

# PAR - Parameters

The PAR format in the Flux Capacitor is used to administrate all parameters of a run. It is a simple format containing key value pairs (one per line) with the following parameter names (i.e., keys):

## File Locations

| Key             | Type   | Default Value | Description                                                                                                                       |
|-----------------|--------|---------------|-----------------------------------------------------------------------------------------------------------------------------------|
| ANNOTATION_FILE | String |               | Path to the GTF reference annotation, either absolute or relative to the location of the parameter file                           |
| COVERAGE_FILE   | String |               | Path to the file to which coverage profiles are stored; used only if COVERAGE_STATS is true                                       |
| INSERT_FILE     | String |               | Path to the file for output of inserts                                                                                            |
| KEEP_SORTED     | String |               | Path to the directory where sorted file have to be stored in case of unsorted input files (ANNOTATION_FILE, MAPPING_FILE or both) |
| MAPPING_FILE    | String |               | Path to the BED file containing the all the mappings.                                                                             |
| PROFILE_FILE    | String |               | Path to the file for outputting profiles                                                                                          |
| STATS_FILE      | String |               | Path to the file to which the run characteristics are written                                                                     |
| STDERR_FILE     | String |               | Path to the file for log messages                                                                                                 |
| STDOUT_FILE     | String |               | Path to the file for default output                                                                                               |
| TMP_DIR         | String | \$TMP_DIR     | Temporary directory, can also be specified by the environment variable \$TMP_DIR.                                                 |

## Output

| Key               | Type    | Default Value | Description                                                                                    |
|-------------------|---------|---------------|------------------------------------------------------------------------------------------------|
| COVERAGE_STATS    | Boolean | false         | Flag to output coverage statistics                                                             |
| STATS_FILE_APPEND | Boolean | false         | Append to the stats file. This adds results from this run to an existing capacitor stats file. |

## Input

| Key                | Type    | Default Value | Description                                                                                                                                                                                                         |
|--------------------|---------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SORT_IN_RAM        | Boolean | true          | Sort reads in RAM memory, not on disk                                                                                                                                                                               |
| READ_DESCRIPTOR    | String  | {ID}          | Expression how to parse the read IDs, or one of the following shorthand names: <div>ANTISENSE, STRAND_MATE, BARNABART, MATE2_SENSE, MATE1_SENSE, MATE_STRAND_CSHL, SENSE, SIMULATOR, PAIRED, SIMPLE, CASAVA18</div> |
| NR_READS_MAPPED    | Int     | -1            | The number of reads mapped                                                                                                                                                                                          |
| ANNOTATION_MAPPING | String  | SINGLE        | Information from the read descriptor that will be used for annotation mapping: <div>AUTO, PAIRED, STRANDED, SINGLE, COMBINED</div>                                                                                  |

## Task

| Key            | Type    | Default Value | Description                                                                |
|----------------|---------|---------------|----------------------------------------------------------------------------|
| NO_DECOMPOSE   | Boolean | false         | Avoid running deconvolution step on the dataset                            |
| COUNT_ELEMENTS | List    | []            | Count elements specified in the list: <div>SPLICE_JUNCTIONS, INTRONS</div> |