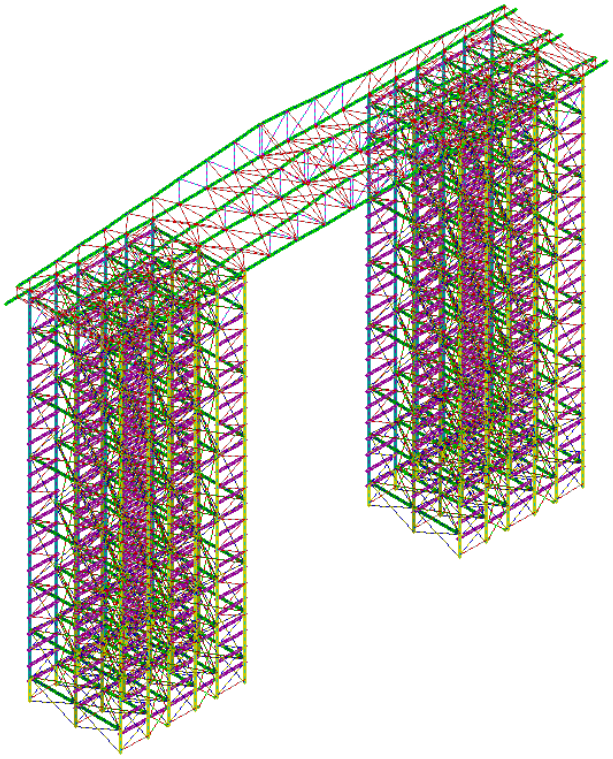
Comparison between Sargon (V9.01), NXNASTRAN and NEiNASTRAN			
TEST 60	VALIDATION, CROSS CHECKS, RELIABILITY, BENCHMARK	Marco Croci	01/12/2008



	Sargon (Clever)	NXNASTRAN	% errNX	NEiNASTRAN	% errNE
Model Name	tes60.WSR	tes60000.dat		tes60.NAS	
Output file	tes60.CEN	tes60000.f06		tes60.OUT	
Q1	-2,176E-01	-2,176E-01	-0,005	-2,176E-01	-0,009
Q2	1,633E+00	1,633E+00	0,006	1,633E+00	0,006
Q3	-7,960E+03	-7,960E+03	-0,006	-7,960E+03	-0,004
Q4	-4,834E+03	-4,834E+03	0,000	-4,834E+03	0,000
Q5	-1,674E+05	-1,674E+05	-0,012	-1,674E+05	-0,012

Compared Values:

Q1 = Load Set 4 - Node 2737 - Dz
Q2 = Load Set 3 - Node 1671 - Dy
Q3 = Load Set 5 - Beam element 3230- Axial force (End1)
Q4 = Load Set 3 - Node 22 - Constraint Force Ty
Q5 = Load Set 2 - Node 27 - 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 = 15408
Beam elements = 3682
Truss elements = 2262