Comparison between Sargon (V8.42), NXNASTRAN and NEiNASTRAN					
TEST 16	**VALIDATION, CROSS CHECKS, RELIABILITY, BENCHMARK**			**Marco Croci**	**10/02/2008**
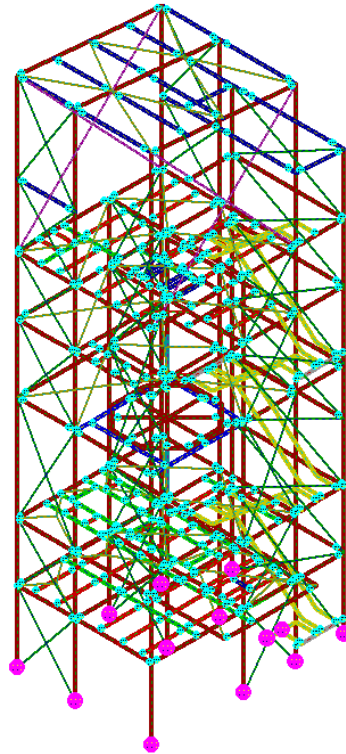
	Sargon (Clever)	**NXNASTRAN**	**% err**	**NEiNASTRAN**	**% err**
Model Name	tes16.WSR	tes16000.dat		tes16.NAS	
Output file	tes16.CEN	tes16000.f06		tes16.OUT	
Q1	−2,828E−01	−2,829E−01	−0,02	−2,829E−01	−0,02
Q2	4,774E+00	4,774E+00	0,00	4,774E+00	0,00
Q3	−3,099E+04	−3,099E+04	0,00	−3,099E+04	0,00
Q4	1,133E+07	1,133E+07	0,01	1,133E+07	0,01
Q5	1,621E+04	1,621E+04	−0,01	1,621E+04	−0,01

Compared Values:

Q1 = Load Set 1 – Node 392 – Dz
Q2 = Load Set 4 – Node 390 – Dx
Q3 = Load Set 5 – Element Beam 76 – Axial Force (End 1)
Q4 = Load Set 7 – Element Beam 608 – Bending Moment y (End 1)
Q5 = Load Set 2 – Node 16 – 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.