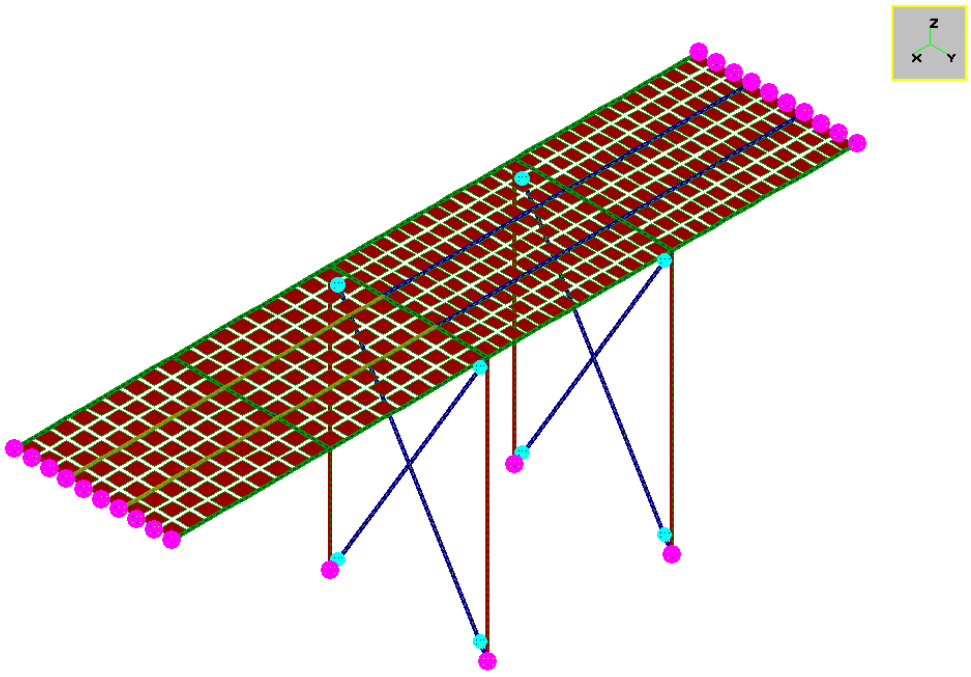
Comparison between Sargon (V8.50), NXNASTRAN and NEiNASTRAN			
TEST 44	VALIDATION, CROSS CHECKS, RELIABILITY, BENCHMARK	Marco Croci	14/04/2008



	Sargon (Clever)	NXNASTRAN	% errNX	NEiNASTRAN	% errNE
Model Name	tes44.WSR	tes44000.dat		tes44.NAS	
Output file	tes44.CEN	tes44000.f06		tes44.OUT	
Q1	-4.225E-01	-4.222E-01	0.073	-4.213E-01	0.290
Q2	3,621E+02	3,622E+02	-0,023	3,622E+02	-0,039
Q3	2,030E+00	2,011E+00	0,924	1,999E+00	1,553
Q4	3,328E+04	3,329E+04	-0,020	3,329E+04	-0,040
Q5	-6,002E+05	-6,003E+05	-0,024	-6,004E+05	-0,040

Compared Values:

Q1 = Load Set 1 - Node 67 - Dz
Q2 = Load Set 1 - Beam element 194 - Shear y (End1)
Q3 = Load Set 1 - Node 240 on plate shell element 170 - Von Mises stress
Q4 = Load Set 1 - Node 7 - Constraint force Tz
Q5 = Load Set 1 - Node 481 - 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 = 2756
Beam elements = 223
Plate shell elements = 414