Symbolic Postcondition Computation for Skiplists app:skiplists

In this section, we outline a full account of the local postcondition computation for skiplist fragments, that was described by example in Section sec:fragment-abstraction.

We assume, using the notation of Section sec:fragment-abstraction that is the current set of fragments. Let $_1$ be set of level-1 fragments in , and let $_2$ be set of higher-level fragments in . For each program statement, let $_{post}$ be the set of fragments after executing the statement. Let $_{post}$, $'$ be initialized as the empty set. The postcondition is structured according to different kinds of statements.

x := y The postcondition computation is performed as follows: For each fragment $_y \in_1$ where y $\in$, enumerate

f or each fragment $\in_1$ where $\hookrightarrow$ $_y$, create $'$ which is same as except that itemize

variable″itemize $\cup x$,