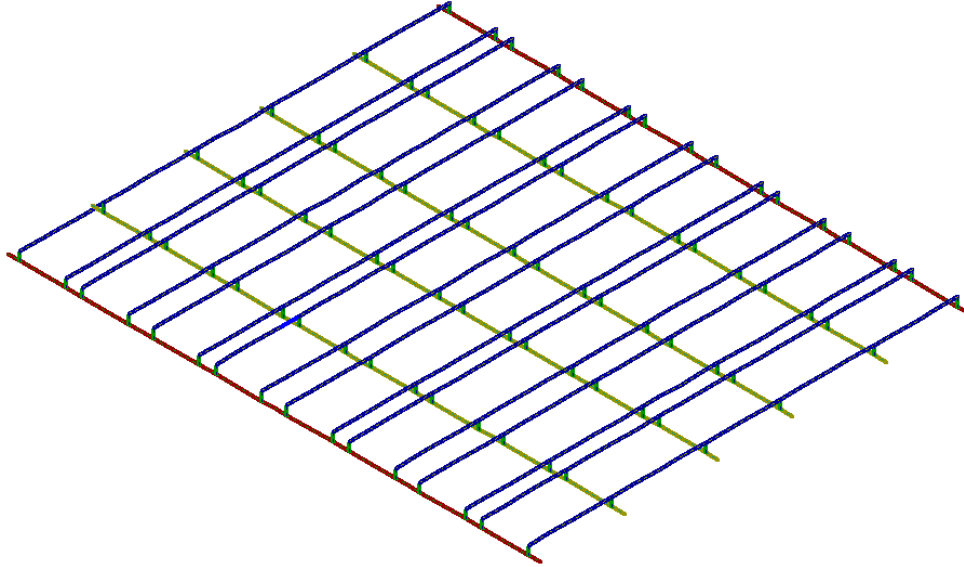


Comparison between Sargon (V9.01), NXNASTRAN and NEiNASTRAN					
TEST 64	VALIDATION, CROSS CHECKS, RELIABILITY, BENCHMARK	Marco Croci	02/12/2008		



	Sargon (Clever)	NXNASTRAN	% errNX	NEiNASTRAN	% errNE
Model Name	tes64.WSR	tes64000.dat		tes64.NAS	
Output file	tes64.CEN	tes64000.f06		tes64.OUT	
Q1	-3,952E+00	-3,952E+00	-0,008	-3,952E+00	-0,007
Q2	-1,570E+00	-1,570E+00	-0,012	-1,570E+00	-0,012
Q3	1,944E+06	1,944E+06	0,011	1,944E+06	0,011
Q4	9,062E+03	9,062E+03	0,002	9,062E+03	0,002
Q5	3,155E+03	3,155E+03	-0,004	3,155E+03	-0,004

Compared Values:

- Q1 = Load Set 1 - Node 402 - Dz
- Q2 = Load Set 1 - Node 172 - Dz
- Q3 = Load Set 1 - Beam element 20 - Bending moment M2 (End 1)
- Q4 = Load Set 1 - Node 354 - Constraint Force Tz
- Q5 = Load Set 1 - 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 = 2732

Beam elements = 536