

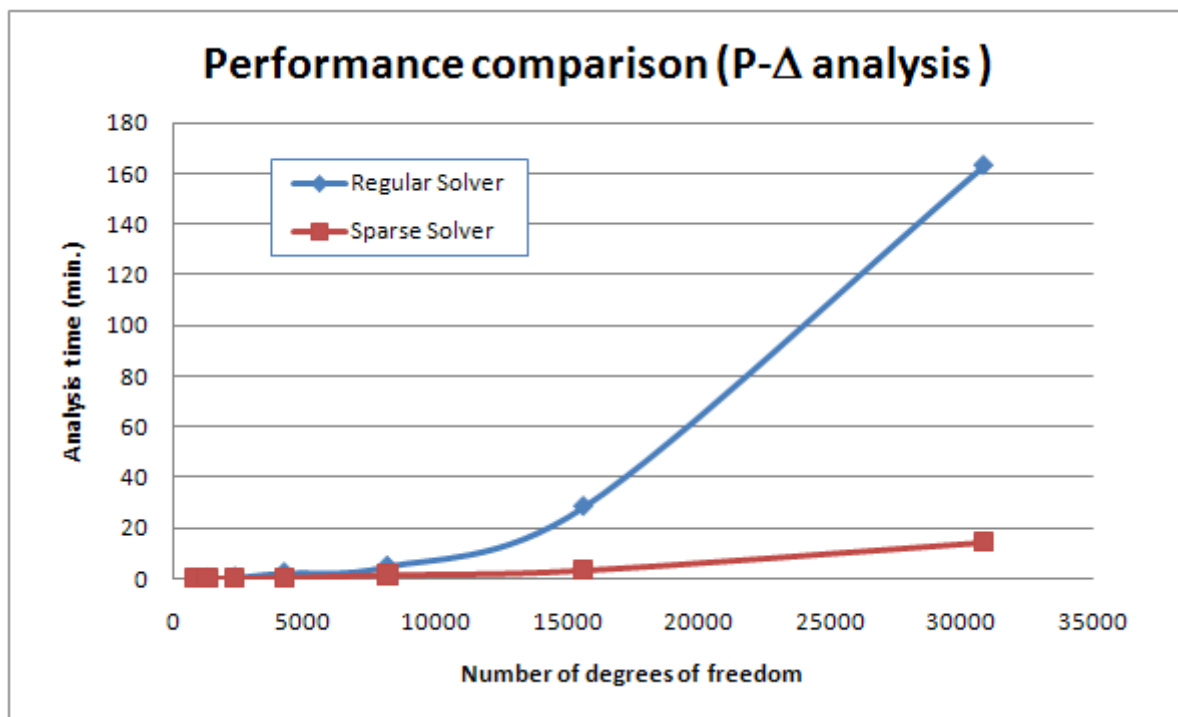


ADVANCED SOLVER FOR LARGE MODELS

SAFI features a solver based on sparse matrix storage (compressed storage) in order to reduce the analysis time and memory usage of large models analysis. The table below shows two examples of the memory usage of the regular storage (skyline) and the compressed storage.

Storage method	Model 1 (8556 joints)	Model 2 (44432 joints)
Regular (Skyline storage)	335 MB	19818 MB (> 19 GB)
Pardiso (Compressed storage)	9.7 MB	88 MB

The chart below shows a comparison between the regular solver and the sparse solver.



A version of SAFI has been developed specifically for Windows 64 bits versions (Vista, 7 and 8). The main advantage of this new version is to eliminate the constraints of the 2 GB memory limit associated with 32 bits applications and allow the analysis of very large models.

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