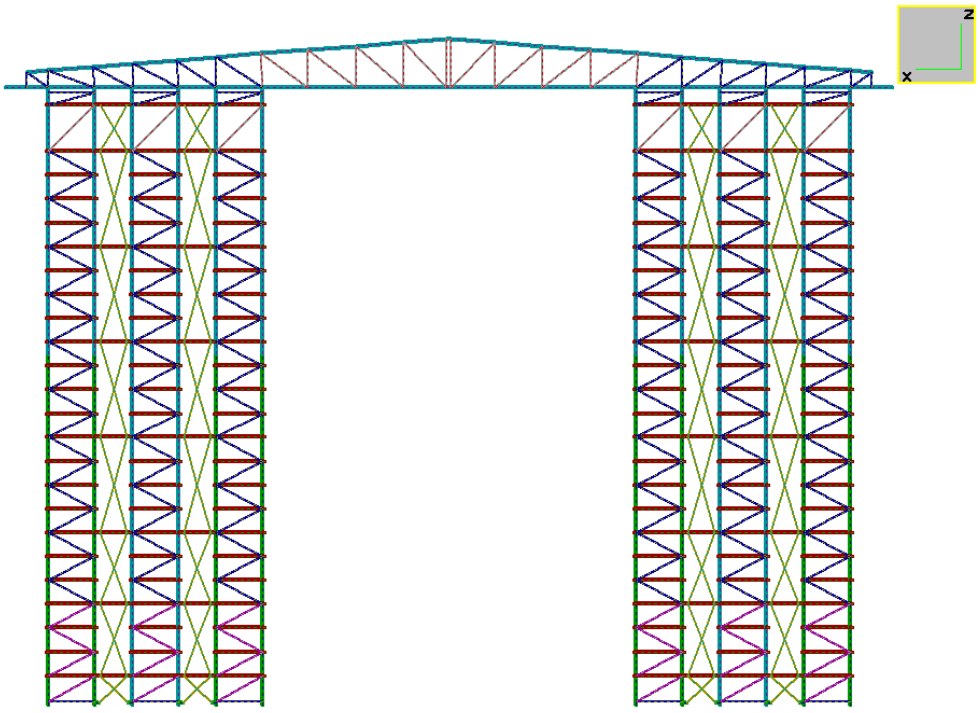
Comparison between Sargon (V9.01), NXNASTRAN and NEiNASTRAN			
TEST 63	VALIDATION, CROSS CHECKS, RELIABILITY, BENCHMARK	Marco Croci	02/12/2008



	Sargon (Clever)	NXNASTRAN	% errNX	NEiNASTRAN	% errNE
Model Name	tes63.WSR	tes63000.dat		tes63.NAS	
Output file	tes63.CEN	tes63000.f06		tes63.OUT	
Q1	-2,694E+00	-2,694E+00	-0,017	-2,694E+00	-0,017
Q2	-4,876E+00	-4,876E+00	0,000	-4,876E+00	0,003
Q3	-3,839E+03	-3,839E+03	0,009	-3,839E+03	0,009
Q4	2,300E+04	2,300E+04	-0,011	2,300E+04	-0,014
Q5	8,834E+03	8,834E+03	-0,005	8,834E+03	-0,003

Compared Values:

Q1 = Load Set 2 - Node 751 - Dz
Q2 = Load Set 4 - Node 754 - Dz
Q3 = Load Set 6 - Beam element 231 - Axial force (End 1)
Q4 = Load Set 3 - Node 12 - Constraint Moment My
Q5 = Load Set 3 - Node 12 - 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 = 786
Beam elements = 922
Truss elements = 332