

Catégorie:Patrius Backward Compatibility

4.14

De Wiki

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Introduction

A specific backward compatibility mechanism is implemented in PATRIUS allowing by default to have a backward compatibility with PATRIUS version 4.12 propagation models and/or optimisation algorithms. If any action is provided by the user, the **backward compatibility is activated by default in PATRIUS** : this means that external users will see their code/functions working with some of the propagation models/optimisation algorithms of PATRIUS version 4.12.

Backward compatibility functionalities

Available options

Three options are available for users via the enum `PatriusVersionCompatibility` of the class `PatriusConfiguration`:

- `OLD_MODELS` : the user will use the propagation models and optimisation algorithms coded in PATRIUS version 4.12;
- `MIXED_MODELS` : the user will just use propagation models coded in PATRIUS version 4.12 (no backward compatibility on optimisation algorithms);
- `NEW_MODELS` : no backward compatibility mechanism is used.

Backward compatibility for propagation models

As previously mentioned, types `PatriusVersionCompatibility.OLD_MODELS` or `MIXED_MODELS` allow to restore some of the propagation models to the state of PATRIUS version 4.12 for the following functionalities:

- eclipse detection via the class `EclipseDetector`;
- solar radiation pressure computation with the class `SolarRadiationPressure`;
- use of previous obliquity coefficients in the class `EclipticMODProvider` ;

- allows the use of previous entries in the factory `PrecessionNutationModelFactory` and pole coordinates computation in the class `IERS20032010PrecessionNutation`.

Backward compatibility for optimisation algorithms

The type of compatibility configuration `OLD_MODELS` allows to restore also the behaviour of the optimisation algorithm for matrix conversion existing in `PATRIUS 4.12` and implemented in the method `convertMatrixFromAToB` of the class `AbstractBodyAttraction`.

How to set our own Patrius compatibility configuration

The class `PatriusConfiguration` contains a setter `setPatriusCompatibilityMode(PatriusVersionCompatibility)` that allows to switch our own configuration as a function of the user needs. A specific getter `getPatriusCompatibilityMode` allows to retrieve the used configuration at any moment if needed.

Cette catégorie ne contient aucune page ou fichier multimédia.

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