

Integrating C Code with Simulink

OEM: MathWorks • Duration: 1 Day (8 hrs) • Code: MW-INTEGRATING-CODE-WITH-SIMULINK

COURSE MODULES & TOPICS

Day 1 of 1

Integrating External C Code Using Simulink Blocks

- Integrating algorithmic C code
- Integrating C code with custom data types
- Integrating code with states
- Sharing custom C code blocks

Creating S-Functions from Legacy Code

- Calling external C functions with Legacy Code Tool
- Handling states
- Sharing compiled S-functions

Writing Wrapper S-Functions

- Writing C MEX S-functions
- Calling external code from C MEX S-functions
- Work vectors
- Debugging C MEX S-functions
- Multirate C MEX S-functions

Deploying Integrated C Code

- Generating code from C Caller and C Function blocks
- Generating code from C MEX S-functions
- Function inlining
- Integrating target-specific code

C Code Integration Methods Review

- Review of all methods of code integration
- How to choose a code integration method