at /NASTRA...

Table

0-based

| | ROW | VALUE |
|----|-----|----------------|
| 0 | 0 | 1963495.31... |
| 1 | 1 | 234689.146... |
| 2 | 5 | -117344.573... |
| 3 | 2 | 234687.318... |
| 4 | 4 | 117343.659... |
| 5 | 3 | 23599.7032... |
| 6 | 2 | 117343.659... |
| 7 | 4 | 89351.4438... |
| 8 | 1 | -117344.573... |
| 9 | 5 | 89351.9008... |
| 10 | 0 | 7.19591580... |
| 11 | 1 | 7.19591580... |
| 12 | 2 | 7.19591580... |

the row column here is indicating the actual matrix row (when add 1)

this only goes to '12' so any reference beyond this in the COLUMN info would be 'zero'

0 MATRIX KAA (GINO NAME 101) IS A REAL 6 COLUMN X

0COLUMN 1 ROWS 1 THRU 1

1) 1.9635E+06

0COLUMN 2 ROWS 2 THRU 6

2) 2.3469E+05 0.0000E+00 0.0000E+00 -1.1734E+05

0COLUMN 3 ROWS 3 THRU 5

3) 2.3469E+05 0.0000E+00 1.1734E+05

0COLUMN 4 ROWS 4 THRU 4

4) 2.3600E+04

0COLUMN 5 ROWS 3 THRU 5

3) 1.1734E+05 0.0000E+00 8.9351E+04

0COLUMN 6 ROWS 2 THRU 6

2) -1.1734E+05 0.0000E+00 0.0000E+00 0.0000E+00 8.9352E+04

0 MATRIX MAA (GINO NAME 102) IS A REAL 6 COLUMN X

0COLUMN 1 ROWS 1 THRU 1

1) 7.1959E-05

0COLUMN 2 ROWS 2 THRU 2

2) 7.1959E-05

0COLUMN 3 ROWS 3 THRU 3

3) 7.1959E-05

0COLUMNS 4 THRU 6 ARE NULL.

The COLUMN info tells the column the DATA values go in, as well as how many rows worth of DATA to use for each column. The DATA info tells you the row it goes in and the corresponding value...