mu tac

The *mu tac* command applies a proof rule to definite description (μ) expressions. The definite description expressions must be in antecedent or consequent predicates.

$$\frac{\vdash ?\ \exists_1 s \bullet true, p(\mu s \bullet e) \qquad \mid \exists_1 s \bullet true \vdash ?\ \exists s \bullet p[e/(\mu s \bullet e)]}{\vdash ?\ p(\mu s \bullet e)}$$

$$\frac{\mid p(\mu s \bullet e) \vdash ?\ \exists_1 s \bullet true \qquad \mid \exists_1 s \bullet true, \exists s \bullet p[e/(\mu s \bullet e)] \vdash ?}{\mid p(\mu s \bullet e) \vdash ?}$$

The proof rule is not applicable if there are any names in the schema s that refer to declarations that are in p but not in s.

1. Tactic example

"mu tac" e_2 e_3

This example applies the *mu tac* command to definite description expressions e_2 and e_3.

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