Random Requirements This form serves to select the types of requirements to be generated for each graph, along with the corresponding parameters. The given requirements types and parameters are as described in the section on the '`Create Services`' submenu. Similar to the *Graphs* form, there are fields to specify the range of service numbers to generate, and the number of different requirements to be generated for each number of services in the range. Furthermore, there is an option named '`Iterate over graphs+reqs`' which, when checked, causes a new graph to be generated for each requirement. (The default behaviour is to iterate over different requirements for each generated graph.)

Packing This form allows to specify which types of clique and ensemble packing algorithms should be applied to each generated instance (i.e., graph/requirements pair). For each of the LLB algorithms, it is also possible to choose the node orders to be employed by the clique packing algorithm. Furthermore, one can specify which kinds of ensemble graphs (standard, regular or both) should be employed for the coloring and maxclique algorithms on the *Coloring* form (see below).

Note that currently the dialog does *not* allow to choose the global service order for the LLB and SFF/GFF algorithms; this will probably be added in a future version. For the time being, the service order should be specified in the service options dialog of the DABTool program before running the generated macro.

Coloring This form is mostly analogous to the *Unit Requirements* form. It specifies which maxclique and coloring algorithms should be applied to any of the computed ensemble assignments (SFF/GFF), along with the corresponding node orders. Note that the *Packing* form further restricts the algorithm types to apply to the SFF and GFF ensemble assignments. For instance, one often uses the standard ensemble graph for SFF, and the regular ensemble graph for GFF assignments. This can be achieved by checking only the corresponding options on the *Packing* form. If any of the algorithms is disabled on the *Coloring* form, then this algorithm will not be invoked at all. For instance, if one is only interested in the coloring results, one will uncheck the '`Maxclique`' and '`Reg Maxclique`' options.

18.2 Running the Test Macro

After the macro file has been written using '`Generate Macro`', one can load it and execute the test macro from the DAB tool as usual (see *Macros Submenu* above). When the test macro starts executing, it displays a message describing the macro and asks whether to proceed. The rest of the processing is automatic. When the test run is finished, the macro displays another prompt and terminates.

18.3 The Database Interface

After a test macro has been run, the log file named in the corresponding test configuration contains the results from the test run which can then be exported to the test database using