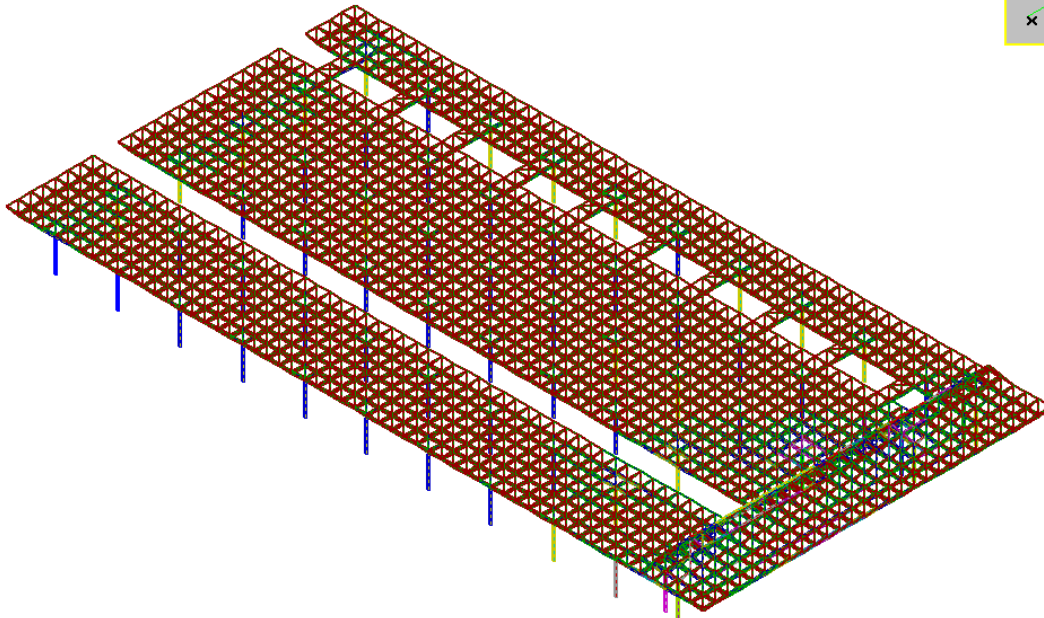


Comparison between Sargon (V8.42), NXNASTRAN and NEiNASTRAN					
TEST 17	VALIDATION, CROSS CHECKS, RELIABILITY, BENCHMARK			Marco Croci	10/02/2008



	Sargon (Clever)	NXNASTRAN	% err	NEiNASTRAN	% err
Model Name	tes17.WSR	tes17000.dat		tes17.NAS	
Output file	tes17.CEN	tes17000.f06		tes17.OUT	
Q1	-6,679E+00	-6,679E+00	0,00	-6,679E+00	0,00
Q2	1,345E+00	1,345E+00	-0,03	1,345E+00	0,02
Q3	-2,201E+03	-2,201E+03	0,02	-2,201E+03	0,01
Q4	8,237E+05	8,237E+05	0,00	8,237E+05	0,00
Q5	1,108E+07	1,108E+07	0,04	1,108E+07	0,04

Compared Values:

Q1 = Load Set 1 - Node 33 - Dz

Q2 = Load Set 3 - Node 2823 - Dy

Q3 = Load Set 4 - Element Beam 64 - Axial Force (End 1)

Q4 = Load Set 5 - Element Beam 58 - Bending Moment z (End 2)

Q5 = Load Set 6 - Node 2850 - Moment My 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.