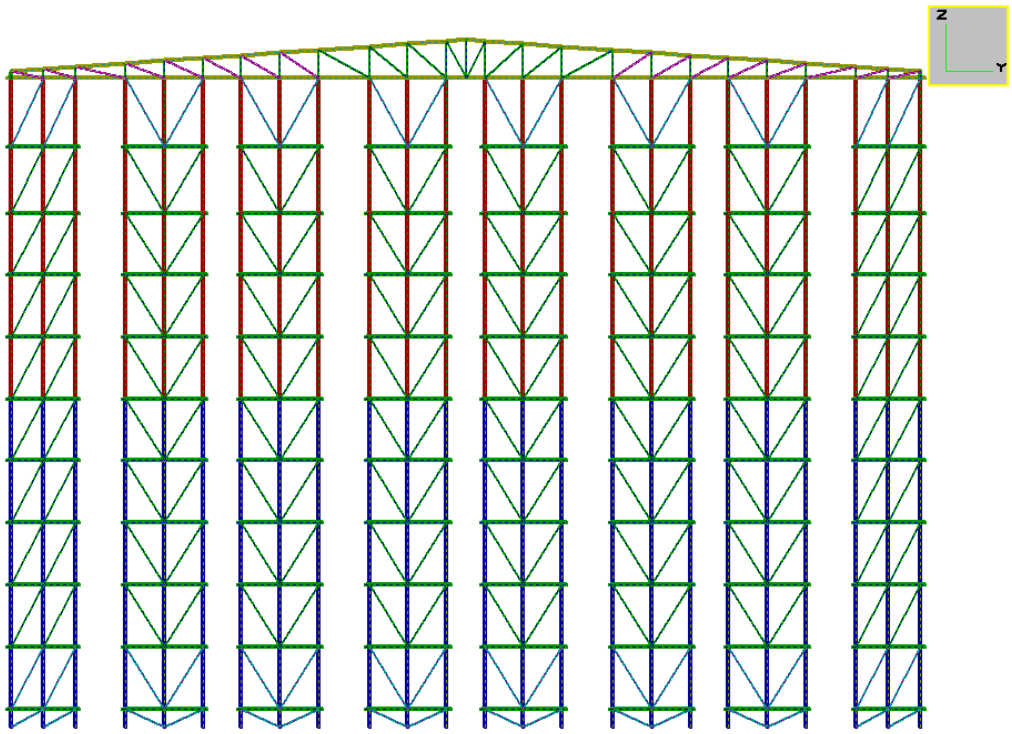
Comparison between Sargon (V9.01), NXNASTRAN and NEiNASTRAN			
TEST 62	VALIDATION, CROSS CHECKS, RELIABILITY, BENCHMARK	Marco Croci	02/12/2008



	Sargon (Clever)	NXNASTRAN	% errNX	NEiNASTRAN	% errNE
Model Name	tes62.WSR	tes62000.dat		tes62.NAS	
Output file	tes62.CEN	tes62000.f06		tes62.OUT	
Q1	-4.847E+00	-4.847E+00	0.006	-4.847E+00	0.007
Q2	2,996E+00	2,996E+00	-0,011	2,996E+00	-0,011
Q3	-6,921E+03	-6,921E+03	-0,006	-6,921E+03	-0,006
Q4	-2,582E+01	-2,582E+01	0,011	-2,582E+01	0,010
Q5	2,650E+04	2,650E+04	-0,011	2,650E+04	-0,011

Compared Values:

Q1 = Load Set 1 - Node 24 - Dz
Q2 = Load Set 2 - Node 571 - Dy
Q3 = Load Set 3 - Truss element 163- Axial force
Q4 = Load Set 4 - Beam element 650 - Shear force T3 (End 1)
Q5 = Load Set 5 - Node 199 - Constraint Force Tz

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 = 3324
Beam elements = 738
Truss elements = 223