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A single-processor model with two input types: external Poisson and batched feedback are considered. The service station consists of an infinite buffer exponential single-server. After a task leaves the service station, it will do one of the following things: leaves the system with a probability, returns to the end of waiting buffer with a probability through a delay station; and proceeds to a splitter with a probability. The splitter splits the task into two subtasks, one returns to the waiting buffer through the delay buffer, and the other either leaves the system with a probability, or returns to the waiting buffer with a probability, through the delay buffer. The splitting is immediate. The delay station consists of an infinite buffer and a single delay processor. The movement process from the delay station to the service station is by an exponential finite batch. The delay processing starts only if there is at least a number of tasks in the delay buffer, called the threshold. After the processing at the delay station is completed, the processed batch joins the waiting buffer in the main service station. In this presentation we will focus on the case of a batch of size one. Here, the stationary algorithmic mean of queue size at each station is given. (Received September 11, 2008)