

Application

Problem
Polyomino tiling, sudoku,
n queens, set packing,
set partitioning, etc.

Solution
Application specific
presentation of the
solution.

Transformation

Transform
Transformation from
specific problem into a
generic DLX matrix

Reverse Transform
Transform the solutions
back into a form suitable
for the specific problem

DECS

Divide
Divide the problem
into multiple smaller
work units

Merge
Place all the solutions
in a common place
ready to be transformed

BOINC

Distribute
Distribute the work units
to systems sharing their
computational power

Collect
Get solutions from each
system until all work units
have been processed

Computation

Conquer
Process the work units
on each system to find
all available solutions

Request

Response

Generalize

Specialize

Recurse

Iterate

Propagate

Aggregate

Compute