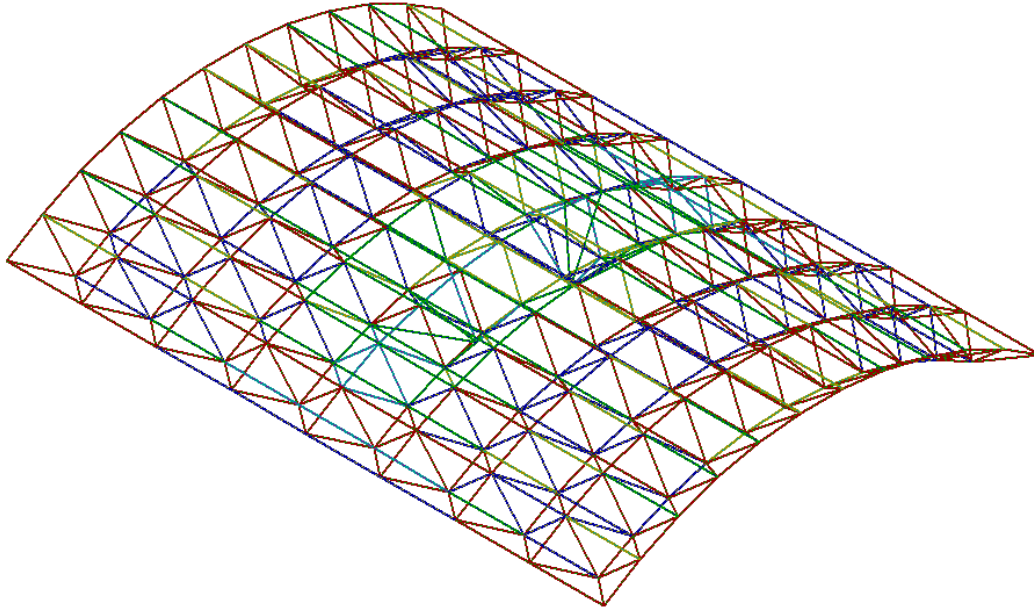


Comparison between Sargon (V8.42), NXNASTRAN and NEiNASTRAN					
TEST 21	VALIDATION, CROSS CHECKS, RELIABILITY, BENCHMARK			Marco Croci	10/02/2008



	Sargon (Clever)	NXNASTRAN	% err	NEiNASTRAN	% err
Model Name	tes21.WSR	tes21000.dat		tes21.NAS	
Output file	tes21.CEN	tes21000.f06		tes21.OUT	
Q1	-5,679E+00	-5,679E+00	0,00	-5,679E+00	0,00
Q2	-6,843E+00	-6,843E+00	0,01	-6,843E+00	0,01
Q3	3,269E+04	3,269E+04	-0,01	3,269E+04	-0,01
Q4	3,425E+04	3,425E+04	0,01	3,425E+04	0,01
Q5	3,240E+04	3,240E+04	0,00	3,240E+04	0,00

Compared Values:

Q1 = Load Set 1 - Node 193 - Dz
 Q2 = Load Set 3 - Node 141 - Dx
 Q3 = Load Set 4 - Element Truss 398 - Axial Force (End 1)
 Q4 = Load Set 3 - Element Truss 222 - Axial Force (End 1)
 Q5 = Load Set 2 - Node 7 - 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.