

```
tudat::propagators  
::SingleStateTypeDerivative  
< StateScalarType, TimeType >
```



```
graph BT; A["tudat::propagators::NBodyEnckeStateDerivative< StateScalarType, TimeType >"] --> B["tudat::propagators::NBodyStateDerivative< StateScalarType, TimeType >"]; B --> C["tudat::propagators::SingleStateTypeDerivative< StateScalarType, TimeType >"];
```

The diagram illustrates the inheritance hierarchy of propagator types in the tudat library. It consists of three rectangular boxes arranged vertically, connected by blue arrows pointing upwards. The bottom box is shaded gray and represents the base class: `tudat::propagators::NBodyEnckeStateDerivative` with template parameters `< StateScalarType, TimeType >`. The middle box is white and represents an intermediate class: `tudat::propagators::NBodyStateDerivative` with the same template parameters. The top box is white and represents the final derived class: `tudat::propagators::SingleStateTypeDerivative` with the same template parameters. The arrows indicate that `NBodyEnckeStateDerivative` inherits from `NBodyStateDerivative`, which in turn inherits from `SingleStateTypeDerivative`.

```
tudat::propagators  
::NBodyStateDerivative  
< StateScalarType, TimeType >
```

```
tudat::propagators  
::NBodyEnckeStateDerivative  
< StateScalarType, TimeType >
```