

GT-SUITE

User Code C Manual

VERSION 7.5



by

Gamma Technologies

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CHAPTER 1: C USER Code

1.1 Introduction

GT-SUITE provides the users with the ability to incorporate their own programs into GT-SUITE. The models developed by the user are called "User Models" or "User Routines". One or more user-defined routines can be integrated into GT-SUITE in order to meet the user-specified requirements in modeling certain physical processes (e.g. engine combustion, battery performance, catalyst modeling etc.) or any generic process. User models may be implemented by adding user-written code by replacing any of the allowed sub-models (e.g. heat transfer model, combustion model, battery performance model) within GT-SUITE. Flexible, general purpose user templates are 'UserCodeFHarness' and/or 'UserCodeCControls'.

The 'UserCodeCControls' was introduced in build 1 of v7.5 and detailed documentation for can be found in %GTIHOME%\%VERSION%\usercode\C\documentation. Also, an example model can be found under %GTIHOME%\%VERSION%\examples\z_Interfaces_and_UserModels_Co-Simulation\UserCodeC. We will be adding more documentation soon. If you have any questions after reviewing the resources above, please contact support@gtisoft.com.

The Fortran user models are described in detail in the documents under %GTIHOME%\%VERSION%\usercode\Fortran and %GTIHOME%\%VERSION%\documents\Co-Simulation_And_UserRoutines.

