

Menu bar

Tool bar

Name of PO

Selected Hypotheses

Event-B Explorer

The screenshot displays the Rodin Platform interface for a proving session. The main window is titled "Proving - Celebrity/Celebrity\_1.bps - Rodin Platform". It features a menu bar (File, Edit, Navigate, Search, Project, Run, ProB, Window, Help) and a tool bar with various icons.

The interface is divided into several panes:

- Proof Tree:** Located on the left, it shows a tree structure with a node labeled "simplification rewrites" and a sub-node "c=Q \ {y}".
- Event-B Explorer:** Located on the right, it shows a tree structure with a node labeled "Celebrity\_1" and sub-nodes including "Variables", "Invariants", "Events", and "Proof Obligations". The "Proof Obligations" node is expanded, showing a list of obligations with green checkmarks.
- Proof Control View:** Located at the bottom left, it contains a red sad face icon and a text area.
- Goal:** Located in the center, it displays the goal "c=Q \ {y}".
- Symbols View:** Located at the bottom right, it contains a grid of mathematical symbols.

The main proving area in the center shows a list of hypotheses (ct, ceQ, xeQ, yeQ,  $\neg x \mapsto yek$ ,  $\neg x=y$ ) and a "Selected Hypotheses" section. The "Event-B Explorer" pane shows a list of proof obligations with green checkmarks, including "INITIALISATION/inv1", "INITIALISATION/inv2", "celebrity/act1/SIM", "remove\_1/inv1/INV", and "remove\_1/inv2/INV".

Proof Tree

Proof Control View

Goal

Symbols View