

Periodic Batching*

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A fundamental problem in scheduling HWGW batching is to ensure scripts never start at a raised security level. Here, we solve the problem with a batch schedule that is *periodic*. By leaving a carefully calculated safe window between each HWGW, we can ensure that all hacks, grows, and weakens start in that window and so begin at minimum security. This periodic schedule can then be repeated as long as it remains valid – in theory forever, but in practice until the hacking level increases, though we describe a way of mitigating this limitation at the end.

First, we define a timing model, which tells us the structure of the batches we want to achieve. As usual, we need to leave some time buffer between events to work with JavaScript concurrency timing. We call that time t_0 . The timing model we will use is the following:

*Updated by quacksouls, <https://github.com/quacksouls>