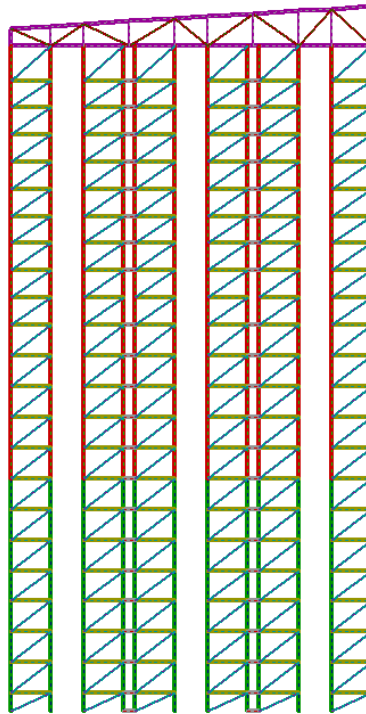


Comparison between Sargon (V8.42), NXNASTRAN and NEiNASTRAN			
TEST 18	VALIDATION, CROSS CHECKS, RELIABILITY, BENCHMARK	Marco Croci	10/02/2008



	Sargon (Clever)	NXNASTRAN	% err	NEiNASTRAN	% err
Model Name	tes18.WSR	tes18000.dat		tes18.NAS	
Output file	tes18.CEN	tes18000.f06		tes18.OUT	
Q1	4,703E-01	4,703E-01	0,01	4,703E-01	0,01
Q2	-2,680E-01	-2,680E-01	0,01	-2,680E-01	0,01
Q3	-6,488E+02	-6,488E+02	0,01	-6,488E+02	0,00
Q4	1,801E+02	1,801E+02	0,01	1,801E+02	0,01
Q5	2,214E+05	2,214E+05	0,02	2,214E+05	0,02

Compared Values:

- Q1 = Load Set 1 - Node 204 - Dy
- Q2 = Load Set 2 - Node 187 - Dz
- Q3 = Load Set 1 - Element Truss 15 - Axial Force (End 1)
- Q4 = Load Set 1 - Element Beam 121 - Shear z (End 1)
- Q5 = Load Set 3 - Node 7 - Force Tz on Constraint

Translations: [mm] Forces: [N] Moments [Nmm]

% err is computed between Sargon and NX and between Sargon and NEi (see introduction).
 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.