

Printing

De Wiki

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Once the propogation done, it is possible to use some utilities methods to print results or store them in some files.

Printing results

First, we can use the `printSV()` method as in this example :

```
test.printSV("BEGIN", iniOrbit, FramesFactory.getEME2000(), mm);
final SpacecraftState sc = test.propagateInSlaveMode();
test.printSV("END", sc.getOrbit(), FramesFactory.getEME2000(), mm);
```

This will display something like that ...

```
BEGIN
Frame                EME2000
Mass (kg)            1000.0
T (h)                1.4917487906426035
A (km)               6628.1370000000006
Ex                   8.881784197001211E-16
Ey                   -8.542591124194022E-23
Inc (deg)            51.59999810577826
Raan (deg)           7.714051151482253E-6
X (km)               6628.1369999999962
Y (km)               4.69158061035269E-4
Z (km)               -5.339771250296284E-4
Vx (km/s)            1.4865627172522409E-7
Vy (km/s)            4.816905268016365
Vz (km/s)            6.077421519614858

END
Date (TAI)           2010-01-01T13:48:07.345
Frame                EME2000
Mass (kg)            1000.0
T (h)                1.3468381128010898
A (km)               6191.624504771174
Ex                   -0.06671952301093685
Ey                   -0.0300290461308641
Inc (deg)            51.59999810577824
Raan (deg)           7.714051168045088E-6
X (km)               2163.0125242789236
Y (km)               3798.414653291644
Z (km)               4792.405891341955
Vx (km/s)            -7.343036365577201
Vy (km/s)            1.3329935495415233
Vz (km/s)            1.6818204305631719
```

Storing results

Another solution is to store results in **ASCII VTS** files when **PSIMU** is in master mode:

```
final Psimu psimu = new Psimu(iniOrbit, EARTH, integrationData, assembly,
mm, forces, manSeq, seqAtt);

final OutputConfig output = new OutputConfig(FramesFactory.getEME2000(),
LOFType.LVLH, 86400.);
psimu.propagateInMasterMode(output, null);

psimu.saveVTSFiles("OUTPUT_JPSIMU", "test");
```

The last line of code will create **VTS** files (**VTS_EPH_test.txt**, **VTS_EVE_test.txt** and **VTS_ATT_test.txt**).

Récupérée de « <http://psimu.cnes.fr/index.php?title=Printing&oldid=379> »

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