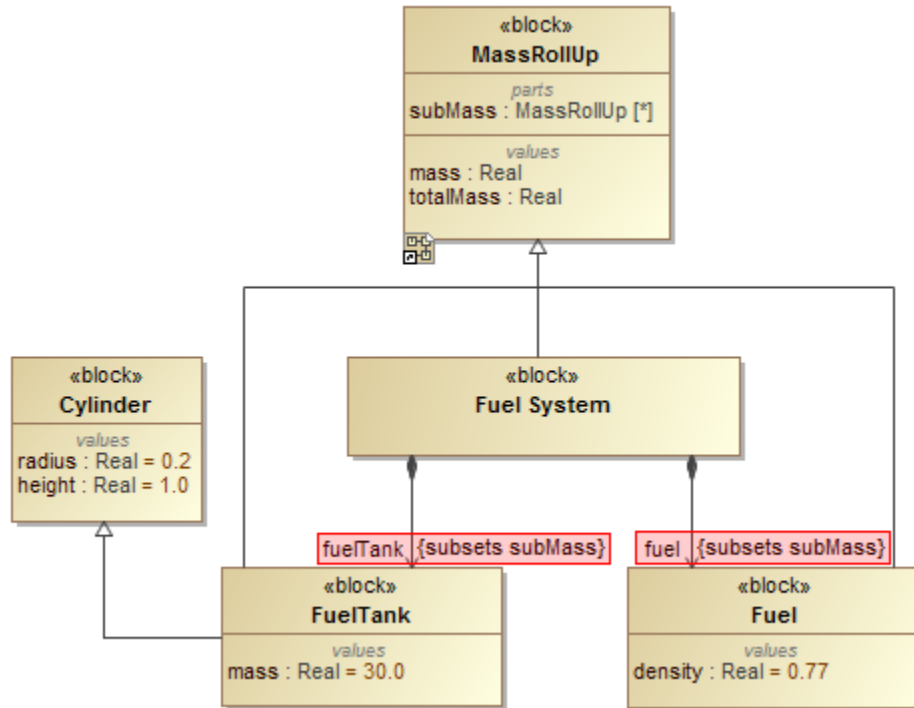


# Subset property

Cameo Simulation Toolkit supports and includes Subset properties in a simulation. It initializes subsets at the beginning of simulation and also updates their values during simulation. The following figure demonstrates a model with subsets



A Model with Subsets.

When the Cameo Simulation Toolkit starts running the model, it will add all runtime values of the subsetting properties to the subsetted properties as illustrated in the following figure

Variables	
Name	Value
Fuel System	Fuel System@37069fc2
mass : Real	0.0000
subMass : MassRollUp [*]	[FuelTank@3535b10a, Fuel@209aa9c4]
[1]	FuelTank@3535b10a
[2]	Fuel@209aa9c4
totalMass : Real	30.0000
: Sum {y = sum(x)}	Sum@70e9ef65
: Add {z = x+y}	Add@7369e6e6
fuelTank : FuelTank {subsets subMass}	FuelTank@3535b10a
fuel : Fuel {subsets subMass}	Fuel@209aa9c4

Subsets after being initialized.

You can update or add a value in the subsetting or subsetted properties. Removing or changing a value in the set of values of a subsetting property will cause the value to disappear or will cause a change in the set of values in the subsetted property, and vice versa. Adding a value to the set of values in the subsetted property causes it to appear in the set of values in the subsetting property.

## Sample model

The model used in the figures on this page is the **SpacecraftMassRollup** sample model that comes with your modeling tool.

To open this sample, do either of the following

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- Download [SpacecraftMassRollup.mdzip](#).
- Find it in the modeling tool *<modeling tool installation directory>\samples\simulation\SpacecraftMassRollup.mdzip*.