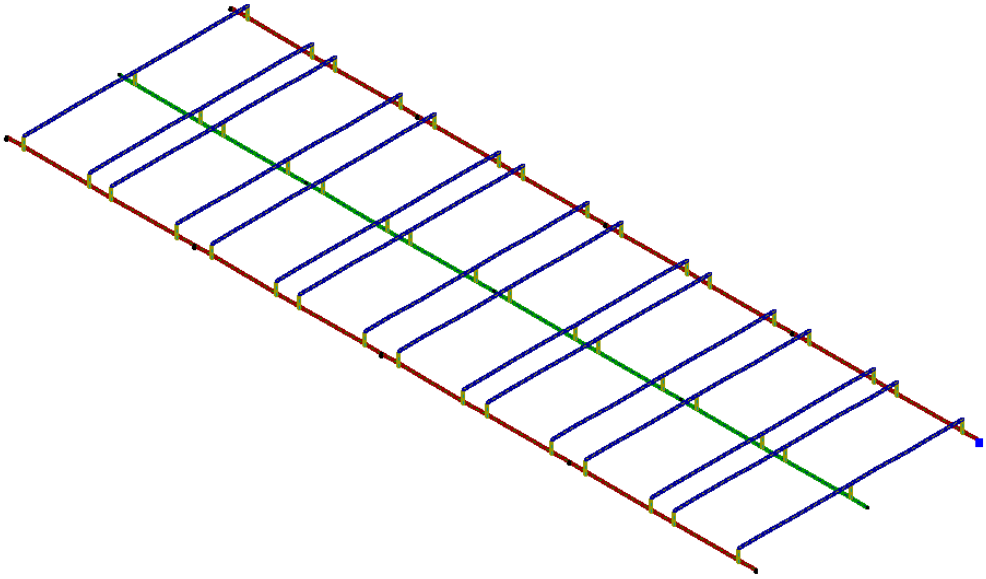
Comparison between Sargon (V9.01), NXNASTRAN and NEiNASTRAN			
TEST 65	VALIDATION, CROSS CHECKS, RELIABILITY, BENCHMARK	Marco Croci	02/12/2008



	Sargon (Clever)	NXNASTRAN	% errNX	NEiNASTRAN	% errNE
Model Name	tes65.WSR	tes65000.dat		tes65.NAS	
Output file	tes65.CEN	tes65000.f06		tes65.OUT	
Q1	-6.224E-01	-6.224E-01	0.002	-6.224E-01	0.003
Q2	-1,724E+00	-1,724E+00	-0,024	-1,724E+00	-0,024
Q3	9,463E+05	9,463E+05	-0,003	9,463E+05	-0,003
Q4	8,196E+03	8,196E+03	0,006	8,196E+03	0,006
Q5	6,950E+03	6,950E+03	-0,002	6,950E+03	-0,002

Compared Values:

Q1 = Load Set 1 - Node 153 - Dz
Q2 = Load Set 1 - Node 200 - Dz
Q3 = Load Set 1 - Beam element 42 - Bending moment M2 (End 2)
Q4 = Load Set 1 - Node 16 - Constraint Force Tz
Q5 = Load Set 1 - Node 195 - 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 = 1220
Beam elements = 236