endmodule

```
verilogA/va_signals_from_file_9b.va
// VerilogA for wk carrerobardon, va signals from file, veriloga
`include "constants.vams"
`include "disciplines.vams"
`define DATA WIDTH 9
module va_signals_from_file_9b(data[`DATA_WIDTH-1:0]);
output [`DATA_WIDTH-1:0] data;
electrical [`DATA_WIDTH-1:0] data;
parameter string file path = "input signal.txt";
parameter real vlogic_high = 1.2;
parameter real vlogic_low = 0;
parameter real vtrans = 0.6;
parameter real tdel = 1e-12;
parameter real tfall = 50e-12;
parameter real trise = 50e-12;
integer file descriptor;
real next launch = 0.0;
genvar k;
integer j;
integer i = 0;
integer current read [`DATA WIDTH-1:0];
analog begin
@(initial step) begin
    file descriptor = $fopen(file path, "r" );
@(timer(next launch)) begin
    i = i + 1;
    $fscanf(file_descriptor,"%e",next launch);
    next_launch = next_launch + $abstīme;
end
generate i (0, `DATA WIDTH-1, 1 ) V(data[i]) <+</pre>
transition(current read[i]*vlogic high, tdel, trise, tfall);
end
```

1 of 1 6/9/24, 16:53