

# BatchMode

De Opera

[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.

To run **OPERA** in "**Batch mode**" or "**Command Line Interface Mode**" you need to type the following commands in the command prompt:

```
>> java -jar opera-xxx-jar-with-dependencies.jar + arguments...
```

If you want some help about all these arguments, you may type:

```
>> java -jar opera-xxx-jar-with-dependencies.jar -h
```

or

```
>> java -jar opera-xxx-jar-with-dependencies.jar --help
```

The following options are listed below ...

□

## Sommaire

- [1 Not mandatory options](#)
- [2 Mandatory if no XML context file as option](#)
  - [2.1 Search by Sat](#)
  - [2.2 Search by Orbital criteria](#)
  - [2.3 Search by both criteriae](#)
- [3 Mandatory if there is a XML file as option](#)
- [4 Particular case of the synthesis option](#)

## Not mandatory options

- **-h** or **--help**: opera app configuration help [No Args]
- **-v** or **--verbose**: verbose [No Args]
- **-p** or **--progress** : progress mode to activate gui progress bar [No Args]
- **-o** or **--output**: save outputs in file[No Args]

## Mandatory if no **XML** context file as option

- **-c** or **--config**: opera app configuration properties [Mandatory][1 argument] (see [here](#) for more explanation about this kind of file)
- **-t** or **--result**: result type :  
**REENTRY/SM\_ESTIMATION/MANOEUVERS/REPORT/SEARCH** [Mandatory][ 1 argument]
- **-i** or **--ids**: Norad Id List [Mandatory] [No args number limit]

Then, except if the result argument is **SEARCH**:

- **-d** or **--duration**: duration of process in days [Mandatory][1 argument]
- **-e** or **--endcjd**: end of History in CNES Julian date (or calendar format since V7.2.2) [Mandatory][1 argument]
- **-m** or **--mergeMethod**: solar activity merge method (**END\_OF\_REAL\_FILE** or **MERGE\_DATE**) [Mandatory][1 argument if **END\_OF\_REAL\_FILE**, 2 arguments else with the last one, the merge date in CNES Julian date (or calendar format since V7.2.2)]

Here is an example of such a call:

```
>> java -jar opera-xxx-jar-with-dependencies.jar --config
OPERA_DATA/work/operaappworkingcopy.properties --result REENTRY --endcjd
22607.00039351852 --duration 100 --ids 10479 10582 --mergeMethod
END_OF_REAL_FILE --verbose --output --progress
```

It is also possible, rather than to give directly Norad Ids, to use searching functions as with the **GUI** mode. Two possibilities are available:

## Search by Sat

In that case, the **--ids** option will be followed by **BYSAT** then at least one of these criteriae to filter the Norad Ids (order is not important):

- **NORADID**=*pattern*; by default ""
- **COSPARID**=*pattern*; by default ""
- **COUNTRY**=*pattern*; by default ""
- **NAME**=*pattern*; by default ""
- **SIZE**=*list of sizes between UNKNOWN, SMALL, MEDIUM, LARGE (separated by ",");* by default the four options
- **DECAY**=**ALL**, **INORBIT** or **REENTERED**; by default **ALL**
- **NMAX**= maximum amount of results; by default 1000

Here is an example of such a call:

```
>> java -jar opera-xxx-jar-with-dependencies.jar --config
OPERA_DATA/work/operaappworkingcopy.properties --result REENTRY --endcjd
22607.00039351852 -duration 100 --ids BYSAT NORADID=*479 COUNTRY=US NAME=DEL*
SIZE=SMALL,MEDIUM DECAY=REENTERED --mergeMethod END_OF_REAL_FILE --verbose";
```

## Search by Orbital criteria

In that case, the **--ids** option will be followed by **BYORB** then at at least one of these criteriae to filter the Norad Ids:

- **DMIN**=*value* (by default 0.) → minimum 1950 Julian date for searching Norad Ids in the (see [here](#))
- **DMAX**=*value* (by default current date) → maximum 1950 Julian date for searching Norad Ids in the (see [here](#))

- **I**=[*true/false*]; if true we may add:
  - **IDEG**=[*true/false*] (by default false) → values expressed in degree if *true*
  - **IMIN**=*value* (by default 0.) → minimum inclination
  - **IMAX**=*value* (by default 0.) → maximum inclination
  
- **AE**=[*true/false*] (by default false) → if true, it means that we will work on (semi-major axis/eccentricity) couple rather than (apogee/perigee altitudes). Then, we may add:
  
- **A**=[*true/false*]; if true we may add:
  - **AKM**=[*true/false*] (by default false) → values expressed in km if *true*
  - **AMIN**=*value* (by default 0.) → minimum semi-major axis
  - **AMAX**=*value* (by default 0.) → maximum semi-major axis
- **E**=[*true/false*]; if true we may add:
  - **EMIN**=*value* (by default 0.) → minimum eccentricity
  - **EMAX**=*value* (by default 0.) → maximum eccentricity
  
- **HA**=[*true/false*]; if true we may add:
  - **HAKM**=[*true/false*] (by default false) → values expressed in km if *true*
  - **HAMIN**=*value* (by default 0.) → minimum apogee altitude
  - **HAMAX**=*value* (by default 0.) → maximum apogee altitude
- **HP**=[*true/false*]; if true we may add:
  - **HPKM**=[*true/false*] (by default false) → values expressed in km if *true*
  - **HPMIN**=*value* (by default 0.) → minimum perigee altitude
  - **HPMAX**=*value* (by default 0.) → maximum perigee altitude

And, as for the **BYSAT** option, we have:

- **NMAX**= maximum amount of results; by default 1000

Here is an example of such a call:

```
>> java -jar opera-xxx-jar-with-dependencies.jar --config
OPERA_DATA/work/operaappworkingcopy.properties --result REENTRY --endcjd
23062 -duration 100 --ids BYORB I=true IMIN=2. IMAX=3. AE=false HP=true
HPMIN=260. HPMAX=265. HA=true HAMIN=33200. HAMAX=33300. --mergeMethod
END_OF_REAL_FILE --verbose
```

## Search by both criteriae

It is possible to combine both criteriae using thje **BYSATORB** option.

```
>> java -jar opera-xxx-jar-with-dependencies.jar --config
OPERA_DATA/work/operaappworkingcopy.properties --result SEARCH --ids BYSATORB
HP=true HPKM=true HPMIN=150. HPMAX=250. DECAY=INORBIT NMAX=100 --verbose
```

## Mandatory if there is a **XML** file as option

- **-x** or **--xml**: opera **XML** context file [Mandatory][1 Arg(s)]

Such a **XML** file may be obtained using the **GUI** (Save Context ...).

Here is an example of such a call:

```
>> java -jar opera-xxx-jar-with-dependencies.jar --xml data/OPE_test.xml
```

Moreover, it is possible to use the **--config** (or **-c**) option to define which opera app configuration properties to use:

```
>> java -jar opera-xxx-jar-with-dependencies.jar --config ./operaapp-configuration.properties --xml data/OPE_test.xml
```

## Particular case of the synthesis option

To obtain a "synthesis" file, it is possible to call **OPERA** using the **-s** or **--synthesis** option. Just after this option, the user will have to give a list of basic **csv** or **xlsx** files previously created by **OPERA** then, at last, the name of this synthesis file:

Here is an example of such a call:

```
>> java -jar opera-xxx-jar-with-dependencies.jar -s result/Run1.xlsx  
result/Run2.xlsx result/Run3.xlsx result/Synthesis.xlsx -v
```

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## 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

Rechercher

Lire

## OPERA

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

## GUI Mode

- [Overall presentation](#)
- [Operaapp configuration file](#)
- [Configuration panel](#)
- [Solar activity panel](#)
- [Parameters panel](#)
- [Console panel](#)
- [Result files](#)
- [Plots panel](#)

## Batch mode

- [How to call it](#)

## Java interface

- [Basic principle](#)
- [Reentry or S/M Estimation](#)
- [Maneuvers Estimation and Pdf report](#)
- [Searching Norad Ids](#)
- [Tutorials](#)

## Evolutions

- [Main differences between V7.2.3 and V7.2.4](#)
- [Main differences between V7.2.2 and V7.2.3](#)
- [Main differences between V7.2.1 and V7.2.2](#)
- [Main differences between V7.2 and V7.2.1](#)

## Documentation

- [Conference Papers](#)

## 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 Opera](#)
- [Avertissements](#)

