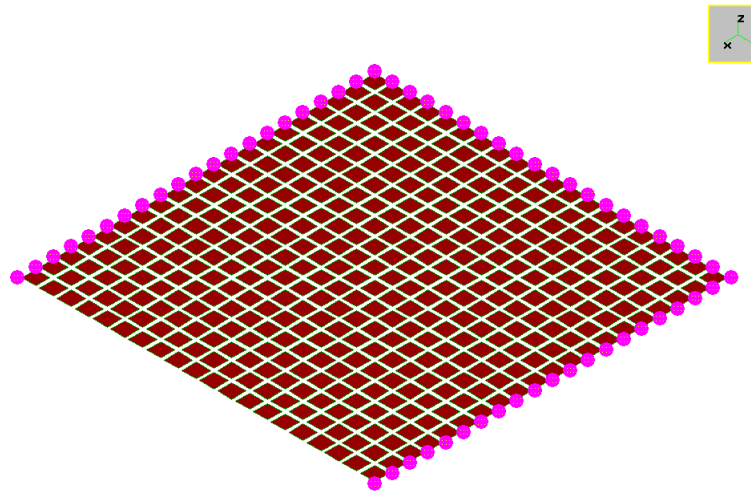


Comparison between Sargon (V8.42), NXNASTRAN and NEiNASTRAN - NORMAL MODES			
TEST 33	VALIDATION, CROSS CHECKS, RELIABILITY, BENCHMARK	Marco Croci	17/03/2008



	Sargon (Leda)	NX NASTRAN		NE NASTRAN	
Model Name	tes33.WSR	tes33000.dat		tes33.NAS	
Output file	tes33.dou	tes33000.f06		tes33.OUT	
	Frequency [Hz]	Frequency [Hz]	% errNX	Frequency [Hz]	% errNE
Mode 1	47,197861	47,09262	0,223	47,201150	-0,007
Mode 2	78,635651	78,02412	0,784	78,669560	-0,043
Mode 3	124,697797	124,4353	0,211	124,83100	-0,107
Mode 4	150,189622	148,9649	0,822	150,53570	-0,230
Mode 5	158,431201	156,7129	1,096	158,69130	-0,164
Mode 6	228,273630	224,1751	1,828	228,99100	-0,313
Mode 7	240,957495	240,4590	0,207	241,52230	-0,234
Mode 8	262,231360	260,3301	0,730	263,42450	-0,453
Mode 9	275,632533	272,4632	1,163	276,65880	-0,371
Mode 10	336,529355	329,5895	2,106	338,43980	-0,564

$\% \text{ errNX} = (\text{Sargon} - \text{NX}) / \text{NX} * 100$; $\% \text{ errNE} = (\text{Sargon} - \text{NE}) / \text{NE} * 100$

Notes: in Sargon Kirchhoff formulation was used for plate shell elements
in NX and NE NASTRAN CQUADR were not used

Constraints: fixed