```
verilogA/va_signals_from_file_clocked_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 clocked 9b(clk,data[`DATA WIDTH-1:0]);
output [`DATA_WIDTH-1:0] data;
electrical [`DATA_WIDTH-1:0] data;
input clk;
electrical clk;
parameter real clk_threshold = 0.6;
parameter integer clk_edge = 1 from [-1:1];
parameter integer using_file_with_delays = 0;
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;
genvăr k;
integer j;
integer i = 0;
integer current_read [`DATA WIDTH-1:0];
real trash = 0.\overline{0};
analog begin
@(initial_step) begin
    file_descriptor = $fopen(file_path, "r" );
@(cross(V(clk) - clk_threshold, clk_edge)) begin
    i = 0;
    i = i + 1;
    if(using file with delays == 1) begin
    $fscanf(file descriptor, "%e", trash);
end
generate i (0, `DATA WIDTH-1, 1 ) V(data[i]) <+</pre>
transition(current_read[i]*vlogic_high, tdel, trise, tfall);
end
endmodule
```

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