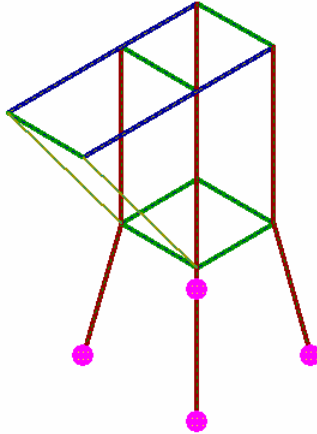


Comparison between Sargon, NXNASTRAN and NEiNASTRAN			
TEST 04	VALIDATION, CROSS CHECKS, RELIABILITY, BENCHMARK	Marco Croci	05/04/2007



	Sargon (Clever)	NXNASTRAN	Δ_{rel}	NEiNASTRAN	Δ_{rel}
Model Name	tes04.WSR	tes04000.dat		tes04.NAS	
Output file	tes04.CEN	tes04000.f06		tes04.OUT	
Q1	-4,284E+00	-4,284E+00	0,000E+00	-4,284E+00	0,000E+00
Q2	4,471E-03	4,471E-03	0,000E+00	4,471E-03	0,000E+00
Q3	1,706E-03	1,706E-03	0,000E+00	1,706E-03	0,000E+00
Q4	9,212E-06	9,212E-06	0,000E+00	9,212E-06	0,000E+00
Q5	4,525E-05	4,525E-05	0,000E+00	4,525E-05	0,000E+00
Q6	2,064E+04	2,064E+04	0,000E+00	2,064E+04	0,000E+00
Q7	-2,702E+05	-2,702E+05	0,000E+00	-2,702E+05	0,000E+00
Q8	8,292E+03	8,292E+03	0,000E+00	8,292E+03	0,000E+00
Q9	4,570E+03	4,570E+03	0,000E+00	4,570E+03	0,000E+00
Q10	-1,084E+04	-1,084E+04	0,000E+00	-1,084E+04	0,000E+00

Compared Values:

Q1 = Load Set 1 - Node 19 - Dz
 Q2 = Load Set 1 - Node 11 - Dy
 Q4 = Load Set 1 - Node 16 - Ry
 Q4 = Load Set 1 - Node 18 - Rz
 Q5 = Load Set 1 - Node 17 - Rx
 Q6 = Load Set 1 - Node 10 - Force Tz on Constraint
 Q7 = Load Set 1 - Node 13 - Moment Mz on Constraint
 Q8 = Load Set 1 - Element Beam 15 - Axial Force (End2)
 Q9 = Load Set 1 - Element Beam 15 - Torsional Moment (End2)
 Q10 = Load Set 1 - Element Truss 1 - Axial Force (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.