CAEBeans is the hierarchy of problem-oriented shells over CAE-package. Their functionality is implemented using GPE (Grid Programming Environment) architecture (http://gpe4gtk.sourceforge.net).

CAE package represents the lowest level of the shell hierarchy. On the higher levels of the hierarchy, the CAEBeans concretize the classes of application problems by setting and encapsulating some groups of parameters being common for these problems.

CAEBeans technology allows us to simplify the process of solving certain classes of the problems. The user gets the possibility to study gradually the interface of CAE package by plunging in the hierarchy of problem-oriented shells. We can use this system for creating a knowledge base of algorithms and methods of solving certain classes of CAE problems.

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