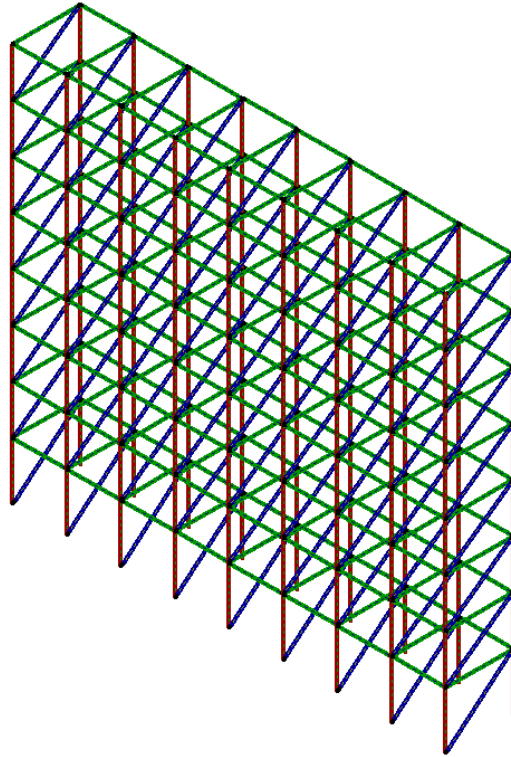


Comparison between Sargon (V9.01), NXNASTRAN and NEiNASTRAN					
TEST 66	VALIDATION, CROSS CHECKS, RELIABILITY, BENCHMARK	Marco Croci	02/12/2008		



	Sargon (Clever)	NXNASTRAN	% errNX	NEiNASTRAN	% errNE
Model Name	tes66.WSR	tes66000.dat		tes66.NAS	
Output file	tes66.CEN	tes66000.f06		tes66.OUT	
Q1	-4,938E+01	-4,938E+01	0,004	-4,938E+01	0,003
Q2	-1,066E+00	-1,066E+00	-0,021	-1,066E+00	-0,021
Q3	-8,188E+04	-8,188E+04	0,004	-8,188E+04	0,004
Q4	3,223E+04	3,223E+04	-0,009	3,223E+04	-0,009
Q5	-6,375E+06	-6,375E+06	0,001	-6,375E+06	0,001

Compared Values:

Q1 = Load Set 1 - Node 152 - Dy
 Q2 = Load Set 1 - Node 151 - Dz
 Q3 = Load Set 1 - Beam element 6 - Axial Force (End 2)
 Q4 = Load Set 1 - Node 113 - Constraint Force Tz
 Q5 = Load Set 1 - Node 54 - Constraint Moment Mx

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 = 864
 Beam elements = 416