

# 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)?