What is Genopus

De Wiki
Aller à : navigation, rechercher
What is Genopus

GENOPUS is a software library including widgets, written in Java by using GENIUS product and corresponding to flight dynamics objects available via PATRIUS library. So, for example, we could find widgets allowing to:

- Entry of a **date** with timescale and conversions.
- Entry of **orbit** definition (date, frame, parameters) and conversions.
- Entry of **impulsive maneuver**, **continuous thrust maneuver** or a **sequence of maneuvers** combining both types.
- Entry of **attitude laws** individually or via a **sequence of laws**.
- Entry of **orbital events** (eclipse ...).
- Entry of **vehicle characteristics**,
- Entry of **force models** (potential, atmosphere, solar pressure radiation ...).

Thus, this library allows getting very quickly complex flight dynamics widgets directly linked to [PATRIUS] objects.

GENOPUS is provided as **Open Source** under license **Apache 2.0**. JavaDoc is accessible via this site.

As it is coded in Java, this product is available for any kind of platforms owning Java. But, of course, it needs GENIUS and PATRIUS products.

GENOPUS is now internally used by CNES for most of expertise tools (for example, PSIMU) as for other tools with a more operational role as ELECTRA.

Récupérée de « http://genopus.cnes.fr/index.php?title=What_is_Genopus&oldid=485 »

Menu de navigation

Outils personnels

- 18.217.182.45
- Discussion avec cette adresse IP
- Créer un compte
- Se connecter

Espaces de noms

- Page
- Discussion

Variantes

Affichages

- Lire
- Voir le texte source
- Historique
- Exporter en PDF

Plus

Rechercher

Rechercher Lire

GENOPUS

- Welcome
- Quick Start
- News

User Manual

- BasicPrinciples
- GPAbsoluteDate
- GPOrbit
- GPFramesConfiguration
- GPVehicle
- GPForceModels
- GPManeuverSequence
- GPAttitudeSequence
- GPIntegrator
- GPAxisCoordinates
- GPGeodeticPoint
- GPOneAxisEllipsoid
- GPRotation
- GPConstants
- Events
- GPCorrelation

Evolutions

- Main differences between V2.4.1 and V2.4.2
- Main differences between V2.3.3 and V2.4.1
- Main differences between V2.2.1 and V2.3.3
- Main differences between V2.2 and V2.2.1
- Main differences between V2.1.1 and V2.2
- Main differences between V2.1 and V2.1.1
- Main differences between V2.0.1 and V2.1
- Main differences between V2.0 and V2.0.1
- Main differences between V1.3.1 and V2.0
- Main differences between V1.3 and V1.3.1
- Main differences between V1.2.1 and V1.3

Training

- Make your own propagator tool!
- Tutorials package for V2.4.1
- Tutorials package for V2.3.3
- Tutorials package for V2.2
- Tutorials package for V2.1.1
- Tutorials package for V2.0 and V2.0.1
- Tutorials package for V1.3 and V1.3.1
- Training slides

Links

- CNES freeware server

Outils

- Pages liées
- Suivi des pages liées
- Pages spéciales
- Adresse de cette version
- Information sur la page
- Citer cette page

- Dernière modification de cette page le 21 janvier 2020 à 14:43.

- Politique de confidentialité
- À propos de Wiki
- Avertissements
-