OSCARator **MBD Accelerator**

OSCARator
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OSCARator MBD acceleration Tool

MATLAB/Simulink

MATLAB/Simulink

③ **Export accelerated C code into model**

OSCARator MBD accelerator

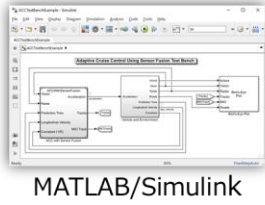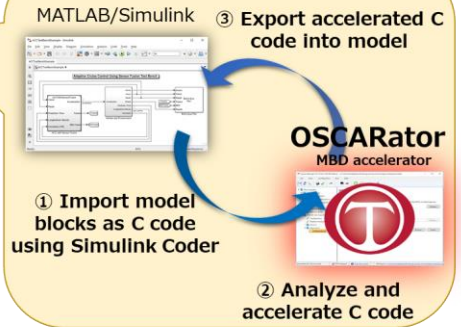① **Import model blocks as C code using Simulink Coder**

② **Analyze and accelerate C code**

By simply adding our **OSCARator** MBD Accelerator
To our current MBD tool (MATLAB/Simulink)

- ✓ Substantial reduction of simulation time
- ✓ Drastically shortened development time
- ✓ Dramatically improved development efficiency

Easy to operate:
Performed automatically,
Activate via right-click context inside
MATLAB/Simulink

Usage scenarios

MBD
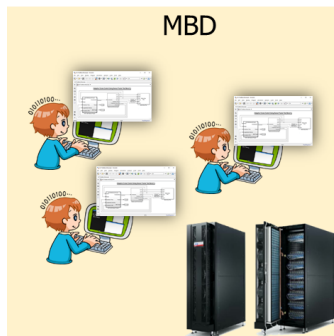
MATLAB/Simulink only

Have you ever experienced following issues?

- Models execute slowly, and speeding up models turns out to be difficult

- Analysis of the execution results is slow, verification whether a model is appropriate is time-consuming.

- Time on the simulation system is limited, which impedes timely creation of models

MATLAB/Simulink
+
OSCARator MBD Accelerator
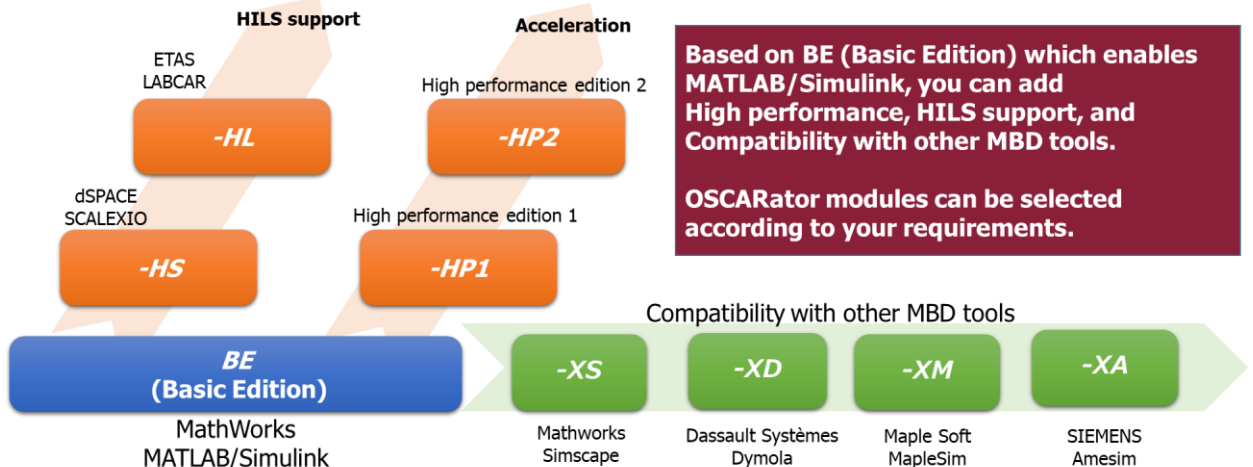
OSCARator MBD Accerelator

Addon!!

Faster model execution and rapid analysis of simulation results leverage users to realize a development flow as they imagine

✓ **It is not required to change the computing environment (hardware)**

*OSCARator MBD Accelerator requires Simulink Coder

Product concept

HILS support

Acceleration

ETAS
LABCAR

-HL

High performance edition 2

-HP2

dSPACE
SCALEXIO

-HS

High performance edition 1

-HP1

Based on BE (Basic Edition) which enables MATLAB/Simulink, you can add High performance, HILS support, and Compatibility with other MBD tools.

OSCARator modules can be selected according to your requirements.

Compatibility with other MBD tools

BE (Basic Edition)
MathWorks
MATLAB/Simulink

-XS
Mathworks
Simscape

-XD
Dassault Systèmes
Dymola

-XM
Maple Soft
MapleSim

-XA
SIEMENS
Amesim

OSCAR TECHNOLOGY CORPORATION

How to use

1: Select the block you want to accelerate from the model developed in Simulink. You can also target multiple blocks using Simulink's "Create Subsystem" function.
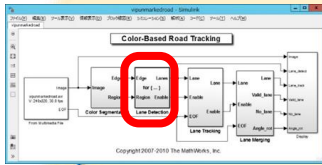
Target Block

2: Choose 'OSCARator MBD Accelerator' on the menu of Simulink Tool
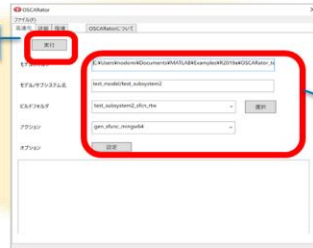
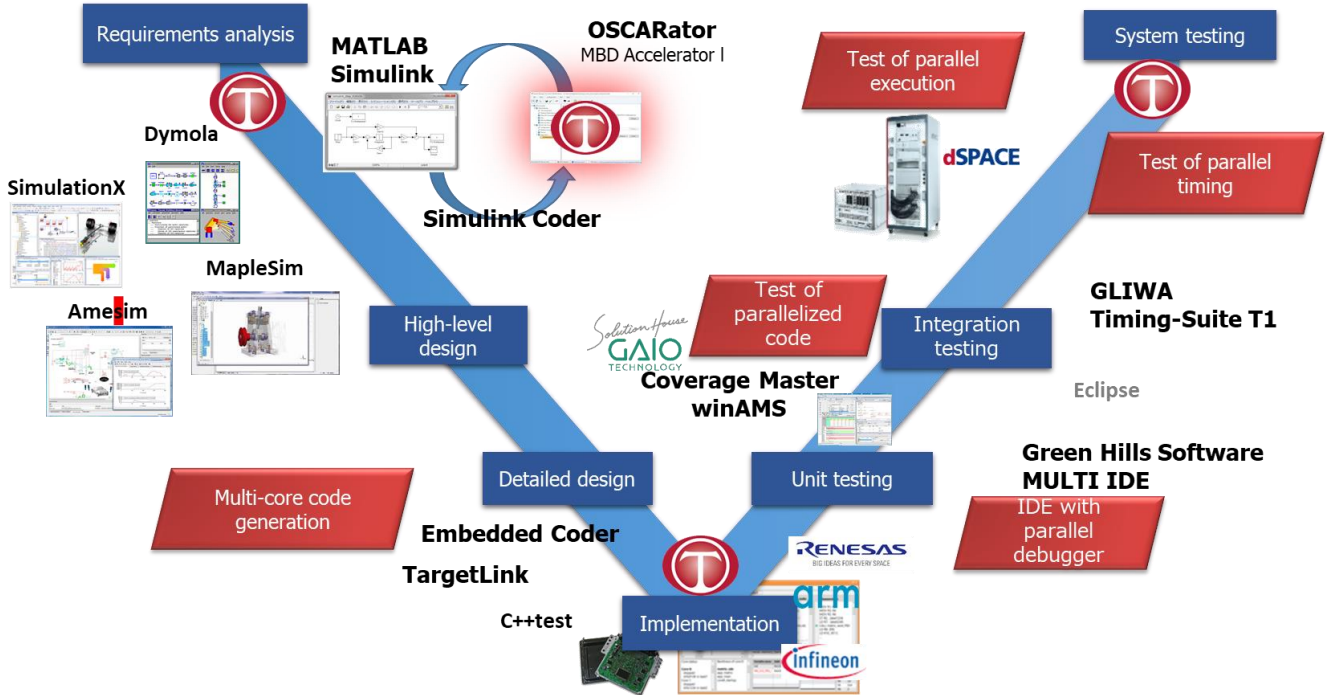4: Run Simulink as usual, then achieving faster simulation

3: The window dedicated to the MBD acceleration tool opens. Make the necessary settings and press the Build button.
When you press the build button, the MBD acceleration tool automatically accelerates the target block and replaces the original block

Bild

Check

OSCARator MBD Accelerator and V-model development

Requirements analysis

MATLAB Simulink

OSCARator MBD Accelerator I

Test of parallel execution

System testing

Dymola

SimulationX

Simulink Coder

Test of parallel timing

dSPACE

MapleSim

Amesim

High-level design

Test of parallelized code

Integration testing

GLIWA Timing-Suite T1

Solution House GAIO TECHNOLOGY
Coverage Master winAMS

Eclipse

Multi-core code generation

Detailed design

Unit testing

Green Hills Software MULTI IDE

IDE with parallel debugger

Embedded Coder
TargetLink

C++test

Implementation

RENESAS
BIG IDEAS FOR EVERY SPACE

arm

infineon

Oscar Technology Corporation cooperates with automotive tool vendors to cover the whole V-model development flow from design over implementation to testing.
The latest product is the GUI-based **OSCARator** MBD Accelerator to speed up the design phase of model-based development in a simple manner.

Contact us

Please contact us if you have any further questions of **OSCARator MBD Accelerator**.
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Oscar Technology Corporation was established to commercialize the automatic parallelization technology that was invented at Waseda University, Tokyo, Japan.

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