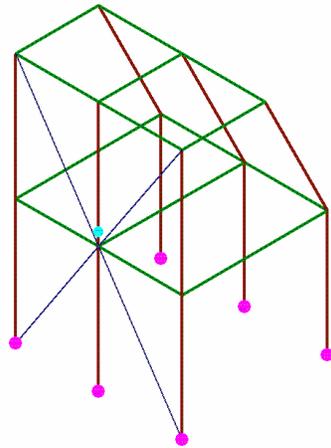


Comparison between Sargon, NXNASTRAN and NEiNASTRAN			
TEST 03	VALIDATION, CROSS CHECKS, RELIABILITY, BENCHMARK	Marco Croci	05/04/2007



	Sargon (Clever)	NXNASTRAN	Δ_{rel}	NEiNASTRAN	Δ_{rel}
Model Name	tes03.WSR	tes03000.dat		tes03.NAS	
Output file	tes03.CEN	tes03000.f06		tes03.OUT	
Q1	-1,081E+02	-1,081E+02	0,000E+00	-1,081E+02	0,000E+00
Q2	-1,609E-02	-1,609E-02	0,000E+00	-1,609E-02	0,000E+00
Q3	-4,615E+00	-4,615E+00	0,000E+00	-4,615E+00	0,000E+00
Q4	-9,173E-03	-9,173E-03	0,000E+00	-9,173E-03	0,000E+00
Q5	1,152E+06	1,152E+06	0,000E+00	1,152E+06	0,000E+00
Q6	-1,267E+09	-1,267E+09	0,000E+00	-1,267E+09	0,000E+00
Q7	2,049E+06	2,049E+06	0,000E+00	2,049E+06	0,000E+00
Q8	-1,017E+07	-1,017E+07	0,000E+00	-1,017E+07	0,000E+00
Q9	-1,055E+05	-1,055E+05	0,000E+00	-1,055E+05	0,000E+00
Q10	-6,102E+04	-6,102E+04	0,000E+00	-6,102E+04	0,000E+00

Compared Values:

- Q1 = Load Set 1 - Node 21 - Dy
- Q2 = Load Set 1 - Node 24 - Rx
- Q3 = Load Set 1 - Node 9 - Dz
- Q4 = Load Set 1 - Node 22 - Ry
- Q5 = Load Set 1 - Node 10 - Force Ty on Constraint
- Q6 = Load Set 1 - Node 16 - Moment Mx on Constraint
- Q7 = Load Set 1 - Element Truss 3 - Axial Force (End1)
- Q8 = Load Set 1 - Element Beam 26 - Bending Moment 2 (End2)
- Q9 = Load Set 1 - Element Beam 9 - Axial Force Force (End1)
- Q10 = Load Set 1 - Element Beam 9 - Shear Force 3 (End2)

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.