

# Input Output Files

## Input File

One EPOS input file, called “options file”, contains the configuration for :

- simulated reaction
- analysis
- check messages during process
- ROOT output
- HepMC output

The directory `$EPO/examples/` contains some EPOS input configuration files :

- `expl1.optns` : decay of a kinky string
- `expl2.optns` : electron-positron annihilation
- `expl3.optns` : proton-proton collision / no hydro / no hadronic cascade
- `expl4.optns` : proton-proton parameterized fluid expansion (mimic hydro)
- `expl5.optns` : proton-proton with hydro and hadronic cascade
- `expl6.optns` : PbPb collisions with hydro and hadronic cascade

The option filename must be `name.optns`, where `name` may be any character string (with the exception of `text-number`, which has a special meaning). To run a simulation, we use the following syntax :

```
cd $OPT
$EPO/scripts/epos name
```

Please refer to the **Install** instructions (<https://klaus.pages.in2p3.fr/epos4/code/install>) for the definitions of the environment variables **OPT** and **EPO**.

## Output Files

According to the simulation configuration, the following output files may be written:

- **check file**: messages during simulation process
- **histo file**: histogram definitions with simulation results
- **ROOT file**: ROOT Trees with simulation results
- **HepMC file**: HepMC data with simulation results

The simulation process also produces some messages on the standard output.