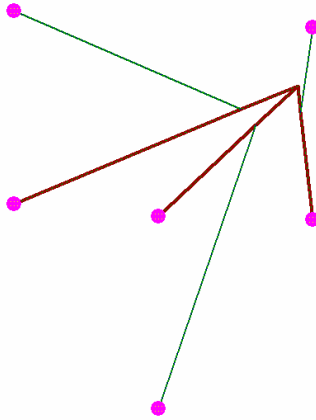


Comparison between Sargon, NXNASTRAN and NEiNASTRAN			
TEST 08	VALIDATION, CROSS CHECKS, RELIABILITY, BENCHMARK	Marco Croci	05/04/2007



	Sargon (Clever)	NXNASTRAN	Δ_{rel}	NEiNASTRAN	Δ_{rel}
Model Name	tes08.WSR	tes08000.dat		tes08.NAS	
Output file	tes08.CEN	tes08000.f06		tes08.OUT	
Q1	-1,268E-01	-1,268E-01	0,000E+00	-1,268E-01	0,000E+00
Q2	-5,228E+00	-5,228E+00	0,000E+00	-5,228E+00	0,000E+00
Q3	8,104E+05	8,104E+05	0,000E+00	8,104E+05	0,000E+00
Q4	2,520E+04	2,520E+04	0,000E+00	2,520E+04	0,000E+00
Q5	-4,495E+01	-4,495E+01	0,000E+00	-4,495E+01	0,000E+00
Q6	1,002E+03	1,002E+03	0,000E+00	1,002E+03	0,000E+00
Q7	5,350E+03	5,350E+03	0,000E+00	5,350E+03	0,000E+00
Q8	-5,861E+04	-5,861E+04	0,000E+00	-5,861E+04	0,000E+00
Q9	1,912E-01	1,912E-01	0,000E+00	1,912E-01	0,000E+00
Q10	1,421E+02	1,421E+02	0,000E+00	1,421E+02	0,000E+00

Compared Values:

- Q1 = Load Set 1 - Node 7 - Dz
- Q2 = Load Set 2 - Node 11 - Dz
- Q3 = Load Set 1 - Node 8 - Moment My on Constraint
- Q4 = Load Set 2 - Node 16 - Force Tz on Constraint
- Q5 = Load Set 3 - Node 8 - Moment M2 on Constraint
- Q6 = Load Set 1 - Element Beam 6 - Shear Force T3 (End2)
- Q7 = Load Set 1 - Element Truss 2 - Axial Force (End2)
- Q8 = Load Set 2 - Element Truss 3 - Axial Force (End2)
- Q9 = Load Set 3 - Element Truss 1 - Axial Force (End2)
- Q10 = Load Set 3 - Element Beam 5 - Bending Moment M2 (End1)

Translations: [mm] Forces: [N] Moments [Nmm]

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 sign of moment value is changed in order to use the same Sargon rule.