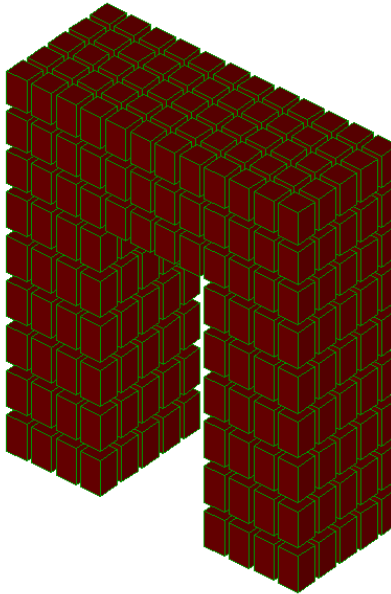


Comparison between Sargon (V9.01), NXNASTRAN and NEiNASTRAN						
TEST 53	VALIDATION, CROSS CHECKS, RELIABILITY, BENCHMARK				Marco Croci	27/11/2008



	Sargon (Clever)	NXNASTRAN	% errNX	NEiNASTRAN	% errNE
Model Name	tes53.WSR	tes53000.dat		tes53.NAS	
Output file	tes53.CEN	tes53000.f06		tes53.OUT	
Q1	-3,818E-03	-3,818E-03	0,003	-3,818E-03	-0,005
Q2	1,390E-03	1,390E-03	0,007	1,390E-03	0,029
Q3	1,067E+00	1,064E+00	0,229	1,065E+00	0,178
Q4	1,155E+00	1,157E+00	-0,202	1,156E+00	-0,144
Q5	9,980E+03	9,980E+03	0,002	9,980E+03	-0,002

Compared Values:

Q1 = Load Set 1 - Node 256 - Dz

Q2 = Load Set 1 - Node 431 - Dy

Q3 = Load Set 1 - Node 162 on solid element 230 - Von Mises stress

Q4 = Load Set 1 - Node 97 on solid element 58 - Von Mises stress

Q5 = Load Set 1 - Node12 - 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

Model data

Degrees of freedom = 1836

Solid elements = 420