

| VieRDS Parameter | Description | Category | Default Value |
|------------------------|--|------------------------------|--------------------------|
| zero_bl | zero baseline simulation (=1), non zero baseline simulation (=0) | Zero-baseline mode | 1 |
| output_folder | name of output folder | Folder name | <timetag "now"> |
| code_folder | name of CODE folder | Folder name | CODE/ |
| difx_folder_long | name of DiFX folder (will be copied to output_folder) | Folder name | DIFX/ |
| write_vdif_file | write vdif file =1, don't write vdif file = 0 | VDIF | 1 |
| vex_file | write vex file =1, don't write vex file = 0 | VEX | 1 |
| experiment_name | name of your simulation experiment (also used for VEX file) | VEX | sim |
| vex_file_format | label for vex file format | VEX | 1.5 |
| experiment_description | experiment description for VEX file | VEX | baseband_data_simulation |
| user_name | your user name (also used for VEX file) | VEX | your_username |
| target_corr | name of target correlator (also used for VEX file) | VEX | your_target_correlator |
| software | name of software (also used for VEX file) | VEX | VieRDS |
| software_version | git rev-parse HEAD (also used for VEX file) | VEX | <git id> |
| vie_init.trf | name of TRF database | Non-zero baseline parameters | viewsTrf.txt |
| vie_init.crf | name of CRF database | Non-zero baseline parameters | supersource.mat |
| EOPfile | name of EOP file | Non-zero baseline parameters | finals_all_IAU2000.txt |
| eop_interp_method | name of EOP interpolation method | Non-zero baseline parameters | lagrange |
| nutmod | Name of nutation model | Non-zero baseline parameters | IAU_2006/2000A |
| write_v2d_file | write v2d file (=1), don't write v2d file (=0) | DIFX | 1 |
| difx_tInt | DiFX integration (accumulation period) | DIFX | 0.025 |
| difx_nChan | DiFX number of channels | DIFX | 64 |
| subintNS | Sub-integration time of DiFX (ns) | DIFX | 256000 |