BatchMode

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BatchMode

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 ...

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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 serching funtions 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 citeriae 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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