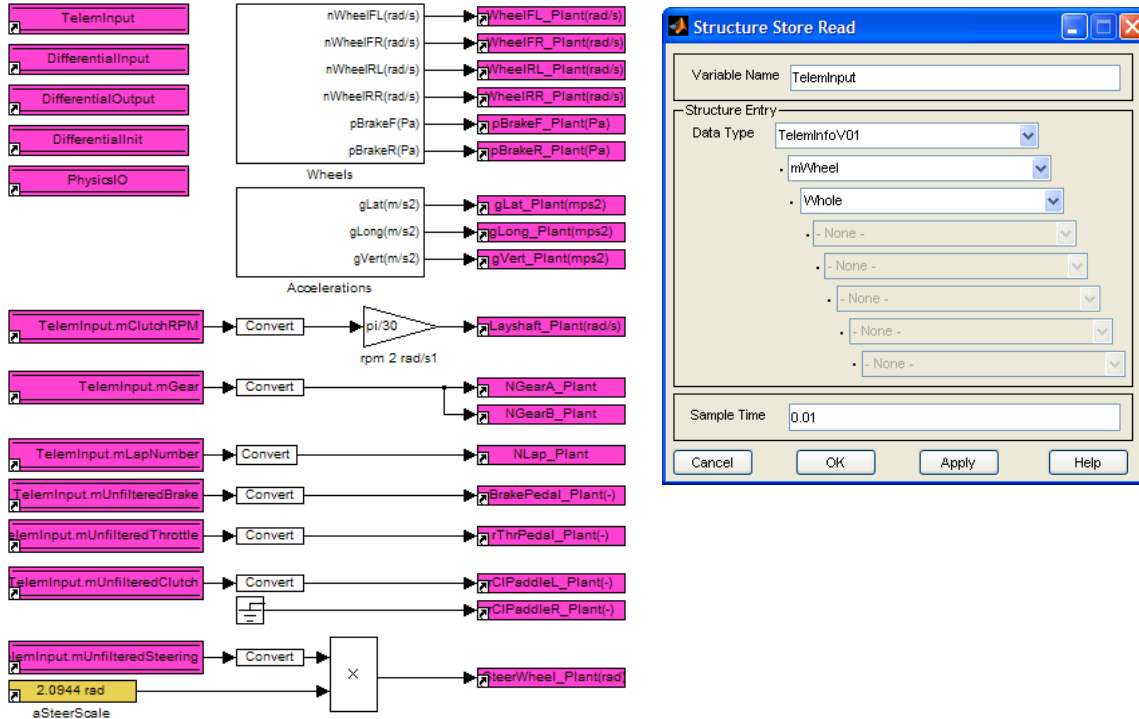
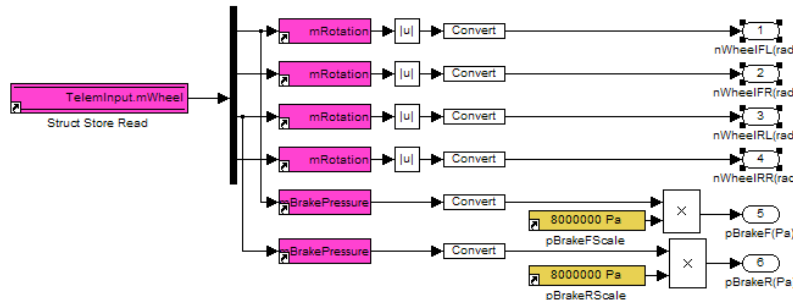


## Interfacing Simulink Models with rFactor-Pro

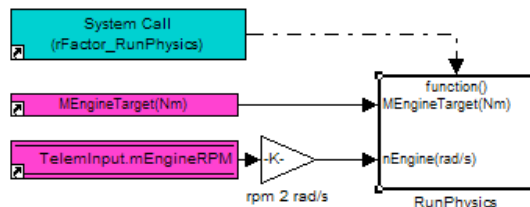
Simulink models can be integrated and compiled to work within rFactor-Pro using @Source and StructureLib from Podium Technology. StructureLib is used to create Simulink accessible structures (created directly from the rFactor header file). StructureLib provides blocks equivalent to the standard Simulink Data Store Memory Read/Write blocks. Firstly a *Structure Store* block is used to declare the availability of the structure in Simulink. Then to get rFactor-Pro data, a *Structure Store Read* block is used to access any depth of structure:



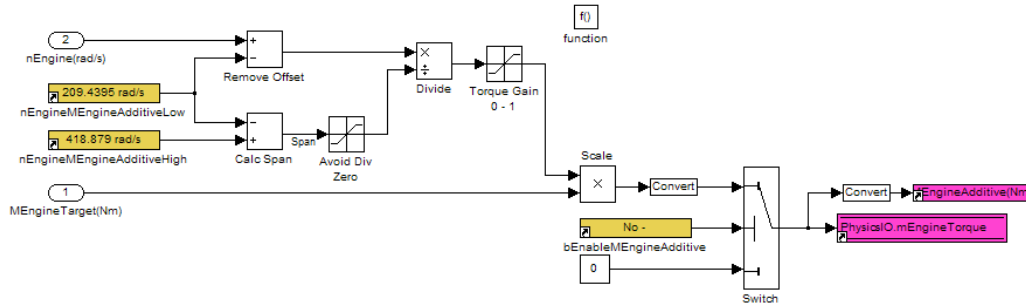
The following example shows how the individual wheel information can be extracted:



Each of the call-back functions available in rFactor-Pro can be access in Simulink as function called subsystems to tie in with the appropriate calculation step of the rFactor simulation:



Writing model output back to rFactor-Pro is the reverse process to the read, using *Structure Store Write* blocks:



@Source provides many of the other blocks required to define configurable items such as maps and tables, as well as signal definitions that can be monitored or logged during the simulation.

Once the model is complete, Real-Time Workshop is used with the rFactor-Pro target to produce the rFactor plug-in.

Interfaces can be implemented to suit your current PC tools for configuration/analysis (providing the protocol is available).