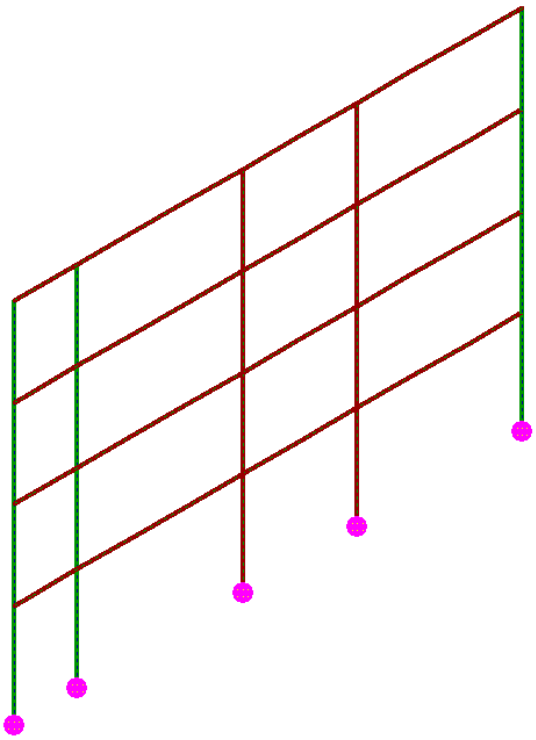
Comparison between Sargon (V8.42), NXNASTRAN and NEiNASTRAN			
TEST 25	VALIDATION, CROSS CHECKS, RELIABILITY, BENCHMARK	Marco Croci	10/02/2008



	Sargon (Clever)	NXNASTRAN	% err	NEiNASTRAN	% err
Model Name	tes25.WSR	tes25000.dat		tes25.NAS	
Output file	tes25.CEN	tes25000.f06		tes25.OUT	
Q1	-4,054E-01	-4,054E-01	-0,01	-4,054E-01	0,00
Q2	1,704E-01	1,704E-01	0,01	1,704E-01	0,02
Q3	-1,413E+05	-1,413E+05	-0,02	-1,413E+05	-0,02
Q4	2,826E+04	2,826E+04	0,00	2,826E+04	0,00
Q5	2,670E+04	2,670E+04	-0,01	2,632E+04	1,46

Compared Values:

Q1 = Load Set 1 - Node 42 - Dz
Q2 = Load Set 2 - Node 8 - Dx
Q3 = Load Set 3 - Element Beam 28 - Axial Force (End 1)
Q4 = Load Set 3 - Element Beam 57 - Shear z (End 1)
Q5 = Load Set 4 - Node 14 - 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.

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