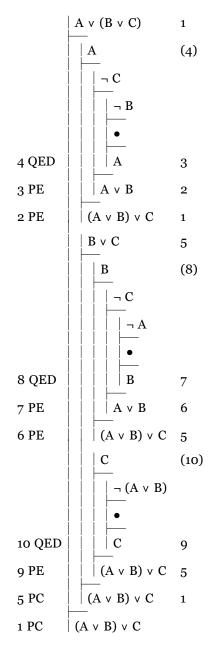
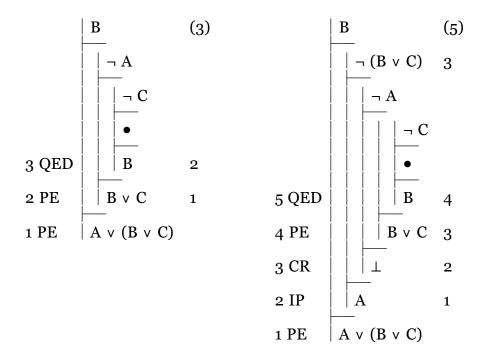
4.2.3. Further examples

Both disjunction rules are illustrated by the derivation at the right, in which one grouping of a three-part disjunction is shown to entail the other. Choices between the two ways of planning for a goal disjunction were made at stages 2, 3, 5, 6, and 7 in accordance with the rules of thumb given earlier. The way each choice was made helped to shorten the derivation —though in each case only by a few steps. This derivation is contrived to provide several examples of PE; instead we might have planned for the initial goal at stage 1 before exploiting the premise rather than planning for it separately in each of three gaps.



The scale of the difference you can expect to result from a choice between the two forms of PE is illustrated by the two derivations below.



Each chooses a different way of planning for the initial goal at stage 1. Notice that in the second, which makes the less efficient choice, we are led back to the goal B v C in a couple of stages.

Glen Helman 27 Sep 2004