

Main differences between V11.6.2 and V11.7.1

De Wiki

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[Main differences between V11.6.2 and V11.7.1](#)

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

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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*).

Output variables

Frequency [s](#)

Inertial Output Frame ▼

Local Output Frame ▼

Time scale ▼

Automatic saving ☒ Ephemeris file ☐ Events file ☐ VTS files ☐ Final orbit file ☐ Scenario file

Variables list file

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 allways 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 colums 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 = 0EF
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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