Implementing Residuation in KiCS2

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Residuation is a well-known technique for functional-logic programming languages to delay the evaluation of functions until their arguments are sufficiently instatiated. However, the KiCS2 Curry compiler currently does not support residuation but performs narrowing steps instead due to the internal representation of expressions to be evaluated. In this talk, we present a slightly extended version of the constraint representation that allows the representation of suspended computations and their delayed concurrent evaluation.