

# Main differences between V4.3 and V4.2

De Wiki

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**PATRIUS** V4.3 is a major release adding some new features and correcting some bugs.

## New functionalities

- Use of Java 8
- New low-level math frameworks: Math, StrictMath and the fastest library available for each math function
- JAFAMA dependency is now 2.3.1
- Add a possibility to by-pass min step criterion on adaptive stepsize integrators such as DOP853
- Body packages has been refactored (ExtendedOneAxisEllipsoid)

## Bugs fixes

- Correction of "Remove detector" feature when propagating several times with the same propagator
- Correction of third body ephemeris through the proper handling of IAU data (TDB scale)
- Correction of event detection: it is now more robust
- Optimisation of SpacecraftState handling of attitude for increased performances
- Optimisation of KinematicsToolkit for increased performance
- Correction of angle normalization function

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