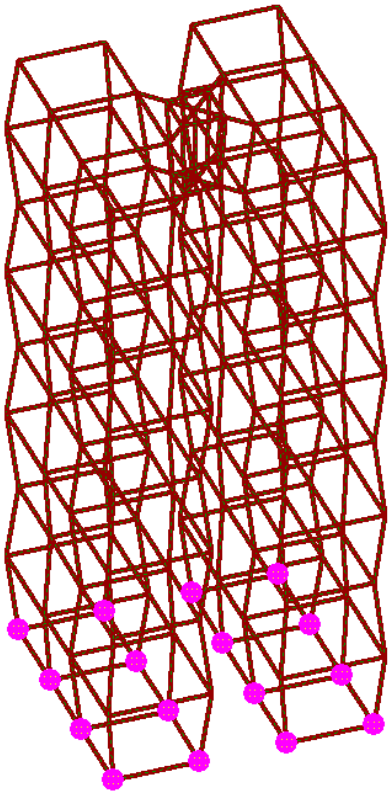
Comparison between Sargon (V8.50), NXNASTRAN and NEiNASTRAN			
TEST 43	VALIDATION, CROSS CHECKS, RELIABILITY, BENCHMARK	Marco Croci	11/04/2008



	Sargon (Clever)	NXNASTRAN	% errNX	NEiNASTRAN	% errNE
Model Name	tes43.WSR	tes43000.dat		tes43.NAS	
Output file	tes43.CEN	tes43000.f06		tes43.OUT	
Q1	1,237E+01	1,237E+01	0,030	1,237E+01	0,030
Q2	-1,434E+00	-1,434E+00	-0,004	-1,434E+00	-0,004
Q3	-7,510E+04	-7,510E+04	-0,006	-7,510E+04	-0,004
Q4	-1,281E+03	-1,281E+03	-0,034	-1,280E+03	0,041
Q5	1,946E+05	1,946E+05	0,016	1,946E+05	0,017

Compared Values:

Q1 = Load Set 1 - Node 151 - Dy
Q2 = Load Set 1 - Node 112 - Dx
Q3 = Load Set 1 - Beam element 166 - Bending moment Mz (End1)
Q4 = Load Set 1 - Node 82 - Constraint force Tz
Q5 = Load Set 1 - Node 115 - Constraint moment Mx

Translations: [mm] Forces: [N] Moments [Nmm]
% errNX = (Sargon - NX) / NX * 100; % errNE = (Sargon - NE) / NE * 100
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.

Model data

Degrees of freedom = 828
Beam elements = 337