

Compatibility of Mapping Files between Simulator and Capacitor

1. What are the differences between Flux Capacitor and Flux Simulator?
2. I specified the .PRO file in Flux Capacitor as below:

```
ANNOTATION_FILE some_gtf_file.gtf  
  
COUNT_ELEMENTS [SPLICE_JUNCTIONS, INTRONS]  
  
ANNOTATION_MAPPING AUTO  
  
MAPPING_FILE my_bed_file_for_sample1.bed  
  
PROFILE_FILE output_dir  
  
STATS_FILE output_dir  
  
STDERR_FILE output_dir  
  
STDOUT_FILE output_dir  
  
READ_DESCRIPTOR STRAND_MATE
```

However, when I run `flux-capacitor -p par_file.par`, the following errors appear:

```
[ERROR] Read Descriptor {ID}/{STRAND}[0,1,2]/{MATE}[1,2] incompatible with read IDs  
java.lang.RuntimeException: Read Descriptor {ID}/{STRAND}[0,1,2]/{MATE}[1,2] incompatible with read IDs  
    at barna.flux.capacitor.reconstruction.FluxCapacitor.fileStats(FluxCapacitor.java:2847)  
    at barna.flux.capacitor.reconstruction.FluxCapacitor.call(FluxCapacitor.java:1798)  
    at barna.flux.capacitor.reconstruction.FluxCapacitor.call(FluxCapacitor.java:74)  
    at barna.commons.launcher.Flux.main(Flux.java:198)
```

My questions are: what should I input for READ_DESCRIPTOR? Also, for COUNT_ELEMENTS, are the only options SPLICE_JUNCTIONS and INTRONS? What are the output files for Flux Capacitor?

3. Will any of the Flux Capacitor output files directly useable in Flux Simulator (in its .PRO file, I guess)?