

11.1 Event processing concept

The Event Processing tab is the place in SEAMCAT where you can set the Event Processing Plugin (EPP). The EPP is a plugin that is given access to the EventResults, one by one, as they are produced by the simulation - an EPP can be viewed as an adjacent simulation. An EPP is allowed to inspect the scenario and the EventResult and based on this observation it can produce its own results. Once an EPP is installed in SEAMCAT it can be configured for any scenario possible.

Figure 236 depicts the basic flow of SEAMCAT for a single thread example i.e. One event result (R_i) is calculated at a time in sequence.

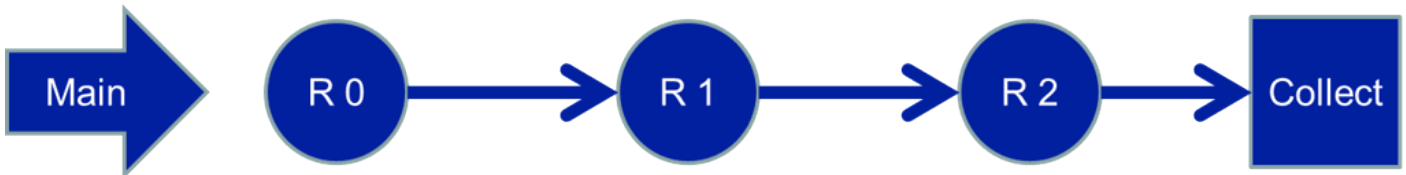


Figure 236: Flow of SEAMCAT

Each of the produced event results can be 'processed' by a plugin in the sense that it can make additional computation based on the event result and scenario settings. This has huge potential. Basically, there is no limits to how this can be used!

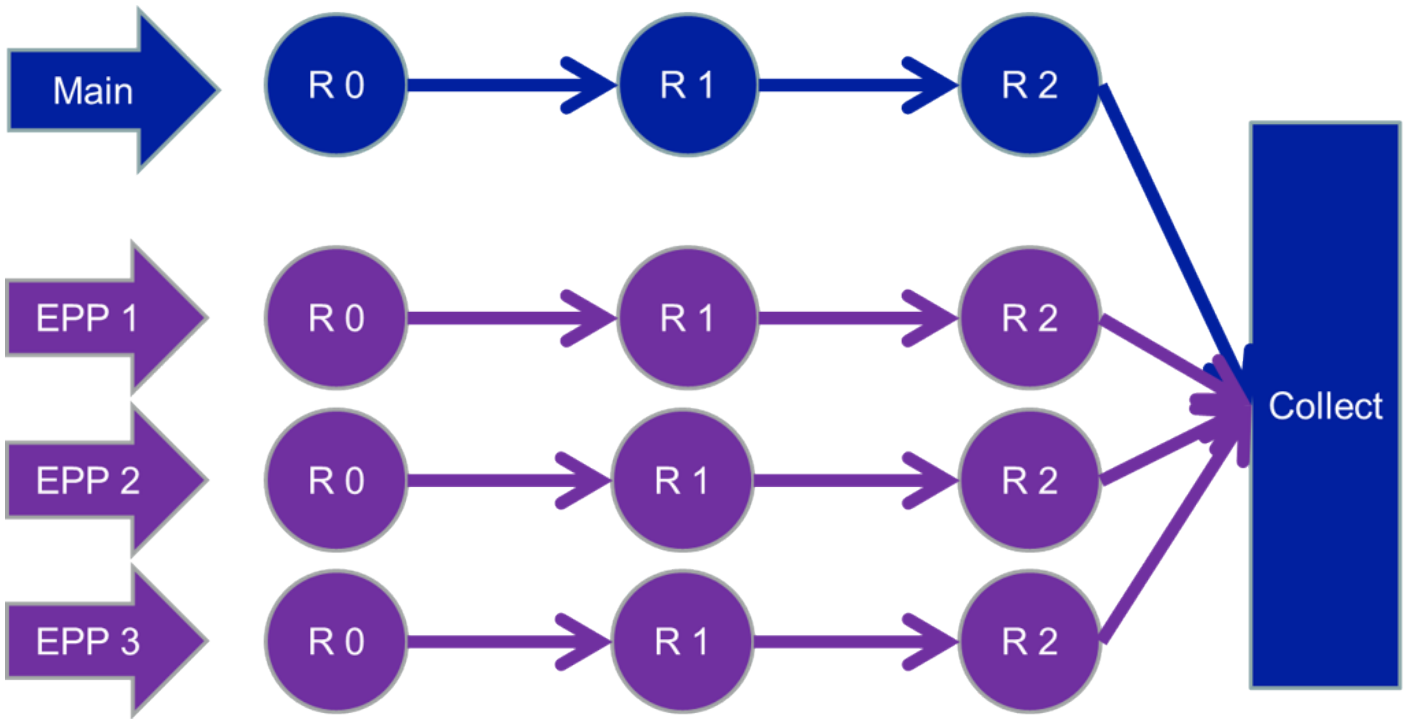


Figure 237: EPP Flow in SEAMCAT

EPPs have a dedicated thread to run in, and therefore run at the same time as the simulation runs as depicted in Figure 237. EPP inputs are exactly the same for other plugin inputs, but the EPP results are very different. The EPP can produce results like Single values, Vectors, Vector groups, Scatter diagrams, Barcharts.

Revision #1

Created 2026-04-21 07:56:22 UTC by ECO TECH

Updated 2026-04-21 07:57:09 UTC by ECO TECH