

Main differences between V11.6.2 and V11.7.1

De Psimu

[Aller à la navigation](#) [Aller à la recherche](#)

La version imprimable n'est plus prise en charge et peut comporter des erreurs de génération.
Veuillez mettre à jour les signets de votre navigateur et utiliser à la place la fonction d'impression par défaut de celui-ci.

This new version does not include too many evolutions but profits of evolutions and corrections coming from the [GENIUS](#) and [GENOPUS](#) new versions.



Sommaire

- [1 Dependencies](#)
- [2 Initial orbit input improvements](#)
- [3 Automatic results save](#)
- [4 New arguments for the batch mode](#)
- [5 VTS Events files](#)
- [6 Anomaly corrections](#)

Dependencies

This version uses [GENIUS](#) V1.12.1, [GENOPUS](#) V2.4.1, [PATRIUS](#) V4.10.2 and [PATRIUS DATASET](#) V1.4.3. Mainly due to the change of the versions of the two last ones, some numerical differences may occur.

Initial orbit input improvements

Thanks to the new [GENOPUS](#) version, the way to enter the initial orbit has been improved : the main evolution is the fact that it is now possible to enter mean elements. Nevertheless, **PSIMU** will still propagate its trajectories with a numerical integrator using osculating parameter.

For more details on the orbit widget, see [here](#).

Automatic results save

New checkboxes are now present in the [Output](#) Tab, defining how it is possible to save automatically some or all the results files. These files will be named with the epoch of the operation (for example *EPH_result_2023-03-31T13-46-34.txt*).



New arguments for the batch mode

Thanks to automatic save (see above), there is now the possibility to define which files will be saved via the context file. Anyway, it is always possible to use the "**-o**" option in batch mode (see [here](#)). This "**-o**" will only give the suffix name but the files that will be really saved will be :

- [SQLite](#) file
- **EPHEM** and **EVENT** files if **-e** or **--ephem** argument is present
- [VTS](#) files if **--vts** argument is present (as in the previous versions)
- Final orbit [XML](#) file if **--orbit** argument is present

WARNING : due to this modification the by default name of the output [SQLite](#) file is no more psimuOutputData.db but PSIMU_result.db using GUI and PSIMU.db else.

VTS Events files

In the previous versions, the [VTS](#) events files included only the epoch and the name of each events. Now, it is also possible to get additional columns as the ones defined for the **EPHEM** or **EVENT** files.

```
CIC_MEM_VERS      = 1.0
COMMENT ephemeris
CREATION_DATE = 2023-03-31T11:57:52.153
ORIGINATOR = CNES

META_START

COMMENT Misc columns : TIME A E I
OBJECT_NAME = Sat
OBJECT_ID = Sat
USER_DEFINED_PROTOCOL = NONE
USER_DEFINED_CONTENT = OEF
USER_DEFINED_SIZE = 1
USER_DEFINED_TYPE = STRING
USER_DEFINED_UNIT = [n/a]
TIME_SYSTEM = UTC

META_STOP

2000-01-01T00:00:00.000      Event #1: Propagation start event
0.00000000e+00              6.72813630e+03            7.43147846e-03
5.15999981e+01
2000-01-02T00:00:00.000      Event #2: Propagation end event on duration
(86400.0s)                  8.64000000e+04            6.71602523e+03
6.52170950e-03              5.15594770e+01
```

Anomaly corrections

- More robust error management for mean parameters as output variables.
- Add of the ".txt" suffix when using the "**-o**" argument in batch mode.

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« http://psimu.cnes.fr/index.php?title=Main_differences_between_V11.6.2_and_V11.7.1&oldid=1091
»

Menu de navigation

Outils personnels

- [Se connecter](#)

Espaces de noms

- [Page](#)
- [Discussion](#)

français

Affichages

- [Lire](#)
- [Voir le texte source](#)
- [Voir l'historique](#)
- [Exporter en PDF](#)

Plus

Rechercher

| | | |
|----------------------|---|-------------------------------------|
| <input type="text"/> | <input type="button" value="Rechercher"/> | <input type="button" value="Lire"/> |
|----------------------|---|-------------------------------------|

PSIMU

- [Welcome](#)
- [Quick start](#)
- [News](#)

GUI Mode

- [Overall presentation](#)
- [Initial Orbit](#)
- [Earth features](#)
- [Vehicle](#)
- [Forces](#)

- [Maneuvers](#)
- [Attitude](#)
- [Integrator](#)
- [Events](#)
- [Output](#)
- [Console](#)

Batch mode

- [How to call it](#)

Java interface

- [Basic principle](#)
- [Data initialization](#)
- [Propagation](#)
- [Printing results](#)
- [Customize output variables](#)

Evolutions

- [Main differences between V11.7.4 and V11.8](#)
- [Main differences between V11.7.3 and V11.7.4](#)
- [Main differences between V11.7.2 and V11.7.3](#)
- [Main differences between V11.7.1 and V11.7.2](#)
- [Main differences between V11.6.2 and V11.7.1](#)
- [Main differences between V11.5 and V11.6.2](#)
- [Main differences between V11.4.1 and V11.5](#)
- [Main differences between V11.4 and V11.4.1](#)
- [Main differences between V11.3 and V11.4](#)
- [Main differences between V11.2 and V11.3](#)
- [Main differences between V11.1 and V11.2](#)
- [Main differences between V11.0 and V11.1](#)

Training

- [Tutorials package for V11.7.x](#)
- [Tutorials package for V11.6](#)
- [Tutorials package for V11.5](#)
- [Tutorials package for V11.4](#)
- [Tutorials package for V11.3](#)
- [Tutorials package for V11.2](#)
- [Tutorials package for V11.0](#)

Links

- [CNES freeware server](#)

Outils

- [Pages liées](#)
- [Suivi des pages liées](#)
- [Pages spéciales](#)
- [Lien permanent](#)
- [Informations sur la page](#)
- [Parcourir les propriétés](#)
- [Citer cette page](#)

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- [Politique de confidentialité](#)
- [À propos de Psimu](#)
- [Avertissements](#)

