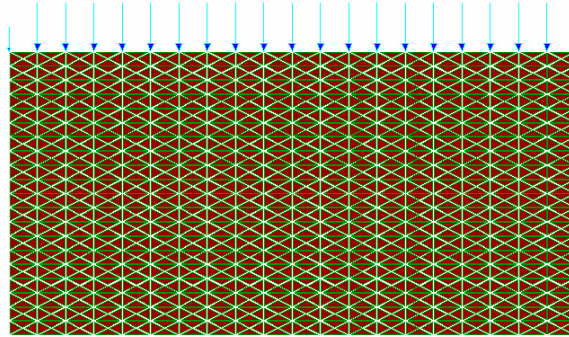


| Comparison between Sargon, NXNASTRAN and NEiNASTRAN | | | |
|---|--|-------------|------------|
| TEST 14 | VALIDATION, CROSS CHECKS, RELIABILITY, BENCHMARK | Marco Croci | 06/04/2007 |



| | Sargon (Clever) | NXNASTRAN | Δ_{rel} | NEiNASTRAN | Δ_{rel} |
|-------------|--------------------|--------------|----------------|------------|----------------|
| Model Name | tes14.WSR | tes14000.dat | | tes14.NAS | |
| Output file | tes14.CEN | tes14000.f06 | | tes14.OUT | |
| Q1 | -5,082E-02 | -5,075E-02 | 1,379E-03 | -5,082E-02 | 0,000E+00 |
| Q2 | 3,011E-02 | 3,007E-02 | 1,330E-03 | 3,011E-02 | 0,000E+00 |
| Q3 | -2,847E-01 | -2,851E-01 | -1,403E-03 | -2,845E-01 | 7,030E-04 |
| Q4 | 4,165E+00 | 4,159E+00 | 1,443E-03 | 4,165E+00 | 0,000E+00 |
| Q5 | -5,031E-01 | -5,026E-01 | 9,948E-04 | -5,031E-01 | 0,000E+00 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Compared Values:

- Q1 = Load Set 1 - Node 667 - Dy
- Q2 = Load Set 1 - Node 437 - Dx
- Q3 = Load Set 1 - Node 657 on element 1263 - Sigma y
- Q4 = Load Set 1 - Node 657 on element 1263 - Sigma x
- Q5 = Load Set 1 - Node 657 on element 1263 - Tau xy

Translations: [mm] Stresses: [N/mm]

Δ_{rel} is computed between Sargon and NX and between Sargon and NEi (see introduction).
 NXNASTRAN and NEiNASTRAN values are rounded up to 4 significant digits; in some cases the sign of stress is changed in order to use the same Sargon rule.