

SIMPOW® DSL and the DSL Code Generator

Dynamic Simulation Language, DSL, a built-in high level programming language, allows user-defined modelling of any power system component such as regulators and primary components, e.g. drive systems, FACTS devices and special machines.

The equations written in DSL are solved simultaneously with other equations of the system.

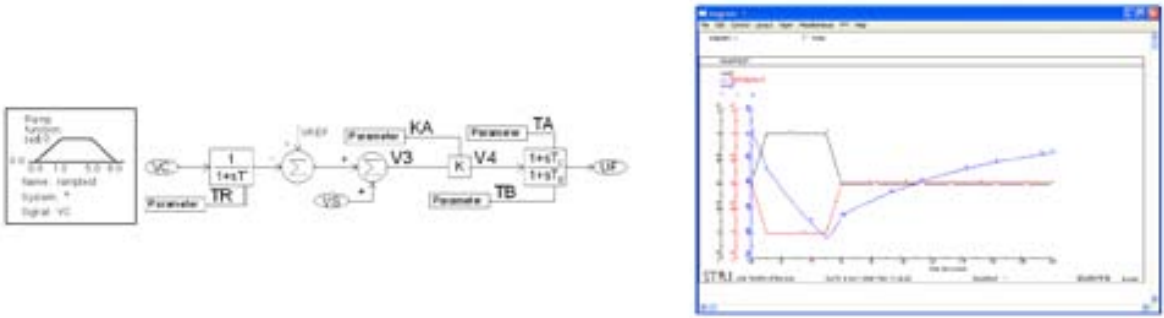
```

!! Multiplies two signals.
V4=KA*V3
!! Filter (1+sTA)/(1+sTB).
INTER_1: INTER_1=V4*(1-TA/TB)TB*.D/DT.INTER_1
UF=TA/TB*V4+INTER_1
IF (START) THEN
!! Checks start conditions by setting REF.
REF: UF=UF0
!! Check of the filter (1+sTA)/(1+sTB).
    
```

The DSL Code Generator, a graphical tool based on HiDraw™*, by which the user can define and generate the required DSL code by connecting pre-defined block diagrams from libraries.

For user-defined modelling of exciters, voltage regulators, power system stabilisers, turbines, turbine governors, protective relays, etc.

Possible to test the model separately and check signals before applying it to a power system



*) HiDraw is a powerful graphical code generating tool used by ABB to produce the applications for their MACH 2™ control and protection system.

More information and free demo at www.simpow.com