

# Reactis V2020

Released July 17, 2020



# New Simulink® Support

- ▶ R2020a.
- ▶ Stateflow® charts configured to use the MATLAB® action language.
- ▶ State Writer and State Reader blocks.
- ▶ Initialize Function and Reset Function blocks.
- ▶ Reset event input ports in referenced models.

# Reactis<sup>®</sup> for EML Plugin

- ▶ For a matrix  $A$ , Reactis previously supported the transpose operator  $A'$ . V2020 adds support for performing the operation with the *transpose* function: *transpose*( $A$ ).
- ▶ New trigonometric functions: *csc*, *sec*, *cot*.
- ▶ For an enumerated type *EnumType*, support notation:
  - ▶ *EnumType*(*EnumVal*) which is equivalent to *EnumType*.*EnumVal*
  - ▶ *EnumType*( $n$ ) to denote the element of *EnumType* with underlying integer value  $n$ .
- ▶ Support  $A \wedge n$  where  $A$  is a square matrix and  $n$  is an integer.
- ▶ Other new functions: *deg2rad*, *cond*

# Reactis for C Plugin

- ▶ Added support for macros which access structure members from within a Stateflow action.

# Other improvements

- ▶ Added the `pre()` function, which is used to access the value of a variable from a previous simulation step from within a **Reactis Validator** expression objective.
- ▶ Test suite export dialog preserves settings from previous export.