

Here's a short tutorial on how to implement a default behavior for your BFM using VMM.

Some protocols require constant activity on their interface even when you don't have any data to transmit. This means you must have a mechanism that drives idle packets or dummy data items as long as the generator doesn't produce items for its BFM. In VMM, Generators are connected to BFMs using `vmm_channels` and we're just about to show you how to take advantage of that for our needs.

Note: Basic familiarity with SystemVerilog and VMM is assumed.

```
{code}
task bfm_main();
  forever begin
    // NON-DEFAULT BEHAVIOR: check if there's anything waiting in the channel
    if (chan.size() > 0) begin
      this.notify.reset(DONE);
      chan.get(packet);

      drive_packet(packet);

      // DEFAULT BFM BEHAVIOR: if channel is empty, drive an idle packet
    end else begin
      drive_idle_packet();
    end
    // and.. don't forget to provide stopping condition
    wait_if_stopped();
  end
endtask

{/code}
```